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A Catalogue of Precambrian Palaeobiology from India

Diamond Jubilee Special Publication

Birbal Sahni Institute of Palaeobotany
Lucknow
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FOREWORD

The task to collate, edit, update and create a systematic inventory of fossil plants known from Indian sedimentary successions was first initiated by scientists of the Birbal Sahni Institute of Palaeobotany after the Silver Jubilee Celebrations in November, 1971. Though it was a daunting task as the information was scattered in various journals and many other publications, this effort materialized with the publication of "A Catalogue of Indian Fossil Plants" by R. N. Lakhanpal *et al.* in 1976. This single volume catalogue included all plant mega- and microfossil records published from 1821 to 1970. As enormous data had subsequently gathered in the next two decades, another Catalogue was released during the Birbal Sahni Birth Centenary Celebrations in 1991. However, due to the wealth of the available data impossible to be incorporated in a single compendium, 11 Fascicules on different fossil groups and/or geologic time span were prepared, each authored by subject experts from the Institute.

In connection with the Diamond Jubilee Celebrations of the Institute this year, the idea to again update the information came up during discussions in our group meetings sometimes in January, 2006. Despite the short notice and a tall order, several of my Institute colleagues readily volunteered to take up the uphill task. It is indeed heartening to see that these Catalogues/Atlases have been completed in record time. I wish to express my most sincere appreciation to all those who contributed their energy and skill in giving shape to these individual compilations.

I am happy to see this catalogue in the final form and confident that It would be found useful by students and scholars engaged in palaeobotanical researches.

October 16, 2006

Dr. N. C. Mehrotra
Director
Birbal Sahni Institute of Palaeobotany

PREFACE

The first attempt to bring out a catalogue of the fossil plants was made in 1971 coinciding with the Silver Jubilee celebrations of the Birbal Sahni Insitute of Palaeobotany. Due to enormity of the task and non availability of modern compiler facility such as computer, it could be published in 1976. In a single volume all the vegetative remains from Precambrian to 600 B.C. were incorporated. The reason for this arbitrary limit was to include all the archaeobotanical finds, one of the branches being pursued at the institute. That catalogue included all available records from the 1821 to 1970. At that time not many Precambrian remains were known and could be included in the same volume. Gradually the interest of the researchers in Precambrian life increased the study of microbial remains proliferated at several centers in the country leading manifold the break in reports of microfossils. These reports in totality did not confine to vegetal remains of Precambrian only but also included organo sedimentary structures, trace fossils, early animal fossil and acritarchs. In the mean time palaeobotanical literatures increased enormously. The records were spread over from well known periods to obscure journals. It necessitated another exercise to bring order to rapidly growing data for palaeobotanists to maintain a complete record of all the reports from various sources. At this stage, in 1971, it was decided to bring out second catalogue of Indian fossil plants. Instead of publishing it in a single volume, it was planned in 11 fascicules completed by different group of the Birbal Sahni Institute of Palaeobotany. A catalogue of fossil plants from India series was published in 1992 and its part 1 included Archaean and Proterozoic Palaeobiology. This task was undertaking by Dr Manoj Shukla & Mr Rajendra Bansal. This catalogue included all the available records upto 1990. This catalogue was found useful by students and scholars engaged in palaeobotanical researches.

On the occasion of the Diamond Jubilee celebrations Birbal Sahni Institute of Palaeobotany, it was decided to update the catalogues already published by the institute. Independent groups were assigned the job to update different fascicules of catalogue. We undertook this job and results are before you. In the present catalogue we have devided the Precambrian palaeobiological remains into algae, acritarchs, stromatolites, Biological carbonaceous megaremains, trace fossils, etc. In spite of the spurt in recording Precambrian palaeobiological remains, addenda were never many

to deserve a book status. Therefore, all that is known from beginning upto the time of submitting this manuscript i.e. September 2006 have been incorporated.The vegetal remains and other groups of Precambrian palaeobiological remains are arranged alphabetically according to generic names and species under such genera have also been listed accordingly. The name of the authors who instituted the genera or species is also given. The name of individual species is followed by its authorship, date of publication, page number, reference to plate and figures, geological age with name of the horizons in parenthesis, locality and the name of the state in which it is situated. Where a particular species has again been reported either from other same or some other localities, all such reports have been mentioned in chronological order along with the relevant data. Due to organization the political boundaries of the states and districts the names have changed, but we have adhered to the geographical entities as mentioned in the respective publications. Similarly chronological assignments given by different authors are unaltered. Therefore one may find concurrent usage of Riphean, Algonkian, Mesoproterozoic or Middle Proterozoic, etc. This has even resulted in documenting different ages for the same horizon. All such entries need critical revision but no such attempt has been made at present.

Our endeavor has been to bring together as complete a record as possible of all the Precambrian palaeobiological remains reported from India. In this efforts where no binomial have been given and fossils have been mentioned in such vague terms as stromatolites, trace fossils, or Form A and Form B, even they have been listed, so that their occurrences are put on record which may prove useful in future.

We are fully conscious that there would many shortcomings in this compilation and assume full responsibilities for the same. It is our earnest request to the users of this catalogue to call our attention to any errors or omissions so that these can be rectified the next edition.

Manoj Shukla
Rupendra Babu
Veeru Kant Singh
Mukund Sharma

CATALOGUE

ACRITARCHS

ACANTHODIACRODIUM (Timofeev) Deflandre & Deflandre-Rigaud

Acanthodiacrodium angustum (Downie) Combaz. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 467; pl. 1, figs. 2-3 & 16; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

Acanthodiacrodium simplex Combaz. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 467; pl. 1, fig. 28; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

Acritarch folded cf. **Leiosphaeridia Leiosphaeridia** Srivastava & Kumar 1997: 146; fig. 4 *e*; NEOPROTEROZOIC (Deoban Formation), Deoban hill, Chakrata area, Dehradun district, Uttar Pradesh.

Acritarch sp. Viswanathiah & Venkatachalpathy 1980: 19; pl. 1, fig. 8; EARLY PROTEROZOIC (Dharwar Supergroup, Bababudan Iron Formation), Shimoga Schist Belt, Dharwar, Karnataka.

Acritarchous hystrichosphere sp. A Srinivasa & Gowda 1978: 152; pl. 6, fig. 1; PROTEROZOIC (Bhima Group), Chitapur and Honhalli areas, Gulbarga district, Mysore, Karnataka.

Acritarchous hystrichosphere sp. B Srinivasa & Gowda 1978: 152; pl. 6, figs. 3-4; PROTEROZOIC (Bhima Group), Chitapur and Honhalli areas, Gulbarga district, Mysore, Karnataka

ANGULOPLANINA Rudvaskaja

Anguloplanina elliptica Sah, Maithy & Bhargava 1977: 142; pl. 1, fig. 8; PRECAMBRIAN (Jutogh Formation), Mundlu section, Simla, Himachal Pradesh; Singh, Rawat & Gupta 1978: 102; pl. 1, fig. 19; PRECAMBRIAN (Shali Formation), Gumma and Drang section, Mandi area, Mandi district, Himachal Pradesh.

Anguloplanina ovata Sah, Maithy & Bhargava 1977: 143; pl. 1, fig. 9; PRECAMBRIAN (Jutogh Formation), Mundlu section, Simla, Himachal Pradesh.

ARCHAEODISCINA Naumova

Archaeodiscina Srinivasa & Gowda 1978: 152; pl. 1, fig. 1; PROTEROZOIC (Bhima Group), Gulbarga district, Mysore, Karnataka.

ARCHAEOFAVOSINA Naumova

Archaeofavosina compta Salujha, Rehman & Arora 1972a: 11; pl. 1, fig. 1; LATE PRECAMBRIAN TO CAMBRIAN (Bhima Series), Gulbarga district, Karnataka; Viswanathiah, Venkatachalapathy & Doddiah 1979: 18; pl. 1, fig. 8; LATE PRECAMBRIAN (Bhima Supergroup), Sahabad district, Karnataka.

Archaeofavosina minuta Maithy, Venkatachala & Lele 1983: 191; pl. 1, fig. 17; pl. 2, fig. 19; LATE PRECAMBRIAN (Subsurface Vindhyan sediments), Ujhani Deep Well-1, Ujhani wells 1-3, Budaun district, Uttar Pradesh.

Archaeofavosina pellucida Salujha, Rehman & Arora 1972b: 127; pl. 1, figs. 17-18; LATE PRECAMBRIAN-CAMBRIAN (Kurnool Supergroup), Palnad area, Andhra Pradesh.

Archaeofavosina reticulata Maithy & Shukla 1977: 181; pl. 3, figs. 24-25; LATE PRECAMBRIAN; (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Archaeofavosina venusta Salujha, Rehman & Arora 1971: 27; pl. 3, figs. 2-3; MIDDLE PROTEROZIC (Vindhyan Supergroup), Son valley, Sidhi district, Madhya Pradesh.

Archaeofavosina sp. Mathur 1983: 135; pl. 1, fig. 1; LATE PRECAMBRIAN (Subsurface Pre-unconformity sediments), Puranpur well 2, Ganga Basin, Uttar Pradesh.

ARCHAEOHYSTRICHOSPHAERIDIUM Timofeev

Archaeohystrichosphaeridium accrosum Timofeev. Viswanathiah, Venkatachalapathy & Doddiah 1979: 19; pl. 1, fig. 5; LATE PRECAMBRIAN (Bhima Supergroup), Mudhol near Sedam, Karnataka.

Archaeohystrichosphaeridium cellulare Timofeev. Shukla, Babu, Mathur & Srivastava 2005b: 202; pl. 1, fig. 14; TERMINAL PROTEROZOIC (Krol Group, Infra Krol Formation), Nainital, Lesser Himalaya, Uttaranchal; Shukla, Tewari, Babu & Sharma 2006: 66; pl. 2, figs. 12, 14; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Archaeohystrichosphaeridium kaladgiense Venkatachala & Rawat 1973: 32; pl. 1, fig. 16; UPPER PRECAMBRIAN-LOWER CAMBRIAN (Kaladgi Supergroup), Bagalkot-Badami-Ramdurg road section on Cliff in Pattadakal Kendur Road, near Bhadranaikanjalihalla, Belgaum district, Karnataka.

Archaeohystrichosphaeridium pentagonum Timofeev. Viswanathiah, Venkatachalapathy & Shankara 1984: 77; pl. 2, fig. 6; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Archaeohystrichosphaeridium quadricorne Timofeev. Maithy & Babu 1998: 3; pl. 1, fig. 6; EARLY NEOPROTEROZOIC (Kaimur Group, Bijaigarh Formation), Markundi hill, Chopan, area, Uttar Pradesh.

Archaeohystrichosphaeridium semireticulatum Timofeev. Shukla, Babu, Mathur & Srivastava 2005b: 202; pl. 1, fig. 16; TERMINAL PROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal; Shukla, Tewari, Babu & Sharma 2006: 66; pl. 2, figs. 8, 13; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Archaeohystrichosphaeridium sp. Salujha, Rehman & Rawat 1971: 78; pl. 1, fig. 31; LATE CAMBRIAN TO ORDOVICIAN (Bhander Group, Sirbu Shale Formation), Chambal valley area, Rajasthan.

Achaeohystrichosphaeridium sp. Viswanathiah, Venkatachalapathy & Doddiah 1979: 20; pl. 1, fig. 3; LATE PRECAMBRIAN (Bhima Supergroup), Jammaldinni, near Talikote, Karnataka.

Archaeohystrichosphaeridium sp. Mathur 1983: 135; pl. 1, fig. 10; LATE PRECAMBRIAN (Subsurface Pre-unconformity sediments), Puranpur well 2, Ganga Basin, Uttar Pradesh.

ARCHAEOPERTUSINA Naumova

Archaeopertusina sp. Srinivasa & Gowda 1978: 152; pl. 2, fig. 11; PROTEROZOIC (Bhima Group), Chitapur and Honhalli areas, Gulbarga district, Karnataka.

ARCHAEOZONOTRILETES Naumova

Archaeozonotriletes sp. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1976: 553; fig. 3; PRECAMBRIAN-CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), geographical locality not mentioned, Karnataka.

ASPERATOPSOPHOSPHAERA Shepeleva

Asperatopsophosphaera sp. Srinivasa & Gowda 1978: 151-153; pl. 2, figs. 3, 12; PROTEROZOIC (Bhima Group), Gulbarga district, Karnataka.

Asperatosophosphaera sp. Dhaundiyal & Moitra 1987: 73; pl. 1, fig. 4; MIDDLE RIPHEAN TO EARLY VENDIAN (Baliana Group, Blaini Formation), near Laxmanjhula along Rishikesh-Deoprayag road section, Dehradun district, Uttar Pradesh.

ASTEROCAPSOIDES Yin & Li

Asterocapsoides sinensis Yin & Li. Tiwari & Pant 2004a: 10; figs. 5 C-F; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan and Nainital areas in Himachal Pradesh and Uttaranchal.

Asterocapsoides sp. Tiwari & Pant 2004a: 10; fig. 5-A, B; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan and Nainital areas in Himachal Pradesh and Uttaranchal.

Asterocapsoides sp. Tiwari & Knoll 1994: 198; pl. 1, figs. 2, 2a; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan and Nainital areas in Himachal Pradesh and Uttaranchal.

Asterocapsoides sp. Tiwari 1996a: 561; pl. 2, fig. 17; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttaranchal.

BALTISPHAERIDIUM Eisenack

Baltisphaeridium brevispinosum Eisenack. Viswanathiah, Venkatachalapathy & Shankara 1984: 77; pl. 2 fig. 14; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Baltisphaeridium brevituberculatum Kjellström. Viswanathiah, Venkatachalapathy & Khadeer 1976b: 341; pl. 1 fig. 3; PRECAMBRIAN (Badami Group, Ramdurg Formation), Karnataka.

Baltisphaeridium cerinum Volkova. Shukla, Tewari, Babu & Sharma 2006: 66; pl. 2, fig. 18; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Baltisphaeridium echinuatum Kellström. Maithy & Meena 1989: 184; pl. 1, figs. 23-24; LATE PRECAMRIAN (Bhander Group, Sirbu Shale Formation), Satna-Maihar area, Satna district, Madhya Pradesh.

Baltisphaeridium gangolihatense Nautiyal. Nautiyal 1978a: 265; figs. 31-33; PRECAMBRIAN (Gangolihat Dolomite Formation), Pithoragarh district, Uttar Pradesh.

Baltisphaeridium lucidum Deflandre. Viswanathiah, Venkatachalapathy & Khadeer 1976a: 391; pl. 2, figs. 23-25; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka.

Baltisphaeridium multipilosum Eisenack. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1976: 403; pl. 1, fig. 9; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka.

Baltisphaeridium nanninum Eisenack. Viswanathiah, Venkatachalapathy & Khadeer 1976b: 342; pl. 1, fig. 14; PRECAMBRIAN (Badami Group, Ramdurg Formation), Karnataka.

Baltisphaeridium perrarum Jankauskas. Shukla, Babu, Mathur & Srivastava 2005b: 199; pl. 1, fig. 25; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2. 25; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh.

Baltisphaeridium scitulum Salujha, Rehman & Arora 1971: 30; pl. 2, figs. 26-27; MIDDLE PROTEROZOIC (Kaimur Group, Bijaigarh Shale Formation), Son valley, Mirzapur district, Uttar Pradesh.

Baltisphaeridium sp. Viswanathiah, Venkatachalapathy & Doddiah 1976: 387; pl. 1, fig. 10; LATE PRECAMBRIAN-EARLY CAMBRIAN (Bhima Group), Gulbarga district, Karnataka.

Baltisphaeridium sp. Nautiyal 1983b: 183; pl. 1, figs. 52,59; fig. 2X; UPPER TO MIDDLE ALGONKIAN (Semri Group, Arangi Formation), Vindhyan Supergroup locality not mentioned.

Baltisphaeridium sp. Viswanathiah, Venkatachalapathy & Narayana Shetty 1984: 63; pl. 3, fig. 7; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka.

Baltisphaeridium sp. Viswanathiah, Venkatachalapathy & Shankara 1984: 77; pl. 2, fig. 9; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Baltisphaeridium sp. Nautiyal 1986a: 8; pl. 2, figs. 24-26; figs. 3z-z', PROTEROZOIC (Semri Group, Tirohan Limestone Formation), Sangrampur hill, Chitrakoot, Banda district, Uttar Pradesh.

BION Eisenack

Bion crucifermorirum Eisenack. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 470; pl. 1, fig. 10; PROTEROZOIC (Kaladgi Supergroup, Gokak Quartzarenite), Belgaum district, Karnataka; Viswanathiah, Venkatachalapathy & Raghunath 1984: 54; pl. 1, fig. 1; LOWER RIPHEAN (Kaladgi Supergroup, Salagundi Conglomerate), Bijapur district, Karnataka; Viswanathiah, Venkatachalapathy & Shankara1984: 80; pl. 1, fig. 8; pl. 2, fig. 12; ORDOVICIAN-SILURIAN (Katageri Formation), Bijapur district, Karnataka.

CAUDOSPHAERA German & Timofeev

Caudosphaera sp. Srivastava & Kumar 2003: 42; pl. 5, fig. 5; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal.

COSTATOSPHAERINA Lopukhin

Costatosphaerina angustata Lopukhin. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 201; pl. 2, fig. 9; pl. 3, fig. 3; PRECAMBRIAN TO CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Costatosphaerina sp. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1976: 403; pl. 2, fig. 10; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka.

CYMATIOGALEA Deunff

Cymatiogalea philipotii Henry.Viswanathiah, Venkatachalapathy & Nanjudaswamy 1976: 404; pl. 2, fig. 13; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka;

Cymatiogalea sp. 2 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 2, fig. 4; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

CYMATIOSPHAERA (Wetzel) Deflandre

Cymatiosphaera compta Salujha, Rehman & Rawat 1971: 74; pl. 1, figs. 17-19; LATE PRECAMBRIAN TO ORDOVICIAN (Bhander Group, Bhander Sandstone Formation), Mandral-Karauali areas, Rajasthan.

Cymatiosphaera sp. A Salujha, Rehman & Rawat 1971: 75; pl. 1, fig. 20; LATE PRECAMBRIAN TO ORDOVICIAN (Bhander Group, Bhander Sandstone Formation), Mandral-Karauali areas, Rajasthan.

Cymatiosphaera sp. B Viswanathiah, Venkatachalapathy & Khadeer 1976a: 395; pl. 1, fig. 8.12; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka.

Cymatiosphaera sp. Maithy & Babu 1997: 4; pl. 1; fig. 14; VENDIAN (Bhander Group, Lakheri Limestone Formation), Maihar area, Satna district, Madhya Pradesh.

Cymatiosphaera sp. Tiwari 1999: 107; figs. 3 H & I; PRECAMBRIAN-CAMBRIAN BOUNDARY (Tal Group, Tal Formation), Chert Phosphorite Member in Solan, Himachal Pradesh and Nanital, Uttranachal.

Cymatiosphaera sp. Prasad, Uniyal & Asher 2005: 46; pl. 10. fig. 17; pl. 11 fig. 18; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

CYMATIOSPHAEROIDES Knoll

Cymatiosphaeroides kullingii Knoll. Maithy & Babu 1993: 45; pl. 1, fig. 6; LATE RIPHAEAN TO VENDIAN (Bhander Group, Ganurgarh Shale Formation), near Midghat Railway station, Bhopal district, Madhya Pardesh; Anabarasu 2001: 182; figs. 2 a-f; MESOPROTEROZOIC, (Semri Group, Chitrakoot Formation), Uttar Pradesh; Srivastava & Kumar 2003: 26; pl. 7 fig. 6; pl. 9, fig. 6; MESO-NEOPROTEROZOIC; (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttranachal.

Cymatiosphaeroides yinii Xunlai & Hofmann. Tiwari & Pant 2004a: 10; fig. 4J; NEOPROTEROZOIC, (Krol Group, Infra Krol Formation), Solan and Nainital areas in Himachal Pradesh and Uttaranchal.

DACTYLOFUSA Staplin et al.

Dactylofusa striata Brito & Sautas. Viswanathiah, Venkatachalapathy & Shankara 1984: 77; pl. 1, fig. 6; ORDOVICIAN-SILURIAN (Badami Supergroup, Katageri Formation), Bijapur district, Karnataka.

DASYDIACRODIUM (Timofeev) Deflandre & Deflandre-Rigaud

Dasydiacrodium glabrum Combaz. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 465; pl. 1, figs. 7, 13 & 26; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

DEUNFFIA Downie

Deunffia monospinosa Downie. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 467; pl. 1, fig. 19; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

DICTYOSPHAERA Xing & Liu

Dictyosphaera sp. Prasad, Uniyal & Asher 2005: 21; pl. 2, fig. 16; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

DICTYOTIDIUM (Eisenack) Staplin

Dictyotidium areolatum Salujha, Rehman & Rawat 1971: 75; pl. 1, figs. 21, 22; LATE CAMBRIAN TO ORDOVICIAN (Bhander Group, Bhander Sandstone Formation), Mandral-Karauli area, Rajasthan.

Dictyotidium superbum Salujha, Rehman & Arora 1971: 29; pl. 3, figs. 24-25; MIDDLE PROTEROZOIC (Vindhyan Supergroup), Son valley, Mirzapur district, Uttar Pradesh.

Dictyotidium sp. Salujha, Rehman & Arora 1972b: 128; pl. 1, fig. 1; LATE PRECAMBRIAN-CAMBRIAN (Kurnool Supergroup), Palnad area, Andhra Pradesh.

Dictyotidium sp. Srinivasa & Gowda 1978: 152; pl. 6, fig. 2; PROTEROZOIC (Bhima Group), Chitapur and Honhalli areas, Gulbarga district, Mysore, Karnataka.

Dictyotidium sp. Prasad, Uniyal & Asher 2005: 46; pl. 11, figs. 4-7; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

ECHINOSPHAERIDIUM Knoll

Echinosphaeridium maximum Knoll. Tiwari & Knoll 1994: 198; pl. 1, fig. 3; LATE PROTEROZOIC (Krol Group, Infra Krol Formation), Nainital, Nainital district, Uttaranchal; Tiwari 1996a: 561; pl. 2, figs. 18, 21; VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttaranchal; Tiwari & Pant 2004a: 10; figs. 7A, F; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan and Nainital in Himachal Pradesh and Uttaranchal.

ERICIASPHAERA Vidal

Ericiasphaera spjeldnaesii Vidal. Tiwari & Knoll 1994: 198; pl. 1, figs. 1, 5; LATE PROTEROZOIC (Krol Group, Infra Krol Formation), Nainital, Nainital district, Uttaranchal; Tiwari 1996a: 561; pl. 2, figs. 16, 19; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttaranchal; Tiwari & Pant 2004a: 7; fig. 6-A, G; NEOPROTEROZOIC, (Krol Group, Infra Krol Formation), Solan and Nainital areas in Himachal Pradesh and Uttaranchal.

ELASTIASTRA Eisenack

Elastiastra minima Volkova. Tiwari 1999: 107; fig. 3 j; PRECAMBRIAN-CAMBRIAN-BOUNDARY (Tal Group, Tal Formation), Chert Phosphorite Member, Mussoorie area, Dehradun district, Uttar Pradesh.

ELLIPSALETES Carmer

Ellipsaletes punctatus Sah, Maithy & Bhargava 1977: 141; pl. 1, fig. 5; PRECAMBRIAN (Jutogh Formation), Mundlu section, Simla, Himachal Pradesh.

Ellipsaletes reticulates Sah, Maithy & Bhargava 1977: 142; pl. 1, fig. 5; PRECAMBRIAN (Jutogh Formation), Mundlu section, Simla, Himachal Pradesh.

EOMICRHYSTRIDIUM Deflandre

Eomicrhystridium sp. Nautiyal 1990:185; pl. 2, figs. 13, 14; MIDDLE PROTEROZOIC (Tejam Group, Gangolihat Dolomite Formation), Pithoragarh in Kumaon and Satpuli in Garhwal, Uttar Pradesh.

FAVOSPHAERIDIUM Timofeev

Favosphaeridium favosum Timofeev. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 469; pl. 1, fig. 22; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka; Venkatachalapathy & Shekhar 1986: 192; pl. 1, fig. 7; PRE RIPHEAN-RIPHEAN (Papagini Group,

Vempalle Formation), Andhra Pradesh; Srivastava & Kumar, 2003: 40; pl. 4, figs. 8, 11; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal; Prasad, Uniyal & Asher 2005: 38; pl. 10, fig. 18; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Favosphaeridium sp. Maithy & Babu 1997: 4; pl. 1; fig. 11; VENDIAN (Bhander Group, Sirbu Shale Formation), Rewa and Maihar area, Satna district, Madhya Pradesh.

FIBULARIX Pflug

Fibularix funicula Pflug. Singh, Rawat & Gupta 1978: 98; pl. 1, fig. 1; PRECAMBRIAN (Shali Formation), Gumma and Drang section, Mandi area, Mandi district, Himachal Pradesh.

Fibularix spinosa Singh, Rawat & Gupta 1978: 98; pl. 1, fig. 4; PRECAMBRIAN (Shali Formation), Gumma and Drang section, Mandi area, Mandi district, Himachal Pradesh.

GANGASPAHERA Prasad & Asher

Gangasphaera bulbosus Prasad & Asher 2001: 40; pl. 11, figs. 1-5, Text fig. 1 (A-C), MESOPROTEROZOIC (Bahraich Group), Ganga Basin; Prasad, Uniyal & Asher 2005; pl. 6, fig. 4; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

GERMINOSPHAERA Mikhailova

Germinosphaera bispinosa Mikhailova. Prasad, Uniyal & Asher, 2005: 44; pl. 11, fig. 3; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Germinosphaera unispinosa Mikhailova. Shukla, Babu, Mathur & Srivastava 2005b: 200; pl. 1, fig. 24; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital distirct, Uttaranchal; Prasad, Uniyal & Asher 2005: 44; pl. 10, fig. 3; pl. 11, figs. 1, 2; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Germinosphaera sp. Srivastava & Kumar 2003: 34; pl. 6 fig. 1; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal.

GERON (Cramer) Cramer & Diez

? **Geron sp.** Suresh & Gowda 1981: 130; pl 1, fig. 4; LATE PROTEROZOIC (Bhima Supergroup), Ganurthi, Gulbarga district, Karnataka.

GORGONISPHAERIDIUM Staplin *et* al.

Gorgonisphaeridium maximum (Yin) Knoll *et* al., Shukla, Babu, Mathur & Srivastava 2005b: 199; pl. 1, fig. 2; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal.

Gorgonisphaeridium pindyium Zang. Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2. 5; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh; Shukla, Tewari, Babu & Sharma 2006: 67; pl. 2, fig. 22; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

GRANOMARGINATA Naumova

Granomarginata clara Venkatachala, Bhandari, Chaube & Rawat 1974: 31; pl. 1, fig. 14; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist Belt), Dharwar district, Karnataka.

Granomarginata delicata Naumova. Venkatachalapathy & Ravindra 1984: 43; pl. 1, fig. I; PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka.

Granomarginata dhalii Nautiyal 1982: 275; figs. 4-5; PRECAMBRIAN (Simla Group), Bhaili ridge, Northwest Simla, Himachal Pradesh.

Granomarginata exquisita Salujha, Rehman & Arora 1972a: 12; pl. 1, figs. 10-11; LATE PRECAMBRIAN-TO CAMBRIAN (Bhima Series), Gulbarga district, Karnataka; Viswanathiah, Venkatachalapathy & Doddiah 1976: 386; pl. 1, fig. 2; LATE PRECAMBRIAN-EARLY CAMBRIAN (Bhima Group), Gulbarga district, Karnataka; Viswanathiah, Venkatachalapathy & Nanjundaswamy 1976: 402; pl. 1, fig. 2; ORDOVICIAN (Badami Group, Gokak Quartzarinite), Karnataka; Viswanathiah, Venkatachalapathy & Shekhar 1984: 88; pl. 2, fig. 12; PRECAMBRIAN (Cuddapah Supergroup,

Gandikota Quartzite), Chennareddipalli-Muddanur area, Andhra Pradesh.

Granomarginata granulosa Singh, Rawat & Gupta 1978: 100; pl. 1, figs. 10-11; PRECAMBRIAN (Shali Formation), Gumma and Drang section, Mandi area, Mandi district, Himachal Pradesh.

Granomarginata kaladgii Venkatachala & Rawat 1973: 30; pl. 1, fig. 3; UPPER PRECAMBRIAN-LOWER CAMBRIAN (Kaladgi Supergroup), Bagalkot-Badami-Ramdurg road section, Karnataka; Viswanathiah, Venkatachalapathy & Raghunath 1984: 52; pl. 2, fig. 3; LOWER RIPHEAN (Kaladgi Supergroup, Salagundi Conglomerate), Bijapur district, Karnataka.

Granomarginata minuta Maithy & Mandal 1983: 136; pl. 2, fig. 28; LATE PROTEROZOIC (Bhander Group, Sirbu Shale Formation), Karisal Bandh, Karauli-Sapotra region, northeast Rajasthan.

Granomarginata perforatum Naumova. Venkatachalapathy & Mahesh Bilwa 1986: 189; pl. 1, fig. 6; PRECAMBRIAN (Kaladgi Group, Mudhol Formation), Bagalkot town, Bijapur district, Karnataka.

Granomarginata prima Naumova. Maithy & Mandal 1983: 136; pl. 2, fig. 29; LATE PROTEROZOIC (Bhander Group, Bhander Sandstone Formation), Karauli-Sapotra region, northeast Rajasthan; Mandal, Maithy & Mehdi 1983: 195; pl. 1, figs. 1-2; PROTEROZOIC (Cuddapah Supergroup), Varikunta area, Andhra Pradesh; Kumar, Raina, Bhatt, Maithy, Prasad, Babu, Bhargava, & Srivastava 1990: 5; fig. 6c; PRECAMBRIAN-CAMBRIAN BOUNDRAY (Tal Group, Tal Formation), Chert Phosphorite Member, Masrana, Dehradun disrict, Uttar Pradesh; Maithy & Babu 1993: 45; pl. 1, fig. 14; LATE RIPHAEAN-TO VENDIAN; (Bhander Group, Ganurgarh Shale Formation), near Midghat Railway station, Bhopal district, Madhya Pardesh. Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.10; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh.

Granomarginata primitiva Salujha, Rehman & Arora 1971: 28; pl. 3, figs. 18 & 20; MIDDLE PROTEROZOIC (Vindhyan Supergroup), Son valley, Mirzapur district, Uttar Pradesh; Salujha, Rehman & Arora 1972a: 12; pl. 1, fig. 12; LATE PRECAMBRIAN-CAMBRIAN (Bhima Series), Gulbarga district, Karnataka; Nautiyal 1978b: 298; figs. 7-8; LATE PRECAMBRIAN (Amri Unit), northeastern Garhwal Himalaya, Uttar Pradesh; Viswanathiah, Venkatachalapathy & Naresh 1978: 482; pl. 1, fig. 23; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical location not mentioned, Karnataka; Viswanathiah, Venkatachalapathy & Doddiah 1979: 19; pl. 1, fig. 9; LATE PRECAMBRIAN (Bhima Supergroup), Jammaldinni near Muddebihal, Karnataka; Viswanathiah, Venkatachalapathy & Shekhar 1984: 88; pl. 1, fig. 4; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzite), Chennareddipalli-Muddanur area, Andhra Pradesh; Venkatachalapathy & Shekhar 1986: 194; pl. 1, fig. 9; PRE RIPHEAN-RIPHEAN (Papagini Group, Vempalle Formation), Andhra Pradesh; Shukla, Babu, Mathur & Srivastava 2005b: 199; pl. 1, fig. 8; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal.

Granomarginata regia Salujha, Rehman & Arora 1972b: 127; pl. 1, figs. 13-16; LATE PRECAMBRIAN-CAMBRIAN (Kurnool Supergroup), Palnad area, Andhra Pradesh; Nautiyal 1983b: 182; pl. 1, figs. 46, 49 & 51; text fig. 2T; UPPER TO MIDDLE ALGONKIAN (Semri Group, Patherwa & Rohtas Formations), Son Valley, Mirzapur district, Uttar Pradesh. Nautiyal 1986b: 109; pl. 2, fig. 9; PROTEROZOIC (Semri Group, Rohtas Formation), Son Valley, Mirzapur district, Uttar Pradesh.

Granomarginata regida Viswanathiah, Venkatachalpathy & Khadeer 1976b: 341; pl. 1, fig. 2; PRECAMBRIAN (Badami Group, Ramdurg Formation), Karnataka; Venkatachalapathy & Ravindra 1984: 42; pl. 1, fig. 2. PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka; Viswanathiah, Venkatachalapathy & Shankara 1984: 79; pl. 2, figs. 1 & 7; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka; Viswanathiah, Venkatachalapathy & Shekhar 1984: 88; pl. 1, figs. 7 & 11; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzites), Chennareddipalli-Muddanur area. Andhra Pradesh.

Granomarginata rotata Maithy & Shukla 1977: 181; pl. 3, fig. 23; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Maithy, Venkatachala & Lele 1983: 191; pl. 1, fig. 4; PRECAMBRIAN (Subsurface Vindhyan sediments), Ujhani Deep well-1 & Ujhani wells 1, 2 & 3, Budaun district, Uttar Pradesh; Maithy & Babu 2000: 19; pl. 1, figs. 2, 6, 9; EARLY NEOPROTEROZOIC (Semri Group, Bhagwar Shale Formation), Rohtasgarh district, Bihar.

Granomarginata simlaensis Nautiyal 1982: 275; figs. 2-3; PRECAMBRIAN (Simla Group), Bhaili ridge, northwest Simla, Himachal Pradesh; Nautiyal 1986a: 8; figs. 3 S, T; PROTEROZOIC (Semri Group, Glauconitic Sandstone Formation), Sangrampur hill, Chitrakoot area, Banda district, Uttar Pradesh.

Granomarginata vetula Salujha et al. Salujha, Rehman & Arora 1972b: 127; pl. 1, figs. 7-12; LATE PRECAMBRIAN-CAMBRIAN (Kurnool Supergroup), Palnad area, Andhra Pradesh; Viswanathiah, Venkatachalapathy & Khadeer 1976a: 392; pl. 1, figs. 1 & 7; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka; Viswanathiah, Venkatachalapathy & Doddiah 1979: 19; pl. 1, fig. 4; LATE PRECAMBRIAN (Bhima Supergroup), Mudhol near Sedam, Karnataka; Nautiyal 1983b: 182; pl. 1, figs. 4-7; text fig. 2U; UPPER TO MIDDLE ALGONKIAN (Semri Group, Arangi Formation), west of Kajrahat, Son Valley, Mirzapur district, Uttar Pradesh; Nautiyal 1990: 185; pl. 2, figs. 1-2; MIDDLE PROTEROZOIC (Tejam Group, Gangolihat Dolomite Formation), Pithoragarh in Kumaon and Satpuli in Garhwal, Uttar Pradesh; Shukla, Tewari, Babu & Sharma 2006: 64; pl. 2, figs. 9,11; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Granomarginata sp. A Venkatachala & Rawat 1973: 30; pl. 1, fig. 24; UPPER PRECAMBRIAN-LOWER CAMBRIAN (Kaladgi Supergroup), Gokak-Yaragatti, Belgaum district, Karnataka.

Granomarginata sp. B Venkatachala & Rawat 1973: 31; pl. 1, figs. 1-2; UPPER PRECAMBRIAN-LOWER CAMBRIAN (Kaladgi Supergroup), Gokak-Yaragatti, Karnataka.

Granomarginata sp. Salujha, Rehman & Arora 1972a: 12; pl. 1, fig. 13; LATE PRECAMBRIAN TO CAMBRIAN (Bhima Series), Gulbarga, Karnataka.

Granomarginata sp. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 201; pl. 2, fig. 8; PRECAMBRIAN-CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Geographical location not mentioned, Karnataka.

Granomarginata sp. Viswanathiah, Venkatachalapathy & Nanjudaswamy 1976: 402; pl. 1, fig. 13; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka.

Granomarginata sp. Srinivasa & Gowda 1978: 151-153; pl. 1, fig. 7; PROTEROZOIC (Bhima Group), Gulbarga district, Karnataka.

Granomarginata sp. Singh, Rawat & Gupta 1978: 102; pl. 1, figs. 24, 27; PRECAMBRIAN (Shali Formation), Gumma and Drang section, Mandi area, Mandi district, Himachal Pradesh.

Granomarginata sp. Viswanathiah, Venkatachalapathy & Doddiah 1979: 19; pl. 1, fig. 3; LATE PRECAMBRIAN (Bhima Supergroup), Jamaldinni near Muddebihal, Karnataka.

Granomarginata sp. Venkatachalapathy & Ravindra 1984: 43; pl. 1, fig. 3. PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka; Maithy & Babu 1997: 4; pl. 1, fig. 10; VENDIAN (Bhander Group, Lakheri Limestone Formation), Rewa-Maihar area, Satna district, Madhya Pradesh.

Granomarginata sp. Naumova. Maithy, Babu, Raina & Kumar 1988: 640; fig. 1. 2-7; LATE PROTEROZOIC (Machhal and Lolab Formations), Putshai-Wanner Section, Lolab valley, Kupwara district, Kashmir Himalaya.

Granomarginata sp. Naumova. Kumar, Raina, Bhatt, Maithy, Prasad, Babu, Bhargava & Srivastava 1990: 5; fig. 6c; EARLY TOMMOTIAN (Krol Group, Krol Formation) Upper Member, Durmala, Dehradun disrict, Uttar Pradesh.

Granomarginata sp. 3 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 2, fig. 11; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Granomarginata sp. 7 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 2, fig. 4; PROTEROZOIC (Semri Group, Kheinjua and

Rohtas Formations), Jabera well-1, Madhya Pradesh.

Granomarginata sp. Maithy & Babu 1997: 4; pl. 1; fig. 10; VENDIAN (Bhander Group, Sirbu Shale Formation), Rewa-Maihar area, Madhya Pradesh.

HELOSPHAERIDIUM Lister

Helosphaeridium latispinosum Lister. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 465; pl. 1, figs. 11-12; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

HYSTRICHOSPHAERIDIUM Deflandre

Hystrichosphaeridium trifurcatum Eisenack. Suresh & Gowda 1981: 131; pl. 2, fig. 3; LATE PROTEROZOIC (Bhima Supergroup), Ganurthi, Gulbarga district, Karnataka.

KAKABEKIA Barghoorn

Kakabekia umbellata Barghoorn. Viswanathiah, Venkatachalapathy & Naresh 1978: 477; pl. 1, figs. 1-2; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical locality not mentioned, Karnataka.

Kakabekia cf. Maithy & Shukla 1977: 183; pl. 5, fig. 34; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

KILDINELLA Schepeleva & Timofeev

Kildinella hyperboreica Timofeev. Nautiyal 1983b: 183; pl. l, text fig. 57, fig. 2V; UPPER TO MIDDLE ALGONKIAN (Semri Group, Arangi Formation), west of Kajrahat, Son valley, Mirzapur district, Uttar Pradesh; Viswanathiah, Venkatachalapathy & Shekhar 1984: 89; pl. 1, fig. 5; PRECAMBRIAN (Cuddapah Supergroup), Chennaredipalli-Muddanur area, Andhra Pradesh; Viswanathiah, Venkatachalapathy & Shankara 1984: 79; pl. 1, fig. 13; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka; Venkatachalapathy & Mahesh Bilwa 1986: 186; pl. 1, fig. 9; PRECAMBRIAN (Kaladgi Group, Mudhol Formation), Bagalkot town, Bijapur district, Karnataka; Venkatachalapathy & Shekhar 1986: 194; pl. 1, fig. 13; PRE RIPHEAN-RIPHEAN (Papagini Group, Vempalle Formation), Andhra Pradesh.

Kildinella jakuctica Timofeev. Venkatachalapathy & Mahesh Bilwa 1986: 189; pl. 1, fig. 10; PRECAMBRIAN (Kaladgi Group, Mudhol Formation), Bagalkot town, Bijapur district, Karnataka.

Kildinella minuta Maithy & Shukla 1977: 182; pl. 13, fig. 22; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 22; fig. 12; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka; Nautiyal 1986a: 8; pl. 2, figs. 11-15, text figs. 3 W-Y; PROTEROZOIC (Semri Group, Tirohan Limestone Formation), Sangrampur hill, Chitrakoot, Banda district, Uttar Pradesh; Kumar, Raina, Bhatt, Maithy, Prasad, Babu, Bhargava & Srivastava 1990: 5; fig. 6d; EARLY TOMMOTIAN (Tal Group, Tal formation), Chert Phosphorite Member, Masrana, Dehradun district, Uttar Pradesh.

Kildinella sinica Timofeev. Venkatachalapathy & Ravindra 1984: 42; pl. 1, fig. 6; pl. 2, fig. 9; PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka; Viswanathiah, Venkatachalapathy & Narayana Shetty 1984: 62; pl. 1, fig. 1; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka; Viswanathiah, Venkatachalapathy & Shankara 1984: 79; pl. 1, fig. 1; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka; Viswanathiah, Venkatachalapathy & Shekhar 1984: 89; pl. 1, fig. 10; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzite), Chennareddipalli-Muddanur area, Andhra Pradesh; Venkatachalapathy & Basavaraju 1986: 182; pl. 1, figs. 4 & 8; LATE PRECAMBRIAN (Vobalpur Group), Dodguni area, Karnataka; Venkatachalapathy & Shekhar 1986: 194; pl. 1, fig. 4; PRE RIPHEAN-RIPHEAN (Papagini Group, Vempalle Formation), Andhra Pradesh.

Kildinella suketensis Maithy & Shukla 1977: 182; pl. 3, fig. 21; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Maithy, Venkatachala & Lele 1983: 191; pl. 2, fig. 26; LATE PRECAMBRIAN (Subsurface Vindhyan sediments), Ujhani Deep wells-1-3, Budaun district, Uttar Pradesh; Maithy & Babu 1996: 4; pl.

1,figs. 16, 17, 21; LATE PROTEROZOIC (Bhima Group, Halkal Formation), Karnataka.

Kildinella teshapomica Timofeev. Viswanathiah, Venkatachalapathy & Khadeer 1976a: 391; pl. 2, figs. 22, 29, 32; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka.

Kildinella sp. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1976: 401; pl. 1, fig. 4; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka.

Kildinella sp. Maithy & Mandal 1983: 136; pl. 2, fig. 26; LATE PROTEROZOIC (Rewa Group, Panna shale Formation), Karauli-Sapotra region, northeast Rajasthan.

Kildinella sp. Nautiyal 1983b: 183; pl. 1, fig. 58, text fig. 2W; UPPER TO MIDDLE ALGONKIAN (Semri Group, Kheinjua Formation), Mirzapur district, Uttar Pradesh.

Kildinella sp. Venkatachalapathy & Ravindra 1984: 42; pl. 1, fig. 5; PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka.

Kildinella sp. Shukla, Tewari & Yadav 1986: 350; pl. 2, fig. 5; LATE PRECAMBRIAN (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

Kildinella sp. Dhaundiyal & Moitra 1987: 73; pl.2, fig. 8; MIDDLE RIPHEAN TO EARLY VENDIAN (Baliana Group, Blaini Formation), near Laxmanjhula along Rishikesh-Deoprayag road section, Dehradun district, Uttar Pradesh.

Kildinella sp. Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 1, fig. 15; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

KILDINOSPHAERA Vidal

Kildinosphaera chagrinata Vidal. Prasad & Asher 2001: 96; pl. 1, fig. 8; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 20-21; pl. 1, fig. 5; pl. 3, fig. 16; pl. 9, fig. 12; pl. 10, fig. 13; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Kildinosphaera granulata Vidal. Prasad & Asher 2001: 96; pl. 1, figs. 3-4; MESOPROTEROZOIC (Bahraich Group), Ganga Basin; Prasad, Uniyal & Asher 2005: 21; pl. 2, figs. 14,15; pl. 4, fig. 14; pl. 7, fig. 18; pl. 8, fig. 10; pl. 9, fig. 17; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Kildinosphaera verrucata Vidal. Prasad & Asher 2001: 96; pl. 1, figs. 1-2, MESOPROTEROZOIC (Bahraich Group), Ganga Basin; Prasad, Uniyal & Asher 2005: 24; pl. 7, fig. 19, pl. 8, fig. 12; pl. 11, fig. 15; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Kildinosphaera sp. Maithy & Meena 1989; 184; pl. 1, figs. 23, 27; NEOPROTEROZOIC (Bhander Group, Nagod Limestone and Sirbu Shale Formations), Satna-Maihar area, Satna district, Madhya Pradesh.

Kildinosphaera sp. Vidal & Ford. Maithy, Babu, Raina & Kumar 1988: 641; figs. 1. 9; LATE PROTEROZOIC (Machhal and Lolab Formations), Putshai-Wanner Section, Lolab valley, Kupwara district, Kashmir Himalaya.

Kildinosphaera sp. Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 2, fig. 5, 14; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Kildinosphaera sp. Venkatachala & Kumar 1996: 554; pl. 1, figs. 18-20; LATE RIPHEAN TO EARLY VENDIAN (Jammu Limestone), Riasi-Katra area, Jammu, Jammu and Kashmir.

LACUNALITES Hermer & Nygreen

Lacunalites sp. Shrivastava 1972: 9; pl. 1, figs. 6 & 9; pl. 11, fig. 18; SILURIAN-DEVONIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

LATOPORATA Naumova & Umnova

Latoporata improcera Umnova. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 469; pl. 1, fig. 8; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

Latoporata prodigiosa Umnova. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 446; pl. 1, fig. 4; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

LEIOFUSA Eisenack

Leiofusa actinomorpha Maithy. Nautiyal 1983b: 183; pl. 1, fig. 55; figs. 2 (Y, Z), UPPER TO MID-

DLE ALGONKIAN (Semri Group, Arangi Formation), Mirzapur district, Uttar Pradesh; Nautiyal 1986a: 9; pl. 2, figs. 7-8, text figs. 3 U-V; LATE PROTEROZOIC (Semri Group, Tirohan Limestone Formation), Sangrampur hill, Chitrakoot, Banda district, Uttar Pradesh.

Leiofusa minuta Nautiyal 1988b: 188; pl. 3, fig. 9, text fig. M; MIDDLE ALGONKIAN (Iron Ore Supergroup), Fagua and Dalki quarries, Keonjhar district, Orissa.

Leiofusa rugosa Umnova. Viswanathiah, Venkatachalapathy & Narayana Shetty 1984: 65; pl. 3, figs. 4 & 5; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka.

Leiofusa squama Deunff. Viswanathiah, Venkatachalapathy & Khadeer 1976a: 394; pl. 1, figs. 4 & 11; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka.

Leiofusa tenuis Eisenack. Viswanathiah, Venkatachala & Nanjundaswamy, 1978: 468; pl. 1, fig. 27; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

Leiofusa sp. Viswanathiah, Venkatachalapathy & Naresh 1978: 482; pl. 1, figs. 18-19; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical locality not mentioned, Karnataka.

Leiofusa sp. Srinivasa & Gowda 1978: 152; pl. 4, figs. 5, 6; PROTEROZOIC (Bhima Group), Chitapur and Honhalli areas, Gulbarga district, Mysore, Karnataka.

Leiofusa sp. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1976: 405; pl. 1, fig. 10; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka.

Leiofusa sp. Viswanathiah, Venkatachalapathy & Shekhar 1984: 90; pl. 2, fig. 3; PRECAMRBAIN (Cuddapah Supergroup, Gandikota Quartzite), Chennareddipalli-Muddanur area, Andhra Pradesh.

Leiofusa sp. Dhaundiyal & Moitra 1987: 73; pl. 2, fig. 4; MIDDLE RIPHEAN TO EARLY VENDIAN (Baliana Group, Blaini Formation), near Laxmanjhula along Rishikesh-Deoprayag road section, Dehradun district, Uttar Pradesh.

LEIOLIGOTRILETUM Timofeev

This is an orthographic variant of the invalid generic name Leioligotriletes

Leioligotriletum crassus Timofeev. Salujha, Rehman & Rawat 1971: 78, pl. 1, figs. 32, 33; LATE CAMBRIAN TO ORDOVICIAN (Bhander Group, Bhander Sandstone Formation), Mandral-Karauli area, Rajasthan; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1976: 553; fig. 1; PRECAMBRIAN-CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka, geographical locality not mentioned.

?Leioligotriletum crassum Naumova. Timofeev, Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 24; figs. 29, 34; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi Supergroup Karnataka.

Leioligotriletum sp. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1976: 553; fig. 2; PRECAMBRIAN-CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka, geographical locality not mentioned.

LEIOMARGINATA Naumova

Leiomarginata sp. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 201; pl. 2, fig. 7; PRECAMBRIAN-CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), detailed geographical location not mentioned, Karnataka.

Leiomarginata sp. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 23; fig. 22; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), detailed geographical location not mentioned, Karnataka.

Leiominuscula sp. = Leiomarginata sp. Srinivasa & Gowda 1978: 152; pl. 1, figs. 13, 15; pl. 2, fig. 6; PROTEROZOIC (Bhima Group), Gulbarga district, Mysore, Karnataka.

Leiomarginata sp. Dhaundiyal & Moitra 1987: 73; pl. 1, fig. 2; MIDDLE RIPHEAN TO EARLY VENDIAN (Baliana Group, Blaini Formation), near Laxmanjhula along Rishikesh-Deoprayag road section, Dehradun district, Uttar Pradesh.

LEIOSPOSPHAERA Naumova

Leiosposphaera sp. Suresh & Gowda 1981: 131; p1. 2, fig. 5; LATE PROTEROZOIC (Bhima Group), Ganurthi, Gulbarga district, Karnataka.

LEIOSPHAERIDIA (Eisenack) Downie & Sarjeant

Leiosphaeridia aglutinata Venkatachala & Rawat 1972: 109; pl. 1, figs. 1, 3; LATE PRECAMBRIAN (Bhima Group), Talikote-Gulbarga section,

Karnataka; Venkatachala, Bhandari, Chaube & Rawat 1974: 30; pl. 1, figs. 3, 9, 10, 12, 16 & 23; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist belt), Karnataka; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 200; pl. 1, figs. 1-2; PRECAMBRIAN TO LOWER CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka, geographical location not mentioned; Viswanathiah, Venkatachalapathy & Doddiah 1976: 385; pl. 1, fig. 3; LATE PRECAMBRIAN-EARLY CAMBRIAN (Bhima Group), Bijapur district, Karnataka; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 22; fig. 15; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), geographical location not mentioned, Karnataka.

Leiosphaeridia asperata (Naumova) Lindgren. Prasad & Asher 2001: 118; pl. 13, figs. 16,18; MESOPROTEROZOIC (Bahraich Group), Ganga Basin; Prasad, Uniyal & Asher 2005: 20; pl. 1, fig. 4; pl. 2, fig. 11; pl. 5, fig. 8; pl. 6, fig. 2; pl. 8, fig. 9; pl. 9; fig. 2; pl. 10, fig. 15; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Leiosphaeridia bituminosa Timofeev. Viswanathiah, Venkatachalapathy & Raghunath 1984: 53; pl. 2, fig. 4; LOWER RIPHEAN (Kaladgi Supergroup, Salagundi conglomerate), Bijapur district, Karnataka.

Leiosphaeridia crassa Pykhova. Tiwari 1996a: 561; pl. 2, fig. 20; VENDIAN (Krol Group, Infra-Krol Formation), Solan, Himachal Pradesh and Nainital, Uttaranchal; Srivastava & Kumar 2003: 42; pl. 4, figs. 3, 6, 9; pl. 6, figs. 3, 8; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya; Shukla, Babu, Mathur & Srivastava 2005b: 199; pl. 1, fig. 9 TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital distirct, Uttaranchal; Prasad & Asher 2001: 114; pl. 10, figs. 6 & 12; MESOPROTEROZOIC (Bahraich Group), Ganga Basin; Prasad, Uniyal & Asher 2005: 20; pl. 1, figs. 1, 2; pl. 4, figs. 14; pl. 5, fig. 18; pl. 9, figs. 10,11; pl. 11, fig. 16; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Leiosphaeridia dakshini Venkatachala & Rawat 1972: 109; pl. 1, figs. 4-6, 10; LATE PRECAMBRIAN (Bhima Group), Talikote-Gulbarga section, Karnataka; Viswanathiah, Venkatachalapathy & Mahalakshamamma 1975: 200; pl. 1, figs. 3, 7; PRECAMBRIAN TO LOWER CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka, geographical location not mentioned; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 22; fig. 31; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka; Nautiyal 1986a: 6; pl. 2, fig. 20, fig. 3J; LATE PROTEROZOIC (Kaimur Group, Kaimur Sandstone Formation), Sangrampur hill, Chitrakoot, Banda district, Uttar Pradesh.

Leiosphaeridia densum Maithy. Nautiyal 1986a: 6; pl. 2., fig. 23, text figs. 3H, I; MIDPROTEROZOIC (Semri Group), Sangrampur hill, Chitrakoot, Banda district, Uttar Pradesh; Nautiyal 1983b: 182; pl. 1, figs. 38-40, 54; UPPER TO MIDDLE ALGONKIAN (Semri Group, Arangi Formation), Mirzapur district, Uttar Pradesh; Nautiyal 1986b: 108; pl. 2, figs. 1, 2; text figs. 2A. B; LATE PROTEROZOIC (Semri Group, Rohtas Formation), Mirzapur district, Uttar Pradesh; Nautiyal 1988a: 84-85; pl. 1, fig. 5; LATE ALGONKIAN (Semri Group, Kheinjua Formation), Pakri area, Son valley, Mirzapur district, Uttar Pradesh.

Leiosphaeridia dharwariana Venkatachala, Bhandari, Chaube & Rawat 1974: 30; pl. 1, figs. 7, 8, 11 & 15; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist belt), Dharwar district, Karnataka.

Leiosphaeridia effusa (Schepeleva) Rugozina & Sivertseva. Shukla, Babu, Mathur & Srivastava 2005b: 199; pl. 1, fig. 27; TERMINAL PROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal.

Leiosphaeridia eisenackii Timofeev. Suresh & Gowda 1981: 130; pl. 1, fig. 3; LATE PROTEROZOIC (Bhima Supergroup), Ganurthi, Gulbarga district, Karnataka.

Leiosphaeridia granulosa Pocock. Nautiyal 1986a: 7; pl. 2, figs. 27, 28, 30, 31; figs. 3 K-N; PROTEROZOIC (Semri Group, Basal Formation), Sangrampur hill, Chitrakoot Banda district, Uttar Pradesh.

Leiosphaeridia holtedahlii (Timofeev) Jankauskas. Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.5; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat

Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh.

Leiosphaeridia insigna Venkatachala & Rawat 1973: 29; pl. 1, figs. 12 & 13; UPPER PRECAMBRIAN TO LOWER CAMBRIAN (Kaladgi Supergroup), Gokak-Yaragatti-Bagalkot road Traverse, Belgaum district, Karnataka; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 200; pl. 1, fig. II; PRECAMBRIAN TO LOWER CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), geographical location not mentioned, Karnataka.

Leiosphaeridia jacutica Timofeev. Kumar, & Srivastava 1995: 106; fig. 11-K; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh; Prasad & Asher 2001: 96; pl. 1, figs. 6 & 7; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Srivastava & Kumar 2003: 42; pl. 5, fig. 3; pl. 8, fig. 2; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal; Prasad, Uniyal & Asher 2005: 21; pl. 3., figs. 13, 14; pl. 4, figs. 12; pl. 9, fig. 25; pl. 10, fig. 16; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Leiosphaeridia jansoniusii Salujha et al. Prasad, Uniyal & Asher 2005: 26; pl. 8, fig. 8 PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Leiosphaeridia kanshiensis Maithy. Maithy & Babu 1993: 44; pl. 1, fig. 1; LATE RIPHEAN TO VENDIAN (Bhander Group, Ganurgarh Shale Formation), near Midghat Railway station, Bhopal district, Madhya Pardesh.

Leiosphaeridia kulungica Jankauskas. Prasad, Uniyal & Asher 2005: 38; pl. 5, figs. 15, 19; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Leiosphaeridia laminariana (Timoveev), Jankauskas. Venkatachala & Kumar 1996: 553; pl. 1, fig. 6; LATE RIPHEAN-EARLY VENDIAN (Jammu Limestone), Riasi-Katra area, Jammu, Jammu and Kashmir.

Leiosphaeridia microgranulosa Nautiyal 1983a: 76; pl. 1, figs. 1-2 text fig. 1 A. B; LATE ALGONKIAN (Semri Group, Porcellanite stage), Mirzapur district, Uttar Pradesh; Nautiyal 1986a: 6; pl. 2, fig. 22, text figs. 3 O, P; PROTEROZOIC (Semri Group, Tirohan Limestone Formation), Sangrampur hill, Chitrakoot, Banda district, Uttar Pradesh; Nautiyal 1986b: 8; pl. 2, fig. 3; text figs. 30, O, S; PROTEROZOIC (Semri Group, Rohtas Formation), north of Pakri, Mirzapur, Uttar Pradesh**;** Nautiyal 1988a: 84-85; pl. 1, fig. 6; LATE ALGONKIAN (Semri Group, Kheinjua Formation), Pakri area, Son valley, Mirzapur district, Uttar Pradesh.

Leiosphaeridia microminuta Nautiyal 1985: 64; pl. 1, figs. 14-17, 24; text figs. 2 L-N; MIDDLE ALGONKIAN (Simla Group, Basantpur Formation), Simla, Himachal Pradesh.

Leiosphaeridia minutissima (Naumova) Jankauskas. Prasad & Asher 2001: 114; pl. 10, fig. 5; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Leiosphaeridia nalderaensis Nautiyal 1985: 65; pl. 1, figs. 18, 25, 26; text-fig. 2. R. MIDDLE ALGONKIAN (Simla Group, Basantpur Formation), Simla, Himachal Pradesh; Nautiyal 1986a: 6; pl. 2, fig. 21, figs. 3 Q, R; PROTEROZOIC (Semri Group, Tirohan Limestone Formation), Sangrampur hill, Chitrakoot, Banda district, Uttar Pradesh.

Leiosphaeridia optina Eisenack. Venkatachalapathy & Mahesh Bilwa 1986: 188; pl. 1, fig. 4; PRECAMBRIAN (Kaladgi Group, Mudhol Formation), Bagalkot town, Bijapur district, Karnataka.

Leiosphaeridia pellucida Salujha, Rehman & Arora 1971: 25; pl. 2, figs. 1, 2, 3; pl. 3, fig. 29; MIDDLE PROTEROZOIC (Kaimur Group, Bijaigarh Shale Formation), Mirzapur district, Uttar Pradesh; Maithy & Babu 1998: 2; pl. 1, fig. 1; LATE PROTEROZOIC (Kaimur Group, Bijaigarh Formation), Markundi hill, Chopan, Mirzapur district, Uttar Pradesh; Maithy & Babu 2000: 17; pl. 1, fig. 3; EARLY NEOPROTEROZOIC (Semri Group, Bhagwar Shale Formation), Rohtasgarh district, Bihar; Prasad & Asher 2001: 114; pl. 10, figs. 15, 16; MESOPROTYEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Leiosphaeridia plicatum Maithy & Shukla. Maithy & Babu 2000: 17; pl. 1, fig. 1; EARLY NEOPROTEROZOIC (Semri Group, Bhagwar Shale Formation), Rohtasgarh district, Bihar; Prasad & Asher 2001: 114; pl. 10, figs. 15-16;

MESOPROTYEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Leiosphaeridia porcellanitensis Nautiyal 1983a: 77; pl. 1, figs. 3-6; text fig. 1 C,D, LATE ALGONKIAN (Semri Group, Porcellanite stage), Son valley, Mirzapur district, Uttar Pradesh; Nautiyal 1986a: 6; pl. 2, fig. 29; MIDPROTEROZOIC (Semri Group, Tirohan Limestone Formation), Sangrampur hill, Chitrakoot, Banda district, Uttar Pradesh;

Leiosphaeridia problematicum Nautiyal 1988b: 186; pl. 3, fig. 4, text figs. 3 C; MIDDLE ALGONKIAN (Iron Ore Supergroup), Fagua and Dalki quarries, Keonjhar district, Orissa.

Leiosphaeridia raoii Venkatachala, Bhandari, Chaube & Rawat 1974: 30; pl. 1, figs. 1-2; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist belt), near Dharwar district, Karnataka.

Leiosphaeridia sarjeantii Pocock. Nautiyal 1983a: 78; pl. 1, figs. 7-8; text figs. 1 E-F; LATE ALGONKIAN (Semri Group, Porcellanite stage), Son valley, Mirzapur district, Uttar Pradesh.

Leiosphaeridia cf. suketensis Maithy & Babu 1996: 4; pl. 1, figs. 16, 17. 21; EARLY NEOPROTEROZOIC (Bhima Group, Halkal Formation), Gulbarga district, Karnataka.

Leiosphaeridia tenella Salujha, Rehman & Arora 1971: 25; pl. 2, figs. 4,5,6; MIDDLE PROTEROZOIC (Vindhyan Supergroup), Son valley, Mirzapur district, Uttar Pradesh.

Leiosphaeridia tenuissima Eisenack. Prasad & Asher 2001: 96, pl. 1, figs. 5 & 9; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 20, 21 & 26; pl. 1, fig. 3; pl. 2, fig. 10; pl. 3, fig. 15; pl. 4, fig. 17; pl. 8, figs. 16-17; pl. 9, figs. 1, 3; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Leiosphaeridia ternata (Timofeev) Mikhailova & Yankauskas. Prasad & Asher 2001: 96; pl. 1, figs. 10 & 11; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, U.P.

Leiosphaeridia undulata Timofeev. Viswanathiah, Venkatachalapathy & Narayana Shetty 1984: 63; pl. 1, fig. 9; pl. 2, fig. 1; pl. 3, fig. 3; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka.

Leiosphaeridia vindhyana Salujha, Rehman & Rawat 1971: 72; pl. 1, figs. 6,7; LATE CAMBRIAN TO ORDOVICIAN (Bhander Group, Bhander Sandstone Formation), Mandral-Karauli area, Rajasthan.

Leiosphaeridia volynica Timofeev. Viswanathiah, Venkatachalapathy & Narayana Shetty 1984: 63; pl. 2, fig. 8; pl. 3, fig. I; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka.

Leiosphaeridia sp. Maithy 1968: 49; pl. 1, fig. 3; PRECAMBRIAN (Kaimur Series, Suket Shale), Chauki village, Ramapura, Neemuch district, Madhya Pradesh.

Leiosphaeridia sp. A Salujha, Rehman & Rawat 1971: 70, pl. 1, fig. 5; LATE CAMBRIAN TO ORDOVICIAN (Bhander Group, Bhander Sandstone Formation), Mandral-Karauli area, Rajasthan.

Leiosphaeridia sp. Venkatachala & Rawat 1972: 109; pl. 1, figs. 2, 7; LATE PRECAMBRIAN (Bhima Group), Talikote-Gulbarga section, Gulbarga district, Karnataka.

Leiosphaeridia sp. A Salujha, Rehman & Arora 1972b: 126; pl. 1, fig. 2; LATE PRECAMBRIAN-CAMBRIAN (Kurnool Supergroup), Palnad area, Andhra Pradesh.

Leiosphaeridia sp. A Venkatachala & Rawat 1973: 29; pl. 1, figs. 4,7; PRECAMBRIAN-LOWER CAMBRIAN (Kaladgi Supergroup), Bagalkot-Badami-Ramdurg road section on Cliff in Pattadakal Kendur road, near Bhadranaikanjalihalla, Belgaum district, Karnataka.

Leiosphaeridium sp. A Srinivasa & Gowda 1978: 152; pl. 2, fig. 10, 13; PROTEROZOIC (Bhima Group), Gulbarga district, Mysore, Karnataka.

Leiosphaeridium sp. B Srinivasa & Gowda 1978: 152; pl. 2, fig. 13; PROTEROZOIC (Bhima Group), Gulbarga district, Karnataka.

Leiosphaeridium sp. C Srinivasa & Gowda 1978: 152; pl. 3, fig. 2; PROTEROZOIC (Bhima Group), Chitapur and Honhalli areas, Gulbarga district, Karnataka.

Leiosphaeridium sp. D Srinivasa & Gowda 1978: 152; pl. 3, fig. 4; PROTEROZOIC (Bhima Group), Gulbarga district, Karnataka.

Leiosphaeridia sp. A Nautiyal 1983b: 182; pl. 1, fig. 53, fig. 2R; UPPER TO MIDDLE ALGONIKIAN (Semri Group, Arangi Formation), west of Kajrahat, Son valley, Mirzapur district, Uttar Pradesh.

Leiosphaeridia sp. A Nautiyal 1986b: l08, pl. 2; figs. 4-6, figs. 2D, E, F, PROTEROZOIC (Semri Group, Rohtas Formation), north of Pakri village, Son valley, Mirzapur district, Uttar Pradesh.

Leiosphaeridia sp. A Nautiyal 1988b: 186; pl. 3, fig. 3; pl. 5, figs. 1-2; text figs. 3 A-B; MIDDLE ALGONKIAN (Iron Ore Supergroup), Fagua and Dalki quarries, Keonjhar district, Orissa.

Leiosphaeridia sp. B Salujha, Rehman & Rawat 1971: 72; pl. 1, fig. 8; LATE CAMBRIAN TO ORDOVICIAN (Bhander Group, Bhander Sandstone Formation), Mandral-Karauli area, Rajasthan.

Leiosphaeridia sp. B Salujha, Rehman & Arora 1972b: 126; pl. 1, fig. 3; LATE PRECAMBRIAN-CAMBRIAN (Kurnool Supergroup), Palnad area, Andhra Pradesh.

Leiosphaeridia sp. B Venkatachala & Rawat 1973: 29; pl. 1, fig. 11; UPPER PRECAMBRIAN-LOWER CAMBRIAN (Kaladgi Supergroup), Bagalkot-Badami-Ramdurg road section, on Cliff in Pattadakat-Kendur road, near Bhadranaikanjalihalla, Belgaum district, Karnataka.

Leiosphaeridia sp. B Suresh & Gowda, 1981: 31, pl. 2, fig. 2; LATE PROTEROZOIC (Bhima Supergroup), Ganurthi, Gulbarga district, Karnataka.

Leiosphaeridia sp. Srinivasa & Gowda 1978: 152; pl. 1, fig. 10; pl. 2, fig. 1; PROTEROZOIC (Bhima Group), Gulbarga district, Mysore, Karnataka.

Leiosphaeridia sp. Shrivastava 1972: 8; pl. 1, figs. 12-14; SILURIAN-DEVONIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Leiosphaeridia sp. Viswanathiah, Venkatachalapathy & Nanjundaswami 1976: 402; pl. 1, fig. 5, ORDOVICIAN (Gokak Quartzarenite), Badami Group, Karnataka.

Leiosphaeridia sp. Viswanathiah, Venkatachalapathy & Doddiah 1979: 18, pl. 1, fig. 6, LATE PRECAMBRIAN (Bhima Supergroup), Mukhihal, south of Talikote, Karnataka.

Leiosphaeridia sp. Venkatachalapathy & Shekhar 1986: 194; pl. 1, fig. 5; PRE RIPHEAN-RIPHEAN (Papagini Group, Vempalle Formation), Andhra Pradesh.

Leiosphaeridia sp. Joshi, Mathur & Kumar 1988: 118; figs. 2, 6, LATE PRECAMBRIAN (Baliana Group, Blaini Formation), Mussoorie area, Dehradun district, Uttar Pradesh.

Leiosphaeridia sp. Nautiyal 1988a: 84-85; pl. 1, figs. 1-4, text figs. I, K, L; LATE ALGONKIAN (Ujhani well), Ujhani area, Ganga valley, Uttar Pradesh.

Leiosphaeridia sp. Tiwari & Azmi 1990: 390; pl. 1, fig. 13; LATE PROTEROZOIC (Krol Group, Infra Krol Formation), Anjighat, Solan area, Solan district, Himachal Pradesh.

Leiosphaeridia sp. Tiwari 1996b: 719; fig. 2-k; TERMINAL PROTEROZOIC (Tal Group), Korgai Syncline, Solan, Himanchal Pradesh.

Leiosphaeridia sp. Tiwari 1999. 109, figs. 3 A-D; PRECAMBRIAN CAMBRIAN BOUNDARY (Tal Group, Tal Formation), Chert Phosphorite Member, Nainital area, Nainital district, Uttar Pradesh.

Leiosphaeridia sp. Tiwari & Pant 2004b: 1736; pl. 3, figs. V, I; NEOPROTEROZOIC (Gangolihat Dolomite Formation), Jhiroli Magnesite Mine, Uttaranchal.

Leiosphaeridia sp. Prasad, Uniyal & Asher 2005: 24; pl. 7, figs. 2, 3, 5; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Leiosphaeridia sp. 1 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 1, fig. 3; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Leiosphaeridia sp. 2 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 1, figs. 4-5; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Leiosphaeridia sp. 3 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 1, fig. 8; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Leiosphaeridia sp. 4 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 1, fig. 20; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Leiosphaeridia sp. 5 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 1, fig. 16;

PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Leiosphaeridia sp. 6 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 1, fig. 14; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Leiosphaeridia sp. 7 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 2, fig. 1; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Leiosphaeridia sp. 8 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 2, fig. 8; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Leiosphaeridia sp. 9 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 2, fig. 15; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Leiosphaeridia sp. 10 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 2, fig. 25; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

LEIOTRILETES (Naumova) Potonié & Kremp

Leiotriletes sp. Shrivastava 1972: 7; pl. 1, fig. 8; SILURIAN-DEVONIAN (Vindhyan Supergroup, Suket Shales Formation), Ramapura, Neemuch district, Madhya Pradesh.

Leiotriltes sp. Potonié & Kremp. Singh, Rawat & Gupta 1978: 98; pl. 1, fig. 1; PRECAMBRIAN (Shali Formation), Gumma and Drang section, Mandi area, Mandi district, Himachal Pradesh.

LEIOVALIA Eisenack

Leiovalia contracta Salujha, Rehman & Arora 1972b: 128; pl. 1, figs. 21, 22, 23; LATE PRECAMBRIAN-CAMBRIAN (Kurnool Supergroup), Palnad area, Andhra Pradesh; Viswanathiah, Venkatachalapathy & Narayana Shetty 1984: 65; pl. 2, fig. 5; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka.

Leiovalia oblonga Eisenack. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 203; pl. 2, fig. 1; PRECAMBRIAN-CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), detailed geographical location not mentioned, Karnataka; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 24; fig. 20; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka; Viswanathiah, Venkatachalapathy & Shankara 1984: 78; pl. 1, fig. 11; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Leiovalia rugostriatus Prasad & Asher 2001: 78; pl. 3, figs. 8-12, text figs. 13 A-B; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Leiovalia similis Eisenack. Viswanathiah, Venkatachalapathy & Shankara 1984: 78; pl. 1, fig. 10; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Leiovalia sp. Salujha, Rehman & Rawat 1971: 76; pl. 1, fig. 25; LATE CAMBRIAN TO ORDOVICIAN (Bhander Group, Sirbu Shale Formation), Mandral-Karauli area, Rajasthan.

Leiovalia sp. Viswanathiah, Venkatachalapathy & Doddiah 1976: 386; pl. 1, fig. 8; LATE PRECAMBRIAN-EARLY CAMBRIAN (Bhima Group), Gulbarga district, Karnataka.

Leiovalia sp. Srinivasa & Gowda 1978: 152; pl. 4, figs. 4, 7; PROTEROZOIC (Bhima Group), Chitapur and Honhalli areas, Gulbarga district, Karnataka.

Leiovalia sp. Nautiyal 1990: 185; pl. 2, figs. 18, 19; MIDDLE PROTEROZOIC (Tejam Group, Thalkedar Limestone, Formation), Pithoragarh in Kumaon and Satpuli districts in Garhwal, Uttar Pradesh.

LEPTONIA Singh, Rawat & Gupta

Leptonia granulosa Singh, Rawat & Gupta 1978: 100; pl. 1, figs. 3, 6-9, 12-14; PRECAMBRIAN (Shali Formation), Gumma and Drang section, Mandi area, Mandi district, Himachal Pradesh.

LOPHOMARGINATA Naumova

Lophomarginata sp. Srinivasa & Gowda 1978: 153; pl. 2, fig. 9; PROTEROZOIC (Bhima Group), Gulbarga district, Karnataka.

Lophominiscula sp. Srinivasa & Gowda 1978: 153; pl. 1, fig. 3; PROTEROZOIC (Bhima Group), Gulbarga district, Karnataka.

LOPHOSPHAERIDIUM Timofeev

Lophosphaeridium bellum Salujha, Rehman & Arora 1972a: 13; pl. 1, figs. 18-21; LATE PRECAMBRIAN TO CAMBRIAN (Bhima Series), Gulbarga district, Karnataka; Viswanathiah, Venkatachalapathy & Naresh 1978: 481; pl. 1, fig. 24; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), Karnataka, geographical location not mentioned; Viswanathiah, Venkatachalapathy & Doddiah 1979: 18; pl. 1, fig. 2; LATE PRECAMBRIAN (Bhima Supergroup), Talikote, Karnataka.

Lophosphaeridium conatum Venkatachala & Rawat 1973: 31; pl. 1, fig. 22; UPPER PRECAMBRIAN-LOWER CAMBRIAN (Kaladgi Supergroup), near Bhadranaikanjalihalla, Belgaum district, Karnataka; Venkatachala, Bhandari, Chaube & Rawat 1974: 31; pl. 2, figs. 36, 40; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist belt), Dharwar district, Karnataka; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 201; pl. 2, fig. 4, PRECAMBRIAN-CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), detailed geographical location not mentioned, Karnataka; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 22; fig. 32; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Lophosphaeridium granulatum Maithy. Nautiyal 1986b: l09; pl. 2, fig. 8, text fig. 2H; MIDPROTEROZOIC (Semri Group, Rohtas Limestone Formation), Mirzapur district, Uttar Pradesh; Nautiyal 1988a: 84-85; pl. 1, fig. 16; LATE ALGONKIAN (Semri Group, Kheinjua Formation), Pakri area, Son valley, Mirzapur district, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 21; pl. 4, fig. 18; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Lophosphaeridium kurnoolii Salujha, Rehman & Arora 1972b: 126; pl. 1, figs. 5, 6; LATE PRECAMBRIAN (Kurnool Supergroup), Palnad area, Andhra Pradesh; Mandal, Maithy & Mehdi 1983: 195; pl. 1, fig. 7; PROTEROZOIC (Cuddapah Supergroup, Nallamalai Group), Varikunta area, Andhra Pradesh.

Lophosphaeridium Jainii Salujha, Rehman & Rawat 1971: 74; pl. 1, figs. 14, 15, 16; LATE CAMBRIAN TO ORDOVICIAN (Kaimur Group, Kaimur Sandstone Formation), Mandral-Karauli area, Rajasthan.

Lophosphaeridium Jansoniusii Salujha, Rehman & Arora 1971: 26; pl. 2, figs. 10-13; MIDDLE PROTEROZOIC (Kaimur Group, Bijaigarh shale Formation), Son valley, Mirzapur district, Uttar Pradesh; Shukla, Tewari, Babu & Sharma 2006: 64; pl. 2, fig. 17; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Lophosphaeridium rarum Timofeev. Kumar, Raina, Bhatt, Maithy, Prasad, Babu, Bhargava & Srivastatav 1990: 5; fig. 6f; EARLY TOMMOTIAN (Tal Group, Tal Formation), Chert Phosphorite Member, Masrana, Dehradun district, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 40; pl. 10, figs. 9-10; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh; Shukla, Tewari, Babu & Sharma 2006: 64; pl. 2, fig. 21; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Lophosphaeridium truncatum Volkova. Prasad, Uniyal & Asher 2005: 40; pl. 8, figs. 9-14; pl. 10, figs. 8, 14; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Lophosphaeridium rugosum Thusu. Viswanathiah, Venkatachalapathy & Khadeer 1976a: 392; pl. 1, figs. 10, 17; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka.

Lophosphaeridium vetulum Salujha, Rehman & Arora 1971: 27; pl. 3, figs. 10, 11; MIDDLE PROTEROZOIC (Semr Group, Rohtas Limestone Formation), Son valley, Sidhi district, Madhya Pradesh; Nautiyal 1983b: 182; pl. 1, fig. 50, fig. 2S; UPPER TO MIDDLE ALGONKIAN (Semri Group, Patherwa Formation), Mirzapur district, Uttar Pradesh; Nautiyal 1986b: l09; pl. 2, fig. 7, text fig. 2 G; PROTEROZOIC (Semri Group,

Rohtas Formation), Mirzapur district, Uttar Pradesh; Nautiyal 1988a: 84-85; pl. 1, fig. 15; LATE ALGONKIAN (Semri Group, Kheinjua Formation), Pakri area, Son valley, Mirzapur district, Uttar Pradesh.

Lophosphaeridium sp. A Salujha, Rehman & Arora 1971: 27; pl. 3, fig. 12; MIDDLE PROTEROZOIC (Vindhyan Supergroup), locality not mentioned; Viswanathiah, Venkatachalapathy & Khadeer 1976a: 392; pl. 2, fig. 26; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka.

Lophosphaeridium sp. B Salujha, Rehman & Arora 1971: 27; pl. 3, fig. 13; MIDDLE PROTEROZOIC (Vindhyan Supergroup), locality not mentioned.

Lophosphaeridium sp. Salujha, Rehman & Arora 1972b: 126; pl. 1, fig. 30; LATE PRECAMBRIAN-CAMBRIAN (Kurnool Supergroup), Palnad area, Andhra Pradesh.

Lophosphaeridium sp. Salujha, Rehman & Arora 1972a: 13; pl. 1, fig. 22; LATE PRECAMBRIAN TO CAMBRIAN (Bhima Series), Gulbarga, Karnataka.

Lophosphaeridium sp. Venkatachala & Rawat 1972: 110; pl. 1, fig. 13; LATE PRECAMBRIAN (Bhima Group), Talikote-Gulbarga section, Gulbarga district, Karnataka.

Lophosphaeridium sp. Venkatachala, Bhandari, Chaube & Rawat 1974: 31; pl. 1, fig. 30; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist belt), Karnataka.

Lophosphaeridium sp. Viswanathiah, Venkatachalapathy & Khadeer 1976b: 341; pl. 1, fig. 4; PRECAMBRIAN (Badami Group, Ramdurg Formation), Karnataka.

Lophosphaeridium sp. Viswanathiah, Venkatachalapathy & Naresh 1978: 481; pl. 1, fig. 15; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical locality not mentioned, Karnataka.

Lophosphaeridium sp. 1 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. figs. 6, 12; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Lophsphaeridium sp. Venkatachala & Kumar 1996: 554; pl. 1, figs. 14-15; LATE RIPHEAN-EARLY VENDIAN (Jammu Limestone), Riasi-Katra area, Jammu, Jammu and Kashmir.

Lophosphaeridium sp. cf. Tiwari 1999: 107; fig. 2 K; PRECAMBRIAN-CAMBRIAN BOUNDARY (Tal Group, Tal Formation), Chert Phosphorite Member, Himachal Pradesh.

Lophosphaeridium sp. Timofeev. Kumar, Raina, Bhargava, Maithy & Babu 1984: 212; fig. 3 *e*; VENDIAN-CAMBRIAN BOUNDARY (Lolab Formation), Lolab valley, Kashmir, northwest Himalaya.

Lophosphaeridium sp. Timofeev. Maithy, Babu, Raina & Kumar 1988: 641; fig. 1. 8; LATE PROTEROZOIC (Machhal and Lolab Formations), Putshai-Wanner section, Lolab valley, Kupwara district, Kashmir Himalaya.

Lophosphaeridium sp. Zhang *et* al., Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2. 8; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh.

LOPHOTRILETES Potonié & Kremp

Lophotriletes antiquities Potonié & Kremp. Venkatachala & Rawat 1971: 111; pl. 1, fig. 6; LATE PRECAMBRIAN (Bhima Group), Talikote-Gulbarga section, Gulbarga district, Karnataka.

LUNULIDIA Eisenack

Lunulidia sp. Srinivasa & Gowda 1978: 152; pl. 4, figs. 2, 3; PROTEROZOIC (Bhima Group), Chitapur and Honhalli areas, Gulbarga district, Karnataka.

MACROPTYCHA Timofeev

Macroptycha biplicata Timofeev. Venkatachalapathy & Ravindra 1984: 43; pl. 2, fig. 10; PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka; Venkatachalapathy & Shekhar 1986: 194; pl. 1, fig. 10; PRE RIPHEAN-RIPHEAN (Papagini Group, Vempalle Formation), Andhra Pradesh.

Macroptycha uniplicata Timofeev. Viswanathiah, Venkatachalapathy & Shekhar 1984: 89; pl. 1, fig. 9; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzite), Chennareddipalli-Muddanur area, Andhra Pradesh; Viswanathiah, Venkatachalapathy & Raghunath, 1984: 53; pl. 1, fig. 3; LOWER RIPHEAN (Kaladgi Supergroup, Salagundi Conglomerate), Bijapur district, Karnataka.

MARGOMINUSCULA Naumova

Margominuscula prima Pykhova. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 23; fig. 10; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Margominuscula prisca Naumova. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 23; figs. 8 & 11; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Margominuscula rugosa Naumova. Kumar, Raina, Bhatt, Maithy, Prasad, Babu, Bhargava, & Srivastava 1990: 5; fig. 6e; EARLY TOMMOTIAN (Tal Group, Tal Formation), Chert Phosphorite Member, Masrana, Dehradun district, Uttar Pradesh; Shukla, Tewari, Babu & Sharma 2006: 64; pl. 2, figs. 5,7; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Margominuscula simplex Pykhova. Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2. 14; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh; Shukla, Babu, Mathur & Srivastava 2005b: 199; pl. 1, fig. 19; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal.

Margominuscula verrucuta Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 23; fig. 6; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Margominiscula sp. Maithy & Babu 1997: 4; pl. 1, fig. 6; VENDIAN (Bhander Group, Lakheri Limestone Formation), Maihar area, Satna district, Madhya Pradesh.

MARROCONIUM Cramer *et* al.

Marroconium simplex Cramer *et* al., Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 470; pl. 1, fig. 29; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka; Shukla, Babu, Mathur & Srivastava 2005b: 199; pl. 1, fig. 19; TERMINAL NEOPRTERPZOC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal.

MEGHYSTRICHOSPHAERIDIUM (Zhang) Yin *et* al.,

Meghystrichosphaeridium perfectum (Kolosova) Zhang *et* al. Shukla, Tewari, Babu & Sharma 2006: 67; pl. 2, fig. 4; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

MENNERIA Lopukhin

Menneria roblota Lopukhin. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 202; pl. 3, fig. 1; PRECAMBRIAN-CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), detailed geographical location not mentioned, Karnataka; Viswanathiah, Venkatachalapathy & Narayana Shetty 1984: 63; pl. 2, fig. 2; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka.

Menneria sp. Viswanathiah, Venkatachalapathy & Doddiah 1979: 19; pl. 1, fig. 12; LATE PRECAMBRIAN (Bhima Supergroup), Talikote, Karnataka.

Menneria sp. Viswanathiah & Venkatachalapathy 1980: 18; pl. 1, fig. 18; EARLY PROTEROZOIC (Dharwar Supergroup, Bababudan Iron Formation), Dharwar, District, Karnataka.

MICRHYSTRIDIUM (Deflandre) Staplin

Micrhystridium ampliatum Wang. Shukla, Tewari, Babu & Sharma 2006: 66; pl. 2, fig. 6; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Micrhystridium bacilliferum Deflandre. Viswanathiah, Venkatachalapathy & Shankara 1984: 77; pl. 2, fig. 2; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Micrhystridium dissimilare Volkava. Tiwari 1999: 105; figs. 2 h-j; PRECAMBRIAN-CAMBRIAN BOUNDARY (Tal Group, Tal Formation), Nainital area, Nainital district, Uttar Pradesh.

Micrhystridium eatonense Downie. Shukla, Babu, Mathur & Srivastava 2005b: 202; pl. 1; fig. 26; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal.

Micrhystridium echinuatum Luo & Wang. Shukla, Babu, Mathur & Srivastava 2005b: 200; pl. 1,

fig. 12; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal.

Micrhystridium henryi Paris & Deunff. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1976: 403; pl. 1, fig. 8; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka.

Micrhystridium kaladgiense Viswanathiah, Venkatachalapathy & Mahalakshamamma 1980: 24; fig. 16; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Micrhystridium lanatum Volkova. Tiwari 1999: 105; fig. 2 n; PRECAMBRIAN CAMBRIAN BOUNDARY (Tal Group, Tal Formation), Nainital area, Nainital district, Uttar Pradesh.; Shukla, Tewari, Babu & Sharma 2006: 66; pl. 2, fig. 10; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Micrhystridium lanceolatum Vanguéstaine. Tiwari 1999: 105; figs. 2 A-G, M; PRECAMBRIAN-CAMBRIAN BOUNDARY (Tal Group, Tal Formation), Solan district, Himachal Pradesh; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2. 11; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh.

Micrhystridium pallidum Tiwari & Pant 2004b: 1735; pl. 3 figs. W-Z; NEOPROTEROZOIC (Gangolihat Dolomite Formation), Jhiroli Magnesite Mine, Himachal Pradesh..

Micrhystridium parvum Volkova. Viswanathiah, Venkatachalapathy & Shankara 1984: 77; pl. 1, fig. 3; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Micrhystridium regulare Yin. Tiwari 1996b: 719; figs. 2-c, d, m; TERMINAL PROTEROZOIC; Korgai Syncline, Lesser Hmalaya; Shukla, Babu, Mathur & Srivastava 2005b: 202; pl. 1, fig. 13; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal.

Micrhystridium sitholeyi Salujha, Rehman & Arora 1971: 30; pl. 2, figs. 15, 16. 17; MIDDLE PROTEROZOIC (Kaimur Group, Bijaigarh Shale Formation), Son valley, Sidhi district, Madhya Pradesh; Viswanathiah, Venkatachalapathy & Doddiah 1979: 19; pl. 1, fig. 7; LATE PRECAMBRIAN (Bhima Supergroup), Mudhol near Sedam, Karnataka.

Micrhystridium spinosum Volkova. Viswanathiah, Venkatachalapathy & Khadeer 1976b: 341; pl. 1, fig. 1; PRECAMBRIAN (Badami Group, Ramdurg Formation), Karnataka.

Micrhystridium tornatum Volkova. Tiwari 1999: 105; fig. 2 L; PRECAMBRIAN CAMBRIAN BOUNDARY (Tal Group, Tal Formation), Solan district, Himachal Pradesh.

Micrhystridium sp. Salujha, Rehman & Arora 1971: 30; pl. 2, fig. 25; pl. 3, fig. 26. MIDDLE PROTEROZOIC (Vindhyan Supergroup), locality not mentioned.

Micrhystridium sp. Salujha, Rehman & Arora 1972b: 128; pl. 1, figs. 24-25; LATE PRECAMBRIAN-CAMBRIAN (Kurnool Supergroup), Palnad area, Andhra Pradesh.

Micrhystridium sp. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1976: 403; pl. 1, fig. 10; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka.

Micrhystridium sp. Tiwari 1996b: 719; figs. 2 a-j; TERMINAL PROTEROZOIC, Korgai Syncline, Lesser Hmalaya, Uttar Pradesh.

Micrhystridium sp. Maithy & Babu 1997: 4; pl. 1, fig. 5; VENDIAN (Bhander Group, Lakheri Limestone Formation), Maihar area, Satna district, Madhya Pradesh.

Micrhystridium sp. Srivastava & Kumar 2003: 40; pl. 4 fig. 7; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttarnchal.

Micrhystridium sp. Venkatachala & Kumar 1996: 554; pl. 1, fig. 13; LATE RIPHEAN-EARLY VENDIAN (Jammu Limestone), Riasi-Katra area, Jammu, Jammu and Kashmir.

MICROCONCENTRICA Naumova

Microconcentrica incrustata Yin & Li. Shukla, Babu, Mathur & Srivastava 2005b: 200; pl. 1, fig. 23; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal.

MICROTAENNIA Lopukhin

Microtaennia sp. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 203; pl. 1, fig. 10; PRECAMBRIAN-CAMBRIAN (Kaladgi

Supergroup, Lokapur Formation), detailed geographical locality not mentioned, Karnataka.

MONOTREMATUM Timofeev

Monotrematum sp. A Srinivasa & Gowda 1978: 152; pl. 3, fig. 3; PROTEROZOIC (Bhima Group), Chitapur and Honhalli areas, Gulbarga district, Karnataka.

Monotrematum sp. B Srinivasa & Gowda 1978: 152; pl. 3, fig. 5; PROTEROZOIC (Bhima Group), Chitapur and Honhalli areas, Gulbarga district, Karnataka.

NABAVIELLA Mostler *et* al.

Nabaviella acanthomorpha Tiwari 1997: 656; figs. 1a-4d; PRECAMBRIAN-CAMBRIAN BOUNDARY (Tal Group, Tal Formation) Pohru valley, northwestern Kashmir.

NAVIFUSA Combaz *et* al.

Navifusa actinomorpha (Maithy), Hofmann & Jackson. Prasad & Asher 2001: 102; pl. 4, fig. 6; pl. 5, figs. 6-9; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Navifusa bacillaris (German) Hofmann & Jackson. Prasad & Asher 2001: 102 &104; pl. 4, figs. 4-5; pl. 5, figs. 6-9; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Shukla, Tewari, Babu & Sharma 2006: 66; pl. 2, fig. 15; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Navifusa granostraiatus Prasad & Asher 2001: 76; pl. 4, figs. 7-10, text figs. 9 A-B; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Navifusa granulatus Prasad & Asher 2001: 75; pl. 4, figs. 11-14, text figs. 8 A-B; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Navifusa magnus Prasad & Asher 2001: 77; pl. 7, figs. 8-11; Text fig. 12; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Navifusa majensis Pytiletov. Prasad & Asher 2001: 102; pl. 4, figs. 1-3; 104; pl. 5 figs. 1-3; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 40; pl. 3, fig. 10; pl. 5, fig. 15; pl. 7, figs. 1, 8; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Navifusa navis Timofeev. Kumar, Raina, Bhatt, Maithy, Prasad, Babu, Bhargava & Srivastava 1990: 5; fig. 6a; EARLY TOMMOTIAN (Krol Formation), Upper member, Durmala, Dehradun district, Uttar Pradesh.

Navifusa purana Venkatachala, Bhandar, Chaube & Rawat 1974: 32; pl. 1, fig. 22; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist belt), Dharwar district, Karnataka.

Navifusa robustus Prasad & Asher 2001: 76; pl. 3, fig. 7; pl. 5, figs. 10-13, text figs. 10 A-B; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Navifusa segmentatus Prasad & Asher 2001: 77; pl. 5, figs. 4-5 & 14-15, text figs. 11. A-B; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 42, pl. 3, fig. 6; pl. 5, fig. 16; pl. 7, figs. 10,16; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Navifusa tenuis Eisenack. Viswanathiah, Venkatachalapathy & Shekhar 1984: 90; pl. 2, fig. 2; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzarenite), Chennareddipalli-Muddanur area, Andhra Pradesh; Viswanathiah, Venkatachalapathy & Shankara 1984: 78; pl. 1, fig. 5; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Navifusa sp. 1 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 1, figs. 17-18 (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Navifusa sp. 2 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 1, fig. 19; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Navifusa sp. 3 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 1, fig. 21; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Navifusa sp. 5 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 3, fig. 1; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Navifusa sp. 6 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 3, fig. 2; PROTEROZOIC

(Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Navifusa sp. 7 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 3, fig. 3; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Navifusa sp. 8 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 3, fig. 4; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Navifusa sp. 9 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 3, fig. 7; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Navifusa sp. 10 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 3, fig.5; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

NEOASTRION Viswanathiah *et* al.

Neoastrion lokapurensis Viswanathiah, Venkatachalapathy & Mahalakshmamma 1979: 74; pl. 1, figs. 76 a,-c; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), geographical location not mentioned, Karnataka.

Neoastrion variensis Viswanathiah, Venkatachalapathy & Mahalakshmamma 1979: 74; pl. 2, fig. 73; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), geographical location not mentioned, Karnataka.

NETROMORPHITAE Downie *et* al.

Netromorphitae Srinivasa & Gowda 1978: 152; pl. 5, fig. 9; PROTEROZOIC (Bhima Group), Chitapur and Honhalli areas, Gulbarga district, Mysore, Karnataka.

NUCELLOSPHAERIDIUM Timofeev

Nucellosphaeridium deunffii Timofeev. Prasad & Asher 2001: 110; pl. 8, figs. 12 & 13; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Nucellosphaeridium medianum Timofeev. Maithy, Venkatachala & Lele 1983: 191; pl. 1, figs. 10 & 11; LATE PRECAMBRIAN (Subsurface Vindhyan sediments), Ujhani Deep wells-1, 2 & 3, Budaun district. Uttar Pradesh.

Nucellosphaeridium minimum Maithy & Shukla 1977: 182; pl. 4, figs. 30-31; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Maithy & Babu 2000: 19; pl. 1, figs. 4-5; EARLY NEOPROTEROZOIC (Semri Group, Bhagwar Shale Formation), Rohtasgarh district, Bihar.

Nucellosphaeridium minor Nautiyal 1986b: 110; pl. 2, figs. 10-11; text fig. 21, J; PROTEROZOIC (Semri Group, Rohtas Formation), Son valley, Mirzapur district, Uttar Pradesh.

Nucellosphaeridium minutum Timofeev. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 470; pl. 1, fig. 24; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka; Maithy, Venkatachala & Lele, 1983: 191; pl. 1, fig. 9; LATE PRECAMBRIAN (Subsurface Vindhyan sediments), Ujhani Deep Well-I, Ujhani wells 1, 2 & 3, Budaun district, Uttar Pradesh; Viswanathiah, Venkatachalapathy & Narayana Shetty 1984: 63; pl. 1, fig. 2; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka; Viswanathiah, Venkatachalapathy & Raghunath 1984: 52; pl. 2, fig. 9; LOWER RIPHEAN (Kaladgi Supergroup, Salagundi Conglomerate), Bijapur district, Karnataka.

Nucellosphaeridium triangulum Maithy. Maithy & Babu 1993: 45; pl. 1, fig. 13; LATE RIPHEAN TO VENDIAN (Bhander Group, Ganurgarh Shale Formation), near Midghat Railway station, Bhopal district, Madhya Pardesh.

Nucellosphaeridium zonatum Maithy & Shukla 1977: 182; pl. 4, fig. 29; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Maithy, Venkatachala & Lele 1983: 191; pl. 1, fig. 12; LATE PRECAMBRIAN (Subsurface Vindhyan sediments), Ujhani Deep Well-I, Ujhani wells-1, 2, & 3, Budaun district, Uttar Pradesh.

Nucellosphaeridium sp. Viswanathiah, Venkatachalapathy & Doddiah 1976: 386; pl. 1, fig. 6; LATE PRECAMBRIAN-EARLY CAMBRIAN (Bhima Group), Gulbarga district, Karnataka.

Nucellosphaeridium sp. Mathur 1983: 135; pl. 1, fig. 9; LATE PRECAMBRIAN (Subsurface Pre-unconformity sediments), Puranpur well 2, Ganga Basin, Budaun district, Uttar Pradesh.

Nucellosphaeridium sp. Venkatachalapathy & Ravindra 1984: 42; pl. 2, fig. 5; PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka.

Nucellosphaeridium sp. Nautiyal 1988a: 84-85; pl. 1, figs. 17-22; LATE ALGONKIAN (Ujhani well), Ujhani area, Ganga valley, Uttar Pradesh.

OCTOEDRYXIUM (Rudavaskaya) Vidal

Octoedryxium truncatum (Rudavaskaya) Yankauskas. Viswanathiah, Venkatachalapathy & Doddiah 1976: 387; pl. 1, fig. II; LATE PRECAMBRIAN-EARLY CAMBRIAN (Bhima Group), Gulbarga district, Karnataka; Prasad & Asher 2001: 84; pl. 13, figs. 5, 6 & 10; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 50; pl. 9, fig. 20; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Octoedryxium vindhyanense Prasad, Uniyal & Asher 2005: 48; pl. 2, figs. 1-4; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Octoedryxium sp. Maithy & Babu 1997: 4; pl. 1, fig. 3; VENDIAN (Bhander Group, Lakheri Limestone Formation), Satna-Maihar area, Satna district, Madhya Pradesh.

OOIDIUM Timofeev

Ooidium rossicum Timofeev. Venkatachalapathy & Shekhar 1986: 192; pl. 1, fig. 3; PRE RIPHEAN-RIPHEAN (Papagini Group, Vempalle Formation), Andhra Pradesh.

Ooidium ventricosum Salujha, Rehman & Arora 1971: 29; pl. 2, fig. 14; pl. 3, fig. 1; MIDDLE PROTEROZOIC (Kaimur Group, Bijaigarh Shale Formation), Son Valley, Mirzapur district, Uttar Pradesh.

Ooidium sp. Salujha, Rehman & Rawat 1971: 76; pl. 1, fig. 26; LATE CAMBRIAN TO ORBOVICIAN (Bhander Group, Sirbu Shale Formation), Mandral-Karauli area, Rajasthan.

Ooidium sp. Salujha, Rehman & Arora 1972a: 14; pl. 1, fig. 23; LATE PRECAMBRIAN TO CAMBRIAN (Bhima Series), Gulbarga, Karnataka.

ORYGMATOSPHAERIDIUM Timofeev

Orygmatosphaeridium plicatum Maithy & Shukla 1977: 181; pl. 3, fig. 26; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Rajasthan; Maithy 1980b: 267; pl. 1, figs. 1-3; PRECAMBRIAN (Penganga Formation), Wardha valley, Karnataka; Maithy & Gupta 1983: 159; pl. 1, fig. 9; PRECAMBRIAN (Semri Group, Koldha Shale Formation and Bhander Group, Simrawal Shale Formations), Chandrehi Section, Madhya Pradesh; Maithy & Mandal 1983: 136; pl. 2, fig. 27; LATE PROTEROZOIC (Bhander Group, Semaria Shale Formation), Ranipura, Karauli-Sapotra region, northeast Rajasthan; Maithy, Venkatachala & Lele 1983: 191; pl. 1, figs. 5-7; LATE CAMBRIAN (Subsurface Vindhyan sediments), Ujhani Deep Well-1 & Ujhani wells 1, 2 & 3, Budaun district, Uttar Pradesh.

Orygmatosphaeridium vulgarum Maithy. Maithy & Meena 1989: 184; pl. 1, figs. 24-25; LATE PRECAMBRIAN-(Bhander Group, Nagod Limestone & Sirbu Shale Formations), Satna-Maihar area, Satna district, Madhya Pradesh; Maithy & Babu 1993: 44; pl. 1, fig 9; LATE RIPHEAN TO VENDIAN (Bhander Group, Ganurgarh Shale Formation), near Midghat Railway station, Bhopal district, Madhya Pardesh.

Orygmatosphaeridium sp. Maithy 1980b: 267; pl. 1, figs. 1-5; PRECAMBRIAN (Wardha valley), Wardha, Maharashtra.

Orygmatosphaeridium sp. 1 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 1, figs. 8,11; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Orygmatosphaeridium sp. 2 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 2, fig. 17; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Orygmatosphaeridium sp. 3 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 2, fig. 2; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

OVULUM Jankauskas

Ovulum saccatum? Jankauskas. Srivastava & Kumar 2003: 42; pl. 5, fig. 6; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal.

PALAEOCRYPTIDIUM Deflandre

Palaeocryptidium cayeuxi Deflandre. Suresh & Gowda 1981: 131; pl. 2, fig. 4; LATE

PROTEROZOIC (Bhima Group), Ganurthi, Gulbarga district, Karnataka.

Palaeocryptidium sp A. Srinivasa & Gowda 1978: 153; pl. 1, fig. 2; PROTEROZOIC (Bhima Group), Gulbarga district, Karnataka.

PALAEOSPHAERIDIUM Yin Chongyu

Palaeosphaeridium zonale Zhang & Walter. Srivastava & Kumar 2003: 32; pl. 3 fig. 8; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya.

PARACYMATIOSPHAERA Wang

Paracymatiosphaera irregularis Wang. Tiwari, 1999: 107; figs. 2 E-G; PRECAMBRIAN-CAMBRIAN BOUNDARY (Tal Group, Tal Formation), Nainital district, Nainital district, Uttar Prdesh.

PARACRASSOSPHAERA Rudavskaya

Paracrassosphaera dedalea Rudavskaya in Trestshetekova. Shukla, Babu, Mathur & Srivastava 2005b: 200; pl. 1, fig. 17; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.6; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh.

PETEINOSPHAERIDIUM (Staplin et al.) Eisenack

Peteinosphaeridium barghoornii Staplin. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 467; pl. 1, fig. 6; PROTEROZOIC (Badami Group, Gokak Quarzarenite), Belgaum district, Karnataka.

Peteinosphaeridium sp. Viswanathiah, Venkatachalapathy & Doddiah 1976: 388; pl. 1, fig. 5; LATE PRECAMBRIAN-EARLY CAMBRIAN (Bhima Group), Gulbarga district, Karnataka.

PHANEROSPHAEROPS Schopf & Blacic

Phanerosphaerops sp. Viswanathiah & Venkatachalapathy 1980: 18; pl. 1, fig. 3; EARLY PROTEROZOIC (Dharwar Supergroup, Bababudan Iron Formation), Shimoga schist Belt, Dharwar, Karnataka.

PIREA Vavrdova

Pirea dubia Vavrdova. Viswanathiah, Venkatachalapathy & Nanjundaswarny 1978: 468; pl. 1, fig. 20; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

POIKILOFUSA Staplin et al.

Poikilofusa spinata Staplin et al., Viswanathiah, Venkatachalapathy & Khadeer 1976a: 393; pl. 1, fig. 21; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka.

POLYHEDOSPHAERIDIUM Brown

Polyhedosphaeridium sp. Srinivasa & Gowda 1978: 152; pl. 5, fig. 8; PROTEROZOIC (Bhima Group), Chitapur and Honhalli areas, Gulbarga district, Karnataka.

POLYEDROSPHAERIDIUM Timofeev

Polyedrosphaeridium bullatum Timofeev. Viswanathiah, Venkatachalapathy & Khadeer 1976b: 342; pl. 2, fig. 31; PRECAMBRIAN (Badami Group, Ramdurg Formation), Karnataka; Viswanathiah, Venkatachalapathy & Nanjundiaswamy 1976: 404; pl 2, fig. 6; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka; Viswanathiah, Venkatachalapathy & Narayana Shetty 1984: 64; pl 1, fig. 13; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka.

POLYEDRYXIUM Deunff

Polyedryxium neftelenicum Rudavskaya. Maithy & Gupta 1983: 160; pl. 1, figs. 12-13; PRECAMBRIAN (Semri Group, Deonar Porcellanite, Koldha and Rampur Shale Formations), locality not mentioned.

POLYPORTA Naumova

Polyporta sp. Srinivasa & Gowda 1978: 152; pl. 1, fig. 5; PROTEROZOIC (Bhima Group), Gulbarga district, Karnataka.

PRISCOGALEA Deunff

Priscogalea chevronensis Vanguestaine. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 466; pl. 1, fig. 14; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

Priscogalea cuvillieri Deunff. Viswanathiah, Venkatachalapathy & Khadeer 1976a: 391; pl. 2, fig. 27; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka; Viwanathiah. Venkatachalapathy & Nanjundaswamy 1978: 465; pl. 1, fig. 1; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

Priscogalea echinata Salujha, Rehman & Rawat 1971: 76; pl. 1, figs. 23, 24; LATE CAMBRIAN TO ORDOVICIAN (Bhander Group, Sirbu Shale Formation), Mandral-Karauli area, Rajasthan.

Priscogalea fulcata Martin. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 465; pl. 1, fig. 9; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

Priscogalea glabra Martin. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 466; pl. 1, fig. 5; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

Priscogalea simplex Deunff. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1976: 404; pl. 1, fig. 3; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka.

Priscogalea sp. Salujha, Rehman & Arora 1972b: 129; pl. 1, fig. 26; LATE PRECAMBRIAN-CAMBRIAN (Kurnool Supergroup), Palnad area, Andhra Pradesh.

PRISCOTHECA Deunff

Priscotheca tumida Deunff. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 466; pl. 1, fig. 15; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

Prisotheca sp. Viwanathiah, Venkatachalapathy & Doddiah 1979: 20; pl. 1, fig. 14; LATE PRECAMBRIAN (Bhima Supergroup), Muddebihal, Karnataka.

PROTOLEIOSPHAERIDIUM Timofeev

Protoleiosphaeridium cambriense Timofeev. Maithy & Mandal 1983: 136; pl. 2, fig. 24; LATE PROTEROZOIC (Rewa Group, Panna Shale Formation), Birwas temple, Karauli Sapotra region, northeast Rajasthan;

Protoleiosphaeridium conglutinatum Timofeev. Viswanathiah, Venkatachalapathy & Khadeer 1976b: 341; pl. 2, fig. 23; PRECAMBRIAN (Badami Group, Ramdurg Formation), Karnataka.

Protoleiosphaeridium densum Timofeev. Maithy & Mandal 1983: 136; pl. 2, fig. 25; LATE PROTEROZOIC (Rewa Group, Panna Shale and Jirri Shale Formations; Bhander Group, Bhander Sandstone Formation), Birwas temple, Karauli Sapotra region, northeast Rajasthan.

Protoleiosphaeridium diatretus Salujha, Rehman & Rawat 1971: 73; pl. 1, figs. 11-13; LATE CAMBRIAN TO ORDOVICIAN (Rewa Group, Rewa Sandstone Formation), Dalapura-Hanumanpura traverse, Rajasthan; Maithy & Mandal 1983: 136; pl. 2, fig. 23; LATE PROTEROZOIC (Rewa Group, Panna Shale Formation; Bhander Group, Bhander Sandstoe Formation), Birwas temple, Karauli Sapotra region, northeast Rajasthan.

Protoleiosphaeridium kaladgiense Venkatachala & Rawat 1973: 29; pl. 1, fig. 5; UPPER PRECAMBRIAN-LOWER CAMBRIAN (Kaladgi Supergroup), Gokak-Yaragatti-Bagalkot road traverse, Varchgal village, Karnataka.

Protoleiosphaeridium pristinum Salujha, Rehman & Arora 1971: 26; pl. 3, figs. 8, 9; MIDDLE PROTEROZOIC (Vindhyan Supergroup), Son valley, Mirzapur district, Uttar Pradesh.

Protoleiosphaeridium problematicum Venkatachala, Bhandari, Chaube & Rawat 1974: 30; pl. 1, figs. 5-6; MIDDLE-LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist belt), Dharwar district, Karnataka; Viswanathiah, Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 200; pl. 1, figs. 5, 6, 8; PRECAMBRIAN-CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), geographical location not clearly mentioned, Karnataka; Nautiyal 1980: 8; fig. 17; MIDDLE PRECAMBRIAN (Gangolihat Dolomites Formation), Bans, Pithoragarh, Uttar Pradesh.

Protoleiosphaeridium sp. Maithy 1968: 49; pl. 1, figs. 1-2; PRECAMBRIAN (Kaimur Series, Suket Shale Formation), Chauki village, Ramapura, Madhya Pradesh.

Protoleiosphaeridium sp. A Venkatachala. & Rawat 1973: 29. pl. 1, fig. 9; UPPER PRECAMBRIAN-LOWER CAMBRIAN (Kaladgi

Supergroup), Gokak-Yaragatti-Bagalkot road, Karnataka.

Protoleiosphaeridium sp. B Venkatachala & Rawat 1973: 30; pl. 1, fig. 10; UPPER PRECAMBRIAN-LOWER CAMBRIAN (Kaladgi Supergroup), Bagalkot-Badami Ramdurg road section, on Cliff in Pattadakal Kendur road, near Bhadranaikanjalihalla, Andhra Pradesh.

Protoleiosphaeridium sp. C Venkatachala & Rawat 1973: 30; pl. 1, fig. 14; UPPER PRECAMBRIAN-LOWER CAMBRIAN (Kaladgi Supergroup), Bagalkot-Badami-Ramdurg and Togunali-Badami road sections, Karnataka.

Protoleiosphaeridium sp. D Venkatachala & Rawat 1973: 30; pl. 1, figs. 6, 8; UPPER PRECAMBRIAN-LOWER CAMBRIAN (Kaladagi Supergroup), Bagalkot-Badami-Ramdurg and Togunali-Badami road sections, Karnataka.

Protoleiosphaeridium sp. Salujha, Rehman & Arora 1972b: 127; pl. 1, figs. 19, 20; LATE PRECAMBRIAN TO CAMBRIAN, (Kurnool Supergroup), Palnad area, Andhra Pradesh.

Protoleiosphaeridium sp. Venkatachala & Rawat 1972: 110; pl. 1, fig. 9; LATE PRECAMBRIAN (Bhima Group), Talikote-Gulbarga section, Gulbarga district, Karnataka.

Protoleiosphaeridium sp. Venkatachala, Bhandari, Chaube & Rawat 1974: 31; pl. 1, fig. 4; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist Belt), Karnataka.

Protoleiosphaeridium sp. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 200; pl. 1, fig. 4; PRECAMBRIAN-CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Protoleiosphaeridium sp. A Srinivasa & Gowda 1978: 152; pl. 2, fig. 14; PROTEROZOIC (Bhima Group), Chitapur and Honhalli areas, Gulbarga district, Karnataka.

Protoleiosphaeridium sp. Srinivasa & Gowda 1978: 151-153; pl. 1, figs. 8, 9, 11, 12, 16; PROTEROZOIC (Bhima Group), Gulbarga district, Karnataka.

Protoleiosphaeridium sp. Mandal, Maithy &: Mehdi 1983: 195; pl. 1, figs. 3-6 & 14; PROTEROZOIC (Cuddapah Supergroup, Nallamalai Group), Varikunta area, Andhra Pradesh.

Protoleiosphaeridia sp. Nautiyal 1988a: 84-85; pl. 1, fig. 14; LATE ALGONKIAN (Puranpur well), Budaun district, Ganga valley, Uttar Pradesh.

Protoleiosphaeridia sp. Nautiyal 1988a: 84-85; pl. 1, figs. 7-10; LATE ALGONKIAN (Tilhar well), Ujhani area, Ganga valley, Uttar Pradesh.

PROTOSPHAERIDIUM Timofeev

Protosphaeridium acis Timofeev. Viswanathiah, Venkatachalapathy & Naresh 1978: 481; pl. 1, fig. 26; MIDDlE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical location not mentioned, Karnataka; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 21; fig. 13; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Protosphaeridium ashaphum, Timofeev. Venkatachalapathy & Basavaraju 1986: 182; pl. 1, figs. 12 & 13; LATE PRECAMBRIAN (Vobalpur Group), Dodguni area, Karnataka.

Protosphaeridium densum Timofeev. Viswanathiah, Venkatachalapathy &. Nanjundaswamy 1976: 401; pl. 2, fig. 3; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka; Maithy & Shukla 1977: 181; pl. 2, fig. 19; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Sah, Maithy & Bhargava 1977: 141; pl. 1, fig. 1; PRECAMBRIAN (Jutogh Formation), Mundlu section, Simla, Himachal Pradesh; Singh, Rawat & Gupta 1978: 100; pl. 1, fig. 5; PRECAMBRIAN (Shali Formation), Gumma and Drang section, Mandi area, Mandi district, Himachal Pradesh; Viswanathiah, Venkatachalapathy & Naresh 1978: 480; pl. 1, fig. 21; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical location not mentioned, Karnataka; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 21; fig. 7; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Chityabhanukot, Jalikatti and Petlur area, Belgaum-Kaladgi districts, Karnataka; Maithy, Venkatachala & Lele 1983: 191; pl. 1, fig. 2; LATE PRECAMBRIAN (Subsurface Vindhyan sediments), Ujhani Deep Well-1 & Ujhani wells 1, 2 & 3, Budaun district, Uttar Pradesh; Viswanathiah, Venkatachalapathy & Shekhar 1984: 88; pl. 1, fig. 2; PRECAMBRIAN

(Cuddapah Supergroup, Gandikota Quartzite), Chennareddipalli-Muddanur area, Andhra Pradesh; Viswanathiah, Venkatachalapathy & Shankara 1984: 79; pl. 2, fig. 4; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka; Viswanathiah, Venkatachalapathy & Raghunath 1984: 52; pl. 1, fig. 5; LOWER RIPHEAN (Kaladgi Supergroup, Salagundi Conglomerate), Bijapur district, Karnataka; Venkatachalapathy & Ravindra 1984: 42; pl. 2, figs. 8, 12; PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka; Maithy & Meena 1989: 183; pl. 1, figs. 31-32; LATE PROTEOZOIC (Bhander Group, Nagod Limestone and Sirbu Shale Formations), Satna-Maihar area, Satna district, Madhya Pradesh; Kumar, Raina, Bhatt, Maithy, Prasad, Babu, Bhargava & Srivastava 1990: 5; fig. 6b; EARLY TOMMOTIAN (Tal Group, Tal Formation), Chert Phosphorite Member, Masrana, Dehradun district, Uttar Pradesh; Prasad & Asher 2001: 114; pl. 10, fig. 2; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Protosphaeridium flexuosum Timofeev. Viswanathiah, Venkatachalapathy & Khadeer 1976a: 393, pl. 1, fig. 3; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 21; fig. 3; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka; Prasad & Asher 2001: 114; pl. 10, fig. 7; MESOPEOTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh;

Protosphaeridium gibberosum Viswanathiah. Venkatachalapathy & Narayana Shetty 1984: 62; pl. 1, figs. 3 & 7; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka; Viswanathiah, Venkatachalapathy & Shankara 1984: 79; pl. 2, fig. 10; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Protosphaeridium granuliferum Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 21; fig. 14; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Protosphaeridium laccatum Timofeev. Viswanathiah, Venkatachalapathy & Khadeer 1976a: 393; pl. 1, fig. 3; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka; Viswanathiah, Venkatachalapathy & Naresh 1978: 481; pl. 1, fig. 27; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical area not mentioned, Karnataka; Prasad & Asher 2001: 114; pl. 10, fig. 8; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Protosphaeridium paleaceum Timofeev. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1976: 401; pl. 2, fig. 14; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka.

Protosphaeridium papyraceum Timofeev. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 470. pl. 1, fig. 23; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka; Viswanathiah, Venkatachalapathy & Narayana Shetty 1984: 62; pl. 1, figs. 5 & 8; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka.

Protosphaeridium parvulum Timofeev. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 21; fig. 1; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Protosphaeridium pateliforme Timofeev. Viswanathiah, Venkatachalapathy & Doddiah 1976: 386; pl. 1, fig. 1; LATE PRECAMBRIAN-EARLY CAMBRIAN (Bhima Group), Gulbarga district, Karnataka; Viswanathiah, Venkatachalapathy & Raghunath 1984: 52; pl. 2, fig. I; LOWER RIPHEAN (Kaladgi Supergroup, Salagundi Conglomerate), Bijapur district, Karnataka; Viswanathiah. Venkatachalapathy & Narayana Shetty 1984: 62; pl. 1, fig. 6; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka; Viswanathiah, Venkatachalapathy & Shekhar 1984: 88; pl. 2, fig. 7; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzite), Chennareddipalli-Muddanur area, Andhra Pradesh; Venkatachalapathy & Shekhar 1986: 194; pl. 1, fig. 6; PRE RIPHEAN-RIPHEAN (Papagini Group, Vempalle Formation), Andhra Pradesh.

Protosphaeridium punctatum Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 21; fig. 5; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Protosphaeridium pusillum Timofeev. Viswanathiah, Venkatachalapathy & Naresh 1978: 481; pl. 1, fig. 22; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical locality not mentioned, Karnataka.

Protosphaeridium reticulatum Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 21; pl. 1, fig. 4; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Protosphaeridium rigidulum Viswanathah, Venkatachalapathy & Nanjundaswamy 1976: 401; pl. 2, fig. 11; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka.

Protosphaeridium scabridum Timofeev. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 21; pl. 2; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Protosphaeridium tuberculiferum Timofeev. Viswanathiah, Venkatachalapathy & Khadeer 1976b: 341; pl. 1, figs. 9 & 13; PRECAMBRIAN (Badami Group, Ramdurg Formation), Karnataka; Viswanathiah, Venkatachalapathy & Nanjundaswamy 1976: 401; pl. 2, fig. 12; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka; Viswanathiah, Venkatachalapathy & Raghunath 1984: 52; pl. 1; fig. 6. LOWER RIPHEAN (Kaladgi Supergroup, Salagundi Conglomerate), Bijapur district, Karnataka; Viswanathiah, Venkatachalapathy & Shankara 1984: 79; pl. 1, fig. 2; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Protosphaeridium volkovae Maithy & Shukla 1977: 180; pl. 2, fig. 18; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh. Nautiyal 1978b: 298; fig. 110; LATE PRECAMBRIAN (Amri Unit), north-eastern Dogadda, Garhwal Himalaya, Uttar Pradesh; Maithy & Meena 1989: 184; pl. 1, figs. 28,-29; LATE PRECAMBRIAN (Bhander Group, Nagod Limestone and Sirbu Shale Formations), Satna-Maihar area, Satna district, Madhya Pradesh.

Protosphaeridium sp. Sastri & Venkatachala 1968: 79; pl. 1, figs. 3-16; PRECAMBRIAN (Ganga valley), Ujhani deep well, Uttar Pradesh.

Protosphaeridium sp. Viswanathiah, Venkatachalapathy &. Nanjudawamy 1976: 401; pl. 2, fig. 7; pl. 1, fig. 5; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka.

Protosphaeridium sp. Sah, Maithy & Bhargava 1977: 141; pl. 1, fig. 1; LOWER CAMBRIAN (Jutogh Formation), Simla hills, Himachal Pradesh.

Protosphaeridium sp. Mathur 1983: 135; pl. 1, figs. 2 & 3; LATE PRECAMBRIAN (Subsurface Pre-unconformity sediments), Puranpur well 2. Ganga Basin, Budaun district, Uttar Pradesh.

Protosphaeridium sp. Timofeev. Kumar, Raina, Bhargava, Maithy & Babu 1984: 212; fig. 3.b; VENDIAN-CAMBRIAN BOUNDARY (Lolab Formation), Lolab valley, Kashmir, northwest Himalaya.

Protosphaeridium sp. Venkatachalapathy & Ravindra 1984: 42; pl. 2, fig. 11; PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka.

Protosphaeridium sp. Viswanathiah, Venkatachalapathy & Shekhar 1984: 88; pl. 1, fig. 1; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzites), Chennareddipalli-Muddanur area, Andhra Pradesh.

Protosphaeridium sp. Dhaundiyal & Moitra 1987: 73; pl.2, fig. 5; MIDDLE RIPHEAN TO EARLY VENDIAN (Baliana Group, Blaini Formation), near Laxmanjhula along Rishikesh-Deoprayag road section, Dehradun district, Uttar Pradesh.

Protosphaeridium sp. Timofeev. Maithy, Babu, Raina & Kumar 1988: 640; fig. 1. 1; LATE PROTEROZOIC (Machhal and Lolab Formations), Putshai-Wanner Section, Lolab valley, Kupwara district, Kashmir Himalaya.

Protosphaeridium sp. Moitra 1999: 70; fig. 64; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Nandini and Hirri Mine sections, Durg district, Madhya Pradesh

PTEROSPERMELLA Eisenack

Pterospermella magnificus Prasad & Asher 2001: 79-80; pl. 6, figs. 10-12, text figs. 14 A-B; pl. 15, figs. 1-2, text figs. 15 A-B; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Pterospermella pseudoreticulatus Prasad & Asher 2001: 79; pl. 15, figs. 1-2; text figs. 15A-B; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

PTEROSPERMOPSIMORPHA Timofeev

Pterospermopsimorpha binata Timofeev. Prasad & Asher 2001: 106; pl. 6, figs. 6 & 8; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Pterospermopsimorpha insoliata Timofeev. Prasad & Asher 2001: 81; pl. 6, figs. 1 & 5; pl. 11, fig. 7; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 26-27; pl. 3, figs. 7, 9; pl. 5, fig. 17; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Pterospermopsimorpha pileiformis Timofeev. Prasad & Asher 2001: 106; pl. 6, figs. 2-3; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Pterospermopsimorpha saccata Rudavaskaya in Rudavaskaya & Timofeev. Prasad & Asher 2001: 81; pl. 6, figs. 4 & 7; pl. 11, figs. 11 & 12; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.; Prasad, Uniyal & Asher 2005: 26; pl. 8, fig. 13; pl. 9, figs. 1, 26; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Pterospermopsimorpha typicus Salujha, Rehman & Arora 1971: 30; pl. 2, figs. 18-19; LATE PRECAMBRIAN (Kaimur Group, Bijaigarh Shale Formation), Son valley, Sidhi district, Madhya Pradesh.

Pterospermopsimorpha sp. Viswanathiah, Venkatachalapathy & Doddiah 1976: 386; pl. 1, fig. 4; LATE PRECAMBRIAN-EARLY CAMBRIAN (Bhima Group), Gulbarga district, Karnataka.

PTEROSPERMOPSIS Wetzel

Pterospermopsis microgranulosum Nautiyal 1988b: 189; pl. 3, figs. 6-8, pl. 5, figs. 11-12; MIDDLE ALGONKIAN (Iron Ore Supergroup), Fagua and Dalki quarries, Keonjhar district, Orissa.

PULVINOMORPHA Timofeev

Pulvinolorpha angulata Timofeev. Sah, Maithy & Bhargava 1977: 141; pl. 1, fig. 7; PRECAMBRIAN (Jutogh Formation), Mundlu section, Simla, Himachal Pradesh.

RETISPHAERIDIUM Staplin et al.

Retisphaeridium dichamerum Staplin et al. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 201; pl. 2, fig. 3; PRECAMBRIAN TO CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), geographical location not mentioned, Karnataka; Viswanathiah, Venkatachalapathy & Khadeer 1976a: 393; pl. 1, fig. 6, ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 23; fig. 30; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Retisphaeridium indicum Venkatachala & Rawat 1973: 32; pl. 1, figs. 17, 18, 23; UPPER PRECAMBRIAN-LOWER CAMBRIAN (Kaladgi Supergroup), Badami, Togunalli-Badami road section, Karnataka.

Retisphaeridium vindhyanensis Maithy 1968: 49; pl. 1, figs. 1-2; PRECAMBRIAN (Kaimur Series, Suket Shale Formation), Chauki village, Ramapura, Neemuch district, Madhya Pradesh.

Retisphaeridium sp. Shrivastava 1972: 9; pl. 1, fig. 5; pl. 2, figs. 10, 11 & 16; SILURIAN-DEVONIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Retisphaeridium sp. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 24; fig. 19; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

SAHARIDIA Combaz

Saharidia downiei Combaz. Prasad & Maithy 1986: 906; figs. 2-3 PRECAMBRIAN (Krol Group, Krol-E Formation), Garhwal Lesser Himalaya, Maldevta section, Dehradun district, Uttar Pradesh.

Saharidia fragilis Combaz.Prasad & Maithy 1986: 906 2; figs. 4 & 5; PRECAMBRIAN (Krol Group, Krol-E Formation), Garhwal Lesser Himalaya, Maldevta section, Dehradun district, Uttar Pradesh.

Saharidia sp. Kumar, Raina, Bhargava, Maithy & Babu 1984: 212; fig. 3 d; VENDIAN-CAMBRIAN BOUNDARY (Lolab Formation), Lolab valley, Kashmir, northwest Himalaya.

SATKA Jankauskas

Satka colonialica Jankauskas. Prasad & Asher 2001: 110; pl. 8, figs. 6, 7 & 15; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 52; pl. 4, figs. 11, 15; pl. 7, figs. 6, 11; pl.

8, fig. 7; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh; Shukla, Babu, Mathur & Srivastava 2005b: 203; pl. 1, figs. 4, 6; TERMINAL PROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2, 26; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh.

Satka squamifera Pyatiletov. Prasad, Uniyal & Asher 2005: 52; pl. 2., fig. 7; pl. 4, figs. 10, 13; pl. 5., figs. 1, 2; pl. 7, fig. 12; pl. 8, fig. 6; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

SATPULISPORA Nautiyal

Satpulispora major Nautiyal 1983a: 79; pl. 1, figs. 15-17, 20-21, text figs. I, J; LATE ALGONKIAN (Semri Group, Porcellanite Stage), locality not mentioned; Nautiyal 1984: 29; pl. 1, figs. 11-12, text figs. 2-3; ALGONKIAN (Thalkedar Limestone Formation), Kumaon Himalaya, Uttar Pradesh.

Satpuliapora microreticulata Nautiyal 1983a: 79; pl. 1, figs. 9-11, 19-21, text fig. 11; LATE ALGONKIAN (Semri Group, Porcellanite Stage), locality not mentioned; Nautiyal 1984: 28; pl. 1, figs. 5-7, text figs. 2-3; ALGONKIAN (Thalkedar Limestone Formation), Satpuli, Uttar Pradesh.

Satpulispora minuta Nautiyal 1983a: 79; pl. 1, figs. 12-14, 19-21, text fig. 1. K, L; LATE ALGONKIAN (Semri Group, Porcellanite stage), locality not mentioned; Nautiyal 1984: 28; pl. 1, figs. 8-10; text figs. 2-3; ALGONKIAN (Sor Slate), Pithoragarh, Uttar Pradesh.

Satpulispora psilata Nautiyal 1983a: 78; pl. 1, figs. 18-22, text fig. 1 H; LATE ALGONKIAN (Semri Group, Porcellanite Stage), locality not mentioned; Nautiyal 1984: 28; pl. 1, figs. 1-4; text figs. 2-3; ALGONKIAN (Thalkedar Limestone Formation), Satpuli, Uttar Pradesh.

Satpulispora sp. A Nautiyal 1984: 29; pl. 1, figs. 13-14, text figs. 2-3; ALGONKIAN (Sor Slate), Kumaon Himalaya, Uttar Pradesh.

SCAPHITA Timofeev

Scaphita enisecia Timofeev. Viswanathiah, Venkatachalapathy & Raghunath 1984: 53; pl. 2, fig. 6; LOWER RIPHEAN (Kaladgi Supergroup, Salagundi Conglomerate), Bijapur district, Karnataka.

SCHISMATOSPHAERIDIUM Staplin et al.

Schismatosphaeridium bhimae Venkatachala & Rawat 1972: 110; pl. 1, figs. 11-12; LATE PRECAMBRIAN (Bhima Group), Talikote-Gulbarga section, Karnataka; Nautiyal 1978a: 266; pl. 1, figs. 11, 12; PRECAMBRIAN (Gangolihat Dolomites Formation), Kumaon Himalaya, Pithoragarh district, Uttar Pradesh; Viswanathiah, Venkatachalapathy & Doddiah 1979: 18; pl. 1, fig. 1; LATE PRECAMBRIAN (Bhima Supergroup), Sahabad, Karnataka.

Schismatosphaeridium faveolatum Umnova. Viswanathiah, Venkatachalapathy & Shekhar 1984: 89; pl. 2, fig. 8; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzites), Chennareddipalli-Muddanur area, Andhra Pradesh.

Schismatosphaeridium Kumaunii Nautiyal 1978a: 265; figs. 34-35; PRECAMBRIAN (Gangolihat Dolomites Formation), Bans, Pithoragarh district, Uttar Pradesh.

Schismatosphaeridium perforatum Staplin et al., Viswanathiah, Venkatachalapathy & Shekhar 1984: 89; pl. 1, fig. 6; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzites), Chennareddipalli-Muddanur area, Andhra Pradesh; Viswanathiah, Venkatachalapathy & Raghunath 1984: 53; pl. 2, fig. 13; LOWER RIPHEAN (Kaladgi Group, Salagundi Conglomerate,), Bijapur district, Karnataka.

Schismatosphaeridium verrucosum Venkatachala & Rawat 1973: 31; pl. 1, fig. 25; UPPER PRECAMBRIAN-LOWER CAMBRIAN (Kaladgi Supergroup), Bagalkot-Badami-Ramdurg road section on Cliff in Pattadakalkeudur road, near Bhadraraikanjalihalla, Karnataka.

Schismatosphaeridium sp. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 201; pl. 1, fig. 12; PRECAMBRIAN-CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), detailed geographical location not mentioned, Karnataka.

Schismatosphasphaeridum sp. Venkatachalapathy & Shekhar 1986: 192; pl. 1, fig. 2; PRE RIPHEAN-RIPHEAN (Papagini Group, Vempalle Formation), Andhra Pradesh.

SPUMIOSA Naumova

Spumiosa alara Rudvaskaya. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 202; pl. 2, fig. 6; PRECAMBRIAN TO CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), detailed geographical location not mentioned, Karnataka.

STENOZONOTRILETES (Naumova) Potonié

Stenozonotriletes sp. Shrivastava 1972: 6; pl. 1, fig. 1; SILURIAN-DEVONIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

STICTOSPHAERIDIUM Timofeev

Stictosphaeridium brayense Gardiner & Vanguestainé. Viswanathiah, Venkatachalapathy & Nanjundaswamy, 1976: 402; pl. 1, fig. 12; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka.

Stictosphaeridium implexum Timofeev. Prasad, Uniyal & Asher 2005: 25; pl. 7, fig. 14; pl. 8, fig. 5; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Stictosphaeridium sinapticuliferum Timofeev. Viswanathiah, Venkatachalapathy & Naresh 1978: 480; pl. 1, fig. 17; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical location not mentioned, Karnataka; Misra & Singh 1981: 365; figs. 1-4; UPPER PROTEROZOIC; Dharamsala, Himachal Pradesh; Prasad, Uniyal & Asher 2005: 22, 26; pl. 5, figs. 13; pl. 8, fig. 4; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Stictosphaeridium tortulosum Timofeev. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 22; fig. 17; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Stictosphaeridium sp. Viswanathiah, Venkatachalapathy & Shankara 1984: 79; pl. 2, fig. 3; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Stictosphaeridium sp. Timofeev. Kumar, Raina, Bhargava, Maithy & Babu 1984: 212; fig. 3c; VENDIAN-CAMBRIAN BOUNDARY (Lolab Formation), Lolab valley, Kashmir, northwest Himalaya.

SULCATOSPHAERIDIUM Umnova & Yakolev

Sulcatosphaeridium incomptum Umnova & Yakolev. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978: 469; pl. 1, fig. 25; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka.

SYMPLASSOSPHAERIDIUM Timofeev

Symplassosphaeridium biglume Rudavskaya in Rudavskaya & Timofeev. Viswanathiah, Venkatachalapathy & Shankara 1984: 78; pl. 1, fig. 7; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka; Venkatachalapathy & Mahesh Bilwa 1986: 188; pl. 1, fig. 1; PRECAMBRIAN (Kaladgi Group, Mudhol Formation), Bagalkot town, Bijapur district, Karnataka.

Symplassosphaeridium bulbosum Maithy & Shukla 1977: 181; pl. 2, fig. 20; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Symplassosphaeridium bushimayense Maithy. Maithy & Babu 1993: 45; pl. 1, fig. 6; LATE RIPHAEAN TO VENDIAN (Bhander Group, Ganurgarh Shale Formation), near Midghat Railway station, Bhopal district, Madhya Pardesh.

Symplassosphaeridium incrustatum Timofeev. Viswanathiah, Venkatachalapathy & Narayana Shetty 1984: 64; pl. 1, fig. 15; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka; Viswanathiah, Venkatachalapathy & Shekhar 1984: 90; pl. 1, fig. 14; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzite), Chennareddipalli-Muddanur area, Andhra Pradesh; Viswanathiah, Venkatachalapathy & Shankara 1984: 78; pl. 1, fig. 9; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka; Venkatachalapathy & Mahesh Bilwa 1986: 188; pl. 1, fig. 3; PRECAMBRIAN (Kaladgi Group, Mudhol Formation), Bagalkot town, Bijapur district, Karnataka.

Symplassosphaeridium subcoalistum Timofeev. Venkatachalapathy & Mahesh Bilwa 1986: 188; pl. 1, fig. 2; PRECAMBRIAN (Kaladgi Group, Mudhol Formation), Bagalkot town, Bijapur district, Karnataka.

Symplassosphaeridium tumidulum Timofeev. Prasad, Uniyal & Asher 2005: 22, 26; pl. 4, fig.

9; pl. 5, fig. 3; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Symplassosphaeridium sp. A Salujha, Rehman & Rawat 1971: 72; pl. 1, fig. 9; LATE CAMBRIAN TO ORDOVICIAN (Bhander Group, Bhander Sandstone Formation), Mandral-Karauli area, Rajasthan.

? **Symplassosphaeridium sp. B** Salujha, Rehman & Rawat 1971: 73; pl. 1, fig. 10; LATE CAMBRIAN TO ORDOVICIAN (Bhander Group, Bhander Sandstone Formation), Mandral-Karauli area, Rajasthan.

Symplassosphaeridium sp. Viswanathiah, Venkatachalapathy & Nanjundaswamy. 1976: 404; pl. 1, fig. I; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka.

Schismatosphasphaeridum sp. Venkatachalapathy & Shekhar 1986: 192; pl. 1, fig. 2; PRE RIPHEAN-RIPHEAN (Papagini Group, Vempalle Formation), Andhra Pradesh.

Symplassosphaeridium sp. Venkatachalapathy & Mahesh Bilwa 1986: 188; pl. 1, fig. 8; PRECAMBRIAN (Kaladgi Group, Mudhol Formation), Bagalkot town, Bijapur district, Karnataka.

Symplassosphaeridium sp. Nautiyal 1988a: 84-85; pl. 1, figs. 23-24; LATE ALGONKIAN (Tilhar well), Ujhani area, Ganga valley, Uttar Pradesh.

SYNSPHAERIDIUM Timofeev

Synsphaeridium conglutinatum Timofeev. Viswanathiah, Venkatachalapathy & Shankara 1984: 78; pl. 1, fig. 12; ORDOVICIAN TO SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Synsphaeridium gotlandicum Eisenack. Prasad, Uniyal & Asher 2005: 26; pl. 9, figs. 13-14, 21; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Synsphaeridium sorediforme (Timofeev) Eisenack. Prasad & Asher 2001: 110, 118; pl. 8, figs. 1-3, 8; pl. 12, fig. 17; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 21, 22, 26; pl. 2, fig. 17; pl. 4, fig. 8; pl. 9, figs. 8, 9, 18, 22; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Synsphaeridium sp A. Nautiyal 1988b: 187; pl. 3, fig. 5, text fig. 3 D; MIDDLE ALGONKIAN (Iron Ore Supergroup), Fagua and Dalki quarries, Keonjhar district, Orissa.

Synsphaeridium sp. Viswanathiah, Venkatachalapathy & Doddiah 1979: 20; pl. 1, fig. 10; LATE PRECAMBRIAN (Bhima Supergroup), Hulagbal, near Talikote, Karnataka.

Synsphaeridium sp. Viswanathiah & Venkatachalapathy 1980: 16; pl. 1, fig. 2; EARLY PROTEROZOIC (Dharwar Supergroup, Bababudan Iron Formation), Shimoga schist Belt, Dharwar, Karnataka.

Synsphaeridium sp. Viswanathiah, Venkatachalapathy & Shankara 1984: 78; pl. 1, fig. 14; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Synsphaeridium sp. Viswanathiah, Venkatachalapathy & Shekhar 1984: 90; pl. 1 & 2, figs. 13 & 14; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzite), Chennareddipalli-Muddanur area, Andhra Pradesh.

Synsphaeridium sp. Venkatachalapathy & Shekhar 1986: 192; pl. 1, fig. 8; PRE RIPHEAN-RIPHEAN (Papagini Group, Vempalle Formation), Andhra Pradesh.

Synsphaeridium sp. Prasad, Uniyal & Asher 2005: 48; pl. 9, fig. 15; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

TAPPANIA Yin

Tappania gangaei Prasad & Asher 2001: 74; pl. 2, figs. 8 & 10; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 19; pl. 3, fig. 15; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Tappania plana Yin. Prasad & Asher 2001: 73; pl. 2, figs. 1-3 & 9; pl. 3, figs. 1-6; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 42; pl. 2, figs. 6; pl. 3, figs. 2, 5; pl. 5, figs. 10,11; pl. 6 fig. 11; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Tappania tubata Yin. Prasad & Asher 2001: 74; pl. 2, figs. 4-7; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 42; pl. 2, fig. 5; pl. 3, figs.

1, 3, 4; pl. 6, figs. 12-13; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

TETROIDES Cramer

Tetroides sp. Venkatachalapathy & Ravindra 1984: 44; pl. 1, fig. 4; pl. 2, fig. 6; PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka.

TOROFORMIS Lopukhin

Toroformis stratolus Lopukhin. Viswanathiah, Venkatachalapathy & Doddiah 1976: 387; pl. 1, fig. 13; LATE PRECAMBRIAN TO EARLY CAMBRIAN (Bhima Supergroup), Gulbarga district, Karnataka.

TRACHYHYSTRICHOSPHAERA German

Trachyhystrichosphaera truncata Hofmann & Jackson. Prasad & Asher 2001: 14; pl. 10, figs. 3-4; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 44; pl. 6, fig. 3; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Trachyhystrichosphaera vidalii Knoll. Shukla, Babu, Mathur & Srivastava 2005b: 199; pl. 1, fig. 1; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal; Tiwari & Pant 2004: 1737; pl. 3, figs. r, r'; NEOPROTEROZOIC (Gangolihat Dolomite Formation), Jhiroli Magnesite Mine, Lesser Himalaya.

Trachyhystrichosphaera sp. Tiwari & Pant 2004b: 1737; pl. 3, figs. p, q; NEOPROTEROZOIC (Gangolihat Dolomite Formation), Jhiroli Magnesite Mine, Lesser Himalaya.

TRACHYSPHAERIDIUM Timofeev

Trachysphaeridium attenuatum Timofeev. Viswanathiah, Venkatachalapathy & Khadeer 1976a: 392; pl. 2, figs. 30, 31; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka; Shukla, Tewari, Babu & Sharma 2006: 66; pl. 2, fig. 19; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Trachysphaeridium dalkiensis Nautiyal 1988b: 187; pl. 5, figs. 3-10, text figs. 3 E-I; MIDDLE ALGONKIAN (Iron Ore Supergroup), Fagua and Dalki quarries, Keonjhar district, Orissa.

Trachysphaeridium decorum Venkatachala, Bhandari, Chaube & Rawat 1974: 32; pl. 2, fig. 29; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist belt), Dharwar district, Karnataka; Nautiyal 1980: 8, figs. 1 V, W; MIDDLE PRECAMBRIAN (Gangolihat Dolomite Formation), Bans, Pithoragarh district, Uttaranchal.

Trachysphaeridium laminaritum (Timofeev) Vidal. Prasad & Asher 2001: 114; pl. 1, fig. 8; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 38; pl. 6, fig. 1; pl. 8, fig. 11; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Trachysphaeridium laufeldii Vidal. Prasad, Uniyal & Asher 2005: 38; pl. 7, fig. 13; pl. 11, fig. 8; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Trachysphaeridium leves (Lopukhin) Vidal. Prasad & Asher 2001: 116; pl. 11, fig. 10; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Trachysphaeridium sp. A Venkatachala & Rawat 1973: 32; pl. 1, fig. 21; UPPER PRECAMBRIAN-LOWER CAMBRIAN (Kaladgi Supergroup), Gokak-Yaragatti-Bagalkot road traverse, Karnataka; Nautiyal 1990: 185; pl. 2, fig. 5; MIDDLE PROTEROZOIC (Tejam Group, Gangolihat Dolomite Formation), Pithoragarh in Kumaon and Satpuli in Garhwal, Uttar Pradesh .

Trachysphaeridium sp. B Venkatachala & Rawat 1973: 32; pl. 1, figs. 15. 19, 20; UPPER PRECAMBRIAN TO LOWER CAMBRIAN (Kaladgi Supergroup), Gokak-Yaragatti-Bagalkot road traverse, Karnataka.

Trachysphaeridium sp. Venkatachala, Bhandari, Chaube & Rawat 1974: 32; pl. 2, figs. 31,41; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist belt), Karnataka.

Trachysphaeridium sp. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975:

201; pl. 2, fig. 5; PRECAMBRIAN-CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), detailed geographical location not mentioned, Karnataka.

Trachysphaeridium sp. Viswanathiah, Venkatachalapathy & Mahalakshmanuna 1980: 22; fig. 9; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Trachysphaeridium sp. Dhaundiyal & Moitra 1987: 73; pl. 1, figs. 1, 6; MIDDLE RIPHEAN TO EARLY VENDIAN (Baliana Group, Blaini Formation), near Laxmanjhula along Rishikesh-Deoprayag road section, Dehradun district, Uttar Pradesh.

Trachysphaeridium sp. Kumar & Srivastava 1991: 514; pl. 1, figs. A-D; MESOPROTEROZOIC (Semri Group), Chitrakoot area, Banda district, Uttar Pradesh.

Trachysphaeridium sp. Kumar & Srivastava 1995; 104; fig. 11; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh.

Trachysphaeridium sp. Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 2, fig. 17; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Trachysphaeridium sp. 1 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 1, figs. 1-2; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Trachysphaeridium sp. 2 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 1, fig. 10; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Trachysphaeridium sp. 3 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 2, fig. 10; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Trachysphaeridium sp. 4 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 2, fig. 11; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Trachysphaeridium sp. 5 Shanmukhappa, Singh & Poovendan 1996: 542-544; pl. 2, fig. 12; PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera well-1, Madhya Pradesh.

Trachysphaeridium sp. Srivastava & Kumar 1997: 146; fig. 4 l; NEOPROTEROZOIC (Deoban Formation), Deoban hill, Chakrata area, Dehradun district, Uttar Pradesh.

Trachysphaeridium sp. Moitra 1999: 70; fig. 65; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Akoli Mine section, Durg district, Madhya Pradesh.

TREMATOSPHAERIDIUM Timofeev

Trematosphaeridium bhimae Salujha, Rehman & Arora 1972a: 11; pl. 1, figs. 4-8; PRECAMBRIAN (Bhima Series), Gulbarga, Karnataka; Viwanathiah, Venkatachalapathy & Doddiah 1976: 385; pl. 1, fig. 12; LATE PRECAMBRIAN-EARLY CAMBRIAN (Bhima Group), Gulbarga district, Karnataka.

Trematosphaeridium decoratum Timofeev. Venkatachalapathy & Shekhar 1986: 195; pl. 1, fig. 2; PRE RIPHEAN-RIPHEAN (Papagini Group, Vempalle Formation), Andhra Pradesh.

Trematosphaeridium inspissatum Salujha, Rehman & Arora 1971: 28; pl. 3, figs. 14, 15, 16, 17; MIDDLE PROTEROZOIC (Vindhyan Supergroup), Son valley, Sidhi district, Madhya Pradesh; Viswanathiah, Venkatachalapathy & Doddiah 1979: 18; pl. 1, fig. 13; LATE PRECAMBRIAN (Bhima Supergroup), Muddebihal area, Karnataka.

Trematosphaeridium sp. Salujha, Rehman & Arora 1972a: 12; pl. 1, fig. 9; PRECAMBRIAN (Bhima Series), Gulbarga, Karnataka.

Trematosphaeridium sp. Viswanathiah, Venkatachalapathy & Naresh 1978: 480; pl. 1, fig. 16; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical locality not mentioned, Karnataka.

Trematosphaeridium sp. Srinivasa & Gowda 1978: 153; pl. 1, fig. 14; PROTEROZOIC (Bhima Group), Gulbarga district, Karnataka.

Trematosphaeridium sp. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 23; fig. 24; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

TRIANGUMORPHA Xing

Triangumorpha sp. Dhaundiyal & Moitra 1987: 73; pl. 1, fig. 3; MIDDLE RIPHEAN TO EARLY VENDIAN (Baliana Group, Blaini Formation), near Laxmanjhula along Rishikesh-Deoprayag road section, Dehradun district, Uttar Pradesh.

TRILTES Potonié

Triltes sp. Sastri & Venkatachala 1968: 79; pl. 1, figs. 19-21; PRECAMBRIAN (Ganga valley), Ujhani deep well, Uttar Pradesh.

TURUCHANICA Rudavskaya

Turuchanica alara Rudavskaya. Viswanathiah, Venkatachalapathy & Naresh 1978: 480; pl. 1, fig. 20; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical locality not mentioned, Karnataka.

UNIPORATA Naumova in Pykhova

Uniporata sp. Srinivasa & Gowda 1978: 151-153; pl. 2, figs. 4, 7; PROTEROZOIC (Bhima Group), Gulbarga district, Karnataka.

Uniporata sp. B Suresh & Gowda 1981: 132; pl. 2, fig. 6; LATE PROTEROZOIC (Bhima Supergroup), Ganurthi, Gulbarga district, Karnataka.

VALERIA Jankauskas

Valeria lophostriata Jankauskas. Prasad & Asher 2001: 110; pl. 8, figs. 8, 9, 11; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

VANDALOSPHAERIDIUM Vidal

Vandalosphaeridium reticulatum Vidal. Prasad & Asher 2001: 116; pl. 11, figs. 6 & 8, MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar pradesh; Prasad, Uniyal & Asher 2005: 42; pl. 6, figs. 5-6; pl. 9, figs. 23; pl. 11 figs. 12-13; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2. 2; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh; Shukla, Tewari, Babu & Sharma 2006: 67; pl. 2, fig. 16; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Vandalosphaeridium varangeri Vidal. Prasad, Uniyal & Asher 2005: 42; pl. 6, fig. 7; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

VAVOSOSPHAERIDIUM Timofeev

This is a misspelling of Vavososphaeridium Timofeev

Vavososphaeridium bharadwajii Salujha, Rehman & Arora 1971: 26; pl. 3, figs. 4, 5, 6; MIDDLE PROTEROZOIC (Vindhyan Supergroup), locality not mentioned; Salujha, Rehman & Rawat 1971: 69; pl. 1, figs. 1-3; LATE CAMBRIAN TO ORDOVICIAN (Bhander Group, Bhander Sandstone Formation), Mandral-Karauli area), Rajasthan; Maithy & Meena, 1989: 184; pl. 1 fig. 26; LATE PRECAMBRIAN (Bhander Group, Nagod Limestone and Sirbu Shale Formations), Satna-Maihar area, Satna district, Madhya Pradesh; Maithy & Babu 1993: 45; pl. 1, fig. 7; LATE RIPHAEAN TO VENDIAN (Bhander Group, Ganurgarh Shale Formation), near Midghat Railway station, Bhopal district, Madhya Pardesh; Maithy & Babu 1998: 2; pl. 1, fig. 3; EARLY NEOPROTEROZOIC (Kaimur Group, Bijaigarh Shale Formation), Markundi hill, Chopan area, Mirzapur district, Uttar Pradesh.

Vavososphaeridium reticulatum Salujha, Rehman & Arora 1972a: 12; pl. 1, figs. 14-16; LATE PRECAMBRIAN TO CAMBRIAN (Bhima Series), Gulbarga, Karnataka; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 201; pl. 1, fig. 9, PRECAMBRIAN-CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), detailed geographical location is not mentioned, Karnataka.

Vavososphaeridium vindhyanense Maithy & Shukla 1977: 181; pl. 4, fig. 27; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Maithy, Venkatachala & Lele 1983: 191; pl. 1, fig. 8; LATE PRECAMBRIAN (Subsurface Vindhyan sediments), Ujhani Deep well-1, Ujhani wells 1, 2, & 3, Budaun district, Uttar Pradesh.

Vavososphaeridium sp A. Nautiyal 1982: 275; fig. 6; PRECAMBRIAN (Simla Group), Himachal Pradesh.

Vavososphaeridium sp. Salujha, Rehman & Rawat 1971: 69; pl. 1, fig. 4; LATE CAMBRIAN TO ORDOVICIAN (Bhander Group, Bhander Sandstone Formation), Mandral-Karauli area, Rajasthan.

Vavososphaeridium sp. Salujha, Rehman & Arora 1971: 26; pl. 3, fig. 7; MIDDLE PROTEROZOIC (Vindhyan Supergroup), locality not mentioned, Son valley, Uttar Pradesh.

Vavososphaeridium sp. Salujha, Rehman & Arora 1972a: 13; pl. 1, fig. 17; LATE PRECAMBRIAN TO CAMBRIAN (Bhima Series), Gulbarga, Karnataka.

Vavososphaeridium sp. Mathur 1983: 135; pl. 1, figs. 4-5; LATE PRECAMBRIAN (Subsurface Pre-unconformity sediments), Puranpur well No. 2, Ganga Basin, Budaun district, Uttar Pradesh.

Vavosphaeridium sp. Nautiyal 1988a: 84-85; pl. 1, figs. 11-13; LATE ALGONKIAN (Puranpur well), Budaun district, Ganga valley, Uttar Pradesh.

VERYHACHIUM (Deunff) Downie & Sarjeant

Veryhachium sp. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 24; fig. 18; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Veryhachium sp. Singh, Rawat & Gupta 1978: 100; pl. 1, fig. 17; PRECAMBRIAN (Shali Formation), Gumma and Drang section, Mandi area, Mandi district, Himachal Pradesh.

Veryhachium sp. Viswanathiah, Venkatachalapathy & Sekhar 1984: 90; pl. 2, fig. 6; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzite), Chennareddipalli-Maudanur area, Andhra Pradesh.

Veryhachium sp. Dhaundiyal & Moitra 1987: 73; pl. 2, fig. 6; MIDDLE RIPHEAN TO EARLY VENDIAN (Baliana Group, Blaini Formation), near Laxmanjhula along Rishikesh-Deoprayag road section, Dehradun district, Uttar Pradesh.

Veryhachium sp. Tiwari 1996b: 719; fig. 2; TERMINAL PROTEROZOIC (Korgai Syncline), Solan district, Himachal Pradesh.

ZONOSPHAERIDIUM Timofeev

Zonosphaeridium dignatum Salujha, Rehman & Rawat 1971: 77; pl. 1, figs. 27-29; LATE CAMBRIAN TO ORDOVICIAN (Bhander Group, Sirbu Shale Formation), Chambal valley area, Rajasthan.

Zonosphaeridium punctatum Maithy & Shukla 1977: 182; pl. 4, fig. 28; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Maithy, Venkatachala & Lele 1983: 191; pl. 1, figs. 13-14; LATE PRECAMBRIAN (Subsurface Vindhyan sediments), Ujhani Deep well-1, Ujhani wells-1, 2 & 3, Budaun district, Uttar Pradesh.

Zonosphaeridium sp A. Viswanathiah, Venkatachalapathy & Khadeer 1976a: 395; pl. 1, figs. 5, 14; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka.

Zonosphaeridium sp. Salujha, Rehman & Arora 1971: 31; pl. 3, figs. 27 & 28; MIDDLE PROTEROZOIC (Vindhyan Supergroup), locality not mentioned, Sidhi district, Madhya Pradesh.

Zonosphaeridium sp. Mathur 1983: 135; pl. 1, figs. 7 & 8; LATE PRECAMBRIAN (Subsurface Pre-unconformity sediments), Puranpur well 2, Ganga Basin, Budaun district, Uttar Pradesh.

Zonosphaeridium sp. Nautiyal 1988a: 84-85; pl. 1, fig. 11; LATE ALGONKIAN (Puranpur well), Budaun district, Ganga valley, Uttar Pradesh.

ZOSTEROSPHAERA Viswanathiah & Venkatachalapathy

Zosterosphaera sp. Viswanathiah & Venkatachalapathy 1980: 9; pl. 1, fig. I; EARLY PROTEROZOIC (Dharwar Supergroup, Bababudan Iron Formation), Shimoga Schist Belt, Dharwar district, Karnataka.

ALGAL MICROREMAINS

Algal filament type 1 Venkatachala & Rawat 1972: 111; pl. 1, figs. 16-17; LATE PRECAMBRIAN (Bhima Group), Talikote-Gulbarga section, Gulbarga district, Karnataka.

Algal filament type 2 Venkatachala & Rawat 1972: 111; pl. 1, fig. 14; LATE PRECAMBRIAN (Bhima Group), Talikote-Gulbarga section, Gulbarga district, Karnataka.

Algal filament A Dhaundiyal & Moitra 1987: 73; pl. 2, fig. 3; MIDDLE RIPHEAN TO EARLY VENDIAN (Baliana Group, Blaini Formation),

near Laxmanjhula along Rishikesh-Deoprayag road section, Dehradun district, Uttar Pradesh.

Algal sheath type A Nautiyal 1988b: 192; pl. 4, fig. 8, text fig. 3 Y; MIDDLE ALGONKIAN (Iron Ore Supergroup), Fagua and Dalki quarries, Keonjhar district, Orissa.

Algal sheath type B Nautiyal 1988b: 192; pl. 4, fig. 7, text fig. 3 Z; MIDDLE ALGONKIAN (Iron Ore Supergroup), Fagua and Dalki quarries, Keonjhar district, Orissa.

ANIMIKIEA (Barghoorn) Mandal *et* al.

Animikiea beltensis Horodyski. Mandal, Maithy, Barman & Verma 1984**:** 9; pl. and figs. not mentioned; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan.

Animikiea indica Nautiyal. Mandal, Maithy, Barman & Verma 1984**:** 9; pl. & figs. not mentioned; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan.

Animikiea punctata (Maithy) Mandal, Maithy, Barman & Verma 1984**:** 8; pl. and figs. not mentioned; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan.

Animikiea septata Barghoorn. Mandal, Maithy, Barman & Verma 1984**:** 8; pl. 1, fig. 8; pl. 2, fig. 16; pl. 3, figs. 18-19; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan; Shukla, Tewari & Yadav 1986**:** 349; pl. 1, fig. 21; LATE PRECAMBRIAN (Deoban Limestone Formation), Chakrata area, Dehradun district, Uttar Pradesh; Maithy & Meena 1989**:** 183; pl. 1 figs. 8-9; NEOPROTEROZOIC (Bhander Group, Nagod Limestone and Sirbu Shale Formations), Satna-Maihar area, Satna district, Madhya Pradesh; Venkatachala, Shukla, Bansal & Acharyya 1990**:** 34; pl. 1, fig. 8; UPPER PROTEROZOIC (Krol Group, Infra Krol Formation), Nainital Syncline, Kumaon Himalaya, Uttar Pradesh.

Animikiea sp. Kumar, Raina, Bhargava, Maithy & Babu 1984**:** 215; fig. 3.h; VENDIAN-CAMBRIAN BOUNDARY (Lolab Formation), Lolab valley, Kashmir, northwest Himalaya.

Animikiea sp. Mandal *et* al. Maithy, Babu, Raina & Kumar 1988**:** 641; pl. 1, figs. 1.14; LATE PROTEROZOIC (Machhal and Lolab Formations), Putshai-Wanner section, Lolab valley, Kupwara district, Kashmir Himalaya.

APHANOCAPSAOPSIS Maithy & Shukla

Aphanocapsaopsis ramapurensis Maithy & Shukla 1977**:** 179; pl. 1, figs. 10-11; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Aphanocapsaopsis sitholeyii Maithy & Shukla 1977**:** 179; pl. 1, figs. 8-9; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Maithy & Gupta 1983**:** 159; pl. 1, fig. 7; PRECAMBRIAN (Semri Group, Bhagwar Shale Formation), Chandrehi, Madhya Pradesh; Nautiyal 1983b**:** 176; pl. 1, figs. 10-18; UPPER TO MIDDLE ALGONKIAN (Semri Group, Kajrahat Formation), north of Kajrahat, Dala, Mirzapur district, Uttar Pradesh; Nautiyal 1984**:** 33; pl. 1, figs. 29-31; ALGONKIAN (Semri Group, Kajrahat Limestone Formation), north of Kajrahat, Son valley, Mirzapur district, Uttar Pradesh.

ARCHAEOELLIPSOIDES Horodyski & Donaldson

Archaeoellipsoides grandis Horodyski. Nautiyal 1985**:** 64; pl. 1, figs. 10-11, text-figs. 2 j-k; MIDDLE ALGONKIAN (Simla Group, Basantpur Formation), Naldera, 9 km NNE of Simla Himalaya, Himachal Pradesh; Nautiyal 1986a**:** 9; pl. 2, fig. 32, text-fig. 3b; MIDDLE PROTEROZOIC (Semri and Kaimur Groups), Sangrampur hill, Chitrakut, Banda district, Uttar Pradesh; Nautiyal 1990; 185; pl. 2, figs. 27-28; MIDDLE PROTEROZOIC (Tejam Group, Thalkedar Limestone, Formation), Pithoragarh in Kumaon and Satpuli in Garhwal, Uttar Pradesh .

Archaeoellipsoides major Golovenok & Belova. Kumar & Venkatachala 1998**:** 64, fig. 6g; LATE PROTROZOIC (Vaishnodevi Limestone Formation), Riasi Inlier, Riasi area, Jammu; Srivastava & Kumar 2003**:** 24; pl. 1 fig. 5; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya.

Archaeoellipsoides minor Sergeev et al., Kumar & Venkatachala 1998**:** 64, fig. 6-o; NEOPROTEROZOIC (Vaishnodevi Limestone Formation), Raise Inlier, Raise area, Jammu and Kashmir Srivastava & Kumar 2003**:** 24; pl. 1 fig. 6; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal.

Archaeoellipsoides sp. Kumar & Srivastava 1995**:** 99; figs. 8-H; 11-I, J, M; 12-J, MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh.

Archaeoellipsoides sp. Rai & Gautam 1998: 544; fig. 3t; NEOPROTEROZOIC (Shali Group, Khatpul Formation), Mandi district, Himachal Pradesh.

ARCHAEOPHYCUS Fuxing et al.

Archaeophycus sp. Srivastava & Kumar 2003**:** 21; pl. 1, fig. 7; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya. Uttaranchal.

ARCHAEORESTIS Barghoorn

Archaeorestis minuta Nautiyal 1980**:** 7; fig. I; MIDDLE PRECAMBRIAN (Gangolihat Dolomite Formation), Bans, Pithoragarh, Uttar Pradesh.

Archaeorestis achrieberenaia Barghoorn. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980**:** 32; fig. 28; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Archaerestis faguaensis Nautiyal 1988b: 190; pl. 4, figs. 4-5, text figs. 3 U, W; MIDDLE ALGONKIAN (Iron Ore Supergroup), Fagua and Dalki quarries, Keonjhar district, Orissa.

Archaeorestis sp. Nautiyal 1978a**:** 265; fig. 21; PRECAMBRIAN (Gangolihat Dolomite Formation), Pithoragarh district, Uttar Pradesh.

Archaeorestis sp. Maithy & Mandal 1983**:** 134; pl. 1, fig. 11; LATE PROTEROZOIC (Bhander Group, Sirbu Shlae Formation), Karisal bandh, Karauli-Sapotra region, northeastern Rajasthan.

ARCHAEOSPHAEROIDES Schopf & Barghoorn

Archaeosphaeroides barbertonensis Schopf. Puranik 1981**:** 124; text figs. 1-2; PRECAMBRIAN (Gadag Schist Belt), Karnataka.

Archaeosphaeroides sp. Viswanathiah & Venkatachalapathy 1980**:** 19; pl. 1, fig. 2; EARLY PROTEROZOIC (Shimoga Schist Belt, Bababudan Iron Formation), Dharwar, Karnataka.

ARCHAEOTRICHION Schopf

Archaeotrichion septatum Schopf. Maithy, Kumar & Babu 2000**:** 100; fig. 3.4; ARCHAEAN (Iron Ore Group), Kashia Mine, 6 km west of Barbil, Orissa.

Archaeotrichion sp. Shukla, Tewari & Yadav 1986**:** 350; pl. 1, fig. 7; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

Archaeotrichion sp. Sarkar 1989: 36; pl. 2, fig. 9; PRECAMBRIAN (Banded Iron Formation), Noamundi Basin, Bihar.

Archaeotrichion sp. Kumar & Srivastava 1992b: 372; fig. 3-a; MIDDLE PROTEROZOIC (Semri Group, Bhagwanpura Limestone Formation), Chittorgarh area, Rajasthan.

Archaeotrichion sp. Rai & Gautam 1998: 544; fig. 3i; NEOPROTEROZOIC (Shali Group, Khatpul Formation), Mandi district, Himachal Pradesh.

ARCTACELLULARIA German

Arctacellularia tetragonala (Maithy) Hofmann & Jakson. Prasad & Asher 2001**:** 108; pl. 7, figs. 1-3; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh.

Arctacelluaria sp. Venkatachala & Kumar 1996**:** 553; pl. 1, fig. 2; LATE RIPHEAN-EARLY VENDIAN (Jammu Limestone Formation), Riasi-Katra area, Jammu and Kashmrir.

BACTROPHYCUS Zhang

Bactrophycus oblongum Zhang. Kumar & Srivastava 1995**:** 102; fig. 8J; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh.

Bactrophycus sp. Rai & Gautam 1998: 544; figs. 3p, 3s; NEOPROTEROZOIC (Shali Group, Khatpul Formation), Mandi district, Himachal Pradesh.

BAVLINELLA Shepeleva

Bavlinella faveolata (Shepeleva) Vidal. Viswanathiah, Venkatachalapathy & Naresh 1978**:** 479; pl. 1, fig. 15; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), Karnataka, geographical detailed not mentioned; Suresh & Gowda 1981**:** 130; pl. 2, fig. I; LATE PROTEROZOIC (Bhima Supergroup), Ganurthi, Gulbarga district, Karnataka; Venkatachalapathy & Basavaraju, 1986: 182; pl. 1, fig. 3; LATE PRECAMBRIAN (Vobalpur Group), Dodguni area, Karnataka; Tiwari 1996b: 564; pl. 2, figs. 6, 7; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh; Shukla, Babu, Mathur & Srivastava 2005b: 203; pl.1 fig.11; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal. Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2. 7; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh.

Bavlinella irishii Sah, Maithy & Bhargava 1977: 141; pl. 1, figs. 2-4; PRECAMBRIAN **(**Jutogh Formation), Mundlu section, Simla, Himachal Pradesh.

Bavlinella minor Singh, Rawat & Gupta 1978: 100; pl. 1, figs. 10-11; PRECAMBRIAN (Shali Formation), Gumma and Drang section, Mandi area, Mandi district, Himachal Pradesh.

Bavlinella nagodensis Maithy & Gupta 1983**:** 160; pl. 1, figs. 10-11; LATE PRECAMBRIAN (Bhander Group, Nagod Limestone Formation), Chandrehi, Madhya Pradesh.

BIGEMINOCOCCUS Schopf & Blacic

Bigeminococcus sp. Venkatachala, Yadav & Shukla 1990**:** 481; pl. 2, figs. 16-17; MESOPROTEROZOIC (Semri Group, Nauhatta Limestone Formation), Rohtasgarh district, Bihar.

BIOCATENOIDES Schopf

Biocatenoides sphaerula Schopf. Maithy & Gupta 1983**:** 158; pl. 1, fig. I; LATE PRECAMBRIAN (Bhander Group, Nagod Limestone Formation), Chandrehi, Madhya Pradesh; Sarkar 1989: 35; pl. 2, figs. 5, 6; PRECAMBRIAN (Banded Iron Formation), Noamundi Basin, Bihar; Maithy & Babu 1997: 4; pl. 1, fig. 9; VENDIAN (Bhander Group, Lakheri Limestone Formation), Maihar area, Satna district, Madhya Pradesh.

Biocatenoides sp. Shukla, Tewari & Yadav 1986**:** 350; pl. 1, figs. 16 & 19; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

Biocatenoides sp. Venkatachala, Yadav & Shukla 1990**:** 478; pl. 1, fig. 1; MESOPROTEROZOIC (Semri Group, Nauhatta Limestone Formation), Son valley, Bihar.

Biocatenoides sp. Kumar & Srivastava 1992a: 316; fig. 10 E; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

BLAINIELLA Maithy *et* al.

Blainiella polymorpha Maithy, Babu, Kumar & Mathur 1995**:** 41; pl. 1, figs. 1-14, text fig. 3; TERMINAL NEOPROTEROZOIC (Baliana Group, Blaini Formation), Mussoorie Syncline, Maldeota, Dehardun, Uttar Pradesh.

BUDDING CELL Maithy & Mandal

Budding cell Maithy & Mandal 1983**:** 135; pl. 2, figs. 20-22; LATE PROTEROZOIC (Bhander Group, Lower Bhander Sandstone Formation), Birwas temple, Karauli-Sapotra region, northeastern Rajasthan.

BULGINIA Srivastava & Kumar

Bulginia septata Srivastava & Kumar 2003**:** 38; pl. 8, figs. 1, 8; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal, Lesser Himalaya, Uttaranchal.

CARYOSPHAEROIDES Schopf

Caryosphaeroides pristina Schopf. Viswanathiah, Venkatachalapathy & Naresh 1978**:** 479; pl. 1, fig. 6; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical locality not mentioned, Karnataka; Kumar & Srivastava 1992a: 304; fig. 8; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh, Uttar Pradesh.

Caryosphaeroides tetras Schopf. Viswanathiah, Venkatachalapathy & Naresh 1978**:** 479; pl. 1, fig. 5; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical locality not

mentioned, Karnataka; Viswanathiah, & Venkatachalapathy 1980**:** 19; pl. 1, figs. 14-16; EARLY PROTEROZOIC (Shimoga Schist Belt, Bababudan Iron Formation), Dharwar, Karnataka; Puranik 1981**:** 124; fig. 3; PRECAMBRIAN (Gadag Schist belt), Karnataka.

CAUDICULOPHYCUS Schopf

Caudiculophycus acuminatus Schopf and Blacic. Moitra 1999: 66; fig. 58; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Akoli Mine section, Durg district, Madhya Pradesh.

Caudiculphycus granulatus Moitra**,** Moitra 1999: 66; fig. 59; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Nandini and Hirri Mine sections, Raipur district, Madhya Pradesh.

Caudiculophycus rivulariodes Venkatachalapathy & Basavaraju, 1986: 180; pl. 1, figs. 10 & 11; LATE PRECAMBRIAN (Vobalpur Group), Dodguni area, Karnataka.

CEPHALOPHYTARION Schopf

Cephalophytarion delicatulum Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980**:** 25; fig. 37; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Cephalophytarion grande Schopf. Viswanathiah, Venkatachalapathy & Naresh 1978**:** 478; pl. 1, fig. 13; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical locality not mentioned, Karnataka; Viswanathiah, Venkatachalapathy & Narayan Shetty 1984**:** 66; pl. 2, fig. 4; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka.

CHLOROGLOEOPSIS German

Chlorogloeopsis contexta Hofmann & Jackson. Tiwari & Pant 2004b: 1735; pl. 3, fig. m; NEOPROTEROZOIC (Gangolihat Dolomite Formation), Jhiroli Magnesite Mine, Lesser Himalaya; Prasad, Uniyal & Asher 2005**:** 24; pl. 7, fig.9; pl. 9, fig. 15; pl. 11, fig.14; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Chlorogloeopsis kanshiensis Hofmann & Jackson. Prasad, Uniyal & Asher 2005**:** 24; pl. 7, fig. 7; pl. 10, fig.2; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

CHROOCOCCUS Kultz

Chroococcus turgidus (Kultz) Nageli. Viswanathiah, Venkatachalapathy & Naresh 1978**:** 477; pl. 1, fig. 3; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), Karnataka.

Chroococcus inortanus Schopf. Maithy, Kumar & Babu 2000**:** 100; figs. 3.2, 3.7; ARCHAEAN (Iron Ore Group), Kashia Mine, 6 km west of Barbil, Orissa.

CIRCUMVAGINALIS Sergeev & Knoll

Circumvaginalis elongatus Sergeev. Kumar & Venkatachala 1998**:** 63; figs. 5 f, 5g; NEOPROTEROZOIC (Vaishnodevi Limestone Formation), Riasi Inlier, Riasi area, Jammu and Kashmir.

Circumvaginalis sp. Srivastava & Kumar 2003**:** 24; pl. 8 fig. 3; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal.

CLONOPHYCUS Oehler

Clonophycus elegans Oehler. Sharma 2006: 93; figs. 11 a-d & k-i; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Clonophycus ostiolum Oehler. Sharma 2006: 94; figs. 10g, 11f; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Coccoids structures Srivastava & Kumar 1997: 146; fig. 4 f; NEOPROTEROZOIC (Deoban Formation), Deoban hill, Chakrata area, Dehradun district, Uttar Pradesh.

CONCENTRILETES Venkatachala et al.

Concentriletes muricatus Venkatachala, Bhandari, Chaube & Rawat 1974: 32; pl. 2, figs. 32-33, MIDDLE TO EARLY PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist Belt), Dharwar, 8 miles short of Dharwar city, Karnataka; Viswanathiah, Venkatachalapathy & Mahalakshmamma 1975: 203; pl. 2, fig. 2; PRECAMBRIAN-CAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

CONFERTA Klinger

Conferta sp. Mandal, Maithy & Mehdi 1983: 196; pl. 1, fig. 16. PROTEROZOIC (Cuddapah Supergroup, Nallamalai Group), Varikunta area, Andhra Pradesh.

CONHEMISPHAERA Luo & Wang

Conhemisphaera pendula Luo *et al.*, Sharma 2006: 93; figs. 10*e*, f-g; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

COLEOGLEBA Strother *et al.*

Coleogleba auctifica Strother. Maithy & Meena 1989**:** 181; pl. 1, fig. 20; NEOPROTEROZOIC (Bhander Group, Nagod Limestone and Sirbu Shale Formations), Satna-Maihar area, Satna district, Madhya Pradesh,

CONIUNCTIOPHYCUS Zhang

Coniunctiophycus gaouzhuangense Zhang. Kumar & Srivastava 1995**:** 104; figs. 12 A, B; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh; Srivastava & Kumar 2003**:** 20; pl. 3, figs. 3-4; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal.

Coniunctiophycus majorinum Zhang. Sharma 2006: 78; figs. 5a-c; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Coniunctiophycus sp. indet. Moitra 1999: 68; fig. 61; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Jamul Mine section, Raipur district, Madhya Pradesh.

CONTRAHOFILUM Nautiyal

Contrahofilum minutum Nautiyal 1983b**:** 174; pl. 1, fig. 1, text-fig. 2A; UPPER TO MIDDLE ALGONKIAN (Semri Group, Rohtas Formation), northwest of Pakri village, Son valley, Mirzapur district, Uttar Pradesh.

Contrahofilum schopfii Nautiyal 1980**:** 3; figs. B & F; MIDDLE PRECAMBRIAN (Gangolihat Dolomite Formation), Chhera, Pithoragarh district, Uttar Pradesh; Nautiyal 1983b**:** 174; pl. 1, figs. 2-4, text-figs. 2B-C, UPPER TO MIDDLE ALGONKIAN (Semri Group, Arangi Formation), north of Kajrahat, Dala area, Son valley, Mirzapur district, Uttar Pradesh.

CORYMBOCOCCUS Awramik & Barghoorn

Corymbococcous vindhyanensis Maithy & Mandal 1983**:** 131; pl. 1, fig. 3; pl. 2, fig. 12; LATE PROTEROZOIC (Bhander Group, Upper Bhander Sandstone Formation), Ranipura, Karauli-Sapotra region, northeastern Rajasthan.

Corymbococcous sp. Maithy & Gupta 1983**:** 159; pl. 1, fig. 8; LATE PRECAMBRIAN (Semri Group, Koldaha, Chorhat Sandstone and Hinoti Formations; Bhander Group, Simrawal Shale Formation), Chandrehi, Madhya Pradesh.

CYANONEMA Schopf

Cyanonema sp. Shukla, Tewari & Yadav 1986**:** 349; pl. 1, fig. 18, LATE PRECAMBRIAN (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh; Srivastava & Kumar 2003**:** 30; pl. 7, figs. 5, 7, 11; pl. 9, fig. 3; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal.

Cyanonema sp. indet. Moitra 1999: 65; fig. 54; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Nandini Mine sections, Durg district, Madhya Pradesh.

CYNOBACTERIA Longinus

Cynobacteria Srivastava & Kumar 1997: 146; fig. 4 h; NEOPROTEROZOIC (Deoban Formation), Deoban hill, Chakrata area, Dehradun district, Uttar Pradesh.

Cyanophytic filament Shanmukhappa, Singh & Poovendan 1996**:** 542-544; pl. 3; fig. 10 PROTEROZOIC (Semri Group, Kheinjua and Rohtas Formations), Jabera Well 1, Madhya Pradesh.

CYCLORANISPORITES Potönié & Kremp

Cycloranisporites sp. Shrivastava 1972**:** 7; pl. 1, figs. 2-4; SULURIAN-DEVONIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

DIPLOCOCCOUS Hofmann

Diplococcous sp. Tiwari & Azmi 1990: 389; pl. 1, fig. 18; LATE PROTEROZOIC (Krol Group, Infra

Krol Formation) Anjidhang, Solan area, Slolan district, Himachal Pradesh.

Diplococcus sp. Venkatachala, Yadav & Shukla 1990**:** 480; pl. 2, figs. 11-14; MESOPROTEROZOIC (Semri Group, Nauhatta Limestone Formation), Rohtasgarh district, Bihar.

Diplococcus sp. Sharma 2006: 79; figs. 5f-i; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

DUMBILLINA Srivastava & Kumar

Dumbillina deobanensis Srivastava & Kumar 2003: 36; pl. 6, figs. 5-6; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya.

Ellipsoidal cells type II Form A Viswanathiah, Venkatachalapathy & Mahalakshamamma 1979: 14, pl. 1, figs. 4, 8 -9; ARCHAEAN (Dharwar Supergroup, Sargur Schist belt), south of Sargur, Mysore district, Karnataka.

EOENTOPHYSALIS Hofmann

Eoentophysalis belcherensis Hofmann. McMenamin, Kumar & Awramik 1983**:** 261; figs. 10 A-C, MIDDLE PROTEROZOIC (Semri Group, Kheinjua Formation), Son valley, Mirzapur district; Uttar Pradesh; Venkatachala, Yadav & Shukla 1990**:** 481; pl. 1, figs. 5-9; MESOPROTEROZOIC (Semri Group, Nauhatta Limestone Formation), Rohtasgarh district, Bihar; Nautiyal 1990: 185; pl. 2, figs. 7, 21, 22; MIDDLE PROTEROZOIC (Tejam Group, Gangolihat Dolomite and Thalkedar Limestone, Formations), Hiunpani Member, Pithoragarh in Kumaon and Satpuli in Garhwal, Lesser Himalaya, Uttar Pradesh; Kumar & Srivastava 1992**:** 306; fig. 9-B; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradseh; Kumar & Srivastava 1995; 109; figs. 8-A & C; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh; Kumar & Venkatachala 1998**:** 56; figs. 4d-f, 5 a-e, LATE RIPHEAN-EARLY VENDIAN (Vaishnodevi Limestone Formation), Riasi Inlier, Riasi area, Jammu and Kashmir; Prasad, Uniyal & Asher 2005**:** 22; pl. 5, fig. 6; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh; Sharma 2006: 90; figs. 8g-l, 9-a-g. MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Eoentophysalis cumulus Knoll & Golubic**.** Kumar & Srivastava 1992a: 308; fig. 9F; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh.

Eoentophysalis gilensis Zang. Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.3; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh.

Eoentophysalis magna McMenamin, Kumar & Awramik 1983**:** 261; figs. 10 D-E, MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Son valley, Mirzapur district, Uttar Pradesh; Kumar & Srivastava 1992a: 307; fig. 9I; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradedsh; Kumar & Srivastava 1995**:** 109; fig.8 E, fig. 11 G; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh.

Eoentophysalis sp. Prasad, Uniyal & Asher 2005**:** 22; pl. 5, fig. 6; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Eoentophysalis sp. Maithy & Babu 1997**:** 4; pl. 1; fig. 22; VENDIAN (Bhander Group, Lakheri Limestone Formation), Satna-Maihar area, Satna district, Madhya Pradesh.

EOGLOEOCAPSA Golovenok & Belova

Eogloeocapsa avzyanica Sergeev**.** Kumar & Venkatachala 1998**:** 60; figs. 6 e & p; LATE RIPHEAN-EARLY VENDIAN (Vaishnodevi Limestone Formation), Riasi Inlier, Riasi area, Jammu and Kashmir.

EOMICROCOLEUS Horodyski & Donaldson

Eomicrocoleus crassus Horodyski & Donaldson. Tiwari & Azmi 1990: 389; pl. 1, figs. 6, 11; LATE PROTEROZOIC (Krol Group, Infra Krol Formation) Anjidhang, Solan area, Solan district, Himachal Pradesh; Kumar & Srivastava 1995: 115; fig. 14 F; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh; Tiwari 1996a: 562; pl. 1, fig. 13; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh; Srivastava & Kumar 2003:

30; pl. 8, fig. 9; pl. 9, fig. 9; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Chakrata, Dehradun, Uttaranchal; Tiwari & Pant 2004a: 6; fig. 2f; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttaranchal; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.20; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh; Sharma 2006: 91; fig. 10 d; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

EOHYELLA Green et al.

Eohyella campelliae Zhang & Golubic. Shukla, Babu, Mathur & Srivastava 2004**:** 868; fig. 2.v; TERMINAL NEOPROTEROZOIC (Tal Group, Deb Ka Tibba Formation), Nigalidhar Syncline, Rayon, Sirmaur district, Himachal Pradesh.

Eohyella rectoclada Green et al. Shukla, Babu, Mathur & Srivastava 2004**:** 868; figs. 2. i-iii; TERMINAL NEOPROTEROZOIC (Tal Group, Deb Ka Tibba Formation), Nigalidhar Syncline, Rayon, Sirmaur district, Himachal Pradesh.

EOMICROCYSTIS Golovenko & Belova

Eomicrocystis elegance Golovenok & Belova. Prasad & Asher 2001: 110; pl. 11, figs. 16-17; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005**:** 54; pl. 2, fig. 9; pl. 4, fig. 5; pl. 5 fig. 4; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Eomicrocystis malgica Golovenko & Belova. Nainital, Uttaranchal; Prasad & Asher 2001**:** 96; pl. 1, fig. 8; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005**:** 50; pl. 4, fig. 6; pl. 5, fig. 5, pl. 7, fig. 4; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh; Shukla, Babu, Mathur & Srivastava 2005b: 202; pl. 1, fig. 7; PROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal.

EOMYCETOPSIS Schopf

Eomycetopsis filiformis Schopf. Nautiyal 1978a**:** 264; fig. 21; PRECAMBRIAN (Gangolihat Dolomite Formation), Pithoragarh, Kumaon Himalaya, Uttaranchal; Kumar & Singh 1979**:** 210; figs. 6-8; MIDDLE TO LATE RIPHEAN (Deoban Limestone Formation), Chakrata area, Dehradun district, Uttar Pradesh; Nautiyal 1983b**:** 178; pl. 1, figs. 33, 45, text fig. 2 N; UPPER TO MIDDLE ALGONKIAN (Semri Group, Patherwa and Arangi Formations), geographical location not mentioned; Sarkar 1989: 35; pl. 2, fig. 6; PRECAMBRIAN (Banded Iron Formation), Noamundi Basin, Bihar; Kumar & Srivastava 1992a: 314; fig. 10 F; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh, Uttar Pradesh.

Eomycetopsis gangothriensis Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980**:** 28; fig. 23; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Eomycetopsis pflugii Maithy & Shukla 1977**:** 180; pl. 2, fig. 16; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Madhya Pradesh.

Eomycetopsis psilata Maithy & Shukla 1977**:** 180; pl. 2, fig. 15, LATE PRECAMBRIAN (Semri Group, Suket Shale Formations), Ramapura, Neemuch district, Madhya Pradesh; Nautiyal 1983b**:** 179; pl. 1, figs. 42, 56; text fig. 20; UPPER TO MIDDLE ALGONKIAN (Semri Group, Kheinjua Formation), Pakri village, Son valley, Mirzapur district, Uttar Pradesh.

Eomycetopsis reticulata Maithy & Shukla 1977**:** 180; pl. 2, fig. 17; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Eomycetopsis robusta Schopf. Banerjee 1973**:** 266; figs. 3a, 3b; LATE PRECAMBRIAN (Aravalli Supergroup), Udaipur, Rajasthan; Viswanathiah, Venkatachalapathy & Naresh 1978**:** 479; pl. 1, figs. 10-11; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical location not mentioned, Karnataka; Kumar 1981**:** 859; figs. 1-3; MIDDLE PROTEROZOIC (Fawn Limestone Formation), Son valley, Mirzapur district, Uttar Pradesh; Viswanathiah, Venkatachalapathy & Raghunath 1984**:** 54; pl. 2, fig.12; EARLY RIPHEAN (Kaladgi Supergroup, Salagundi Conglomerate), Bijapur, Karnataka; Shukla, Tewari & Yadav 1986**:** 349; pl. 1, figs. 10, 11, 17, 20; LATE PRECAMBRIAN (Deoban

Limestone Formation), Chakrata area, Dehradun district, Uttar Pradesh; Venkatachalapathy & Basavaraju, 1986: 180; pl. 1, fig. 5; LATE PRECAMBRIAN (Vobalpur Group), Dodguni area, Karnataka; Acharyya, Raha, Das, Moitra, Shukla & Bansal 1989: 141; pl. 1, fig. 2; LATE PROTEROZOIC (Krol Group, Infra Krol Formation), Nainital Synform, Kumaon Himalaya, Uttar Pradesh; Venkatachala, Shukla, Bansal & Acharyya 1990: 32; pl. 1, fig. 2; UPPER PROTEROZOIC (Krol Group, Infra Krol Formation), Nainital Syncline, Kumaon Himalaya, Uttar Pradesh; Tiwari & Azmi 1990: 389; pl. 1, fig. 5, 10; LATE PROTEROZOIC (Krol Group, Infra Krol Formation) Anjidhang, Solan area, Solan district, Himachal Pradesh; Venkatachala, Yadav & Shukla 1990**:** 477; pl. 1, figs. 3-4; MESOPROTEROZOIC (Semri Group, Nauhatta Limestone Formation), Rohtasgarh district, Bihar; Kumar & Srivastava 1992a: 313; fig. 10-G; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh, Uttar Pradesh; Moitra 1999: 64; fig. 50; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone and Charmuria Limestone Formations), Akoli, Nandini in Durg and Hirri Mine sections, Raipur district, Madhya Pradesh.

Eomycetopsis rugosa Maithy. Venkatachalapathy & Basavaraju, 1986: 182; pl. 1, fig. 9; LATE PRECAMBRIAN (Vobalpur Group), Dodguni area, Karnataka;Maithy & Babu 1993**:** 45; pl. 1, fig. 11; LATE RIPHEAN TO VENDIAN (Bhander Group, Ganurgarh Shale Formation), near Midghat Railway station, Bhopal district, Madhya Pradesh.

Eomycetopsis schopfii Nautiyal 1980**:** 7; figs. 1, H, N, O; MIDDLE PRECAMBRIAN (Gangolihat Dolomite Formation), Kumaon Himalaya, Bans, Pithoragarh district, Uttar Pradesh.

Eomycetopsis septata Maithy. Nautiyal 1978b**:** 296; fig. II; LATE PRECAMBRIAN (Amri Unit), north-eastern Uttar Pradesh; Nautiyal 1983b**:** 179; pl. 1, fig. 41, text fig. 2 P; UPPER TO MIDDLE ALGONKIAN (Semri Group, Kheinjua Formation), NW of Pakri village, Son valley, Mirzapur district, Uttar Pradesh; Nautiyal 1986b**:** 114; pl. 1, fig. 6; pl. 2, figs. 41-42; text figs. 2 e-f; PROTEROZOIC (Semri Group, Rohtas Formation), north of Pakri village, Son valley, Mirzapur district, Uttar Pradesh.

Eomycetopsis siberiensis Lo. McMenamin, Kumar & Awramik 1983**:** 265; figs. F-I; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Son Valley, Mirzapur district, Uttar Pradesh; Nautiyal 1990: 185; pl. 2, fig. 20; MIDDLE PROTEROZOIC (Tejam Group, Thalkedar Limestone, Formation), Pithoragarh in Kumaon and Satpuli in Garhwal, Uttar Pradesh; Kumar & Srivastava 1992a: 314; fig. 10-A; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh, Uttar Pradesh.

Eomycetopsis spinosus Nautiyal 1986a**:** 11; pl. 2; fig. 9, text fig. 3 F; PROTEROZOIC (Kaimur Group), Sangrampur hill, Chitrakoot, Banda district, Uttar Pradesh.

Eomycetopsis thready Moitra 1999: 64; fig. 51; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone and Charmuria Limestone Formations), Akoli and Hirri Mine sections, Raipur district, Madhya Pradesh.

Eomycetopsis sp. Mathur 1983**:** 136; pl. 1, fig. 23; LATE PRECAMBRIAN (Subsurface Pre-unconformity sediments), Puranpur well No. 2, Ganga Basin, Budaun district, Uttar Pradesh.

Eomycetopsis sp. A Nautiyal 1988b: 191; pl. 4, fig. 6, text fig. 3 W; MIDDLE ALGONKIAN (Iron Ore Supergroup), Fagua and Dalki quarries, Keonjhar district, Orissa.

Eomycetopsis sp. B Nautiyal 1988b: 191; pl. 5, fig. 16, text fig. 3 X; MIDDLE ALGONKIAN (Iron Ore Supergroup), Fagua and Dalki quarries, Keonjhar district, Orissa.

Eomycetopsis sp. Schopf. Maithy, Babu, Raina & Kumar 1988**:** 641; fig. 1.13; LATE PROTEROZOIC (Machhal and Lolab Formations), Putshai-Wanner section, Lolab valley, Kupwara district, Kashmir Himalaya.

Eomycetopsis sp. Maithy & Meena 1989**:** 183; pl. 1, fig. 3; NEOPROTEROZOIC (Bhander Group, Nagod Limestone and Sirbu Shale Formations), Satna-Maihar area, Satna district, Madhya Pradesh.

Eomycetopsis sp. Kumar & Rai 1992**:** 230; pl. 1, fig. 7; VENDIAN (Krol Group, Krol-A member), Solan area, solan district, Himachal Pradesh.

Eomycetopsis sp. Maithy & Babu 1996: 5; pl. 1, figs. 8, 18-20; LATE PROTEROZOIC (Bhima Group, Halkal Formation), Karnataka.

Eomycetopsis sp. Venkatachala & Kumar 1996**:** 552; pl. 1, fig. 1; LATE RIPHEAN-EARLY VENDIAN (Jammu Limestone), Riasi-Katra area, Jammu and Kashmir.

Eomycetopsis sp. Maithy & Babu 1997**:** 6; pl. 2, fig. 2; VENDIAN (Bhander Group, Lakheri Limestone Formation), Satna-Maihar area, Satna district, Madhya Pradesh.

Eomycetopsis sp. Rai & Gautam 1998: 544; figs. 3q, 3u; NEOPROTEROZOIC (Shali Group, Khatpul Formation), Mandi district, Himachal Pradesh.

Eomycetopsis sp. Moitra 1999: 64; fig. 52; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone and Charmuria Limestone Formations), Nandini and Hirri Mine sections, Raipur district, Madhya Pradesh.

Eomycetopsis sp. Tewari 2003: 9; fig. 12a; TERMINAL NEOPROTEROZOIC (Buxa Group, Menga Dolomite), Kameng district, Arunachal Pradesh, NE Lesser Himalaya

EOMYCOPHYCUS Allison & Awramik

Eomycophycus herkoides Srivastava & Kumar 2003**:** 38; pl. 9, fig. 1; pl. 10, fig. 4; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal.

EOPHORMIDIUM Xu

Eophormidium orculiformis Xu & Awramik. Shukla, Babu, Mathur & Srivastava 2005b: 203; pl. 1, fig. 21; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital area, Nainital district, Uttaranchal.

EOSPHAERA Barghoorn

Eosphaera tyleri Barghoorn. Viswanathiah, Venkatachalapathy & Naresh 1978**:** 477; pl. 1, fig. 14, MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical locality not mentioned, Karnataka.

Eosphaera sp. Acharyya, Raha, Das, Moitra, Shukla & Bansal 1989: 141; pl. 1, figs. 6 & 9; LATE PROTEROZOIC (Krol Group, Infra Krol Formation), Nainital Synform, Kumaon Himalaya, Uttar Pradesh.

Eosphaera sp. Venkatachala, Shukla, Bansal & Acharyya 1990: 34; pl. 1, fig.10; UPPER PROTEROZOIC (Krol Group, Krol Formation), Nainital Syncline, Kumaon Himalaya, Uttar Pradesh.

EOSTRION Barghoorn

?**Eostrion sp.** Barghoorn. Gururaja, Jagannatha Rao & Bhaskar Rao 1979**:** 141; pl. 1, fig. 6; LOWER-MIDDLE RIPHEAN (Cuddapah Supergroup, Cumbum Formation), Near Zangamarajupalli, Andhra Pradesh.

EOSYNECHOCOCCUS Hofmann

Eosynechococcus grandis Golovenok & Belova. Viswanathiah & Venkatachalapathy 1980**:** 18; pl. 1, figs. 12-13; EARLY PROTEROZOIC (Shimoga Schist Belt, Bababudan Iron Formation), Dharwar, Karnataka; Kumar & Venkatachala 1998**:** 62; figs. 6 d, I; LATE RIPHEAN-EARLY VENDIAN (Vaishnodevi Limestone Formation), Riasi Inlier, Riasi area, Jammu, Jamm and Kashmir; Sharma 2006: 79; figs. 5e-g & i; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Eosynechococcus isolatus McMenamin, Kumar & Awramik 1983**:** 258; figs. 5E, G; PROTEROZOIC (Semri Group, Kheinjua Formation), Son valley, Mirzapur district, Uttar Pradesh; Kumar & Srivastava 1992a: 300; fig. 8 C; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh; Kumar & Srivastava 1995**:** 107; figs.12 C-D; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh.

Eosynechococcus medius Schopf. Venkatachala, Yadav & Shukla 1990**:** 480; pl. 2, fig. 18; MESOPROTEROZOIC (Semri Group, Nauhatta Limestone Formation), Rohtasgarh district, Bihar.

Eosynechococcus minutus Nautiyal 1980**:** 6; figs. I, S, T; MIDDLE PRECAMBRIAN (Gangolihat Dolomite Formation), Bans, Pithoragarh district, Uttar Pradesh; Nautiyal 1984**:** 32; pl. 1, fig. 24, text-fig. 2; ALGONKIAN (Gangolihat Dolomite Formation), Pithoragarh district, Uttar Pradesh.

Eosynechococcus moorei Hofmann. Kumar & Srivastava 1995**:** 106; fig. 12-I; MESOPROTEROZOIC (Semri Group, Kheinjua

Formation), Newari, Mirzapur district, Uttar Pradesh; Kumar & Venkatachala 1998**:** 62; fig. 6d(ii), LATE RIPHEAN-EARLY VENDIAN (Vaishnodevi Limestone Formation), Riasi Inlier, Riasi area, Jammu and Kashmir; Prasad, Uniyal & Asher 2005**:** 21; pl. 4, fig. 1; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh; Sharma 2006: 79; figs. 7 h -k; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar; Shukla, Tewari, Babu & Sharma 2006: 60; pl. 1, fig. 18; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west of Siang district, Arunachal Lesser Himalaya.

Eosynechococcus sp. A. Nautiyal 1978a: 264; fig. 20; LATE PRECAMBRIAN (Gangolihat Dolomite Formation), Pithoragarh, Kumaon Himalaya, Uttar Pradesh; Maithy & Babu 1997**:** 4; pl. 1, figs. 16, 23; LATE PROTEROZOIC (Bhander Group, Lakheri Limestone Formation), Satna-Maihar area, Satna district, Madhya Pradesh.

Eosynechococcus sp. Shukla, Tewari, Babu & Sharma 2006: 68; pl. 1, figs. 2-3, 5; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

EOTETRAHEDRON Schopf & Blacic

Eotetrahedron princeps Schopf & Blacic. Nautiyal 1986b**:** 103; pl. 2, figs. 19-22, text fig. 2 N-Q; MIDDLE PROTEROZOIC (Semri Group, Rohtas Formation), Pakri village, Son valley, Mirzapur district, Uttar Pradesh; Nautiyal 1988a: 84-85; pl. 1, fig. 35; LATE ALGONKIAN (Semri Group, Kheinjua Formation), Pakri area, Son valley, Mirzapur district, Uttar Pradesh.

Eotetrahedron sp. Mathur 1983**:** 136; pl. 1, fig. 21; LATE PRECAMBRIAN (Subsurface Pre-unconformity sediments), Puranpur well No.2, Ganga Basin, Budaun district, Uttar Pradesh.

Eotetrahedron sp. Nautiyal 1988a: 84-85; pl. 1, fig. 34; LATE ALGONKIAN (Semri Group, Kheinjua Formation), Pakri area, Son valley, Mirzapur district, Uttar Pradesh.

Eotetrahedron sp. Moitra 1990: 393; pl. 5, fig. 3; LATE RIPHEAN (Chhattisgarh Group, Raipur Limestone Formation), Selud area, Durg district, Madhya Pradesh.

EOZYGION Schopf & Blacic

Eozygion grande Schopf & Blacic. Nautiyal 1983b**:** 177; pl. 1, figs. 23-26, text fig. 2 G, J; UPPER TO MIDDLE ALGONKIAN (Semri Group, Rohtas Formation), north of Pakri village, Son valley, Mirzapur district, Uttar Pradesh; Nautiyal 1984**:** 31; pl. 1, figs. 23; ALGONKIAN (Semri Group, Rohtas Formation), Son valley, Uttar Pradesh; Nautiyal 1986b**:** 110; pl. 2, figs. 12-18, text figs. 2 K-M; MIDDLE PROTEROZOIC (Semri Group, Rohtas Limestone Formation), north of Pakri village section, Son valley, Mirzapur district, Uttar Pradesh.

Eozygion minutum Schopf & Blacic. Nautiyal 1978a**:** 264; fig. 19; PRECAMBRIAN (Gangolihat Dolomite Formation), Pithoragarh, Uttar Pradesh; Nautiyal 1984**:** 31; pl. 1, fig. 21; ALGONKIAN (Tejam Group, Gangolihat Dolomite Formation), Pithoragarh, Uttar Pradesh; Venkatachalapathy & Ravindra 1984**:** 44; pl. 1, fig. 7; PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka.

Eozygion sp. Venkatachalapathy & Ravindra 1984**:** 44; pl. 2, fig. 3; PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka.

EXOCHOBRACHIUM Awramik & Barghoorn

Exochobrachium triangulum Awramik & Barghoorn. Viswanathiah, Venkatachalapathy & Raghunath 1984**:** 54; pl. 1, fig. 4; EARLY RIPHEAN (Kaladgi Supergroup, Salagundi Conglomerate), Bijapur district, Karnataka.

Exochobrachium sp. Maithy & Gupta 1983**:** 160; pl. 1, fig. 14; LATE PRECAMBRIAN (Bhander Group, Nagod Limestone Formation), geographical location not mentioned, Madhya Pradesh.

FERRIMONILIS Oehler

Ferrimonilis Oehler. Venkatachala & Kumar, 1996**:** 553; pl. 1, fig. 3; LATE RIPHEAN-EARLY VENDIAN (Jammu Limestone), Riasi-Katra area, Jammu and Kashmir.

Filamentous form. Maithy & Avasthy 1982**:** 310; pl. 1, figs. 13-15; ARCHAEAN (Iron Ore

Supergroup, Banded Iron Formation), Bhadrasai, Keonjhar district, Orissa.

Filamentous form Raha, Parulkar, Ghosh, Some, Kundu, Kumar, Saha & Misra 2000**:** 669; figs. 3 A-G; ARCHAEAN (Bailadila Group, Banded Iron Ore Formation), Sonadehi, left bankof Khandi river, Bastar, Keonjhar district, Madhya Pradesh.

Filaments Schopf & Prasad 1978: 360-361; figs. 6 E-I; ARCHAEAN (Cuddapah Supergroup, Vempalle Formation), near Bramanapalle, Andhra Pradesh.

Fungal Buds Srivastava & Kumar 1997: 146; figs. 4 g1-g2; NEOPROTEROZOIC (Deoban Formation), Deoban hill, Chakrata area, Dehradun district, Uttar Pradesh.

GHOSHIA Maithy *et* al.

Ghoshia bifurcata Mandal, Maithy, Barman & Verma 1984**:** 10; pl. 4, figs. 29-31; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan

Ghoshia sp. Maithy *et* al., Kumar, Raina, Bhargava, Maithy & Babu 1984**:** 215; fig. 3.i; VENDIAN-CAMBRIAN BOUNDARY (Lolab Formation), Lolab valley, Kashmir, northwest Himalaya.

GLENOBOTRYDIAN Schopf

Glenobotrydian aenigmatis Schopf. McMenamin, Kumar & Awramik 1983**:** 260; figs. 5 D, F; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Son valley, Mirzapur district, Uttar Pradesh; Shukla, Tewari & Yadav 1986**:** 349; pl. 2, figs. 1. 19, 20; LATE PRECAMBRIAN (Deoban Limestone Formation), Chakrata area, Dehradun district, Uttar Pradesh; Kumar & Srivastava 1992a: 302; fig. 9 G; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh, Uttar Pradesh; Kumar & Srivastava 1995**:** 110; figs. 8-G, 8-K; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari area, Mirzapur district, Uttar Pradesh; Shukla, Tewari, Babu & Sharma 2006: 60; pl. 1, fig. 15; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Glenobotrydian majorinum Schopf & Blacic. Kumar & Singh 1979**:** 210; figs. 1-4; MIDDLE TO LATE RIPHEAN (Deoban Limestone Formation), 1 km from the Deoban Forest Rest House on Deoban-Chakrata mule track, Chakrata, Dehradun district, Uttar Pradesh; Nautiyal 1980**:** 6; fig. 1 U; MIDDLE PRECAMBRIAN, (Gangolihat Dolomite Formation), Bans, Pithoragarh district, Uttar Pradesh; Nautiyal 1983b**:** 178; pl. 1, fig. 32, text fig. 2M; UPPER TO MIDDLE ALGONKIAN (Semri Group, Arangi Formation), west of Kajrahat, Mirzapur district, Uttar Pradesh; Nautiyal 1984**:** 34; pl. 1, figs. 25-26; ALGONKIAN (Gangolihat Dolomite Formation), Pithoragarh, Kumaon Himalaya; Shukla, Tewari & Yadav 1986**:** 350; pl. 2, figs. 6, 7; LATE PRECAMBRIAN (Deoban Limestone Formation), Chakrata area, Dehradun district, Uttar Pradesh; Kumar & Srivastava 1992a: 304; fig. 9-A; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Dehradun district, Uttar Pradesh.

Glenobotrydian sp. 1 Venkatachala, Bhandari Chaube & Rawat 1974**:** 33; pl. 1, fig. 20; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist Belt), Dharwar, Karnataka.

Glenobotrydian sp. 2 Venkatachala, Bhandari, Chaube & Rawat 1974**:** 34; pl. 1, fig. 21; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist Belt), Dharwar, Karnataka.

Glenobotrydian sp. Mathur 1983**:** 136; pl. 1, fig. 20; LATE PRECAMBRIAN (Subsurface Pre-unconformity sediments), Puranpur well No.2, Ujhani, Ganga Basin, Budaun district, Uttar Pradesh.

Glenobotrydion sp. Nautiyal 1988a: 84-85; pl. 1, fig. 33; LATE ALGONKIAN (Puranpur well), Budaun district, Ganga valley, Uttar Pradesh.

Glenobotrydian sp. Venkatachala, Yadav & Shukla 1990**:** 482; pl. 2, fig. 5**:** MESOPROTEROZOIC (Semri Group, Nauhatta Limestone Formation), Rohtasgarh district, Bihar.

GLOBOPHYCUS Schopf

Globophycus circularis Venkatachala, Bhandari, Chaube & Rawat 1974**:** 34; pl. 1, fig. 13; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist Belt), Dharwar, Karnataka.

Globophycus rugosum Schopf. Viswanathiah, Venkatachalapathy & Shekhar 1984**:** 90; pl. 1, fig. 3; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzite), Chennareddipalli-Muddanur area, Andhra Pradesh; Viswanathiah, Venkatachalapathy & Raghunath 1984**:** 54; pl. 2, fig. 2; EARLY RIPHEAN (Kaladgi Supergroup. Salagundi Conglomerate), Bijapur district, Karnataka; Venkatachalapathy & Ravindra 1984**:** 34; pl. 1, fig. 8; pl. 2, fig. 2; PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka; Sarkar 1989: 33; pl. 2, fig. 3; PRECAMBRIAN (Banded Iron Formation), Noamundi Basin, Bihar; Kumar & Srivastava 1992a: 304; fig. 9-H; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh.

Globophycus sp. A Nautiyal 1983b**:** 178; pl. 1, figs. 27, 21; UPPER TO MIDDLE ALGONKIAN (Semri Group, Patherwa Formation), north of Kajrahat, Son valley, Mirzapur district, Uttar Pradesh; Nautiyal 1984**:** 33; pl. 1, fig. 32; ALGONKIAN (Semri Group, Patherwa Formation), Son valley, Mirzapur district, Uttar Pradesh.

Globophycus sp. Shukla, Tewari & Yadav 1986**:** 350; pl. 2, figs. 4, 9, 10, 21; LATE PRECAMBRIAN (Deoban Limestone Formation), Chakrata area, Dehradun district, Uttar Pradesh.

Globophycus sp. Rai & Gautam 1998: 544; fig. 3c; NEOPROTEROZOIC (Shali Group, Khatpul Formation), Mandi district, Himachal Pradesh.

GLOEOCAPSAMORPHA. Zalessky

Gloeocapsamorpha karauliensis. (Maithy & Mandal) Maithy & Mandal 1983: 132-133; pl. 1, fig. 4; LATE PROTEROZOIC (Bhander Group, Sirbu Shale Formation), Ranipura, Karauli-Sapotra region, Rajasthan; Maithy & Mandal 1984**:** 247; pl. 2, figs. 1-8; PRECAMBRIAN (Bhander Group, Sirbu Shale Formation), Ranipura, southeast of Karauli, Rajasthan; Mandal, Maithy, Barman & Verma 1984**:** 6; pl. 1, fig. 6; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan; Maithy & Babu 1993**:** 45; pl. 1, fig. 8; LATE RIPHEAN-VENDIAN (Bhander Group, Ganurgarh Shale Formation), near Midghat Railway station, Bhopal district, Madhya Pradesh.

Gloeocapsamorpha macrocysta Timofeev. Viswanathiah, Venkatachalapathy & Narayan Shetty 1984**:** 63; pl. 1, figs. 4 & 12; pl. 3, fig. 9; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka.

Gloeocapsamorpha prisca Zalessky. Viswanathiah, Venkatachalapathy & Khadeer 1976b**:** 342; pl. 2, fig. 32; PRECAMBRIAN (Badami Group, Ramdurg Formation), Karnataka; Viswanathiah, Venkatachalapathy & Nanjundaswamy 1978**:** 468; pl. 1, fig. 21; PROTEROZOIC (Badami Group, Gokak Quartzarenite), Belgaum district, Karnataka; Mandal, Maithy, Barman & Verma 1984**:** 6; pl. 1, fig. 7; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan; Viswanathiah, Venkatachalapathy & Narayan Shetty, 1984**:** 64; pl. 1, fig. 11; CAMBRIAN (Kaladgi Supergroup, Mudhol Formatlon), Bijapur district, Karnataka; Venkatachalapathy & Mahesh Bilwa, 1986: 188; pl. 1, fig. 7; PRECAMBRIAN (Kaladgi Group, Mudhol Formation), Bagalkot town, Bijapur district, Karnataka.

Gloeocapsamorpha sp. Maithy 1968: 50; pl. 1, figs. 6-7; PRECAMBRIAN (Kaimur Series, Suket Shale Formation), Chauki village, Ramapura, Madhya Pradesh.

Gloeocapsamorpha sp. Shrivastava 1972: 8; pl. 1, fig. 7; SILURIAN-DEVONIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Gloeocapsamorpha sp. Viswanathiah, Venkatachalapathy & Doddiah 1976**:** 387; pl. 1, fig. 9; LATE PRECAMBRIAN-EARLY CAMBRIAN (Bhima Group), Gulbarga district, Karnataka.

Gloeocapsamorpha sp. Viswanathiah, Venkatachalapathy & Khadeer, 1976b**:** 342; pl. 2, figs. 17 & 30; PRECAMBRIAN (Badami Group), Karnataka.

Gloeocapsamorpha sp. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980**:** 23; fig. 27; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka.

Gloeocapsamorpha sp. Zalesskey. Kumar, Raina, Bhargava, Maithy & Babu 1984**:** 215; fig. 3 f; VENDIAN-CAMBRIAN BOUNDARY (Lolab Formation), Lolab valley, Kashmir, northwest Himalaya.

Gloeocapsamorpha sp. Zalesskey. Maithy, Babu, Raina & Kumar 1988**:** 641; fig. 1.11; LATE PROTEROZOIC (Machhal and Lolab Formations), Putshai-Wanner Section, Lolab valley, Kupwara district, Kashmir Himalaya.

Gloeocapsomorpha sp. Moitra 1999: 70; fig. 63; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Chukkatta area, Raipur district, Madhya Pradesh.

GLOEODINIOPSIS Schopf

Gloeodiniopsis gregaria Knoll & Golubic. Kumar & Srivastava 1992a: 312; fig. 9 C; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh, Uttar Pradesh.

Gloeodiniopsis hebeiensis Nautiyal 1990:185; pl. 2, fig. 10; MIDDLE PROTEROZOIC (Tejam Group, Gangolihat Dolomite Formation), Pithoragarh in Kumaon and Satpuli in Garhwal, Uttar Pradesh .

Gloeodiniopsis lamellosa Schopf. Misra & Singh 1981**:** 365; fig. 4; UPPER PROTEROZOIC (Dhararmkot Limestone Formation), Dharamsala, Himachal Pradesh; Maithy & Mandal 1983: 133; pl. 1, figs. 5-6; pl. 2, fig.30; LATE PROTEROZOIC (Rewa Group, Panna Shale Formation), Bapoti village, Karauli-Sapotra region, Rajasthan; Kumar & Srivastava 1992a: 310; fig. 9 K; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh, Uttar Pradesh; Kumar & Venkatachala 1998**:** 60; fig. 6 f; LATE RIPHEAN-EARLY VENDIAN (Vaishnodevi Limestone Formation), Riasi Inlier, Riasi area, Jammu and Kashmir; Srivastava & Kumar 2003**:** 21; pl. 1, figs. 8-10, 12; pl. 2, fig. 1; pl. 3, fig. 9; pl. 4, fig. 4; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal.

Gloeodiniopsis sp. Viswanathiah & Venkatachalapathy 1980**:** 19; pl. 1, fig. 10; EARLY PROTEROZOIC (Shimoga Schist Belt, Bababudan Iron Formation), Dharwar, Karnataka.

Gloeodiniopsis sp. Kumar & Srivastava 1992a**:** 312; figs. 8 J, 9 E; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh, Uttar Pradesh.

Gloeodiniopsis sp. Rai & Gautam 1998: 544; fig. 3b; NEOPROTEROZOIC (Shali Group, Khatpul Formation), Mandi district, Himachal Pradesh.

GLOMOVERTELLA Reitlinger

Glomovertella glomerata Reitlinger**.** Srivastava & Kumar 2003**:** 32; pl. 10, fig. 8. MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal.

GUNFLINTIA Barghoorn.

Gunflintia grandis Barghoorn. Nautiyal 1978a**:** 261; figs. 1-5; PRECAMBRIAN (Gangolihat Dolomite Formation), Pithoragarh, Kumaon Himalaya, Uttar Pradesh; Nautiyal 1986a**:** 10; pl. 2, figs. 16-17, text fig. 3C; MIDDLE PROTEROZOIC (Semri Group, Tirohan Limestone Formation), Sangrampur hill, Chitrakoot, Banda district, Uttar Pradesh; Moitra 1990**:** 393-394; pl. 4, fig. 3; LATE RIPHEAN (Chhattisgarh Group, Raipur Limestone Formation), Hirri borehole, Nandghat and Hirri Mine section, Raipur district, Madhya Pradesh; Kumar & Srivastava 1992a: 313; fig. 10-C; MIDDLE-LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh; Moitra 1999: 65; figs. 55-56; PROTEROZOIC (Chhattisgarh Group, Charmuria Limestone Formation), Hirri Mine section, Raipur district, Madhya Pradesh.

Gunflintia magna Maithy. Nautiyal 1986a**:** 10; pl. 2, fig. I, fig. 3; MIDDLE PROTEROZOIC (Semri Group, Tirohan Limestone Formation), Sangrampur hill, Chitrakoot, Banda district, Uttar Pradesh.

Gunflintia minuta Barghoorn. Nautiyal 1978a**:** 261; figs. 6-8; PRECAMBRIAN (Gangolihat Dolomite Formation), Pithoragarh district, Uttar Pradesh; Viswanathiah, Venkatachalapathy & Naresh 1978**:** 477; pl. 1, fig. 9; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical locality not mentioned, Karnataka; Maithy, Venkatachala & Lele 1983**:** 191; pl. 2, fig. 23; LATE PRECAMBRIAN (Subsurface Vindhyan sediments), Ujhani Deep well-I, Ujhani wells 1, 2 & 3, Budaun district, Uttar Pradesh; Shukla, Tewari & Yadav 1986**:** 349; pl. 1, figs. 2, 3, 6, 9, 12, 13, 15; LATE PRECAMBRIAN (Deoban Limestone Formation), Chakrata area, Dehradun district, Uttar Pradesh;

Acharyya, Raha, Das, Moitra, Shukla & Bansal 1989: 141; pl. 1, figs. 1-5 & 11; LATE PROTEROZOIC (Krol Group, Infra Krol Formation), Krol Belt area, Nainital Synform, Kumaon Himalaya; Maithy & Meena 1989: 181; pl. 1 figs. 5-7, 10-19; NEOPROTEROZOIC (Bhander Group, Nagod Limestone and Sirbu Shale Formations), Satna-Maihar area, Satna district, Madhya Pradesh; Nautiyal 1990: 185; pl. 2, fig. 6; MIDDLE PROTEROZOIC (Tejam Group, Gangolihat Dolomite Formation), Pithoragarh in Kumaon and Satpuli in Garhwal, Uttar Pradesh; Venkatachala, Shukla, Bansal & Acharyya 1990**:** 32; pl. 1, figs.1-6 (Krol Group, Infra Krol Formation) Nainital Syncline, Kumaon Himalaya; Kumar & Srivastava 1992a: 312; fig. 10 B; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh; Kumar & Srivastava 1992b: 371; fig. 3; MIDDLE PROTEROZOIC (Semri Group, Bhagwanpura Limestone Formation), Chittorgarh area, Rajasthan; Moitra 1999: 65; fig. 57; PROTEROZOIC (Chhattisgarh Group, Charmuria Limestone Formation), Hirri Mine section, Raipur district, Madhya Pradesh; Tiwari & Pant 2004b: 1735; pl. 3, fig. d; NEOPROTEROZOIC (Gangolihat Dolomite Formation), Jhiroli Magnesite mine, Lesser Himalaya, Uttaranchal.

Gunflintia sp. Maithy & Mandal 1983**:** 134; pl. 1, fig. 8; LATE PROTEROZOIC (Semri Group, Tirohan Limestone Formation), Karisal bandh, Karauli-Sapotra region, northeast Rajasthan.

Gunflintia sp. Barghoorn. Kumar, Raina, Bhargava, Maithy & Babu 1984**:** 215; fig. 3.g; VENDIAN-CAMBRIAN (Lolab Formation), Lolab Valley, Kashmir, northwest Himalaya.

Gunflintia sp. Barghoorn. Maithy, Babu, Raina & Kumar 1988**:** 641; fig. 1.12 LATE PROTEROZOIC (Machhal and Lolab Formations), Putshai-Wanner Section, Lolab valley, Kupwara district, Kashmir Himalaya.

Gunflintia sp. Joshi, Mathur & Kumar 1988: 118; fig. 1; LATE PRECAMBRIAN (Baliana Group, Blaini Formation), Mussoorie, Dehradun district, Uttar Pradesh.

Gunflintia sp. Moitra 1990: 393; pl. 5, fig. 5; LATE RIPHEAN (Chhattisgarh Group, Raipur Limestone Formation), Sikosa area, Durg district, Madhya Pradesh.

HELITHRIX Schopf

Helithrix nodosa Schopf. Viswanathiah, Venkatachalapathy & Naresh 1978**:** 478; pl. 1, fig. 8; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical location not mentioned, Karnataka.

Helithrix sp. intdet. Moitra 1999: 64; fig. 53; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Akoli Mine section, Durg district, Madhya Pradesh.

HELICONEMA Schopf

Heliconema australiensis Schopf. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980**:** 25; fig. 25; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka; Viswanathiah, Venkatachalapathy & Raghunath 1984**:** 53; pl. 2, fig. 14; EARLY RIPHEAN (Kaladgi Supergroup, Salagundi Conglomerate), Bijapur district, Karnataka; Venkatachalapathy & Basavaraju, 1986: 180; pl. 1, figs. 14 & 15; LATE PRECAMBRIAN (Vobalpur Group), Dodguni area, Karnataka; Sarkar 1989: 35; pl. 2, fig. 7; PRECAMBRIAN (Banded Iron Formation), Noamundi Basin, Bihar.

HURONIOSPORA Barghoorn

Huroniospora microreticulata Barghoorn. Maithy 1978: 774; fig. 8; ARCHAEAN (Aravalli Supergroup, Matton Formation), Jhamarkotara, Udaipur, Rajasthan; Nautiyal 1978a**:** 265; fig. 29; PRECAMBRIAN (Gangolihat Dolomite Formation), Kumaon Himalaya, Pithoragarh district, Uttar Pradesh; Maithy & Gupta 1983**:** 159; pl. 1, figs. 2-3; LATE PRECAMBRIAN (Semri Group, Kanwari Shale and Chorhat Sandstone Formations), Chandrehi, Madhya Pradesh; Nautiyal 1986a**:** 9; pl. 2, figs. 18-19, text fig. 3A; MIDDLE PROTEROZOIC (Semri Group, Basal Formation), Sangrampur hill, Chitrakoot, Banda district, Uttar Pradesh; Kumar & Srivastava 1992a: 304; fig. 8G, H; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh; Shukla, Babu, Mathur & Srivastava 2005b: 202; pl. 1 fig.15; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital district, Uttaranchal.

Huroniospora psilata Barghoorn. Maithy 1978: 774; figs. 1-7; ARCHAEAN (Aravalli Supergroup, Matton Formation), Jhamarkotara, Udaipur, Rajasthan; Nautiyal 1978a**:** 265; figs. 26-28; PRECAMBRIAN (Gangolihat Dolomite Formation), Pithoragarh district, Kumaon Himalaya, Uttar Pradesh; Maithy & Gupta 1983**:** 159; pl. 1, fig. 4; PRECAMBRIAN (Semri Group, Kanwari Shale; Koldaha; Hinoti Limestone, Chorhat Sandstone Formations and Rewah Group, Kokah Shale Formation), Chandrehi, Madhya Pradesh; Maithy 1984**:** 83; pl. 1, figs. 6-7; LATE PRECAMBRIAN (Bilara Group), Bhadora area, Rajasthan; Kumar & Srivastava 1992a: 304; fig. 8-I; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh; Venkatachala, Shukla, Bansal & Acharyya 1990: 34; pl. 1, fig. 9; UPPER PROTEROZOIC (Krol Group, Infra Krol Formation) Nainital Syncline, Kumaon Himalaya, Uttar Pradesh; Tiwari & Azmi 1990: 389; pl. 1, figs. 21-23; LATE PROTEROZOIC (Krol Group, Infra Krol Formation) Anjidhang, Solan area, Solan district, Himachal Pradesh; Tiwari 1996b: 564; pl. 2, fig. 9; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh; Sharma 2006: 93; figs. 10a-b; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Huroniospora sp. Kumar & Singh 1979**:** 210; fig. 5; MIDDLE TO LATE RIPHEAN (Deoban Limestone Formation), Lesser Himalaya, 1 km from the Deoban Forest Rest House on the Deoban-Chakrata mule track, Chakrata, Dehradun disrict, Uttar Pradesh.

Huroniospora. sp. Viswanathiah, Venkatachalapathy & Naresh 1978**:** 477; pl. 1, fig. 7; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical locality not mentioned.

Huroniospora sp. Viswanathiah & Venkatachalapathy 1980**:** 19; pl. 1, figs. 4-7; EARLY PROTEROZOIC (Shimoga Schist Belt, Bababudan Iron Formation), Dharwar, Karnataka.

Huroniospora sp. Joshi, Mathur & Kumar 1988: 118, figs. 4-5; LATE PRECAMBRIAN (Baliana Group, Blaini Formation), Mussoorie area, Dehradun disrict, Uttar Pradesh.

Huroniospora sp. Acharyya, Raha, Das, Moitra, Shukla & Bansal 1989: 141; pl. 1, fig. 7; LATE PROTEROZOIC (Krol Group, Infra Krol Formation) Krol Belt, Nainital Synform, Kumaon Himalaya, Uttar Pradesh.

Huroniospora sp. Venkatachala, Yadav & Shukla 1990**:** 481; pl. 2, figs. 19-20; MESOPROTEROZOIC (Semri Group, Nauhatta Limestone Formation), Rohtasgarh district, Bihar.

Huroniospora sp. Kumar & Srivastava 1995**:** 109; figs. 11 H & 12 H, MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh.

KAKABEKIA Barghoorn

Kakabekia microumbellata Nautiyal 1988b: 189; pl. 3, figs. 12-14, text figs. 3 P-T; MIDDLE ALGONKIAN (Iron Ore Supergroup), Fagua and Dalki quarries, Keonjhar district, Orissa.

Kakabekia umbellata Barghoorn. Maithy 1984**:** 83; pl. 1, figs. 7-8; LATE PRECAMBRIAN (Bilara Group), Bhadora area, Rajasthan; Nautiyal 1988b: 189; pl. 3, figs. 10-11.9, text figs. 3 N-O; MIDDLE ALGONKIAN (Iron Ore Supergroup), Fagua and Dalki quarries, Keonjhar district, Orissa.

KARAMIA Kolosov

Karamia segmentata Jankauskas *et* al. Prasad, Uniyal & Asher 2005: 26; pl. 1, fig.14; pl. 8, fig.14; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

KHEINJUASPHAERA McMenamin et al.

Kheinjuasphaera vulgaris McMenamin, Kumar & Awramik 1983**:** 268; figs. 13 C-E; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Son valley, Mirzapur district, Uttar Pradesh; Nautiyal 1990:185; pl. 1, fig. 15; pl. 2, figs. 11-12; MIDDLE PROTEROZOIC (Tejam Group, Gangolihat Dolomite Formation), Pithoragarh in Kumaon and Satpuli in Garhwal, Uttar Pradesh; Kumar & Srivastava 1995**:** 102; fig. 11 D; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh.

MAITHIA Srivastava & Kumar

Maithia indica Srivastava & Kumar 2003: 36; pl. 3 figs. 11-12; MESO-NEOPROTEROZOIC (Deoban

Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

MELASMATOSPHAERA Hofmann

Melasmatosphaera magna Sarkar 1989: 33; pl. 2, figs. 2A-2B; PRECAMBRIAN (Banded Iron Formation), Noamundi Basin, Bihar; Moitra 1999: 70; fig. 66; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Nandghat area, Raipur district, Madhya Pradesh.

Melasmetosphaera media Hofmann. McMenamin, Kumar & Awramik 1983: 261; fig. 101; PROTEROZOIC (Semri Group, Kheinjua Formation), Son valley, Mirzapur district, Uttar Pradesh; Shukla, Tewari & Yadav 1986: 349; pl. 2, figs. 2, 3; LATE PRECAMBRIAN (Deoban Limestone Formation), Chakrata area, Dehradun district, Uttar Pradesh; Kumar & Srivastava 1992a: 300; fig. 8 B; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh,

Melasmatophaera parva Hofmann, Kumar & Srivastava 1992a: 302; fig. 8E; MIDDLE-LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh.

MINUTIAFILUM Nautiyal

Minutiafilum minutum Nautiyal 1980: 4; figs. 1 J, L; MIDDLE PRECAMBRIAN (Gangolihat Dolomite Formation), Bans, Pithoragarh, Uttar Pradesh.

Multicellular sheath Maithy & Babu, 1993**:** 45; pl. 1, fig. 5; LATE RIPHEAN-EARLY VENDIAN (Bhander Group, Ganurgarh Shale Formation), near Midghat Railway station, Bhopal district, Madhya Pradesh.

MYXOCOCCOIDES Schopf

Myxococcoides bansensis Nautiyal 1980**:** 5; figs. 1 G, R; MIDDLE PRECAMBRIAN (Gangolihat Dolomite Formation), Kumaon Himalaya, Bans, Pithoragarh district; Nautiyal 1984**:** 31; pl. 1, fig. 19; ALGONKIAN (Gangolihat Dolomite Formation), Kumaon Himalaya; Nautiyal 1990: 185; pl. 2, figs. 3-4; MIDDLE PROTEROZOIC (Tejam Group, Gangolihat Dolomite Formation), Pithoragarh in Kumaon and Satpuli in Garhwal, Lesser Himalaya, Uttar Pradesh .

Myxococcoides compactus Mandal. Maithy, Barman & Varma 1984**:** 5; pl. 1, fig. 2; pl. 3, fig. 5; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan.

Myxococcoides elongatus Venkatachala, Bhandari, Chaube & Rawat 1974**:** 33; pl. 2, figs. 34 & 39; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist Belt), Dharwar, Karnataka.

Myxococcoides globosa Maithy & Shukla 1977**:** 177; pl. 1, fig. 2; LATE PRECAMBRIAN (Vindhyan Supergroup, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Maithy, Venkatachala & Lele 1983**:** 191; pl. 2, fig. 20; LATE PRECAMBRIAN (Subsurface Vindhyan sediments), Ujhani Deep well-1. Ujhani wells-1, 2 & 3. Budaun district, Uttar Pradesh.

Myxococcoides grandis Horodyski & Donaldson. Nautiyal 1984**:** 30; pl. 1, fig. 17, text-fig. 2; ALGONKIAN (Thalkedar Limestone Formation), Pithoragarh, Uttar Pradesh; Venkatachalapathy & Basavaraju, 1986: 179; pl. 1, figs. 12 & 13; LATE PRECAMBRIAN (Vobalpur Group), Dodguni area, Karnataka; Kumar & Srivastava 1995**:** 106; fig.11 B, 12 K, MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh; Kumar & Venkatachala 1998**:** 58; figs. 6a, b & f. LATE RIPHEAN-EARLY VENDIAN (Vaishnodevi Limestone Formation), Riasi Inlier, Riasi area, Jammu and Kashmir.

Myxococcoides indicus Venkatachala, Bhandari, Chaube & Rawat, 1974**:** 33; pl. 1, figs. 17-19; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist Belt), Dharwar, Karnataka; Nautiyal 1978a**:** 264; figs. 16-17; MIDDLE PRECAMBRIAN (Tejam Group, Gangolihat Dolomite Formation), Kumaon Himalaya, Pithoragarh, Uttar Pradesh; Nautiyal 1984**:** 30; pl. 1, fig. 18; ALGONKIAN (Tejam Group, Gangolihat Dolomite Formation), Kumaon Himalaya, Pithoragarh, Uttar Pradesh.

Myxococcoides inornata Schopf. Nautiyal 1983b**:** 176; pl. 1, fig. 22, text fig. 2E; UPPER TO MIDDLE ALGONKIAN (Bijawar Group, Parsoi Phyllite Formation), north of Kajrahat, Son valley, Mirzapur district, Uttar Pradesh; Nautiyal I984**:** 31; pl. 1, fig. 20; ALGONKIAN (Bijawar Group), Son valley, Mirzapur district, Uttar Pradesh;

Mandal, Maithy, Barman & Verma 1984**:** 5; pl. 1, fig. 1; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan; Kumar & Srivastava 1992a: 300; fig. 8F; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

Myxococcoides magnus Maithy & Shukla 1977**:** 178; pl. 1, fig. 3; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Myxococcoides minor Schopf. Viswanathiah, Venkatachalapathy & Naresh 1978**:** 478; pl. 1, fig. 12; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical locality not mentioned, Karnataka; Nautiyal 1978b**:** 296; figs. 1-6, 12-3; LATE PRECAMBRIAN (Amri Unit), northeastern Dogadda, Garhwal Himalaya, Uttar Pradesh; McMenamin, Kumar & Awramik 1983**:** 258; figs. 5 B-C; PROTEROZOIC (Semri Group, Kheinjua Formation), Son valley, Mirzapur district, Uttar Pradesh; Venkatachalapathy & Ravindra 1984**:** 43; pl. 1, fig. 12; PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka; Mandal, Maithy, Barman & Verma 1984**:** 6; pl. 1, figs. 3-4; pl. 3, fig. 24; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan; Venkatachalapathy & Basavaraju, 1986: 179; pl. 1, fig. 6; LATE PRECAMBRIAN (Vobalpur Group), Dodguni area, Karnataka; Venkatachalapathy & Shekhar, 1986: 195; pl. 1, fig. 1; PRE RIPHEAN-RIPHEAN (Papagini Group, Vempalle Formation), Andhra Pradesh; Nautiyal 1986b**:** 111; pl. 1, figs. 7, 8; pl. 2, figs. 24-26, text figs. 2 R, S; MIDDLE PROTEROZOIC (Semri Group, Rohtas Limestone Formation), north of Pakri village section, Son valley, Mirzapur district, Uttar Pradesh; Shukla, Tewari & Yadav 1986**:** 349; pl. 2, fig. 8; LATE PRECAMBRIAN (Deoban Limestone Formation), Chakrata area, Dehradun district, Uttar Pradesh; Sarkar 1989: 33; pl. 2, fig. 4; PRECAMBRIAN (Banded Iron Formation), Noamundi Basin, Bihar; Venkatachala, Shukla, Bansal & Acharyya 1990: 32; pl. 1, fig. 6; UPPER PROTEROZOIC (Krol Group, Infra Krol Formation), Nainital Syncline, Kumaon Himalaya; Venkatachala, Shukla, Bansal & Acharyya 1990: 34; pl. 1, fig. 11; PROTEROZOIC (Krol Group, Infra Krol Formation) Nainital Syncline, Kumaon Himalaya; Kumar & Srivastava 1992a: 300; fig. 8-A; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh; Kumar & Srivastava 1995**:** 106; figs. 8F, 11F; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.4; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh; Sharma 2006: 81; figs. 6 g, i, k & m; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar; Shukla, Tewari, Babu & Sharma 2006: 60; pl. 1, fig. 17; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Myxococcoides psilata Maithy & Mandal 1983: 131; pl. 1, fig. 1; LATE PROTEROZOIC (Rewa Group, Panna Shale Formation), Bapoti village, Karauli-Sapotra, northeast Rajasthan; Maithy & Meena 1989: 181; pl. 1, fig. 21; NEOPROTEROZOIC (Bhander Group, Nagod Limestone and Sirbu Shale Formations), Satna-Maihar area, Satna district, Madhya Pradesh.

Myxococcoides ramapurensis. Maithy & Shukla 1977: 177; pl. 1, fig. 1; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Myxococcoides reticulata Venkatachala, Yadav & Shukla 1990: 478; pl. 2, figs. 8-10**:** MIDDLE L PROTEROZOIC MESOPROTEROZOIC (Semri Group, Nauhatta Limestone Formation), Rohtasgarh district, Bihar.

Myxococcoides sp. A Nautiyal 1978a**:** 264; fig. 18; PRECAMBRIAN (Gangolihat Dolomite Formation), Kumaon Himalaya, Pithoragarh district, Uttar Pradesh.

Myxococcoides sp. Venkatachala, Bhandari, Chaube & Rawat 1974: 33; pl. 2, fig. 38; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist Belt), Dharwar, Karnataka.

Myxococcoides sp. Mathur 1983**:** 136; pl. 1, fig. 12; LATE PRECAMBRIAN (Subsurface Pre-

unconformity sediments), Puranpur well No. 2, Ganga Basin, Budaun district, Uttar Pradesh.

Myxococcoides sp. Schopf. Maithy, Babu, Raina & Kumar 1988**:** 641; fig. 1.10; LATE PROTEROZOIC (Machhal and Lolab Formations), Putshai-Wanner section, Lolab valley, Kupwara district, Kashmir Himalaya.

Myxococcoides sp. Joshi, Mathur & Kumar 1988**:** 118; fig. 3; LATE PRECAMBRIAN (Baliana Group, Blaini Formation), Mussoorie, Dehradun district, Uttar Pradesh.

Myxococcoides sp. Nautiyal 1988a: 84-85; pl. 1, fig. 26; LATE ALGONKIAN (Puranpur well), Budaun district, Ganga valley, Uttar Pradesh.

Myxococcoides sp. Kumar & Srivastava 1992b: 371; figs. 3 c & d; MIDDLE PROTEROZOIC (Semri Group, Bhagwanpura Limestone Formation), Chittorgarh area, Rajasthan.

Myxococcoides sp. Maithy & Babu 1996**:** 5; pl. 1, figs. 13-14; LATE PROTEROZOIC (Bhima Group, Halkal Formation), Karnataka.

Myxococcoides sp. Tiwari 1996b: 564; pl. 2, fig. 14; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh.

Myxococcoides sp. Rai & Gautam 1998: 544; figs. 3e-g; NEOPROTEROZOIC (Shali Group, Khatpul Formation), Mandi district, Himachal Pradesh.

Myxococcoides sp. Moitra 1999: 66; fig. 62; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Akaltara sections, Bilaspur district, Madhya Pradesh.

Myxococcoides sp. Tiwari & Pant 2004a: 7, fig. 8; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh.

NANOCOCCUS Oehler

Nanococcus vulgaris Oehler. Maithy & Mandal 1983**:** 131; pl. 1, fig. 2; LATE PROTEROZOIC (Rewa Group, Panna Shale Formation), Bapoti village, Karauli-Sapotra, northeast Rajasthan; Maithy 1984**:** 83; pl. 1, figs. 1-6; LATE PRECAMBRIAN (Bilara Group), Bhadora area, Rajasthan.

NEOSCYTONEMA Maithy

Neoscytonema, Maithy 1980: 280; fig. 1; PRECAMBRIAN (Penganga Formation), Wardha valley, Maharashtra.

NEONOSTOC Nautiyal

Neonostoc sangrampurensis Nautiyal 1986a**:** 6; pl. 2, figs. 2-6, text fig. 3B, MIDDLE PROTEROZOIC (Semri Group, Tirohan Limestone Formation), Sangrampur hill, Banda district, Uttar Pradesh.

Nostoc Sastri & Venkatachala 1968: 78; pl. 1, fig. 17; PRECAMBRIAN (Ganga valley), Ujhani deep well, Uttar Pradesh.

NOSTOCOMORPHA Xing & Liu

Nostocomorpha sp. Venkatachala & Kumar 1996**:** 553; pl. 1, figs. 4-5; LATE RIPHEAN-EARLY VENDIAN (Jammu Limestone), Riasi-Katra area, Jammu and Kashmir.

Nostocomorpha sp. Srivastava & Kumar 2003: 24; pl. 7 fig. 3; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

OBRUCHEVELLA Reitlinger

Obruchevella delicata Reitlinger. Prasad, Uniyal & Asher 2005**:** 54; pl. 10., figs. 7, 11; pl. 11, fig. 11; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Obruchevella magna Golovenok & Belova. Tiwari 1996a: 562; pl. 1, fig. 7; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh.

Obruchevella minor Zhang. Srivastava & Kumar 2003**:** 32; pl. 10 figs. 5, 6; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal.

Obruchevella parva Reitilinger. Tiwari 1996a: 562; pl. 1, figs. 6, 11; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh; Srivastava & Kumar 2003: 32; pl. 10, fig. 3; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttar Pradesh; Rai & Singh 2004: 191; pl.-1, figs. 1-4; MESOPROTEROZOIC (Semri Group, Kheinjua Subgroup, Salkhan Limestone Formation), Salkhan hill, Sonbhadra district, Son valley, Uttar

Pradesh; Tiwari & Pant 2004a: 6; figs. 3B-D, G; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan and Nainital areas in Himachal Pradesh and Uttaranchal; Prasad, Uniyal & Asher 2005: 54; pl. 10, figs. 4, 12; pl.11, fig.9; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2. 19; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh; Shukla, Tewari, Babu & Sharma 2006: 64; pl. 2, figs. 1, 20; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Obruchevella parvissima Song. Prasad, Uniyal & Asher 2005**:** 54; pl. 11, fig. 10; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Obruchevella pussila Golovenok & Belova**.** Rai & Singh 2004**:** 191 pl. 1, figs. 5-11 MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation) Salkhan hill, Sonbhadra district, Son valley, Uttar Pradesh.

Obruchevella valdaica. Jankauskas.Srivastava & Kumar 2003**:** 32; pl. 10, fig. 7; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal; Prasad, Uniyal & Asher 2005**:** 54; pl. 10., figs.5, 6; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh; Shukla, Tewari, Babu & Sharma 2006: 64; pl. 1, fig. 19; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Obruchevella sp. Srivastava & Kumar 1997: 146; fig. 4 i; NEOPROTEROZOIC (Deoban Formation), Deoban hill, Chakrata area, Dehradun district, Uttar Pradesh.

Obruchevella sp. Kumar & Rai 1992**:** 230; pl. 1, figs. 4-6; VENDIAN (Krol Group, Krol-A member), Solan district, Himachal Pradesh.

Obruchevella sp. Venkatachala & Kumar 1996**:** 552; pl. 1, fig. 8; LATE RIPHEAN-EARLY VENDIAN (Jammu Limestone Formation), Riasi-Katra area, Jammu.

OSCILLATORIOPSIS Schopf

Oscillatoriopsis amadeus Schopf. Srivastava & Kumar 2003**:** 28; pl. 7, fig. 8; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

Oscillatoriopsis breviconvexa Schopf & Blacic. Kumar & Srivastava 1995**:** 107; fig.13 E, MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh; Srivastava & Kumar 2003**:** 28; pl. 7, figs. 4, 10; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttaranchal; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2. 22; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh; Shukla, Tewari, Babu & Sharma 2006: 61; pl. 1, fig. 2 o; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Oscillatoriopsis constricta Tynni & Donner. Moitra 1999: 61; fig. 42; PROTEROZOIC (Chhattisgarh Group, Raipur and Charmuria Limestone Formations), Hirri and Nandini Mine sections, Raipur district, Madhya Pradesh.

Oscillatoriopsis constrictum Kumar & Srivastava 1995; 113; fig. 13A, MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh.

Oscillatoriopsis grandis Kumar & Srivastava 1995**:** 110; fig. 13 F; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh.

Oscillatoriopsis longa Butterfield *et* al., Sharma 2006: 91; figs. 12 g, i; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Oscillatoriopsis majusculus Knoll *et* al., Tiwari & Pant 2004a: 7, fig. 3 K; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttaranchal.

Oscillatoriopsis media Schopf & Mendelson. Shukla, Tewari & Yadav 1986**:** 349; pl. 1, figs. 1 & 22; LATE PRECAMBRIAN (Deoban Limestone Formation), Chakrata area, Dehradun district, Uttar Pradesh; Tiwari & Azmi 1990: 389; pl. 1, fig. 9; LATE PROTEROZOIC (Krol Group, Infra

Krol Formation) Anjidhang, Solan, Himachal Pradesh; Tiwari 1996a: 562; pl. 1, fig. 4; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttaranchal; Tiwari & Pant 2004a: 6; figs. 3 E, H. NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttaranchal; Shukla, Babu, Mathur & Srivastava 2004**:** 868; fig. 2. iv; TERMINAL NEOPROTEROZOIC (Tal Group, Deb Ka Tibba Formation), Nigalidhar Syncline, Rayon, Sirmaur district, Himachal Pradesh; Sharma 2006: 90; fig. 12 c; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Oscillatoriopsis obtusa Schopf**.** Mandal, Maithy, Barman & Verma 1984**:** 7; pl. 3, fig. 23; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan; Srivastava & Kumar 2003: 28; pl. 9, fig. 4; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttaranchal; Tiwari & Pant 2004b: 1736; pl. 3, figs. h, j; NEOPROTEROZOIC (Gangolihat Dolomite Formation), Jhiroli Magnesite mine, Uttaranchal.

Oscillatoriopsis psilata Maithy & Shukla 1977**:** 179; pl. 2, fig. 12, LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Prasad, Uniyal & Asher 2005:26-27; pl. 8, fig.15; pl, 10 fig. 1; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Oscillatoriopsis raipurensis Moitra 1999: 61; fig. 40; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Hirri Mine section, Raipur district, Madhya Pradesh.

Oscillatoriopsis robusta Schopf & Blacic. Nautiyal 1990: 185; pl. 2, figs. 8-9; MIDDLE PROTEROZOIC (Tejam Group, Gangolihat Dolomite Formation), Pithoragarh in Kumaon and Satpuli in Garhwal, Uttar Pradesh; Shukla, Tewari, Babu & Sharma 2006: 61; pl. 1, fig. 13; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Oscillatoriopsis schopfii Oehler. Moitra 1999: 62; fig. 43; PROTEROZOIC (Chhattisgarh Group, Raipur and Charmuria Limestone Formations), Hirri and Akoli Mine sections, Raipur district, Madhya Pradesh.

Oscillatoriopsis sp. Mathur 1983**:** 136; pl. 1, fig. 14; LATE PRECAMBRIAN (Subsurface Pre-unconformity sediments), Puranpur well No.2, Ganga Basin, Budaun district, Uttar Pradesh.

Oscillatoriopsis sp. Nautiyal 1988a: 84-85; pl. 1, fig. 28; LATE ALGONKIAN (Puranpur well), Budaun district, Ganga valley, Uttar Pradesh.

Oscillatoriopsis sp. Moitra 1990**:** 394; pl. 4, figs. 2, 5; LATE RIPHEAN (Chhattisgarh Group, Raipur Limestone Formation), Nandghat and Nandini Mine sections, Raipur district, Madhya Pradesh.

Oscillatoriopsis sp. Moitra 1990: 393; pl. 4, figs. 2 & 5; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Nandghat and Nandini Mine sections, Raipur district, Madhya Pradesh.

Oscillatoriopsis sp. Kumar & Srivastava 1992a: 313; fig. 10 D; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh.

Oscillatoriopsis sp. Kumar & Srivastava 1995**:** 110; fig. 13-B; fig. 14-I, MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh.

Oscillatoriopsis sp. Tiwari 1996a: 562; pl. 1, fig. 8; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh.

Oscillatoriopsis sp. Kumar & Venkatachala 1998**:** 63; figs. 6 j. LATE RIPHEAN-EARLY VENDIAN (Vaishnodevi Limestone Formation), Riasi Inlier, Riasi area, Jammu and Kashmir.

Oscillatoriopsis sp. Moitra 1999: 61; fig. 41; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Hirri and Nandini Mine sections, Raipur district, Madhya Pradesh.

Oscillatoriopsis sp. Prasad, Uniyal & Asher 2005: 26; pl. 8, fig. 1; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Paired cells Schopf & Prasad 1978: 359-360; figs. 3 A, E, K; ARCHAEAN (Cuddapah Supergroup, Vempalle Formation), near Bramanapalle, Andhra Pradesh.

PAKRIA Nautiyal

Pakria kheinjuaensis Nautiyal 1983b**:** 180; pl. 1, figs. 43-44, text figs. 2Q, Q'. UPPER TO MIDDLE ALGONKIAN (Semri Group, Kheinjua Formation), 1 km NW of Pakri village, Mirzapur, district, Uttar Pradesh.

PALAEOANACYSTIS Schopf

Palaeoanacystis minor Sharma 2006: 83; figs. 6f, h, j, l, n, o; figs. 8a-b, d-e; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Harna village, Rohtas district, Bihar.

Palaeoanacystis punctatus Maithy & Shukla 1977**:** 178; pl. 1, fig. 5. LATE PRECAMBRIAN (Vindhyan Supergroup, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Palaeoanacystis puraianum Venkatachala, Bhandari, Chaube & Rawat 1974**:** 33; pl. 2, fig. 28; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist Belt), Dharwar, Karnataka.

Palaeoanacystis reticulatus Maithy & Shukla 1977**:** 178; pl. 1, fig. 7; LATE PRECAMBRIAN (Vindhyan Supergroup, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Palaeoanacystis suketensis Maithy & Shukla 1977**:** 178; pl. 1, fig. 4, LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Nautiyal 1983b**:** I77; pl. 1, fig. 21, text fig. 2F; UPPER-MIDDLE ALGONKIAN (Semri Group, Arangi Formation), north of Kajrahat, Son valley, Mirzapur district, Uttar Pradesh; Nautiyal 1984**:** 32; pl. 1, fig. 27, text-fig. 2; ALGONKIAN (Semri Group, Arangi Formation), north of Kajrahat, Son valley, Uttar Pradesh; Nautiyal 1986a**:** 11; pl. 2, fig. 10, fig. 3 C-E. MIDDLE PROTEROZOIC (Semri Group, Chitrakoot Formation), Sangrampur hill, Chitrakoot, Banda district, Uttar Pradesh; Nautiyal 1986b**:** 111; pl. 2, fig. 23, text fig. 2T; PROTEROZOIC (Semri Group, Rohtas Limestone Formation), north of Pakri village, Son valley, Mirzapur district, Uttar Pradesh.

Palaeoanacystis verrucosus Maithy & Shukla 1977**:** 178; pl. 1, fig. 6; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Maithy, Venkatachala & Lele 1983**:** 191; pl. 1, figs. 21-22; LATE PRECAMBRIAN (Subsurface Vindhyan Sediments), Ujhani Deep well-1. Ujhani wells 1, 2 & 3, Budaun district, Uttar Pradesh; Maithy & Babu 1993**:** 44; pl. 1, fig. 10; LATE RIPHEAN-VENDIAN (Bhander Group, Ganurgarh Shale Formation), near Midghat Railway station, Bhopal district, Madhya Pradesh.

Palaeoanacystis vulgaris Schopf. Viswanathiah, Venkatachalapathy & Naresh 1978**:** 477; pl. 1, fig. 4; MIDDLE RIPHEAN (Kaladgi Supergroup, Bilgi Quartzarenite), geographical locality not mentioned, Karnataka; Viswanathiah & Venkatachalapathy 1980**:** 18; pl. 1, fig. 17; EARLY PROTEROZOIC (Schimoga Schist Belt, Bababudan Iron Formation), Dharwar, Karnataka; Nautiyal 1983b**:** 176; pl. 1, figs. 19-20, UPPER TO MIDDLE ALGONKIAN (Semri Group, Patherwa Sandstone Formation), north of Kajrahat, (Bijawar Group, Phyllites), Son valley, Dala, Mirzapur district, Uttar Pradesh; Viswanathiah, Venkatachalapathy & Narayan Shetty 1984**:** 65; pl. 2, fig. 7; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka; Viswanathiah, Venkatachalapathy & Raghunath 1984**:** 53; pl. 1, figs. 2, 8; pl. 2, figs. 5, 8 &10; EARLY RIPHEAN (Kaladgi Supergroup, Salagundi Conglomerate Formation), Bijapur district, Karnataka; Venkatachalapathy & Ravindra 1984**:** 43; pl. 1, figs. 10-11; PRECAMBRIAN (Bababudan Group, Mulaingiri Formation), Chikmagalur district, Karnataka; Nautiyal 1984**:** 32; pl. 1, fig. 28; ALGONKIAN (Cuddapah Supergroup, Gulcheru Quartzite and Vempalle Formation), geographical location not mentioned, Andhra Pradesh;Mandal, Maithy, Barman & Verma 1984**:** 6; pl. 4, figs. 26-28; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan; Venkatachalapathy & Basavaraju, 1986: 179; pl. 1, figs. 7 & 16; LATE PRECAMBRIAN (Vobalpur Group), Dodguni area, Karnataka; Nautiyal 1986b**:** 112; pl. 2, figs. 27, 29, text figs. 2 U-W; MIDDLE PROTEROZOIC (Semri Group, Rohtas Formation), Son valley, north of Pakri village, Mirzapur district, Uttar Pradesh; Acharyya, Raha, Das, Moitra, Shukla & Bansal 1989: 141; pl. 1, fig. 8, 10, 12-15; LATE PROTEROZOIC (Krol Group, Infra Krol Formation), Krol Belt, Nainital Synform, Kumaon Himalaya, Uttar Pradesh; Venkatachala, Shukla,

Bansal & Acharyya 1990: 34; pl. 1, fig. 13; UPPER PROTEROZOIC (Krol Group, Infra Krol Formation) Nainital Synform, Kumaon Himalaya. Tiwari & Azmi 1990: 389; pl. 1, fig. 14; LATE PROTEROZOIC (Krol Group, Infra Krol Formation) Anjidhang, Solan, Himachal Pradesh; Venkatachala, Yadav & Shukla, 1990: 479; pl. 2, fig. 15; MESOPROTEROZOIC (Semri Group, Nauhatta Limestone Formation), Rohtasgarh district, Bihar; Tiwari 1996b: 564; pl. 2, fig. 15; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh; Sharma 2006: 81; figs. 6a-e; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar; Shukla, Tewari, Babu & Sharma 2006: 60; pl. 1, fig. 7; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Palaeoanacystis sp. Mathur 1983**:** 136; pl. 1, fig. 11; LATE PRECAMBRIAN (Subsurface Pre-unconformity sediments), Puranpur well-2; Ganga Basin, Budaun district, Uttar Pradesh; Kumar & Venkatachala 1998**:** 62; figs. 6h-i; LATE RIPHEAN-EARLY VENDIAN (Vaishnodevi Limestone Formation), Riasi Inlier, Riasi area, Jammu and Kashmir.

Palaeoanacystis sp. Nautiyal 1988a: 84-85; pl. 1, fig. 25; LATE ALGONKIAN (Puranpur well), Budaun district, Ganga valley, Uttar Pradesh.

PALAEOCOCCUS Srivastava & Kumar

Palaeococcus indicus Srivastava & Kumar 2003, 32; pl. 3 figs. 6-7; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

PALAEOGLAUCOCYSTIS Maithy & Mandal

Palaeoglaucocystis ghoshii Maithy & Mandal 1983**:** 134; pl. 1, figs. 9-10; LATE PROTEROZOIC (Bhander Group, Upper Bhander Sandstone Formation), Ranipura, Karauli-Sapotra region, northeastern Rajasthan; Maithy & Mandal 1984: 246; pl. 1, figs. 1-7; LATE PROTEROZOIC (Semri group, Tirohan Limestone Formation, and Bhander Group, Upper Bhander Sandstone Formation) 1 km north of Karauli on Karauli-Hindaun road. Rajasthan.

PALAEOLYNGBYA Schopf

Palaeolyngbya baraudensis Mandal, Maithy. Barman & Verma 1984**:** 7; pl. 1, fig. 9; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan.

Palaeolyngbya barghoorniana Schopf. Viswanathiah, Venkatachalapathy & Narayan Shetty 1984: 65; pl. 3, fig. 2; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka; Venkatachala, Shukla, Bansal & Acharyya 1990: 32; pl. 1, fig. 4; UPPER PRTOTEROZOIC (Krol Group, Infra Krol Formation) Nainital Syncline, Kumaon Himalaya, Uttar Pradesh; Nautiyal 1990: 185; pl. 2, fig. 15; MIDDLE PROTEROZOIC (Tejam Group, Gangolihat Dolomite Formation), Pithoragarh in Kumaon and Satpuli in Garhwal, Uttar Pradesh.

Palaeolyngbya cantenata Schopf. Srivastava & Kumar 2003**:** 30; pl. 9 figs. 5-6; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Garhwal Lesser Himalaya, Uttaranchal; Shukla, Tewari, Babu & Sharma 2006: 62; pl. 1, fig. 11; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Palaeolyngbya distinctica Mandal, Maithy. Barman & Verma 1984**:** 7; pl. 2, figs. 10-11; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan.

Palaeolyngbya elongata Mandal & Maithy in Mandal, Maithy, Barman & Verma 1984**:** 7; pl. 3, fig. 20; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan.

Palaeolyngbya minuta Nautiyal 1986b**:** 113; pl. 2, figs. 36-38, text figs. 2 b-d; MIDDLE PROTEROZOIC (Semri Group, Rohtas Formation), Son valley, 1 km NW of Pakri village, Mirzapur district, Uttar Pradesh;.

Palaeolyngbya maxima Nautiyal 1990: 185; pl. 2, figs. 16-17; MIDDLE PROTEROZOIC (Tejam Group, Sor Slates Formation), Pithoragarh in Kumaon and Satpuli in Garhwal districts, Uttar Pradesh.

Palaeolyngbya rohtasensis Nautiyal 1986b**:** 112; pl. 1, figs. 2-4; pl**.** 2, figs. 30-35, text figs. 2 Y, Z;

MIDDLE PROTEROZOIC (Semri Group, Rohtas Formation), Son valley, 1 km NW of Pakri village, Mirzapur district, Uttar Pradesh.

Palaeolyngbya sp. Kumar & Srivastava 1995: 113; figs. 13 C, 14 A-B; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh.

PALAEOMERISMOPEDIA Srivastava & Kumar

Palaeomerismopedia misrae Srivastava & Kumar 2003: 22; pl. 3, fig. 5; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

PALAEONOSTOC Sastri *et* al.

Palaenostoc barghoornii Nautiyal 1980: 5; figs. 1 G-I; MIDDlE PRECAMBRIAN (Gangolihat Dolomites Formation), Bans, Pithoragarh district, Uttar Pradesh.

Palaeonostoc indica Sastri, Venkatachala & Desikachary 1972: 159; pl. 1, fig. 1; LATE PRECAMBRIAN (Pre Siwalik subsurface sediments), Tilhar deep well, Ganga valley, Uttar Pradesh.

Palaeonostoc sp. Mathur 1983: 136; pl. 1, figs. 15, 16 & 17; LATE PRECAMBRIAN (Pre-unconformity subsurface sediments), Puranpur well No. 2, Ganga Basin, Budaun district, Uttar Pradesh.

Palaeonostoc sp. Nautiyal 1988a: 84-85; pl. 1, figs. 29-31; LATE ALGONKIAN (Tilhar well), Ganga valley, Ujhani area, Uttar Pradesh.

PALAEONOSTOCHOPSIS Nautiyal

Palaeonostochopsis vindhyanensis Nautiyal 1983b: 175; pl. 1, figs. 5-9, text fig. 2D; UPPER TO MIDDLE ALGONKIAN (Semri Group, Patherwa Formation), Son valley, 1 Km west of Kajrahat, Mirzapur district, Uttar Pradesh.

PALAEOPLEUROCAPSA Knoll *et* al.

Palaeopleurocapsa wopfnerii Knoll. Nautiyal 1983b: 177; pl. 1, figs. 28-31, text fig. 2K; UPPER TO MIDDLE ALGONKIAN (Semri Group), Son valley, north of Kajrahat, Dala and Pakri villages, Mirzapur district, Uttar Pradesh; Nautiyal 1984: 33; pl. 1, figs. 33-35; ALGONKIAN (Exact stratigraphic horizon not mentioned), Son valley, Mirzapur district, Uttar Pradesh; Kumar & Venkatachala 1998: 56; figs. 4a-c; LATE RIPHEAN-EARLY VENDIAN (Vaishnodevi Limestone Formation), Riasi Inlier, Riasi area, Jammu and Kashmir.

Palaeopleurocapsa sp. Knoll *et* al., Kumar & Srivastava 1995: 108; figs. 8 B, D, 11-C, 12-E, MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh; Srivastava & Kumar 2003: 18; pl. 3, figs. 1-2; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

PALAEOSCYTONEMA Edhorn

Palaeoscytonema indica Mandal, Maithy, Barman & Verma 1984: 9; pl. 2, fig. 12; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan.

Palaeoscytonema intermingla Mandal, Maithy, Barman & Verma 1984: 9; pl. 3, figs. 22-23; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan.

Palaeoscytonema misrae Mandal, Maithy, Barman & Verma 1984: 10; pl. 2, fig. 13; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan.

Palaeoscytonema srivastavae Maithy & Shukla 1977: 180; pl. 2, figs. 13-14; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Madhya Pradesh.

Palaeoscytonema sp. Mathur 1983: 136; pl. 1, figs. 18-19; LATE PRECAMBRIAN (Pre-unconformity subsurface sediments), Puranpur well No. 2, Ganga Basin, Budaun district, Uttar Pradesh.

Palaeoscytonema sp. Nautiyal 1988a: 84-85; pl. 1, fig. 32; LATE ALGONKIAN (Puranpur well), Budaun district, Ganga valley, Uttar Pradesh.

PALAEOSIPHONELLA Licari

Palaeosiphonella sp. Maithy, Babu, Raina & Kumar 1988: 641; fig. 1.15; LATE PROTEROZOIC (Machhal and Lolab Formations), Putshai-Wanner section, Lolab valley, Kupwara district, Kashmir Himalaya.

PARATETRAPHYCUS Zhang

Paratetraphycus giganteus Zhang. Shukla, Tewari, Babu & Sharma 2006: 68; pl. 1, figs. 2-3, 5; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Paratetraphycus sp. Shukla, Tewari, Babu & Sharma 2006: 60; pl. 1, figs. 8-9; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

PARTITIOFILUM Sergeev et al.

Partitiofilum yakshinii Sergeev et al., Shukla, Tewari, Babu & Sharma 2006: 62; pl. 1, fig. 4; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

PHORMIDELLA Venkatachala et al.

Phormidella sandurense Venkatachala, Shukla, Sharma, Naqvi, Srinivasan & Udairaj, 1990**:** 30; fig. 4 A, C; ARCHAEAN (Dharwar Supergroup, Donimalai Formation), Karnataka.

Phormidella tenue Venkatachala, Shukla, Sharma, Naqvi, Srinivasan & Udairaj 1990**:** 31; figs. 4B, D; ARCHAEAN (Dharwar Supergroup, Donimalai Formation), Karnataka.

POLYTHRICHOIDES Hermann

Polythricoides lineatus Hermann. Maithy & Babu 1993**:** 45; pl. 1, fig. 15; LATE RIPHEAN-VENDIAN (Bhander Group, Ganurgarh Shale Formation), near Midghat Railway station, Bhopal district, Madhya Pradesh; Tiwari, 1996a: 562; pl. 1, fig. 3; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh; Srivastava & Kumar 2003**:** 28; pl. 8 fig. 7; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttaranchal; Prasad, Uniyal & Asher 2005**:** 54; pl. 1, fig.13; pl. 2, fig.12; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh; Shukla, Tewari, Babu & Sharma 2006: 62; pl. 2, figs. 2-3; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

POLYBESSURUS Fairchild

Polybessurus bipartites Fairchild & Green. Tiwari 1996a: 564; pl. 2, fig. 12; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh.

PRIMAEVIFILUM Schopf

Primaevifilum minutum Schopf. Maithy, Kumar & Babu 2000**:** 100; fig. 3.1; ARCHAEAN (Iron Ore Group), Kashia Mine, 6 km west of Barbil, Orissa.

PRIMORIVULARIA Edhorn

Primorivularia robusta Mandal, Maithy, Barman & Verma 1984**:** 10; pl. 3, fig. 23B; LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km east of Baraud village, Alwar district, Rajasthan.

RICHNONEMA Hofmann

Richnonema antiquum Hofmann. Sarkar 1989: 35; pl. 2, fig. 8; PRECAMBRIAN (Banded Iron Formation), Noamundi Basin, Bihar; Srivastava & Kumar 2003**:** 28; pl. 7, fig. 9; pl. 8, fig. 6; pl. 9, fig. 2; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

RUGOCYSTIS Venkatachala et al.

Rugocystis velaris Venkatachala, Bhandari, Chaube & Rawat, 1974**:** 31-32; pl. 2, figs. 24-27, & 37; MIDDLE TO EARLY LATE PRECAMBRIAN (Dharwar Supergroup, Shimoga Schist belt), Dharwar, 8 km short of Dharwar city, Karnataka.

SACCIFERA Maithy & Mandal

Saccifera tirohanensis Maithy & Mandal 1983**:** 135; pl. 2, figs. 16-18; LATE PROTEROZOIC (Semri Group, Tirohan Limestone Formation), Naroli Fort, Karauli-Sapotra region, northeastern Rajasthan.

SALOME Knoll

Salome hubeiensis Zhang. Tiwari & Knoll 1994: 199; pl. 1, fig. 10; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh; Tiwari 1996a: 562; pl. 1, figs. 9, 10; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh; Tiwari & Pant 2004a: 7; figs. 3 F, I, J; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan, Nainital areas in Himachal Pradesh and Uttaranchal.

SCISSILISPHAERA Green et al.

Scissilisphaera gradata Knoll & Calder. Srivastava & Kumar 2003**:** 18; pl. 2, figs. 6-7; pl. 6; figs. 7 & 10; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

SCHIZOTHRIX Harvey

Schizothrix symmetrica Moitra 1999: 66; fig. 60; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Raipur district, Madhya Pradesh.

SIMIA Timofeev

Simia annulare Mikhailova et al. Prasad, Uniyal & Asher 2005**:** 46; pl. 3., fig. 8; pl. 5 fig. 9; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

SIPHONOPHYCUS Schopf

Siphonophycus capetanium Knoll et al., Tiwari & Pant 2004b: 1735; pl. 3, figs. e-g, l; NEOPROTEROZOIC (Gangolihat Dolomite Formation), Jhiroli Magnesite mine, Uttaranchal.

Siphonophycus inornatum Zhang. Tiwari 1996a: 562; pl. 1, fig. 1; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh.

Siphonophycus kestron Schopf. Viswanathiah, Venkatachalapathy & Raghunath 1984**:** 54; pl. 2, fig. 11; EARLY RIPHEAN (Salagundi Conglomerate), Bijapur district, Karnataka; Shukla, Tewari & Yadav 1986**:** 349; pl. 1, figs. 8, 14; LATE PRECAMBRIAN (Deoban Limestone Formation), Chakrata area, Dehradun district, Uttar Pradesh; Venkatachala, Shukla, Bansal & Acharyya 1990: 32; pl. 1, fig. 3; UPPER PROTEROZOIC (Krol Group, Infra Krol Formation) Nainital Syncline, Kumaon Himalaya; Venkatachala, Yadav & Shukla 1990: 478; pl. 1, fig. 1; MESOPROTEROZOIC (Semri Group, Nauhatta Limestone Formation), Rohtasgarh district, Bihar; Tiwari & Azmi 1990**:** 389; pl. 1, fig. 8; LATE PROTEROZOIC (Krol Group, Infra Krol Formation) Anjidhang, Solan area, Solan district, Himachal Pradesh; Kumar & Srivastava 1992a: 316; fig. 10 H; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh, Uttar Pradesh; Kumar & Srivastava 1995: 114; figs. 13 D, 14 G, H; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh; Tiwari 1996a: 562; pl. 1, fig. 12; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh; Kumar & Venkatachala 1998. 63; fig. 5h; LATE RIPHEAN-EARLY VENDIAN (Vaishnodevi Limestone Formation), Riasi Inlier, Riasi area, Jammu and Kashmir; Prasad & Asher 2001**:** 112; pl. 9, figs. 8 & 12; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Tiwari & Pant 2004a: 4; figs. 2 C, D; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan and Nainital areas in Himachal Pradesh and Uttaranchal; Prasad, Uniyal & Asher 2005: 20; pl. 1, fig. 10; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.18; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh .

Siphonophycus punctatus Mandal et al., Tiwari & Pant 2004a: 6; fig. 2-H; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan, Nainital areas in Himachal Pradesh and Uttaranchal.

Siphonophycus robustum Knoll & Golubic. Kumar & Srivastava 1995**:** 114; fig. 14 C; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh; Tiwari 1996a: 562; pl. 1, figs. 2, 5; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh; Kumar & Venkatachala 1998**:** 63; fig. 6c; LATE RIPHEAN-EARLY VENDIAN (Vaishnodevi Limestone Formation), Riasi Inlier,

Riasi area, Jammu and Kashmir; Srivastava & Kumar 2003**:** 26; pl. 7, fig. 2; pl. 10, fig. 10; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttaranchal; Tiwari & Pant 2004b: 1735; pl. 3, figs. i, n; NEOPROTEROZOIC (Gangolihat Dolomite Formation), Jhiroli Magnesite mine, Lesser Himalaya, Uttaranchal; Tiwari & Pant 2004a**:** 4; figs. 2-A, I; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttaranchal; Shukla, Babu, Mathur & Srivastava 2005b: 203; pl. 1, fig. 18, TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital distirct, Uttaranchal; Prasad, Uniyal & Asher 2005: 24; pl. 1, fig. 7; pl. 5; fig. 12; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.15; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh; Sharma 2006: 92; fig.10 c, figs. 12a, d, f; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Siphonophycus rugosum (Maithy) Hofmann & Jackson**.** Prasad & Asher 2001**:** 112; pl. 9, figs. 6, 7; MESOPROTEROZOIC (Bahraich Group), Ganga Basin, Uttar Pradesh; Prasad, Uniyal & Asher 2005: 24; pl. 2, fig. 8; pl. 7 fig. 17; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh; Shukla, Tewari, Babu & Sharma 2006: 62; pl. 1, fig. 12; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh; Shukla, Babu, Mathur & Srivastava, 2005b: 203; pl. 1, figs. 20, 23; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital district, Uttaranchal.

Siphonophycus septatum Schopf. Kumar & Srivastava 1995; 114; fig. 14 D, MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh; Srivastava & Kumar 2003: 26; pl. 10, fig. 9; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttaranchal; Prasad, Uniyal & Asher 2005: 24; pl. 2, fig. 13; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.16; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh; Shukla, Babu, Mathur & Srivastava 2005b: 203; pl. 1, fig. 3; TERMINAL PROTEROZOIC (Krol Group, Infra Krol Formation), Nainital distirct, Uttaranchal; Sharma 2006: 92; figs. 12 b, h; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Siphonophycus septatus; Moitra 1999: 62; fig. 44; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Akoli Mine section, Raipur district, Madhya Pradesh.

Siphonophycus solidum Golubic. Srivastava & Kumar 2003**:** 26; pl. 7, fig. 6; pl. 9, fig. 6; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

Siphonophycus typicum Butterfield et al., Srivastava & Kumar 2003**:** 26; pl. 5, fig. 4; pl. 9, fig. 8; MESO-NEOPROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttaranchal; Tiwari & Pant 2004b: 1735; pl. 1, figs. a-c, k, o; NEOPROTEROZOIC (Gangolihat Dolomite Formation), Jhiroli Magnesite mine, Uttaranchal; Tiwari & Pant 2004a: 5; figs. 2 B, E; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttaranchal; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2. 13; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh; Shukla, Tewari, Babu & Sharma 2006: 62; pl. 1, fig. 14; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Siphonophycus sp. A Nautiyal =**Animiekia indica** (Nautiyal) Mandal, Maithy, Burman & Verma 1984: 10; plates and figures not mentioned in Delhi Supergroup, Kushalgarh Formation, Alwar district, Rajasthan.

Siphonophycus sp. Nautiyal 1988a: 84-85; pl. 1, fig. 27; LATE ALGONKIAN (Puranpur well), Budaun district, Ganga valley, Uttar Pradesh.

Siphonophycus sp. Kumar & Rai 1992**:** 230; pl. 1, fig. 8; VENDIAN, (Krol Group, Krol A member), Solan area, Solan district, Himachal Pradesh.

Siphonophycus sp. Maithy & Babu 1997: 4; pl. 1; fig. 1; VENDIAN (Bhander Group, Lakheri Limestone Formation), Maihar area, Satna district, Madhya Pradesh.

Siphonophycus sp. Moitra 1999: 62; figs. 45-49; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Raipur district, Madhya Pradesh.

Siphonophycus sp. Shukla, Tewari, Babu & Sharma 2006: 67; pl. 1, figs. 1, 5; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

SPHAEROCONGREGUS Moorman

Sphaerocongregus variabilis Moorman**.** Maithy & Babu 1994: 104; pl.1, figs. 1-29; LATE PROTEROZOIC (Bhander Group, Lower Bhander Limestone Formation), Maihar and Narsingharh areas, Satna & Damoh districts, Madhya Pradesh; Maithy & Babu 1997: 4; pl. 1; figs. 4, 7, 12; VENDIAN (Bhander Group, Lakheri Limestone Formation), Maihar area, Satna district, Madhya Pradesh.

Sphaerocongregus sp. Venkatachala & Kumar 1996**:** 554; pl. 1, figs. 11-12; LATE RIPHEAN-EARLY VENDIAN (Jammu Limestone Formation), Riasi-Katra area, Jammu.

Sphaeroidal cells Schopf & Prasad 1978: 359-360; figs. 3 B-D, F-J, L-W; ARCHAEAN (Cuddapah Supergroup, Vempalle Formation), near Bramanapalle, Andhra Pradesh.

Sphaeroidal cells (Thick walled) Schopf & Prasad 1978: 359-360; figs. 3 U, W; ARCHAEAN (Cuddapah Supergroup, Vempalle Formation), near Bramanapalle, Andhra Pradesh.

Sphaerical cells type I Form A Viswanathiah, Venkatachalapathy & Mahalakshamamma 1979b: 14; pl. 1, figs. 2, 10; ARCHAEAN (Dharwar Supergroup, Sargur Schist belt), south of Sargur, Mysore district, Karnataka.

Sphaerical cells type I Form B Viswanathiah, Venkatachalapathy & Mahalakshamamma 1979b: 14; pl. 1, figs. 1, 3, 5, 7; ARCHAEAN (Dharwar Supergroup, Sargur Schist belt), south of Sargur, Mysore district, Karnataka.

Sphaeroidal cells type III Form A Viswanathiah, Venkatachalapathy & Mahalakshamamma 1979b: 14; pl. 1, fig. 6; ARCHAEAN (Dharwar Supergroup, Sargur Schist belt), south of Sargur, Mysore district, Karnataka.

Sphaeroidal cells type III Form B Viswanathiah, Venkatachalapathy & Mahalakshamamma 1979b: 14; pl. 1, fig. 11; ARCHAEAN (Dharwar Supergroup, Sargur Schist belt), south of Sargur, Mysore district, Karnataka.

Sphaeroidal cells type III Form C Viswanathiah, Venkatachalapathy & Mahalakshamamma 1979b: 14; pl. 1, fig. 12; ARCHAEAN (Dharwar Supergroup, Sargur Schist belt), south of Sargur, Mysore district, Karnataka.

Sphaeroidal cells cf. *extant* **Synechocystis pevaleki** (Kultz) Nageli. Maithy, Kumar & Babu 2000**:** 100; figs. 3.3, 3.5; ARCHAEAN (Iron Ore Group), Kashia Mine, 6 km west of Barbil, Orissa.

Sphaeroidal cells cf. *extant* **Synechocystis equatilis** (Kultz) Nageli. Maithy, Kumar & Babu 2000**:** 100; figs. 3.6, 3.8-10; ARCHAEAN (Iron Ore Group), Kashia Mine, 6 km west of Barbil, Orissa.

Sphaeroidal cells type a cf. **Eosphaera** Pflug. Maithy & Avasthy 1982**:** 308; pl. 1, figs. 1-6; ARCHAEAN (Iron Ore Supergroup, Banded Iron Formation), Bhadrasai, Keonjhar district, Orissa.

Sphaeroidal cells type b Maithy & Avasthy 1982**:** 308; pl. 1, figs. 7-9; ARCHAEAN (Iron Ore Supergroup, Banded Iron Formation), Bhadrasai, Keonjhar district, Orissa.

Sphaeroidal cells type c Maithy & Avasthy 1982**:** 308; pl. 1, figs. 12-18; ARCHAEAN (Iron Ore Supergroup, Banded Iron Formation), Bhadrasai, Keonjhar district, Orissa.

Sphaeroidal cells type d Maithy & Avasthy 1982: 308; pl. 1, fig. 19; ARCHAEAN (Iron Ore Supergroup, Banded Iron Formation), Bhadrasai, Keonjhar district, Orissa.

Sphaeroidal cells type e cf. Aphanocapsa Maithy & Shukla. Maithy & Avasthy 1982: 308; pl. 1, figs. 10, 11, 16; ARCHAEAN (Iron Ore Supergroup, Banded Iron Formation), Bhadrasai, Keonjhar district, Orissa.

Sphaeroidal type a Raha, Parulkar, Ghosh, Some, Kundu, Kumar, Saha & Misra 2000**:** 666; figs. 2 B-H; ARCHAEAN (Bailadila Group, Banded Iron

Ore Formation), Sonadehi, left bank of Khandi river, Bastar, Keonjhar district, Madhya Pradesh.

Sphaeroidal type b Raha, Parulkar, Ghosh, Some, Kundu, Kumar, Saha & Misra 2000**:** 666; fig. 2 H; ARCHAEAN (Bailadila Group, Banded Iron Ore Formation), Sonadehi, left bank of Khandi river, Bastar, Keonjhar district, Madhya Pradesh.

Sphaeroidal type c Raha, Parulkar, Ghosh, Some, Kundu, Kumar, Saha & Misra 2000**:** 666; figs. 2 F-G; ARCHAEAN (Bailadila Group, Banded Iron Ore Formation), Sonadehi, left bank of Khandi river, Bastar, Keonjhar district, Madhya Pradesh.

Sphaeroidal type d Raha, Parulkar, Ghosh, Some, Kundu, Kumar, Saha & Misra 2000**:** 666; figs. 3 F-H; ARCHAEAN (Bailadila Group, Banded Iron Ore Formation), Sonadehi, left bank of Khandi river, Bastar, Keonjhar district, Madhya Pradesh.

SPHAERONASILLOS Allison & Awramik

Spahaeronasillos irregularis Allison & Awramik. Venkatachala, Shukla, Bansal & Acharyya 1990: 34; pl. 1, figs. 15, 16; UPPER NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital Syncline, Kumaon Himalaya, Uttar Pradesh.

SPHAEROPHYCUS Schopf

Sphaerophycus medium Horodyski & Donaldson. Maithy & Mandal 1983**:** 132; pl. 2, figs. 13-15; LATE PROTEROZOIC (Rewa Group, Panna Shale Formation), Sapotra town, Karauli-Sapotra, northeast Rajasthan; Nautiyal 1990: 185; pl. 1, fig. 13; pl. 2, fig. 25; MIDDLE PROTEROZOIC (Tejam Group, Thalkedar Limestone and Gangolihat Dolomite Formations), Pithoragarh in Kumaon and Satpuli in Garhwal districts, Uttar Pradesh; Kumar & Srivastava 1995**:** 107; fig. 8-M and fig. 12-F; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh; Tiwari, 1996a: 564; pl. 2, fig. 10; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh; Sharma 2006: 85; figs. 5 j, k, m, n; figs.7a-d; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Sphaerophycus miriabilis Moormann**.** Maithy & Babu 1997**:** 4; pl. 1, fig. 13; VENDIAN (Bhander Group, Lakheri Limestone Formation), Satna-Maihar area, Satna district, Madhya Pradesh.

Sphaerophycus parvum Schopf. Viswanathiah, Venkatachalapathy & Mahalakshmamma 1980: 25, fig. 25; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Karnataka; Viswanathiah & Venkatachalapathy 1980**:** 18; pl. 1, fig. 9; EARLY PROTEROZOIC (Shimoga Schist Belt, Bababudan Iron Formation), Dharwar. Karnataka; Misra & Singh 1981**:** 365; fig. 3; UPPER PROTEROZOIC (Dharamkot Limestone Formation), Dharamsala, Himachal Pradesh; Maithy & Gupta 1983**:** 159; pl. 1, figs. 5-6; PRECAMBRIAN (Semri Group, Bhagwar Shale Formation and Bhander Group, Nagod Limestone Formation), Chandrehi, Madhya Pradesh; Shukla, Tewari & Yadav 1986**:** 349; pl. 2, figs. 11-18; LATE PRECAMBRIAN (Deoban Limestone Formation), Chakrata area, Dehradun district, Uttar Pradesh; Maithy & Meena 1989**:** 181; pl. 1, fig. 30; NEOPROTEROZOIC (Bhander Group, Nagod Limestone and Sirbu Shale Formations), Satna-Maihar area, Satna district, Madhya Pradesh; Sarkar 1989: 33; pl. 2, fig. 1; PRECAMBRIAN (Banded Iron Formation), Noamundi Basin, Bihar; Tiwari & Azmi 1990: 389; pl. 1, figs. 16, 17, 20; LATE PROTEROZOIC (Krol Group, Infra Krol Formation) Anjidhang, Solan area, Solan district, Himachal Pradesh; Kumar & Srivastava 1992a: 310; fig. 8 D; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh, Uttaranchal; Kumar & Srivastava 1995**:** 107; fig. 8 L; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh; Tiwari 1996a: 564; pl. 2, fig. 8; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh; Maithy & Babu 1997: 4; pl. 1, fig. 8; VENDIAN (Bhander Group, Lakheri Limestone Formation), Satna-Maihar area, Satna district, Madhya Pradesh; Tiwari & Pant 2004b: 1736; pl. 3 fig. s; LATE PROTEROZOIC (Gangolihat Dolomite Formation), Jhiroli Magnesite mine, Uttaranchal; Prasad, Uniyal & Asher 2005**:** 21; pl. 4, fig. 7; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh; Sharma 2006: 83; fig. 5i; MESOPROTEROZOIC

(Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Sphaerophycus sp. Prasad, Uniyal & Asher 2005**:** 21; pl. 4, figs. 3-4; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

SPIROMORPHA Baudet et al.

Spiromorpha sp. Baudet et al.,Venkatachala & Kumar 1996**:** 552; pl. 1, fig. 7; LATE RIPHEAN-EARLY VENDIAN (Jammu Limestone Formation), Riasi-Katra area, Jammu and Kashmir.

TAENIATUM Sin & Liu

Taeniatum sp. Maithy & Meena 1989**:** 183; pl. 1, figs. 1, 2; NEOPROTEROZOIC (Bhander Group, Sirbu Shale Fromation), Satna-Maihar area, Satna district, Madhya Pradesh.

Taeniatum sp. Moitra 1990: 394; pl. 4, fig. 6; MIDDLE RIPHEAN (Chhattisgarh Group, Raipur Limestone Formation), Nandghat, Nandini Mine sections, Durg district, Madhya Pradesh.

TASMANITES (Newton) Eisenack

Tasmanites kaljoi Suresh & Gowda 1981**:** 129; pl. 1, fig. 2; LATE PROTEROZOIC (Bhima Supergroup), Ganurthi, Gulbarga district, Karnataka.

Tasmanites mangaseus Timofeev. Viswanathiah, Venkatachalapathy & Nanjundaswamy 1976**:** 405; pl. 2, fig. 4; ORDOVICIAN (Badami Group, Gokak Quartzarenite), Karnataka; Viswanathiah, Venkatachalapathy & Shankara 1984**:** 79; pl. 2, fig. 8; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Tasmanites medius Eisenack. Viswanathiah, Venkatachalapathy & Khadeer 1976a**:** 394; pl. 1, fig. 2; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka; Viswanathiah, Venkatachalapathy & Shekhar 1984**:** 89; pl. 1, fig. 8; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzite), Chennareddipalli-Muddanur area, Andhra Pradesh; Viswanathiah, Venkatachalapathy & Shankara 1984**:** 80; pl. 2, fig. 5; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka; Venkatachalapathy & Shekhar 1986: 195; pl. 1, fig. 11; PRE RIPHEAN-RIPHEAN (Papagini Group, Vempalle Formation), Andhra Pradesh.

Tasmanites minutus Viswanathiah, Venkatachalapathy & Khadeer 1976a**:** 394; pl. 1, fig. 15; pl. 2, fig. 24; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka.

Tasmanites punctatus Newton. Viswanathiah, Venkatachalapathy & Khadeer 1976a**:** 394; pl. 1, fig. 18; pl. 2, fig. 28; ORDOVICIAN (Badami Group, Temple Quartzarenite), Karnataka.

Tasmanites cf. salustianoi Sommer. Viswanathiah, Venkatachalapathy & Shekhar 1984**:** 89; pl. 2, fig. 10; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzite), Chennareddipalli-Muddanur area, Andhra Pradesh; Viswanathiah, Venkatachalapathy & Shankara 1984**:** 80; pl. 1, fig. 4; ORDOVICIAN-SILURIAN (Badami Group, Katageri Formation), Bijapur district, Karnataka.

Tasmanites vindhyanensis Maithy & Shukla 1977**:** 182; pl. 4, figs. 32-33; LATE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Madhya Pradesh.

Tasmanites sp. Maithy 1968: 50; pl. 1, figs. 6-7; PRECAMBRIAN (Kaimur Series, Suket Shale Formation), Chauki village, Ramapura, Neemuch district, Madhya Pradesh.

Tasmanites sp. A Salujha, Rehman & Arora 1971**:** 31; pl. 2, fig. 23; MIDDLE PROTEROZOIC (Vindhyan Supergroup), locality not mentioned, Son valley, Uttar Pradesh and Madhya Pradesh.

? **Tasmanites sp. A** Salujha, Rehman & Rawat 1971**:** 77; pl. 1, fig. 30; LATE CAMBRIAN TO ORDOVICIAN (Bhander Group, Sirbu Shale Formation), Chambal valley, Rajasthan.

Tasmanites sp. B Salujha, Rehman & Arora 1971**:** 32; pl. 2, fig. 24; MIDDLE PROTEROZOIC (Vindhyan Supergroup), locality not mentioned, Son valley, Uttar Pradesh and Madhya Pradesh.

Tasmanites sp. Salujha, Rehman & Arora 1972a: 14; pl. 1, figs. 24-25; LATE PRECAMBRIAN-CAMBRIAN (Bhima Series), Gulbarga district, Karnataka.

Tasmanites sp. Salujha, Rehman & Arora 1972b: 129; pl. 1, figs. 27-29; LATE PRECAMBRIAN-CAMBRIAN (Kurnool Supergroup), Palnad area, Andhra Pradesh.

Tasmanites sp. Shrivastava 1972**:** 10; pl. 2, figs. 15 & 17; SILURIAN-DEVONIAN (Semri Group, Suket Shale Formation), Ramapura, Madhya Pradesh.

Tasmanites sp. Viswanathiah, Venkatachalapathy & Khadeer 1976b**:** 342; pl. 1, fig. 11; PRECAMBRIAN (Badami Group, Ramdurg Formation), Karnataka.

Tasmanites sp. Viswanathiah, Venkatachalapathy & Narayan Shetty 1984**:** 65; pl. 3, fig. 8; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka.

TETRAPHYCUS Oehler

Tetraphycus congregatus McMenamin, Kumar & Awramik 1983: 265; figs. 13A, B, MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Son valley, Mirzapur district, Uttar Pradesh; Nautiyal 1990; 185; pl. 1, fig. 14; pl. 2, figs. 23, 24, 26; MIDDLE PROTEROZOIC (Tejam Group, Thalkedar Limestone and Gangolihat Dolomite Formations), Pithoragarh in Kumaon and Satpuli in Garhwal districts, Uttar Pradesh; Kumar & Srivastava 1995**:** 108; fig.11-A; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh.

Tetraphycus conjunctum Lo. Kumar & Srivastava 1992a: 302; fig. 9-J; MIDDLE TO LATE PROTEROZOIC (Deoban Limestone Formation), Chakrata, Dehradun district, Uttar Pradesh.

Tetraphycus diminutivus Oehler. Prasad, Uniyal & Asher 2005: 21; pl. 4, fig. 2; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Tetraphycus gregalis Oehler. Prasad, Uniyal & Asher 2005**:** 21; pl. 5, fig. 7; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Tetraphycus hebeinsis Liu. Shukla, Babu, Mathur & Srivastava 2005b: 202; pl. 1, fig. 10; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital distirct, Uttaranchal; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.21; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh; Sharma 2006: 85; figs. 8 c, h; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Tetraphycus major Oehler. Venkatachala, Yadav & Shukla 1990: 480; pl. 2, figs. 1-4**;** MESOPROTEROZOIC (Semri Group, Nauhatta Limestone Formation), Rohtasgarh district, Bihar; Kumar & Srivastava 1992a: 302; fig. 9-L; MIDDLE-LATE PROTEROZOIC (Deoban Limestone Formation), Garhwal Himalaya, Uttar Pradesh; Kumar & Srivastava 1995: 107; figs. 11-E, 12G; MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Newari, Mirzapur district, Uttar Pradesh; Sharma 2006: 87; figs. 8 F, I, M & N; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Tetraphycus sp. Lo. Tiwari 1996a: 564; pl. 2, fig. 11; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh.

THALLOPHYCA Zhang

Thallophyca ramosa Zhang et al., Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.24; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh.

TORTUNEMA German

Tortunema pseudoseptata Butterfield et al. Prasad, Uniyal & Asher 2005**:** 20; pl. 1, figs. 8-9; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

Tubular filament Schopf & Prasad 1978: 360-361; figs. 6 A-D; ARCHAEAN (Cuddapah Supergroup, Vempalle Formation), near Bramanapalle, Andhra Pradesh.

Tubular filament Srivastava & Kumar 1997: 146; fig. 4 c; NEOPROTEROZOIC (Deoban Formation), Deoban hill, Chakrata area, Dehradun district, Uttar Pradesh.

TUBULOSA Hermann

Tubulosa rugosa Hermann. Maithy & Babu 1993**:** 45; pl. 1, fig. 12; LATE RIPHEAN-VENDIAN (Bhander Group, Ganurgarh Shale Formation), near Midghat Railway station, Bhopal district, Madhya Pradesh.

VETERONOSTOCALE Xu & Awramik

Veteronostocale amoneum Xu & Awramik. Maithy & Meena 1989**:** 181; pl. 1, fig. 4; NEOPROTEROZOIC (Bhander Group, Nagod Limestone and Sirbu Shale Formations), Satna-Maihar area, Satna district, Madhya Pradesh;

Shukla, Tewari, Babu & Sharma 2006: 64; pl. 1, fig. 6; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

Vetronostocale moniliformie Xu. Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.23; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh.

Veteronostocale sp. Shukla, Tewari, Babu & Sharma 2006: 64; pl. 1, fig. 10; NEOPROTEROZOIC (Buxa Group, Buxa Dolomite Formation), near Igo bridge, Daring-Basar road section, west Siang district, Arunachal Pradesh.

VINDHYACAPSAOPSIS Maithy & Mandal

Vindhyacapsaopsis bhanderensis Maithy & Mandal 1983**:** 133; pl. 1, fig. 7; LATE PROTEROZOIC (Bhander Group, Upper Bhander Sandstone Formation), Karauli-Sapotra, northeast Rajasthan.

WENGANIA Zhang

Wengania minuta Xiao. Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.12; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline Sauti, Sirmaur district, Himachal Pradesh.

Wengania globosa Zhang et al. Tiwari, 1996a: 564; pl. 2, fig. 13; EARLY VENDIAN (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttar Pradesh; Tiwari & Pant 2004a: 7; figs. 4 A, D, F; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan, Himachal Pradesh and Nainital, Uttaranchal; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.17; TERMINAL NEOPROTEROZOIC (Krol Group, Chambaghat Formation), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh.

XENOTHRIX Awramik & Barghoorn

Xenothrix sp. Rai & Gautam 1998: 544; figs. 3d, 3k; NEOPROTEROZOIC (Shali Group, Khatpul Formation), Mandi district, Himachal Pradesh.

UNNAMED ALGAE

Form A Sharma 2006: 94; fig. 11d; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Form B Sharma 2006: 94; fig. 12f; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Form C Sharma 2006: 94; fig. 11c; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Form D Sharma 2006: 95; fig. 11g; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Form E Sharma 2006: 95; fig. 11b; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

Form F Sharma 2006: 95; fig. 11a; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Rohtas district, Bihar.

VASE SHAPED MICROFOSSILS

DESMOCHITINA Eisenack

Desmochitina minor Nautiyal 1985: 66; pl. 1, figs. 28-29, text-figs. 2 S-T; MIDDLE ALGONKIAN (Simla Group, Basantpur Formation), Naldera area, 9 km NNE of Simla, Himachal Pradesh.

Desmochitina sp. Maithy & Babu 1996: 5; pl. 1, fig. 15; LATE PROTEROZOIC (Bhima Group, Halkal Formation), Bhima area, Karnataka.

FRASNACRITETRUS Taugourdeau

Frasnacritetrus josettae Taugourdeau.Viswanathiah, Venkatachalapathy & Narayan Shetty 1984: 66; pl. 2, fig. 6; CAMBRIAN (Kaladgi Supergroup, Mudhol Formation), Bijapur district, Karnataka; Viswanathiah, Venkatachalapathy & Shekhar 1984: 91; pl. 1, fig. 12; PRECAMBRIAN (Cuddapah Supergroup, Gandikota Quartzite), Chennareddipalli-Muddanur area, Andhra Pradesh.

MELANOCYRILLIUM Bloeser

Melanocyrillium fimbriatum Bloeser. Maithy & Babu 1988b: 78; pl. 1, fig. 1; EARLY NEOPROTEROZOIC (Semri Group, Arangi For-

mation), Son valley, Mirzapur district, Uttar Pradesh.

Melanocyrillium hexodiadema Bloeser. Maithy & Babu 1988b: 78; pl. 1, figs. 2-3; EARLY NEOPROTEROZOIC (Kaimur Group, Markundi Quartzite Formation), Son valley, Mirzapur district, Uttar Pradesh; Shukla, Babu, Mathur & Srivastava 2005b: 205; pl. 1, fig. 5; TERMINAL NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Nainital distirct, Uttaranchal; Shukla, Babu, Mathur & Srivastava 2005a: 1223; fig. 2.9; TERMINAL NEOPROTEROZOIC (Chambaghat Formation, Krol Group), Kamlidhar Syncline, Sauti, Sirmaur district, Himachal Pradesh.

Melanocyrillium horodyskii Bloeser**.** Maithy & Babu 1988b: 79; pl. 1, figs. 4-5; EARLY NEOPROTEROZOIC (Kaimur Group, Markundi Quartzite Formation), Son valley, Mirzapur district, Uttar Pradesh; Tiwari & Pant 2004: 13; figs. 4B, E; NEOPROTEROZOIC (Krol Group, Infra Krol Formation), Solan and Nainital area in Himachal Pradesh and Uttaranchal.

Melanocyrillium sp. Maithy & Babu 1988b: 79; pl. 1, fig. 6; EARLY NEOPROTEROZOIC (Kaimur Group, Markundi Quartzite Formation), Son valley, Mirzapur district, Uttar Pradesh.

Melanocyrillium sp. Venkatachala, Shukla, Bansal & Acharya 1990: 34; pl. 1, fig. 7; UPPER PROTEROZOIC (Krol Group, Infra Krol Formation), Nainital district, Uttar Pradesh.

Melanocyrillium sp. Tewari 2003: 9; figs. 12 a, g; TERMINAL NEOPROTEROZOIC (Buxa Group, Menga Limestone Formation), Sheregaon-Jigaon-Chillipam, section, west of Kameng district, Arunachal Pradesh.

Melanocyrillium sp. Prasad, Uniyal & Asher 2005: 55; pl. 6, figs. 8-10; PROTEROZOIC (Vindhyan Supergroup), Son valley, Madhya Pradesh.

PREMITIVE METAZOAN REMAINS (SPONGES)

HEXACTINELLID Chhera

Hexactinellid sp. Tiwari, Pant & Tewari 2000: 653; figs. A-F; NEOPROTEROZOIC (Gangolihat Dolomite Formation), Pithoragarh district, Uttaranchal.

Monaxon sp. Tiwari, Pant & Tewari 2000: 653; figs. b, f; NEOPROTEROZOIC (Gangolihat Dolomite Formation), Pithoragarh district, Uttaranchal.

Monaxon sp. Tewari 2003: 9, 16; fig. 13 a, TERMINAL NEOPROTEROZOIC (Buxa Group, Menga Limestone Formation), Sheregaon-Jigaon-Chillipam section, west of Kameng district, Arunachal Pradesh.

? Sponge Kotuyicathus sp. Dhaundiyal & Moitra 1987: 73; pl. 1, fig. 7; MIDDLE RIPHEAN TO EARLY VENDIAN (Baliana Group, Blaini Formation), near Laxmanjhula along Rishikesh-Deoprayag road section, Dehradun district, Uttar Pradesh.

Unnamed Form 2 cf. Palaeophragmodicta retienlata (sponge) Gehling & Rigby. De 2006: 676; figs. 10 E-F; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

Unnamed Form 3 cf. sponges Gehling & Rigby**.** De 2006: 676; fig. 10 G; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

BIOLOGICAL CARBONACEOUS MEGAREMAINS

BELTINA Walcott

Beltina danai Walcott. Maithy & Babu 1996: 2; pl. 1, figs.10, 11; MESOPROTEROZOIC (Bhima Group, Halkal Formation), Karnataka; Kumar 2001: 206; fig. 14i. (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Carbonaceous discs and **algal dust** Misra & Bhatnagar 1950: 88; figs. 1-2; LATE PRECAMBRIAN (Semri Group, Rohtas Limestone Formation), Banjari, Shahabad district, Bihar.

BHANDERIA Kumar & Srivastava

Bhanderia maiharensis Kumar & Srivastava 2003: 149; pl. 2, fig. I; pl. 2, figs. b-c. NEOPROTEROZOIC (Bhander Group, Bhander

Limestone and Sirbu Shale Formations), Maihar, Satna district, Madhya Pradesh.

CHAMBALIA Kumar

Chambalia minor Kumar 2001: 204, figs. 14a-e; MESOPROTEROZOIC (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Kumar & Srivastava 2003: 149; pl. 2, figs. b, c & f; NEOPROTEROZOIC (Bhander Group, Bhander Limestone Formation), Maihar, Satna district, Madhya Pradesh.

CHUARIA Walcott

Chuaria circularis Vidal. Ford & Breed 1973: 539-540; pl. & fig. not mentioned. PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Ghare & Badve 1978: 34; pl. 1, figs. 1-4, text figs. 1-6; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Ghare & Badve 1979: 91; pl. 7, figs. 1-2; pl. 8, figs. 3-4; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Ghare & Badve 1981: 34; pl. 1, fig. 1; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Mathur 1982: 128; fig. 3A; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapua, Neemuch district, Madhya Pradesh; Mathur 1983: 364; fig. l A, PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Suresh & Raju 1983: 81; fig. 2 (Bhima Series, Ganurthi Shales), Chitapur Taluk Gulbarga district, Karnataka; Suresh & Sundara Raju 1983: 82; fig. 2 (1-5); LATE PROTEROZOIC (Bhima Group), Gulbarga district, Karnataka; Hofmann 1977: 7; pl. & fig. not mentioned. PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Raha, Moitra, Das Sarma, Kumar, Rama Rao 1991: 10; PRECAMBRIAN-CAMBRIAN BOUNDARY (Chitravati Group, Halkal Shale Formation), fig. locality not mentioned, Andhra Pradesh; Maithy & Babu 1996: 02; pl. 1, figs.10, 11; LATE PROTEROZOIC (Bhima Group, Halkal Formation), Karnataka; Kumar 1995: 177; pl. 4, figs. h, i. (Semri Group, Suket Formation), Tikaria, Katni areas, Madhya Pradesh; Tewari 1996: 26; pl. 1, figs. A, B, D, E; pl. 2, figs. A-C; MESOPROTERZOIC (Deoban Formation), Chakrata area, Dehradun district, Uttar Pradesh; Rai, Shukla & Gautam 1997: 784; figs. 3 c-f, h-j, l-n, p-r, t-v, x-z.; NEOPROTETROZOIC (Rewa Group, Jhiri Shale Formation), Allahabad-Rewa area; Kumar & Srivastava 1997: 143; pl. 1, figs. 1-5, 8, 11-12; NEOPROTEROZOIC (Bhander Group, Bhander Limestone & Sirbu Shale Formations), Maihar area, Satna district, Madhya Pradesh; Kumar, 2001: 194; pl. 6, figs. a-f & h-j (Semri Group, Suket Formation), Ramapura area, Neemuch district, Madhya Pradesh; Srivastava 2002: 101; figs. 5B-D, H-I; NEOPROTEROZOIC (Bhander Group, Dholpura Shale Formation), Kunwarpura, Balban, Bundi district, Rajasthan; Kumar & Srivastava 2003: 146; pl. 1, figs. a-g; NEOPROTEROZOIC (Bhander Group, Bhander Limestone and Sirbu Shale Formations), Maihar, Satna district, Madhya Pradesh. Maithy & Babu 2005: 179; pl. 1, figs. 1-10, 14-15; pl. 2, figs. 8, 15, 16; LATE MESOPROTOEROZOIC (Bhima Group, Halkal Formation), Karnataka; Dutta, Steiner, Banerjee, Erdtmann, Jeevankumar & Mann 2006: 101; pl. 1, figs. a-h, pl. 2 figs. a-f; EARLY MESOPROTEROZOIC (Vindhyan Supergroup, Suket Shale formation), Madhya Pradesh.

Chuaria dalaensis Kumar & Srivastava 2003: 147; pl. 1, figs. h, i, j & k; NEOPROTEROZOIC (Bhander Group, Bhander Limestone and Sirbu Shale Formations), Maihar and Satna districts, Madhya Pradesh.

Chuaria fermori Mathur 1982: 128; pl. & fig. not mentioned; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Mathur 1983: 364; fig. lB; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Madhya Pradesh.

Chuaria minima (Walcott) =**Fermoria minima** Chapman. Maithy & Shukla 1984a: 146; pl. 1, figs. 1-10; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Maithy & Babu 1988: 386; pl. 1, figs. 1-2; MID PROTEROZOIC (Semri Group, Suket Shale Formation), Junction of Ghagar River with Ghagar Nala, Chopan, Mirzapur district, Uttar Pradesh; Maithy & Babu 1988: 586; pl.1 figs. 1-2; MID PROTEROZOIC (Semri Group, Rohtas

Limestone Formation), Markundi, Mirzapur district, Uttar Pradesh.

Chuaria vindhyanensis Kumar 2001: 196, fig. 14 f-h; MESOPROTEROZOIC (Semri Group, Suket Shale Formation), Ramapura area, Neemuch district, Madhya Pradesh.

Chuaria sp. Misra 1992: 406; figs. 3B & 4C; TERMINAL PROTEROZOIC (Manora Formation), Narain Nagar, Nainital district, Uttar Pradesh.

Chuaria sp. Venkatachala & Kumar 1996: 554; pl. 1, fig. 10; LATE RIPHEAN-EARLY VENDIAN (Jammu Limestone), Riasi-Katra area, Jammu and Kashmir.

Chuaria sp. Srivastava 2004: figs. 2a, b, c, e, o, q; LATE PROTEROZOIC (Rewa Group, Panna Shale Formation), Rewa, Rewa district, Madhya Pradesh.

Disc with stalk cf. Chuaria sp. Misra 1992: 406; pl.1, fig. B; pl. 2, fig. 4c; EDIACARAN (Krol Group, Narainnagar Formation), around Nainital, Nainital district, Uttar Pradesh.

DASYCLADACEAE Kützing

Dasycladaceae? alga Misra 1949: 439; fig. 2; PRECAMBRIAN (Semri Group, Rohtas Limestone Formation), Banjari area, Shahabad district, Bihar.

Discoidal remains Misra 1949: 439; fig. 1; PRECAMBRIAN (Semri Group, Rohtas Limestone Formation), Lodhwara hill, near Karwi area, Banda district, Uttar Pradesh.

Discoidal remains (Semi-circular, circular and ovoidal structures) Misra & Dube 1952: 43; figs. 1-7; PRECAMBRIAN (Semri Group, Rohtas Limestone Formation), Ramapura, Neemuch district, Madhya Bharat (Madhya Pradesh).

FERMORIA Chapman

Fermoria capsella Chapman 1935: 117; pl. 2, figs. 3 & 4; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Fermoria granulosa Chapman 1935: 1, 16; pl. 1, figs. 2 & 4; pl. 2, fig. 5; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Fermoria minima Chapman 1935: 115; pl. 1, figs. 1 & 3; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Sahni 1936: 466; pl. 43, figs. 1-4; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Sahni 1977: 296; pl. 1, figs. 1-6; pl. 2, figs. 1-4, pl. 3, figs. 1 & 2; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Fermoria sp. Misra 1957: 56; pl. 7, fig. 1; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Fermoria sp. Hantzschel 1962: 240; fig. 148 & 4; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Frond like form Misra 1992: 405; pl. 1, figs. 3 A-C; EDIACARAN (Krol Group, Narainnagar Formation), Nainital area, Nainital district, Uttar Pradesh.

GRYPANIA Walter

Grypania spiralis Kumar 1995: 178; pl. 6, figs. a-j, pl.7, figs. a-e; MESOPROTEROZOIC (Semri Group, Rohtas Formation), Tikaria, Katni area, Jabalpur district, Madhya Pradesh.

KATNIA Tandon & Kumar

Katnia singhii Tandon & Kumar 1977: 126; fig. 1; PRECAMBRIAN (Semri Group, Rohtas Formation), Limestone quarry at Tikaria, 2 km, SW of Katni Railway station, Jabalpur district, Madhya Pradesh.

KRISHNANIA Sahni & Srivastava

Krishnania acuminata Sahni & Srivastava = Misra 1957: pl. 7, fig. 4. PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Hantzschel 1975: 185; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Madhya Pradesh: Sahni 1977: 294; pl. 3, fig. 3; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; =**Chuaria minima** (Chapman) Maithy & Shukla 1984b: 40; fig. 4; PRCAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Maithy 1991: 62; pl. 1, figs. 1-2 MESOPROTEROZOIC (Semri Group, Rohtas Formation), Murli Pahar, Rohtasgarh district, Bihar.

Krishnania multistriata Maithy 1991: 63; pl.1, figs. 5-8; MIDDLE PROTEROZOIC (Semri Group, Rohtas Formation), Baulia Limestone quarry, Rohtas district, Bihar.

Krishnania sp. Hantzschel 1962: W. 241. pl. & fig. not mentioned; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

KROLOTAENIA Tewari

Krolotaenia gnilovskayii Tewari 1993; pl. 6, fig. 1; TERMINAL PROTEROZOIC (Krol Group, Krol Formation), Korgai Syncline, Himachal Pradesh.

LAMINARITES Sterberg

Laminarites sp. Dhaundiyal & Moitra 1987: 73; pl. 1, fig. 8; MIDDLE RIPHEAN TO EARLY VENDIAN (Baliana Group, Blaini Formation), near Laxmanjhula along Rishikesh-Deoprayag road section, Dehradun district, Uttar Pradesh.

LANCEOFORMA Walter

Lanceoforma sp. Kumar & Srivastava 2003: 149; pl. 2, figs. e, g & h; NEOPROTEROZOIC (Bhander Group, Bhander Limestone Formation), Maihar, Satna district, Madhya Pradesh.

LONGFENGSAHNIA Du

Longfengsahnia stiptata Du. Maithy & Babu 1988: 587; pl. 2, figs. 2-4; MID PROTEROZOIC (Semri Group, Rohtas Formationand Kaimur Group, Ghurma Shale Formation), Agori Khas Railway station, Markundi, Mirzapur district, Uttar Pradesh.

Metaphytic algae Shanker, Mathur, Kumar & Srivastava 1997: 87; pl. 2A; EDIACARAN (Krol Group, Tal Formation), Chiphaldi village, Tehri Garhwal district, Uttar Pradesh.

MORANIA Walcott

Morania antiqua Fenton & Fenton. Mathur 1982: 128; pl. & figs. not mentioned; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

PHASCOLITES Duan et al**.**

Phascolites symmetricus Duan et al**.,** Kumar & Srivastava 2003: 150; pl. 2, figs. d & f; NEOPROTEROZOIC (Bhander Group, Sirbu Shale Formation), Maihar, Satna district, Madhya Pradesh.

PROTOARENICOLA Wang

Protoarenicola baiguashanensis Maithy & Babu 1996: 04; pl. 1, figs. 2, 4, 6; LATE PROTEROZOIC (Bhima Group, Halkal Formation), Karnataka.

PROTOBOBELLA Chapman

Protobobella johnesii Chapman 1935: 117; pl. 1, figs. 5-6; pl. 2, fig. 1; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Sahni 1936: 467; pl. & fig. not given; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Protobobella sp. Hantzschel 1975: 187; figs. 108, 4; 107, 5; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

RAMAPURAEA Maithy & Shukla

Ramapuraea vindhyanensis Maithy & Shukla 1984b: 213; pl. 1, figs. 1-3; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Chittor-Jhalarpatan area, Rajasthan.

SINOSABELLIDITES Zhang

Sinosabellidites buainanensis Zhang. Maithy & Babu 1996: 4; pl. 1; figs. 7, 9; LATE PROTEROZOIC (Bhima Group, Halkal Formation), Karnataka.

Small and round bodies. Misra 1992: 405; pl.1, fig. B; pl. 2, figs. 4B, C; EDIACARAN (Krol Group, Narainnagar Formation), Nainital area, Nainital district, Uttar Pradesh.

SPIRAL IMPRESSION Beer

Spiral impression Beer 1919: 19; pl. 30, figs. 1-2; LATE PRECAMBRIAN (Semri Group, Rohtas Limestone Formation), Saraidnar, Akbarpur, Rohtas, Bihar.

SUKETEA Kumar

Suketea rampuraensis Kumar 2001: 203: figs. 11g-h (Semri Group, Suket Shale Formation), Ramapura area, Neemuch district, Madhya Pradesh.

TAWUIA Hofmann

Tawuia dalensis Hofmann. Mathur 1982: 130; fig. 3B; MIDDLE PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Maithy & Shukla 1984b: 213; pl. 1, fig. 4; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Chittor-Jhalarpatan, Rajasthan; Maithy & Babu 1988: 585; pl. 1, figs. 1-2; MID-PROTEROZOIC (Semri Group, Rohtas Limestone Formation), at the Junction of Ghagar river with Ghagar nala, Uttar Pradesh; Maithy & Babu 1996: 2; pl. 1, figs. 1, 3; LATE MESOPROTEROZOIC (Bhima Group, Halkal Formation), Karnataka; Rai, Shukla & Gautam 1997: 786; figs. 3, c-f, h-j, l, n, p-r, t-v, x-z; NEOPROTOEROZOIC (Rewa Group, Jhiri Shale Formation), Allahabad-Rewa area, Uttar Pradesh and Madhya Pradesh; Kumar & Srivastava 1997: 143; pl. 1, figs. 2, 7; NEOPROTEROZOIC (Bhander Group), Maihar area, Satna district, Madhya Pradesh; Kumar 2001: 198; figs. 9c, 14 h-k; MESOPROTEROZOIC (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Srivastava 2002: 101-102; figs. 5E-G; NEOPROTEROZOIC (Bhander Group, Dholpura Shale Formations), Kunwarpura, Balban, Bundi district, Rajasthan; Kumar & Srivastava 2003: 146; pl. 2, figs. d, g; NEOPROTEROZOIC (Bhander Group, Bhander Limestone and Sirbu Shale Formations), Maihar, Satna district, Madhya Pradesh; Srivastava 2004; fig. 2d. (Rewa Group, Panna Shale Formation), Maithy & Babu 2005: 182; pl. 1, figs. 1, 11-13; pl. 2, figs. 1-7, 9-13 &17; MESOPROTOEROZOIC (Bhima Group, Halkal Formation), Karnataka.

Tawuia indica Kumar, 2001: 200; figs. 9 *e*-f, i (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Tawuia ramapuranensis Mathur 1982: 128; pl. & fig. not mentioned; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Mathur=**Chuaria minima** (Chapman) Maithy & Shukla 1983; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

Tawuia suketensis Mathur 1982: 128; fig. 3B; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh; Mathur=**Chuaria minima** (Chapman) Maithy & Shukla 1983; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

TILSOIA Srivastava

Tilsoia khoripensis Srivastava 2004; fig. 2f; NEOPROTEROZOIC (Rewa Group, Panna Shale Formation), Drummundganj, Madhya Pradesh.

TYRASOTAENIA Gnilovaskaya

Tyrasotaenia sp. Tewari 1993: pl. 6, fig. 3; TERMINAL PROTEROZOIC (Krol Group, Krol Formation), Nainital Syncline, Barapathar-Kaladungi road section, Lesser Himalaya.

Tyrasotaenia sp. Shukla & Sharma 1990: 415, 418; pl. 2, fig. 1; MSOPROTEROZOIC (Semri Group, Suket Shale Formation), Ramapura area, south-east Rajasthan.

UNNAMED FORM

Carbonaceous Ribbons Kumar & Srivastava 1997: 143; pl. 1, figs. 6, 9, 10; NEOPROTEROZOIC (Bhander Group, Sirbu Shale Formation), Maihar area, Satna district, Madhya Pradesh.

VENDOTAENIA Gnilovskaya

Vendotaenia antiqua Gnilovskaya. Tewari 1993: pl. 6, fig. 2; TERMINAL PROTEROZOIC (Krol Group, Krol Formation), Nainital-Kilubary road section, Nainital Syncline, Barapathar landsend section, Uttar Pradesh.

Vendotaenia sp. Raha, Moitra, Das Sarma, Kumar, Rama Rao 1991; fig. Not mentioned (Chitravati Group, Halkal Shale Formation), Andhra Pradesh.

VINDHYANIA Mathur

Vindhyania jonesii Mathur 1982: 129; fig. 3C; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Madhya Pradesh.

Vindhyanella jonesii Sahni=**Chuaria minima** (Chapman) Maithy & Shukla; PRECAMBRIAN (Semri Group, Suket Shale Formation), Ramapura, Neemuch district, Madhya Pradesh.

VINDHYAVASINIA Tandon & Kumar

Vindhyavasinia misrai Tandon & Kumar 1977: 127; figs. 2. 3; PRECAMBRIAN (Semri Group,

Rohtas Formation), Limestone quarry at Tikaria, 2 km SW of Katni Railway station, Jabalpur district, Madhya Pradesh.

LÄGERSTATTEN

ACANTHICHNUS Hitchcock

Acanthichicnus sp. Das Sarma, Shukla, Sengupta & Moitra 1997: 77; pl. 1, fig. 3; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Bhander Limestone Formation), Bankuian area, Rewa, Madhya Pradesh.

AJACICYATHUS Maithy and Gupta

Ajacicyathus tandonii Maithy and Gupta 1981: 78; pl. 1, figs. 1-3; text fig. 1; MESOPROTEROZOIC (Semri Group, Hinaoti Limestone Formation), Govindgarh Chandrehi Section, Rewa district, Madhya Pradesh.

ALLATHECA Missarzhevsky

Allatheca sp. Maithy & Shukla 1984b**:** 214; pl. l, figs. 5-8; PRECAMBRIAN (Semri Group, Suket Shale Formation), Chittor-Jhalarpatan section, Ramapura, Madhya Pradesh.

ARENICOLITES Salter

Arenicolites sp. Tangri, Bhargava & Pandey 2003: 711; pl. 1, fig. 1; PRECAMBRIAN-CAMBRIAN BOUNDARY (Pele-La Group), Bhutan Himalaya.

ARUMBERIA Glaessner & Walter

Arumberia sp. Raha, Moitra, Das Sarma, Kumar & Rama Rao 1991: 10; fig. Not mentioned; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhima Group, Halkal Shale Formation), Andhra Pradesh.

ASTERIRADIATUS Mathur

Asteriradiatus karauliensis Mathur1982: 126; fig. 2A; LATE PRECAMBRIAN (Rewa Group, Karauli Quartzite), Panna district, Madhya Pradesh.

AULICHNITES Frey

Aulichnites Frey Banerjee & Narain 1976: 236; figs. 3-5; CAMBRIAN (Tal Group, Tal Formation), near Mussoorie, Garhwal district, Uttar Pradesh.

BELTANELLA Sprigg

Beltanella sp. cf. B. gilesi Sprigg. Mathur & Shanker 1990: 78; pl. 1, fig. 4; (Krol Group, Krol Formation), Nainital Syncline, Lesser Himalaya, Uttar Pradesh.

BELTANELLIFORMIS Menner

Beltanelliformis sp. cf. B. brunsae Menner. Mathur & Shanker 1989: 250; pl. 1, figs. 1, 3a; EDIACARAN (Krol Group, Krol Formation), Nainital Syncline, Lesser Himalaya; Maithy, Meena & Babu 1992: 359-360; pl. 1, figs. 8-9; LATE PROTEROZOIC (Bhander Group, Dholpura Shale Formation), Lakheri town, Rajasthan; Misra 1992: 405; figs. 4B-C; LATE PROTEROZOIC (Krol Group, Manora Formation), Narain Nagar, Nainital areas, Nainital district, Uttar Pradesh; De 2006: 663-364; figs. 3 G-L; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

Beltanelliformis sp. Tewari 1993: 34-35; pl. 6, fig. 4 and fig. 9; LATE PROTEROZOIC (Krol Group, Krol Formation), Nainital and Nigalidhar Synclines, Barapathar landsend section, Nanital, Uttar Pradesh and Himachal Pradesh.

BERGAUERIA Prantl

Bergaueria sp. Mathur & Srivastava 2005: 581; pl. 1, figs. d, f; EARLY CAMBRIAN (Tal Group, Deo ka Tibba Formation), Rayon-Koti Dhaman section, Nigalidhar Syncline, Sirmaur district, Himachal Pradesh.

BHANDERICHNUS Mathur

Bhanderichnus damohensis Mathur 1983:363; fig. 1; LATE PROTEROZOIC (Bhander Group, Maihar Quratzite Formation) Sageni dam, Damoh, Bina-Katni section, Jabalpur district, Madhya Pradesh; Mathur & Verma 1983: 426-427; fig. 1; LATE PROTEROZOIC (Bhander Group, Lower Bhander Sandstone Formation), near Damoh, Damoh district, Madhya Pradesh.

BILINICHNUS Fedonkin & Palij

Bilinichnus sp. Shanker, Mathur, Kumar & Srivastava 1997: 88; pl. 2f; EDIACARAN (Krol

Group, Tal Formation), Chairkhola village, Pauri Garhwal district, Uttar Pradesh.

BOLEOPTHALMUS =Gobid fish Ritcher

Boleopthalmus sp. Chakrabarti 2001: 135; fig 9; MESOPROTEROZOIC (Semri Group, Chorhat Sandstone Formation), Chorhat, near Rewa, Rewa district, Madhya Pradesh.

BOSTRICOPHYTON Squinabol

Bostricophyton bankuianenis Verma & Prasad 1968: 558; fig. 1; LATE PRECAMBRIAN (Bhander Group, Bhander Limestone Formation), Bankuian, Rewa district, Madhya Pradesh.

Bostricophyton sp. Das Sarma, Shukla, Sengupta & Moitra 1997: 77; pl. 1, fig. 2; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Bhander Limestone Formation), Bankuian area, Rewa, Madhya Pradesh.

BURROWS Hofmann

Burrow Singh & Bose 1985: 422; fig. 2; LATE PRECAMBREIAN (Alwar Group, Rajgarh Formation and Ajabgarh Group, Sariska Formation), Dago, Bhasawar areas of Bayana Haryana and Rajasthan.

Burrow Srivastava & Kumar 1997: 146; fig. 4 c; NEOPROTEROZOIC (Deoban Formation), Deoban hill, Chakrata area, Dehradun district, Uttar Pradesh.

Burrows Hofmann 2005: 119; pl. 1, figs. A-C; PALAEOPROTEROZOIC (Semri Group, Chorhat Formation), Chorhat area, Rewa district, Madhya Pradesh.

CAMBROTUBULUS Missarzhevsky

Cambrotubulus sp. Das, Raha & Acharyya 1987: 52; pl. 2, fig. 5; LOWER CAMBRIAN (Krol Group, Upper Krol Formation), Valdiyakhan and Hanumangarhi, Jeolikote-Nainital road section, Nainital area, Nainital district, Uttar Pardesh.

CERITHIDEA Gmelin

Cerithidea angulata Gmelin. Chakrabarti 2001: 135; fig. 6; MESOPROTEROZOIC (Semri Group, Chorhat Sandstone Formation), Chorhat, near Rewa, Rewa district, Madhya Pradesh.

CHARNIODISCUS Ford

Charniodiscus sp. cf. C. aboreus Glaessner. Shanker & Mathur 1992: 28; pl. 1, figs. 1-4; EDIACARAN (Krol Group, Krol Formation), southeastern Narainnagar Vihar on Nainital Khurpatal road, Gairkhet village, Nainital Syncline, Nainital district, Uttar Pradesh.

Charniodiscus sp. Shanker & Mathur 1992: 28; pl. 3, fig. 6; EDIACARAN (Krol Group, Krol Formation), Nainital Syncline, southeastern Narainnagar Vihar on Nainital Khurpatal Road, Gairkhet village, Nainital district, Uttar Pradesh; Tewari 1993: 35; pl. 6, fig. 5; LATE PROTEROZOIC (Krol Group, Krol Formation), Nainital Syncline, Barapathar landsend section, Lesser Himalaya, Uttar Pradesh; Misra 1992: 405; figs. 3a, c; LATE PROTEROZOIC (Krol Group, Manora Formation), Narain Nagar, Nainital area, Nainital district, Uttar Pradesh.

Charnodiscus sp. Shanker, Mathur, Kumar & Srivastava 1997: 87; pl. 2C; EDIACARAN (Krol Group, Tal Formation), Nainital Syncline, Chairkhola, Gairkhet villages, Pauri Garhwal and Nainital districts, Uttar Pradesh.

CHORDICHNUS Mathur

Chordichnus latouchei Mathur 1983: 111-112; pl. 1, fig. 1; PRECAMBRIAN (Marwar Supergroup, Jodhpur Sandstone Formation), Barui near Osian, Jodhpur town, Jodhpur district, Rajasthan.

CIRCOTHECA (Syssoiev) Missarzhevsky

Circotheca sp. 1 Bhatt, Mamgain, Misra & Srivastava 1983: 118; pl. 1, fig. 2; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

Circotheca sp. 2 Bhatt, Mamgain, Misra & Srivastava 1983: 118; pl. 1, fig. 3; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

CLIMACTICHNITES Fedonkin

Climactichnites sp. De, Das & Raha 1994: 83; pl. 2, figs. 3-4; PRECAMBRIAN-CAMBRIAN BOUNDARY (Nigalidhar Syncline), Ganog village, Sirmaur district, Himachal Pradesh.

COCHLICHNUS Hitchcock

Cochlichnus anguineus Hitchcock. Kulkarni & Borkar 1996: 725; figs. 2-5; NEOPROTEROZOIC (Bhander Group, Bhander Limestone Formation), Sagoni village, Madhya Pradesh.

Cochlichnus sp. Chakrabarti 2001: 133; fig 3; MESOPROTEROZOIC (Semri Group, Chorhat Sandstone Formation), Chorhat, near Rewa, Rewa district, Madhya Pradesh.

COLEOLELLA Syssoiev

Coleolella alivous Qion. Bhatt, Mamgain, Misra & Srivastava 1983**:** 118; pl. 1, figs. 17-18; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

Coleolella billingsi Missarzhevsky. Maithy & Shukla 1983: 214; pl. 1, figs. 1-9; MIDDLE PROTEROZOIC (Semri Group, Suket Shale Formation), Ramapura area, Neemuch district, Madhya Pradesh; Bhatt, Mamgain, Misra & Srivastava 1983**:** 118; pl. 1, figs. 15-16; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

COLEOLOIDES Walcott

Coleoloides typicalis Walcott. Bhatt & Mathur 1990: 220; figs. 3 f-g; PRECAMBRIAN-CAMBRIAN BOUNDARY (Tal Group, Tal Formation), Chorkhet village, Nainital-Kaladungi road section, Nainital district, Uttar Pradesh.

Coleoloides sp. Das, Raha & Acharyya 1987: 52; pl. 2, fig. 3; LOWER CAMBRIAN (Krol Group, Upper Krol Formation), Valdiyakhan and Hanumangarhi, Jeolikote-Nainital road section, Nainital area, Nainital district, Uttar Pardesh.

CONOMEDUSINITES Glaessner & Wade

Conomedusinites lobatus Glaessner & Wade. Shanker & Mathur 1992: 36-37; pl. 3, figs. 3-4; EDIACARAN (Krol Group, Krol Formation), Nainital Syncline, southeastern Narainnagar Vihar on Nainital Khurpatal road, Gairkhet village, Nainital district, Uttar Pradesh; Shanker, Mathur, Kumar & Srivastava 1997: 87; pl. 1A-B; figs. 4 a-b; P EDIACARAN (Krol Group, Tal Formation), Chairkhola, Narainnagar villages, Pauri Garhwal and Nainital districts, Uttar Pradesh.

CONDONOCONUS Azmi

Condonoconus sp. Azmi 1998: 382, 387; pl. 1, figs. 25-26; pl. 2, fig. 1-6; CAMBRIAN (Semri Group, Rohtas Formation), Son valley, Maihar area, Satna district, Madhya Pradesh and Rohtas district Bihar.

CORYPHELLA Johnson

Coryphella rubibrancjialis Johnson. Chakrabarti 2001: 135; fig 8; MESOPROTEROZOIC (Semri Group, Chorhat Sandstone Formation), Chorhat, near Rewa, Rewa district, Madhya Pradesh.

CRUZIANA d'Orbgny

Cruziana sp. Joshi & Mathur 1987: 64; figs. 4-7; Latest Proterozoic (Tal Group, Tal Formation), Jabarkhet and Woodstok college on Mussoorie-Dhanaulti-Chamba road section, Tehri-Garhwal district, Uttar Pradesh.

Cruziana sp. Mathur & Srivastava 2005: 582; pl. 1, fig. C; EARLY CAMBRIAN (Tal Group, Dhaulagiri Formation), Nigalidhar Syncline, Koti Dhaman area, Sirmaur district, Himachal Pradesh.

CYCLOMEDUSA Sprigg

Cyclomedusa davidi Sprigg. Maithy, Meena & Babu 1992: 359-360; pl. 1, figs. 1-4; LATE PROTEROZOIC (Bhander Group, Dholpura Shale Formation), Lakheri town, Rajasthan; Shanker, Mathur, Kumar & Srivastava 1997: 85; pl. 1; figs. 4 C-G, P; EDIACARAN (Krol Group, Tal Formation), Chairkhola village, Pauri Garhwal district, Uttar Pradesh; De 2006: 668; figs. 6A-B; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

Cyclomedusa gigantia Sprigg. (Dubiofossil B) Kalia, Bhagwat, Banerjee, Pandey & Trevedi 1992: 427; figs. 3, 4a-b; VENDIAN (Delhi Supergroup, Alwar Quartzite) Sohna town, Gurgaon district, Haryana.

Cyclomedusa cf radiata Sprigg. De 2006: 668; figs. 6 C-E; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

Cyclomedusa sp. Raha, Moitra, Das Sarma, Kumar & Rama Rao 1991: 10; fig. not mentioned;

PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhima Group, Halkal Shale Formation), Andhra Pradesh.

Cyclomedusa sp. Shanker & Mathur 1992: 35; pl. 3, fig. 2; EDIACARAN (Krol Group, Krol Formation), Nainital Syncline, Uttar Pradesh.

Cyclomedusa Sprigg=(Dubiofossil C) Kalia, Bhagwat, Banerjee, Pandey & Trevedi 1992: 427, figs. 2.1c, 2.3b; VENDIAN (Delhi Supergroup, Alwar Quartzite) Sohna town, Gurgaon district, Haryana.

CYLINDROCRATERION Ghare & Badve

Cylindrocraterion heroni Ghare & Badve 1977: 208; pl. 7, fig. 3; LATE PRECAMBRIAN (Kaimur Group, Kaimur Sandstone Formation), Rawatbhata, Chambal valley, Kota district, Rajasthan.

DASYCLADACEAE Kützing

Dasycladaceae sp. Moitra 1990**:** 387; pl. 4, fig. 7; RIPHEAN (Chhattisgarh Group, Raipur Limestone Formation), Chukatta section, Durg district, Madhya Pradesh.

DIDYMAULICHNUS Young

Didymaulichnus sp. Sarkar, Banerjee & Bose 1996: 435; fig. 10; LATE MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Chorhat-Sikarganj section, Madhya Pradesh.

Didymaulichnus sp. Tangri, Bhargava & Pandey 2003: 711; pl. 1, fig. 2; PRECAMBRIAN-CAMBRIAN BOUNDARY (Pele-La Group), Bhutan Himalaya.

Didymaulichnus sp. Mathur & Srivastava 2005: 585; pl. 2, fig. a; EARLY CAMBRIAN (Tal Group, Dhaulagiri Formation), Koti Dhaman area, Nigalidhar Syncline, Sirmaur district, Himachal Pradesh.

DIMORPHICHNUS Seilacher

Dimorphichnus sp. Tiwari & Parcha 2006: 114; fig. 3e; EARLY CAMBRIAN (Tal Group, Tal Formation, Quartzite Member), Mussoorie-Dhanaulti section, Batagad, Mussoorie, Uttaranchal.

DIPLICHNITES Dawson

Diplichnites aenigma Dowson. De, Das & Raha 1994: 81; pl. 1, fig. 2; PRECAMBRIAN-CAMBRIAN BOUNDARY (Nigalidhar Syncline), Ganog village, Sirmaur district, Himachal Pradesh.

Diplichnites sp. De, Das & Raha 1994: 83; pl. 2, fig. 2; PRECAMBRIAN-CAMBRIAN BOUNDARY (Nigalidhar Syncline), Ganog village, Sirmaur district, Himachal Pradesh.

Diplichnites sp A. Tiwari & Parcha 2006: 114; figs. 3j, p; EARLY CAMBRIAN (Tal Group, Tal Formation, Quartzite Member), Mussoorie-Dhanaulti section, Batagad, Mussoorie,Uttaranchal.

DIPLOCRATERION Torell

Diplocraterion sp. Sastri & Venkatachala 1968: 78; pl. 1, fig. 1; PRECAMBRIAN (Ganga valley), Ujhani deep well, Uttar Pradesh.

Diplocraterion sp. Chakrabarti 1990: 145-147; figs. 10-13; LATE PROTEROZOIC (Bhander Group, Upper Bhander Sandstone Formation) near, Maihar area, Satna district, Madhya Pardesh.

DUBIOFOSSILS Hofmann

Dubiofossil A Kalia, Bhagwat, Banerjee, Pande & Trivedi 1992: 427; figs. 2.1 a-b, 2. 2, 2. 3 a, 3.1-3.3; EARLY PROTEROZOIC (Dehli Supergroup, Alwar Quartzite), Sohna area, Gurgaon district, Haryana.

Dubiofossil B Kalia, Bhagwat, Banerjee, Pande & Trivedi 1992: 428; figs. 2.1c, 2.3 b, 3.4a-b; EARLY PROTEROZOIC (Dehli Supergroup, Alwar Quartzite), Sohna area, Gurgaon district, Haryana.

Dubiofossils Hofmann 2005: 118; pl. 2, figs. A-D; PALAEOPROTEROZOIC (Semri Group, Chorhat Formation), Chorhat area, Rewa district, Madhya Pradesh.

EDIACARIA Sprigg

Ediacaria cf flindersi Sprigg. De 2006: 671; figs. 7 A-G; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

Ediacaria sp. De 2003: 392; figs. 5 A-B; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna, Madhya Pradesh.

EOPORPITA Wade

Eoporpita sp. De 2006: 668; figs. 5 D-E; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

FODICHNEA Seilacher

Fodichnea sp. Shivarudrappa 1981: 352; figs. 1-2; PALAEOPROTEROZOIC (Dharwar Supergroup, Dodguni Formation), Dodguni area, Tumkur district, Karnataka.

FOMITCHELLA Eichenberg

Fomitchella sp. Bhatt, Mamgain, Misra & Srivastava 1983: 118; pl. 1, fig. 7; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

GALLATINIA Walcott

Gallatinia pretexa Walcott. Ghare & Badve 1977: 211; pl. 6, fig. 4; LATE PRECAMBRIAN (Kaimur Group, Kaimur Sandstone Formation), Rampura, Chambal valley, Madhya Pradesh.

Gallatinia scalariformis Ghare & Badve 1977: 211; pl. 5, fig. 3; LATE PRECAMBRIAN (Kaimur Group, Kaimur Sandstone Formation), Rampura, Chambal valley, Madhya Pradesh.

GAPARELLA Missarzhevsky

Gaparella porosa Missarzhevsky. Tiwari 1989: 840; figs. 3, 5; VENDIAN (Lolab Formation), Kashmir Basin, Jammu and Kashmir.

GLOSSIFUNGITES Seilacher

Glossifungites sp. Arya & Rao 1979: 130; fig. 2; MIDDLE PROTEROZOIC (Kurnool Group, Narji Formation), Jammalamadugu, north of Kurnool town, north bank of Tungbhadra river, Andhra Pradesh.

GORDIA Emmons

Gordia morina Mathur & Shanker 1989: 25; pl. 1, fig. 3b; EDIACARAN (Krol Group, Krol Formation), Nainital Syncline, Lesser Himalaya, Uttar Pradesh; Tangri, Bhargava & Pandey 2003: 711; pl. 1, fig. 4; PRECAMBRIAN-CAMBRIAN BOUNDARY (Pele-La Group), Bhutan Himalaya.

Gordia sp. Tewari 1993: 34-35; pl. 6, fig. 4; EDIACARAN (Krol Group, Krol Formation), Nainital Syncline, Barapathar landsend section, Uttar Pradesh.

Gordia sp. Shanker, Mathur, Kumar & Srivastava 1997: 88; pl. 2D; EDIACARAN (Krol Group, Tal Formation), Chairkhola village, Pauri Garhwal district, Uttar Pradesh.

HAKKIERIA Azmi

Hakkieria sp. Azmi 1998: 382; pl. 1, figs. 21-23; CAMBRIAN (Semri Group, Rohtasgarh Formation), Son valley, Maihar area, Satna district, Madhya Pradesh & Rohtas district, Bihar.

HELMINTHOPSIS Heer

Helminthopsis sp. Sarkar, Banerjee & Bose 1996: 434; fig. 8; LATE MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Chorhat-Sikarganj section, Madhya Pradesh.

Helminthopsis sp. Tangri, Bhargava & Pandey 2003: 711; pl. 1, fig. 5; PRECAMBRIAN-CAMBRIAN BOUNDARY (Pele-La Group), Bhutan Himalaya.

HERTZINA Eichenberg

Hertzina sp. 1 Bhatt, Mamgain, Misra & Srivastava 1983: 118; pl. 1, fig. 8; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

Hertzina sp. 2 Bhatt, Mamgain, Misra & Srivastava 1983: 118; pl. 1, fig. 9; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

Hertzina sp. Das, Raha & Acharyya 1987: 52; pl. 2, fig. 2; LOWER CAMBRIAN (Krol Group, Upper Krol Formation), Valdiyakhan and Hanumangarhi, Jeolikote-Nainital road section, Nainital area, Nainital district, Uttar Pardesh.

HIEMALORA Fedonkin

Hiemalora stellaris De 2006: 673; figs. 9 C-F; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

Hiemalora sp. De 2003: 392; figs. 5 C-D; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation),

Satna and adjoing areas, Satna district, Madhya Pradesh.

HYOLITHELLUS Missarzhevsky

Hyolithellus tenuis Missarzhevsky. Bhatt, Mamgain, Misra & Srivastava 1983**:** 118; pl. 2, fig. 4; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

Hyolithellus sp. Bhatt & Mathur 1990: 221; fig. 3b; PRECAMBRIAN-CAMBRIAN BOUNDARY (Tal Group, Tal Formation), Chorkhet village, Nainital-Kaladungi road section, Nainital district, Uttar Pradesh.

Hyolithes rohtaswei Rode 1946: 247-248; fig. 1; CAMBRIAN (Semri Group, Rohtas Formation), Rohtas hill, Rohtas quarry, Bamdhera village, Shahabad district, Bihar

ICHNOGENUS Serjeant

Ichnogenus Type A cf. Torrowangea rosei Webby. Maithy & Babu 1988: 588; pl. 2, fig.6; MID PROTEROZOIC (Kaimur Group, Ghurma Shale Formation), Agori Khas Railway station, Markundi, Mirzapur district, Uttar Pradesh.

Ichnogenus Type B ' cf. Asaphodichnus Acenolaza & Durand. Maithy & Babu 1988: 588; pl. 2, fig.7; MID PROTEROZOIC (Kaimur Group, Ghurma Shale Formation), Agori Khas Railway station, Markundi, Mirzapur district, Uttar Pradesh.

Ichnogeus A Shanker, Mathur, Kumar & Srivastava 1997: 88; pl. 2e; EDIACARAN (Krol Group, Tal Formation), Chiphaldi village, Tehri Garhwal district, Uttar Pradesh.

Ichnogenus N Rai 1987: 55; pl. 1.1; EARLY CAMBRIAN (Tal Group, Tal Formation), Mussoorie hills, Masrana and Batagad, Mussoorie-Dhanaulti road section, Dehradun disrict, Uttar Pradesh.

Ichnogenus O Rai 1987: 55; pl. 1.2; EARLY CAMBRIAN (Tal Group, Tal Formation), Mussoorie hills, Masrana and Batagad, Mussoorie-Dhanaulti road section, Dehradun disrict, Uttar Pradesh.

Ichnogenus P Rai 1987: 55; pl. 1.8; EARLY CAMBRIAN (Tal Group, Tal Formation), Mussoorie hills, Masrana and Batagad, Mussoorie-Dhanaulti road section, Dehradun disrict, Uttar Pradesh.

Ichnogenus Q Rai 1987: 55; pl. 1.4; EARLY CAMBRIAN (Tal Group, Tal Formation), Mussoorie hills, Masrana and Batagad, Mussoorie-Dhanaulti road section, Dehradun disrict, Uttar Pradesh.

Ichnogenus A. Tiwari & Parcha 2006: 117; fig. 3d; EARLY CAMBRIAN (Tal Group, Tal Formation, Quartzite Member), Mussoorie-Dhanaulti section, Batagad, Mussoorie, Uttaranchal.

Ichnogenus B. Tiwari & Parcha 2006: 117; fig. 3k; EARLY CAMBRIAN (Tal Group, Tal Formation, Quartzite Member), Mussoorie-Dhanaulti section, Batagad, Mussoorie, Uttaranchal.

ICHYSPICA Link

Ichyspica Link. Rai 1987: 56; pl. 1-7; EARLY CAMBRIAN (Tal Group, Tal Formation), Mussoorie hills, Masrana and Batagad, Mussoorie-Dhanaulti road section, Dehradun disrict, Uttar Pradesh.

IRRIDINITUS Fedonkin

Irridinitus sp. Shanker & Mathur 1992: 32; pl. 2, figs. 2-3; EDIACARAN (Krol Group, Krol Formation), Nainital Syncline, southeastern Narainnagar Vihar on Nainital-Khurpatal road, Gairkhet village, Nainital district, Uttar Pradesh.

KAIMURIA Ghare & Badve

Kaimuria chambalensis Ghare & Badve 1977: 206-207; pl. 5, figs. 1-2, text fig. 1, pl. 4, fig. 1; LATE PRECAMBRIAN (Kaimur Group, Kaimur Sandstone Formation), Chambal valley, Rawatbhata, Kota district, Rajasthan.

KAISALIA Fedonkin

Kaisalia sp. De 2006: 668; figs. 5 F-G; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

KIMBERELLA Wade

Kimberella sp. cf. Kimberella quadrata Glaessner & Wade. Shanker & Mathur 1992: 32; pl. 2, fig. 6; EDIACARAN (Krol Group, Krol Formation), Nainital Syncline, southeastern Narainnagar Vihar on Nainital-Khurpatal road, Gairkhet village, Nainital district, Uttar Pradesh.

LAPWORTHIA Cobbold

Lapworthia sp. Das, Raha & Acharyya 1987: 52; pl. 2, fig. 4; LOWER CAMBRIAN (Krol Group, Upper Krol Formation), Valdiyakhan and Hanumangarhi, Jeolikote-Nainital road section, Nainital area, Nainital district, Uttar Pardesh.

Liny marking Chakrabarti 1988: 178; fig. 5; MIDDLE TO LATE RIPHEAN (Bhander Group, Bhander Limestone Formation), Bankuian, near Rewa town, Rewa district, Madhya Pardesh.

MANCHURIOPHYCUS Endo

Manchuriophycus sawadai Yabe. Ghare & Badve 1977: 211-212; pl. 4, figs. 4-5; pl. 6, fig. 2; LATE PRECAMBRIAN (Kaimur Group, Kaimur Sandstone Formation), Chambal valley, Rawatbhata, Kota district, Rajasthan.

MEDUSINITES Glaessner & Wade

Medusinites asteroides Glaessner & Wade. Raha, Moitra, Das Sarma, Kumar & Rama Rao 1991: 10; fig. not mentioned; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhima Group, Halkal Shale Formation), Andhra Pradesh; Maithy, Meena & Babu 1992: 360; pl. 1, figs. 5-7; LATE PROTEROZOIC (Bhander Group, Dholpura Shale Formation), Lakheri, Rajasthan; De 2006: 673; figs. 9 A-B; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

Medusinites sp. cf. M. asteroides Glaessner & Wade. Mathur & Shanker 1990: 75; pl. 1, fig. 3; EDIACARAN (Krol Group, Krol Formation), Nainital Syncline, Lesser Himalaya, Uttar Pradesh.

MEDUSOIDES Glaessner

Medusoides Sisodia 1982: 1071; fig. 1; MESOPROTEROZOIC (Semri Group, Nimbahera Limestone Formation), Ramapura, Mandsaur district, Madhya Pradesh.

MEGAGRAPTON Ghare & Badve

Megagrapton regulare Ghare & Badve 1977: 210; pl. 7, fig. 2; LATE PRECAMBRIAN (Kaimur Group, Kaimur Sandstone Formation), Chambal valley, Rampura, Neemuch district, Madhya Pradesh.

MEROSTOMICHNITES Packard

Merostomichnites sp. Tiwari & Parcha 2006: 116; fig. 3b; EARLY CAMBRIAN (Tal Group, Tal Formation, Quartzite Member), Mussoorie-Dhanaulti section, Batagad, Mussoorie, Uttaranchal.

MISRAEA Maithy & Babu

Misraea psilata Maithy & Babu 1986: 225; pl. 1, fig. 7; MID-PROTEROZOIC (Semri Group, Rohtas Limestone Formation), east of Markundi, 1.5 km north-east of Ghagar and Son river Junction, Mirzapur district, Uttar Pradesh.

Misraea vindhyanensis Maithy & Babu 1986: 225; pl. 1, figs. 1-6; text-figs. lA-C; MID-PROTEROZOIC (Semri Group. Chopan Porcellanite Formation), from Road cutting along Dala-Chopan and Obra crossings, Mirzapur district, Uttar Pradesh.

MONOCRATERION Torell

Monocraterion sp. Chakrabarti 1990: 147-148; figs. 10-13; LATE PROTEROZOIC (Bhander Group, Upper Bhander Sandstone Formation), Maihar area, Satna district, Madhya Pardesh.

Monocraterion sp. Chakrabarti 1992: 219; fig. 4; LATE PROTEROZOIC (Bhander Group, Upper Bhander Sandstone Formation), Pathna nala, Maihar area, Satna district, Madhya Pardesh.

MONOMORPHICNUS Crimes

Monomorphichnus lineatus Crimes. De, Das & Raha 1994: 79-81; pl. 1, fig. 1; PRECAMBRIAN-CAMBRIAN BOUNDARY (Nigalidhar Syncline), Ganog village, Sirmaur district, Himachal Pradesh.

Monomorphicnus multilineatus Alpert. Tangri, Bhargava & Pandey 2003: 713; pl. 1, fig. 6; PRECAMBRIAN-CAMBRIAN BOUNDARY (Pele-La Group), Bhutan Himalaya.

Monomorphichnus sp. Mathur & Srivastava 2005: 585; pl. 2, fig. D; EARLY CAMBRIAN (TAL GROUP, Daulagiri Formation), Koti Dhaman aera, Nigalidhar Syncline, Sirmaur district, Himachal Pradesh.

Monomorphichnus sp. Crimes. Tiwari & Parcha 2006: 114; figs. 3a-c, g, EARLY CAMBRIAN (Tal Group, Tal Formation), Quartzite member, Mussoorie-Dhanaulti Section, Batagad, Mussoorie, Uttaranchal.

MUNIAICHNUS Kumar

Muniaichnus sp. Kumar 1978: 153; pl. 2, fig. 1; MIDDLE RIPHEAN (Semri Group, Kheinjua Formation), Muni ki Pahari, Newari, area, Mirzapur district, Uttar Pradesh.

NEMIANA Narbonne & Hofmann

Nemiana sp. De 2006: 663; figs. 3A-F; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

NEONEREITES Seilacher

Neonereites biserialis Seilacher. Mathur & Srivastava 2005: 585; pl. 1, fig. a; EARLY CAMBRIAN (Tal Group, Dhaulagiri Formation), Nigalidhar Syncline, Koti Dhaman area, Sirmaur district, Himachal Pradesh.

Neonereites sp. Tiwari & Parcha 2006: 116; fig. 3l; EARLY CAMBRIAN (Tal Group, Tal Formation, Quartzite Member), Mussoorie-Dhanaulti Section, Batagad, Mussoorie, Uttaranchal.

NIMBIA Fedonkin

Nimbia dniesteri Fedonkin. De 2006: 671; figs. 8 A-D; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

Nimbia sp. De 2006: 671; figs. 8E-F; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

OLIVOOIDES Jian=Qian

Olivooides blandes Jian. Das, Raha & Acharyya 1987: 52; pl. 1, fig 9; LOWER CAMBRIAN (Krol Group, Upper Krol Formation), Valdiyakhan and Hanumangarhi, Jeolikote-Nainital road section, Nainital area, Nainital district, Uttar Pardesh.

Olivooides multisulcatus Walcott. Tiwari 1989: 840; fig. 3.4; Lolab Formation, Kashmir Basin, Jammu & Kashmir; Azmi 1998: 382; pl. 1, fig. 24; CAMBRIAN (Semri Group, Rohtas Formation), Son valley, Maihar area, Satna district, Madhya Pradesh and Rohtas district, Bihar; Bhatt & Mathur 1990: 220; fig. 3D; PRECAMBRIAN-CAMBRIAN BOUNDARY (Tal Group, Tal Formation), Chorkhet village, Nainital-Kaladungi road section, Nainital district, Uttar Pradesh.

Olivooides sp. Das, Raha & Acharyya 1987: 51; pl. 1, figs. 1-8; CAMBRIAN (Krol Group, Upper Krol Formation), Valdiyakhan toll gate on Nainital road, Nainital district, Uttar Pardesh.

Organic plates Venkatachala & Rawat 1972: 111; pl. 1, figs. 15-18; LATE PRECAMBRIAN (Bhima Group), Talikote-Gulbarga section, Gulbarga district, Karnataka.

ONISCODICHNUS Brady

Oniscodichnus sp. Das Sarma, Shukla, Sengupta & Moitra 1997: 77; pl. 1, fig. 2; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Bhander Limestone Formation), Bankuian area, Rewa, Madhya Pradesh.

PALAEOCRYPTIDIUM Deflandre

Palaeocryptidium cayeuxi Deflandre. Suresh & Gowda 1981: 131; pl. 2, fig. 4; LATE PROTEROZOIC (Bhima Group), Ganurthi, Gulbarga district, Karnataka.

PALAEOEUNIECHNITES Ghare & Badve

Palaeoeuniechnites sangustus Ghare & Badve 1977: 209; pl. 7, figs. 1, 4, text fig. 2; LATE PRECAMBRIAN (Kaimur Group, Kaimur Sandstone Formation), Chambal valley, Rawatbhata, Kota district, Rajasthan.

PALAEOPHYCUS Hall

Palaeophycus sp. Kale, Patil, Sankar & Kumar 1987: 594; figs. 3 a-b; LATE PRECAMBRIAN (Cuddapah Supergroup), Nagarjuna Sagar dam, Nalgonda district, Andhra Pradesh.

Palaeophycus sp. Mathur & Srivastava 2005: 585; pl.1, fig. b; EARLY CAMBRIAN (Tal Group, Deo Ka Tibba and Dhaulagiri Formation), Koti Dhaman-Birpa area, Nigalidhar and Korgai Synclines, Sirmaur district, Himachal Pradesh.

PALIELLA Fedonkin

Paliella patelliformis Fedonkin. (Dubiofossil A) Kalia, Bhagwat, Banerjee, Pandey, and Trevedi 1992: 427, figs. 2.1a. b, 2.2, 2.3a, 3.1, 3.2, 3.3;

VENDIAN (Delhi Supergroup, Alwar Quartzite) Sohna town, Gurgaon district, Haryana.

Paliella sp. De 2006: 671; figs. 8 G-H; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

PARAPUNCTELLA Unknown author

Parapunctella sp. Bhatt, Mamgain, Misra & Srivastava 1983**:** 118; pl. 2, fig. 5; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

PHYCODES Richter

Phycodes pedum Seilacher. Tangri, Bhargava & Pandey 2003: 713; pl. 1, fig. 5; PRECAMBRIAN-CAMBRIAN BOUNDARY (Pele-La Group), Bhutan Himalaya.

Phycodes sp. De, Das & Raha 1994: 82; pl. 2, fig. 1; PRECAMBRIAN-CAMBRIAN BOUNDARY (Nigalidhar Syncline), Ganog village, Sirmaur district, Himachal Pradesh.

PLAGIOGAMUS Raedel

Plagiogmus sp. Sarkar, Banerjee & Bose 1996: 434; fig. 7; LATE MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Chorhat-Sikarganj section, Madhya Pradesh.

Plagiogamus sp. Mathur & Srivastava 2005: 585; pl. 2, fig. c; EARLY CAMBRIAN (Tal Group, Dhaulagiri Formation), Nigalidhar Syncline, Koti Dhaman area, Sirmaur district, Himachal Pradesh.

PLANOLITES Nicholson

Planolites reticulata Alpert. De 1993: 135; fig. 2A; PRECAMBRIAN-CAMBRIAN BOUNDARY (Khaiyar Formation, Rajdain member, Unit I), Liddar valley, Kashmir.

Planolites serpens Webby. De 1993: 136; figs. 2C-E; PRECAMBRIAN-CAMBRIAN BOUNDARY (Khaiyar Formation, Rajdain member, Unit I), Liddar valley, Kashmir.

Planolites sp. De 1993: 139; figs. 3 A-B; PRECAMBRIAN-CAMBRIAN BOUNDARY (Khaiyar Formation, Rajdain member, Unit I), Liddar valley, Kashmir.

Planolites sp. De, Das & Raha 1994: 81-82; pl. 1, fig. 3; PRECAMBRIAN-CAMBRIAN BOUNDARY (Nigalidhar Syncline), Ganog village, Sirmaur district, Himachal Pradesh.

Planolites sp. Kale, Patil, Sankar & Kumar 1987: 594; figs. 3 a-b; LATE PRECAMBRIAN (Cuddapah Supergroup), Nagarjuna Sagar dam, Nalgonda district, Andhra Pradesh.

Planolites sp. Rai 1987: 55; pl. 1.6; EARLY CAMBRIAN (Tal Group, Tal Formation), Mussoorie hills, Masrana and Batagad, Mussoorie-Dhanaulti road section, Dehradun disrict, Uttar Pradesh.

Planolites Sarkar, Banerjee & Bose 1996: 434; fig. 9; LATE MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Chorhat-Sikarganj section, Madhya Pradesh.

Planolites sp. A Tangri, Bhargava & Pandey 2003: 713; pl. 1, fig. 7; PRECAMBRIAN-CAMBRIAN BOUNDARY (Pele-La Group), Bhutan Himalaya.

Planolites sp. B Tangri, Bhargava & Pandey 2003: 713; pl. 1, fig. 8; PRECAMBRIAN-CAMBRIAN BOUNDARY (Pele-La Group), Bhutan Himalaya.

Planolites sp. C Tangri, Bhargava & Pandey 2003: 713; pl. 1, fig. 6; PRECAMBRIAN-CAMBRIAN BOUNDARY (Pele-La Group), Bhutan Himalaya.

Planolites sp. Mathur & Srivastava 2005: 585; pl. 2, figs. a, e; EARLY CAMBRIAN (Tal Group, Deo Ka Tibba and Dhaulagiri Formations), Koti Dhaman, Birpa, area, Nigalidhar and Korgai Synclines, Sirmaur district, Himachal Pradesh.

Planolites sp. A Tiwari & Parcha 2006: 115; fig. 3h; EARLY CAMBRIAN (Tal Group, Tal Formation, Quartzite Member), Mussoorie-Dhanaulti Section, Batagad, Mussoorie, Uttaranchal.

Planolites sp. B Tiwari & Parcha 2006: 115; fig. 30; EARLY CAMBRIAN (Tal Group, Tal Formation, Quartzite Member), Mussoorie-Dhanaulti Section, Batagad, Mussoorie, Uttaranchal.

PROBLEMATICUM Bhatt

Problematicum 1 Bhatt, Mamgain, Misra & Srivastava 1983: 118; pl. 1, figs. 10-13; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

Problematicum 2 Bhatt, Mamgain, Misra & Srivastava 1983: 118; pl. 1, fig. 14; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

PRONEOTODUS Müller

Proneotodus tenuis Müller. Azmi & Paul 2004: 1657; pl. 1, fig. g; PRECAMBRIAN-CAMBRIAN BOUNDARY (Gangolihat Dolomite Formation), Kumaon Himalaya, Jhiroli Magnesite mine, Uttaranchal.

PROTOHERTZINA (Missarzhevsky) Bengtson

Protohertzina anabarica Missarzhevsky. Azmi & Paul 2004: 1657; pl. 1, fig. f; (Gangolihat Dolomite Formation), Kumaon Himalaya, Jhiroli Magnesite mine, Uttaranchal.

Protohertzina robusta Qian. Azmi & Paul 2004: 1657; pl. 1, figs. a-c, k-l; PRECAMBRIAN-CAMBRIAN BOUNDARY (Gangolihat Dolomite Formation), Kumaon Himalaya, Jhiroli Magnesite mine, Uttaranchal.

Protohertzina siciformis Missarzhevsky. Azmi & Paul 2004: 1657; pl. 1, figs. i, j; PRECAMBRIAN-CAMBRIAN BOUNDARY (Gangolihat Dolomite Formation), Kumaon Himalaya, Jhiroli Magnesite mine, Uttaranchal.

Protohertzina ungliformis Missarzhevsky. Azmi & Paul 2004: 1657; pl. 1, figs. d-e; PRECAMBRIAN-CAMBRIAN (Gangolihat Dolomite Formation), Kumaon Himalaya, Jhiroli Magnesite mine, Uttaranchal.

Protohertzina sp. Bhatt, Mamgain, Misra & Srivastava 1983: 118; pl. 1, fig. 1; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

Protohertzina sp. Tiwari 1989: 839; fig. 3.1; PRECAMBRIAN-CAMBRIAN (Lolab Formation), Kashmir Basin, Jammu and Kashmir.

Protohertzina sp. Azmi & Paul 2004: 1657; pl. 1, fig. h; PRECAMBRIAN-CAMBRIAN BOUNDARY (Gangolihat Dolomite Formation), Kumaon Himalaya, Jhiroli Magnesite mine, Uttaranchal.

PROTOVIRGULARIA M Coy

Protovirgularia sp. Das Sarma, Shukla, Sengupta & Moitra 1997: 77; pl. 2, fig. 1; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Bhander Limestone Formation), Bankuian area, Rewa, Madhya Pradesh.

Pseudo organic structure De, Das & Raha 1994: 84; pl. 3, figs. 2-4; PRECAMBRIAN-CAMBRIAN BOUNDARY (Nigalidhar Syncline), Ganog village, Sirmaur district, Himachal Pradesh.

PTERIDINIUM Gürich.

Pteridinium sp. cf. Pteridinium simplex Gürich. Mathur & Shanker 1989: 250; pl. 1, figs. 2, 4, 6; EDIACARAN (Krol Group, Krol Formation), Nainital Syncline, Uttar Pradesh.

PURATENICHNUS Mathur & Chhatri

Puratenichnus bijawarensis Mathur & Chhatri 1986: 249; pl. 1, figs. 1a-b; LOWER PROTEROZOIC (Bijawar Group, Amornia Quartzite Formation), Pathar lake, near Bijawar town, Chhatarpur district, Madhya Pradesh.

RENALCIS Vologdin

Renalcis sp. Shukla 1984: 240**;** pl. 1, figs. 1 & 2; RIPHEAN (Deoban Formation), east of Mastamano, Satsilling in Sor, Calcareous slates, Nakot, Uttar Pradesh.

Renalcis sp. Moitra 1990: 393; pl. 4, fig. 9; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Akaltara section, Bilaspur district, Madhya Pradesh.

Renalcis sp. Moitra 1999: 70; fig. 67; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Akaltara and Chukatta sections, Bilaspur district, Madhya Pradesh.

RHYSONETRON Hofmann

Rhysonetron ramapuaensis Ghare & Badve 1977: 212; pl. 6, fig. 3; LATE PRECAMBRIAN (Kaimur Group, Kaimur Sandstone Formation), Rampura, Chambal valley, Madhya Pradesh.

ROUAUTILA Lebesconte

Rouautila rewarensis Verma & Prasad 1968: 558; fig. 2; LATE PRECAMBRIAN (Bhander Group, Bhander Limestone Formation), Bankuian, Rewa district, Madhya Pradesh.

RUSOPHYCUS Hall

Rusophycus sp. Joshi & Mathur 1987: 65; fig. 7; CAMBRIAN (Tal Group, Tal Formation), Latest Proterozoic (Tal Group, Tal Formation), Jabarkhet and Woodstok college on Mussoorie-Dhanaulti-Chamba road section, Tehri-Garhwal district, Uttar Pradesh.

Rusophycus sp. Rai 1987: 55; pl. 1-3; EARLY CAMBRIAN (Tal Group, Tal Formation), Mussoorie hills, Masrana and Batagad, Mussoorie-

Dhanaulti road section, Dehradun disrict, Uttar Pradesh.

Rusophycus sp. Mathur & Srivastava 2005: 585; pl. 2, fig. b; EARLY CAMBRIAN (Tal Group, Dhaulagiri Formation), Nigalidhar Syncline, Koti Dhaman area, Sirmaur district, Himachal Pradesh.

SACHITES Meshkova

Sachites sp. 1 Bhatt, Mamgain, Misra & Srivastava 1983**:** 118; pl. 2, figs. 1, 6; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

Sachites sp. 2 Bhatt, Mamgain, Misra & Srivastava 1983**:** 118; pl. 2, fig. 2; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

Sachites sp. 3 Bhatt, Mamgain, Misra & Srivastava 1983**:** 118; pl. 2, fig. 3; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

SCOLEPIS Müller

Scolepis squamata Muller. Chakrabarti 2001: 135; fig. 7; MESOPROTEROZOIC (Semri Group, Chorhat Sandstone Formation), Chorhat, near Rewa, Rewa district, Madhya Pradesh.

SCOLICIA de Quatrefages

Scolicia Sarkar, Banerjee & Bose 1996: 434; fig. 7; LATE MESOPROTEROZOIC (Semri Group, Kheinjua Formation), Chorhat-Sikarganj section, Madhya Pradesh

SCRATCH MARKS Tewari & Parcha

Scratch marks Tiwari & Parcha 2006: 117; figs. 3f, g, i; EARLY CAMBRIAN (Tal Group, Tal Formation, Quartzite Member), Mussoorie-Dhanaulti section, Batagad, Mussoorie, Uttaranchal.

SEKWIA Hofmann

Sekwia excentrica Hofmann. Maithy & Babu 1988: 586; pl. 1, figs. 7-8, pl. 2, fig. 1; MID-PROTEROZOIC (Semri Group, Rohtas Limestone Formation), Markundi, Mirzapur district, Uttar Pradesh; Maithy & Babu 1997: 4; pl. 1, figs. 24-25; VENDIAN-CAMBRIAN BOUNARY (Bhander Group, Lakheri Limestone Formation) Maihar area, Satna district, Madhya Pradesh.

Sekwia sp. cf. Sekwia excentrica Hofmann. Shanker & Mathur 1992: 30; pl. 2, figs. 3, 5; EDIACARAN (Krol Group, Krol Formation), Nainital Syncline, southeastern Narainnagar Vihar on Nainital Khurpatal road, Gairkhet village, Nainital district, Uttar Pradesh.

Shell like form Prakash 1966: 466; figs. 1-2; MIDDLE PROTEROZOIC (Semri Group, Kajarahat Limestsone Formation), Kajrahat village, Mirzapur district, Uttar Pradesh.

SKOLITHOS (Alpert) Haldemann

Skolithos linearis Haldemann. De, Das & Raha 1994: 82; pl. 1, figs. 4-5; PRECAMBRIAN-CAMBRIAN BOUNDARY (Nigalidhar Syncline), Ganog village, Sirmaur district, Himachal Pradesh; Kulkarni & Borkar, 1996: 1098; figs. 3-7; LATE PROTEROZOIC (Kaimur Group, Lower Kaimur Quartzite, Morwan Sandstone Formation) Chittorgarh Fort, Rajasthan; Kulkarni & Borkar, 1996: 320-321; fig.1; MIDDLE RIPHEAN (Kaimur Group, Morwan Sandstone Formation = Lower Kaimur Quartzite), Kirti Stumbh, Chittorgarh Fort, Rajasthan; Kulkarni & Borkar, 1996: 320-321; figs. 2-3; MIDDLE RIPHEAN (Kaimur Group, Morwan Sandstone Formation=Lower Kaimur Quartzite), Besla, Mandsaur district, Madhya Pradesh.

Skolithos sp. Arya & Rao 1979: 129; fig. 2; MIDDLE PROTEROZOIC (Kurnool Group, Narji Formation), Jammalamadugu, north of Kurnool town, north bank of Tungbhadra river, Andhra Pradesh.

Skolithos sp. Sharma & Pant 1988: 801; figs. 4-5; LATE PROTEROZOIC (Nagthat Formation), Kailkhan-Gethia ridge, Gethia, near Nainital, Nainital district, Uttar Pradesh.

Skolithos sp. Chakrabarti 1992: 219; figs. 2-3; LATE PROTEROZOIC (Bhander Group, Upper Bhander Sandstone Formation), Pathna nala, Maihar area, Satna district, Madhya Pardesh.

Skolithos sp. De 1993: 139; figs. 3 C-D; PRECAMBRIAN-CAMBRIAN BOUNDARY (Khaiyar Formation, Rajdain member, Unit II), Liddar valley, Kashmir.

Skolithos sp. De, Das & Raha 1994: 83; pl. 2, fig. 5; PRECAMBRIAN-CAMBRIAN BOUNDARY

(Nigalidhar Syncline), Ganog village, Sirmaur district, Himachal Pradesh.

Skolithos Tewari 2003: 16; fig. 13a; TERMINAL NEOPROTEROZOIC (Buxa Group, Miri Quartzite Formation), Sheregaon-Jigaon-Chillipam section, west of Kameng district, Arunachal Pradesh.

Skolithos Tewari 2003: 16; fig. 13a; TERMINAL NEOPROTEROZOIC (Buxa Group, Miri Quartzite Formation), Sheregaon-Jigaon-Chillipam section, west of Kameng district, Arunachal Pradesh.

Skolithos sp. Mathur & Srivastava 2005: 585; pl. 1, fig. g; pl. 2, fig. f; EARLY CAMBRIAN (Tal Group, Deo Ka Tibba and Dhaulagiri Formations), Nigalidhar and Korgai Synclines, Koti Dhaman, Birpa areas, Sirmaur district, Himachal Pradesh.

Skolithos sp. Tiwari & Parcha 2006: 115; fig. 3 m, n; EARLY CAMBRIAN (Tal Group, Tal Formation, Quartzite Member), Mussoorie-Dhanaulti section, Batagad, Mussoorie, Uttaranchal.

SONJIWASHMAN Mathur

Sonjiwashman basuharensis Mathur 1982: 126; fig. 2B; MIDDLE PRECAMBRIAN (Semri Group, Basuhari Sandstone Formation), Mirzapur district, Uttar Pradesh.

SPIRELLUS Jiang

Spirellus shankari. Azmi 1998: 382; pl. 1, fig. 24; CAMBRIAN (Semri Group, Rohtas Formation), Son valley, Maihar area, Satna district, Madhya Pradesh and Rohtas district, Bihar.

SPIROICHNUS Mathur

Spiroichnus beeri Mathur 1983: 112; pl. 2, figs. 1-2; PRECAMBRIAN (Semri Group, Rohtas Formation), Rohtas, Shahabad district, Bihar.

SPRIGGINA Glaessner

Spriggina sp. De 2006: 674; figs. 10 A-B; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

TAPHRHELMINTHOPSIS Sacco

Taphrhelminthopsis circularis Crimes et al., De 1993: 139; fig. 3F; PRECAMBRIAN-CAMBRIAN BOUNDARY (Khaiyar Formation, Rajdain member, Unit II), Liddar valley, Kashmir.

TALIELLA Azmi

Taliella himalayaica Azmi 1998: 382, 387; pl. 1, fig. 28; pl. 2, figs. 1-6; CAMBRIAN (Semri Group, Rohtas Formation), Son valley, Maihar area, Satna district, Madhya Pradesh and Rohtas district, Bihar.

Taliella cf. Taliella Tiwari 1989: 840; fig. 3.2; Lolab Formation, Kashmir Basin, Jammu and Kashmir.

TASMANIDIA Chapman

Tasmanidia sp. Das Sarma, Shukla, Sengupta & Moitra 1997: 78; pl. 2, fig. 2; PRECAMBRIAN-CAMBRIAN BOUNARY (Bhander Group, Bhander Limestone), Bankuian area, Rewa district, Madhya Pradesh.

TEICHICHNUS Seilacher

Teichichnus Rai 1987: 55; pl. 1-5; EARLY CAMBRIAN (Tal Group, Tal Formation), Mussoorie hills, Masrana and Batagad, Mussoorie-Dhanaulti road section, Dehradun disrict, Uttar Pradesh.

TIRASIANA Palij

Tirasiana sp. Mathur & Shanker 1990: 74; pl. 1, figs. 1-2; EDIACARAN (Krol Group, Krol Formation), Nainital Syncline, Uttar Pradesh.

Trails Form A Dasgupta & Prasad 1995: 595; fig. A; MIDDLE PROTEROZOIC (Delhi Supergroup), Kolgaon-Kalinjar ridge, Haryana.

Trails Form B Dasgupta & Prasad 1995: 595; figs. B-C; MIDDLE PROTEROZOIC (Delhi Supergroup), Kolgaon-Kalinjar ridge, Haryana.

Trail marks Singh & Bose 1985: 422; fig. 1; LATE PRECAMBREIAN (Alwar Group, Rajgarh Formation and Ajabgarh Group, Badalgarh Formation), Bhasawar, Sita, Alapuri (Bayana), Dago, Bairat and Jaipur areas, Jaipur district, Rajasthan.

TRAPEZOTHECA (Syssoviev) Missarzhevsky

Trapezotheca sp. 1 Bhatt, Mamgain, Misra & Srivastava 1983: 118; pl. 1, fig. 4; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

Trapezotheca sp. 2 Bhatt, Mamgain, Misra & Srivastava 1983: 118; pl. 1, fig. 5; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

Trapezotheca sp. 3 Bhatt, Mamgain, Misra & Srivastava 1983: 118; pl. 1, fig. 6; TOMMOTIAN (Tal Group, Tal Formation), near Mussoorie, PPCL Mine, Maldeota, Dehradun district, Uttar Pradesh.

TRIBRACHIDIUM Glaessner

Tribrachidium sp. De 2006: 666; figs. 5A-C; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

TRIPLOBLASTIC (animal burrow) Seilacher

Triploblastic animal burrows Seilacher, Bose & Pfluger 1998: 81; fig. 2, figs. 3 (a-b), text fig. 4; MESOPROTEROZOIC (Semri Group, Chorhat Sandstone), Chorhat area, Rewa district, Madhya Pradesh.

TUBOCYATHUS Maithy and Gupta

Tubocyathus vindhyanensis Maithy and Gupta 1981: 79; pl. 1, figs. 4-7; text fig. 2; NEOPROTEROZOIC (Bhander Group, Nagod Limestone Formation), Kulwara area, Govindgarh Chandrehi Section, Rewa district, Madhya Pradesh.

TURUTHECA (Syssoviev) Missarzhevsky

Turutheca sp. Bhatt & Mathur 1990: 221; fig. 3 a; PRECAMBRIAN-CAMBRIAN BOUNDARY (Tal Group, Tal Formation), Chorkhet village, Nainital-Kaladungi road section, Nainital district, Uttar Pradesh.

Unnamed Form 1 cf. coelenterate. De 2006: 676; figs. 10 C-D; PRECAMBRIAN-CAMBRIAN BOUNDARY (Bhander Group, Lakheri Limestone Formation), Satna and adjoing areas, Satna district, Madhya Pradesh.

VESICOPHYCUS Mandal & Maithy

Vesicophycus problematicus Mandal, Maithy, Barman & Verma 1984: 11; pl. 3, fig. 25; pl. 4, fig. 32 (Partally consistent with explanation of plates) LATE PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), 1 km to the east of Baraud village, Alwar district, Rajastban.

WORM BURROWS

Worm burrows cf. Lithotrya type Frey. Sisodiya & Jain 1984: 111; figs. 1-2; LATE PRECAMBRIAN (Kaimur Group, Kaimur Sandstone Formation), Besla, Mandsaur district, Madhya Pradesh.

Worm like Srivastava & Kumar 1997: 146; figs. 4a, b; NEOPROTEROZOIC (Deoban Formation), Deoban hill, Chakrata area, Dehradun district, Uttar Pradesh.

ZOLOTYTSIA Fedonkin

Zolotytsia biserialis Fedonkin. Shanker & Mathur 1992: 35; pl. 3, fig. 9; EDIACARAN (Krol Group, Krol Formation), Nainital Syncline, Uttar Pradesh; Shanker, Mathur, Kumar & Srivastava 1997: 86; pl. 2B; EDIACARAN (Krol Group, Tal Formation), Chiphaldi village, Tehri Garhwal district, Uttar Pradesh.

ZOOPHYCUS Massalongo

Zoophycus sp. De 1993: 139; fig. 3E; PRECAMBRIAN-CAMBRIAN BOUNDARY (Khaiyar Formation, Rajdain member, Unit II), Liddar valley, Kashmir.

STROMATOLITES

ACACIELLA Walter

Acaciella augustus Preiss. Moitra 1999: 52, figs. 37 a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Dhabadih, Raipur district, Madhya Pradesh.

ALDANIA Krylov

Aldania birpica Tewari & Mathur 2003: 43; pls. 1 C, 2B; LOWER CAMBRIAN (Tal Group, Dhaulagiri Formation), Birpa-Bhithad Ka Khala section, Himachal Pradesh.

Aldania mussoorica Tewari 1984: 73-75; pl. 3, fig. 3; TOMMOTIAN (Tal Group, Tal Formation), Mussoorie area Nainital district, Uttar Pradesh.

ANABARIA Komar

Anabaria radialis Raha & Das 1989: 133; pl. 3, fig. q1-q2; UPPER PROTEROZOIC (Jammu

Limestone & Shali Limestone Formations), Jammu & Kashmir and Himachal Pradesh.

Anabaria cf. **A. radialis** Komar. Raha 1978: 162, figs. 35 a-b; RIPHEAN (Jammu Limestone, Upper Algal Biostrome III), Jammu & Kashmir; Raha 1984: 29; pl. 35, figs. 1-4; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Sersandu, Jammu & Kashmir; Moitra 1999: 42, figs. 30 a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Jamul quarry, Kharkhena village, Durg and Raipur districts, Chhattisgarh.

Anabaria sp. Gururaja & Chandra 1987: 415; pl. 9, fig. 4; PROTEROZOIC (Cuddapah Supergroup, Tadpatri Formation), 4 km NNE of Rayalcheruvu, Andhra Pradesh.

?**Anabaria fm**. Gururaja & Chandra 1987: 415; pl. 9, figs. 1-2; PROTEROZOIC (Cuddapah Supergroup, Vempalle Formation), 6 km south of Pulivendla, Andhra Pradesh.

Anabaria Sikdar 1989: 88; fig. 2D; NEOPROTEROZOIC (Chhattisgarh Supergroup, Raipur Fortmation), Nandini-Jamul areas, Durg district, Madhya Paradesh.

Anabaria fm. Moitra 1990: 393; pl. 5, fig. 6; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Kotni, Durg district, Madhya Pradesh.

Anabaria fm. Moitra 1990: 387; pl. 2, fig. 2; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Nipania, Bilaspur district, Madhya Pradesh.

ARCHAEOZOON Mathewa

Archaeozoon acandise Hofmann. Banerjee & Basu 1980: 248; fig. 15; PRECAMBRIAN (Aravalli Supergroup, Jhabua Phosphorite Member), Khatama and Amliamal section, Jhabua, Rajasthan.

BAICALIA Krylov

Baicalia baicalica Krylov. Raha & Sastri 1973: 142, fig. 3a; LOWER-MIDDLE RIPHEAN (Jammu Limestone Formation), Riasi Tehsil, Udhampur district, Jammu & Kashmir; Kumar 1976a: 17; pl. 4, figs. 1 & 3; MIDDLE RIPHEAN (Bhander Group, Bhander Limestone Formation), Tons river section, Emlia quarries, Maihar, Madhya Pradesh; Kumar 1977: 341; figs. 1 & 3; MIDDLE RIPHEAN (Semri Group, Tirohan Limestone Formation), Sitakund, Chitrakut, on Chitrakut-Satna Road, Uttar Pradesh; Singh & Rai 1977: 736, figs. 3 & 4; MIDDLE RIPHEAN (Krol Group, Krol Formation), Nainital district, Uttar Pradesh; Gupta, Udhoji & Verma 1988: 154; pl. 4, fig. 3; LOWER TO UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra; Raha 1980: 161, figs. 31a-b & 33; RIPHEAN (Jammu Limestone, Upper Algal biostrome, Biostrome III), Jammu & Kashmir; Barman & Verma 1980: 210, figs. C-D; LOWER-MIDDLE RIPHEAN (Semri Group, Bhagwanpura Limestone Formation), Bhojunda, Chittorgarh district, Rajasthan; Verma & Barman 1980: 86, fig. A; MIDDLE RIPHEAN (Delhi Supergroup, Kushalgarh Formation), Alwar district, Rajasthan; Moitra 1986: 126; pl. 1, figs. 3-4; LOWER RIPHEAN (Raipur Formation), Bitkuli, Raipur district, Madhya Pradesh; Raha & Das 1989: 133; pl. 3, figs. r, s ; UPPER PROTEROZOIC (Jammu Limestone and Shali Formations), Himachal Pradesh and Jammu & Kashmir; Valdiya 1989: 198; fig. 7A; UPPER PROTEROZOIC (Bhander Group, Bhander Limestone Formation), Maihar-Satna area, Satna district, Madhya Pradesh; Moitra 1990: 387; pl. 1, fig. 3; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Nandini, Durg district, Madhya Pradesh; Guhey & Wadhwa 1993 : 46; figs. 2 G-I, text figs. 3C-D; MIDDLE RIPHEAN (Chhattisgarh Supergroup, Chandi Formation), Nandini Mine and Chikhli village, Durg district, Madhya Pradesh; Moitra 1999: 38, fig. 27a, b, c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Deorjhal and Behesar, Raipur district, Madhya Pradesh; Gupta, 2004: 120; pl. 3, fig. j; PROTEROZOIC (Chhattisgarh Group, Chandi Limestone Formation), Purena Mine section, Raipur district, Madhya Pradesh.

Baicalia bifurcata Moitra 1990: 387; pl. 3, fig. 2; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Chilhatti, Bilaspur district, Madhya Pradesh; Moitra 1991: 88; figs. 2a, 5; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Hirri Quarry section, Raipur district, Madhya Pradesh; Moitra 1999: 33, figs. 25 a, b, c; PROTEROZOIC (Raipur Group,

Raipur Limestone Formation), Deondangar hill, Raipur district, Madhya Pradesh.

Baicalia chandakia Tewari 1989: 150; pl. 2, fig. a; MIDDLE PROTEROZOIC (Tejam Group, Gangolihat Dolomite Formation), Chandak area, Pithoragarh district, Uttar Pradesh.

Baicalia constrica Moitra 1991: 85; figs. 1a, 6; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Murhipar, Chandi, Mulmula, Lilagarh and Jamul quarry section, Raipur district, Madhya Pradesh; Moitra 1999: 30, figs. 23 a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Murhipar, Chandi, Nariaree, Mulmula on the river bed of Lilagarh and Jamul town, Raipur district, Madhya Pradesh.

Baicalia cornia Walter. Moitra 1999: 27, fig. 22 a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Murhipar Railway station, south of Pindaraon and Nandini Mine, Raipur district, Madhya Pradesh.

Baiclalia lacera Semikhatov. Moitra 1999: 33, figs. 24a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Jamul quarry, Raipur district, Madhya Pradesh.

Baicalia prima Semikhatov. Banerjee 1971: 351; pl. 1**,** fig. 2; pl. 3, figs. 1, 3 & 9; MIDDLE RIPHEAN (Aravalli Supergroup), Dakan, Kotra and Sameta, Rajasthan. Barman, Verma & Puri 1978: 265; pl. & figs. not specified; PRECAMBRIAN (Aravalli Supergroup), Udaipur, Rajasthan; Raha 1980: 161, figs. 32 a-b & 34; RIPHEAN (Jammu Limestone, Upper algal Biostrome III), Katra-Vaishnodevi foot-track, Vaishnodevi Temple, Jammu, Jammu & Kashmir; Raha 1984: 28; pl. 33, figs. 1-3; pl. 34; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Riasi-Salal section, Jammu and Kashmir; Moitra 1986: 127; pl. 2, fig. 3; LOWER RIPHEAN (Raipur Formation), Nandini Mine, Durg district, Madhya Pradesh; Raha & Das 1989: 133; pl. 3, fig. p; UPPER PROTEROZOIC (Jammu Limestone), Jammu & Kashmir; Moitra 1990: 387; pl. 2, fig. 5; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Bitkuli, Raipur district, Madhya Pradesh; Moitra 1999: 35, figs. 26 a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Nandini Mines and Purnia, Raipur district, Madhya Pradesh; Gupta 2004: 118; pl. 3, fig. g; PROTEROZOIC (Chhattisgarh Group, Chandi Limestone Formation), Nandini Mines section, Raipur district, Madhya Pradesh.

Baicalia satnaensis Kumar 1976a: 18; plates and figs. not mentioned in text; MIDDLE RIPHEAN (Bhander Group, Bhander Limestone Formation), Chaasia Limestone quarries. Sajjanpur, Satna, Madhya Pradesh.

Baicalia cf. burra Preiss. Moitra 1999: 25, figs. 21a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), near Murhipar, Pawan, Karhi and Champa quarries, Raipur district, Madhya Pradesh.

Baicalia Sikdar 1989: 88; fig. 2A; NEOPROTEROZOIC (Chhattisgarh Supergroup, Raipur Fortmation), Nandini-Jamul area, Durg district, Madhya Paradesh.

Baicalia fm. Valdiya 1980: 120, fig. 2b; MIDDLE RIPHEAN (Tejam Group, Gangolihat Formation), Dhari, Pithoragarh, Uttar Pradesh.

Baicalica fm. Raha 1984: 27; pl. 30, figs. 1-3; pl. 31, figs. 1-4; pl. 32; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Salal, Gran-Khairi section, Jammu and Kashmir.

Baicalia fm. Valdiya 1989: 198; fig. 7C; MIDDLE PROTEROZOIC (Semri Group, Bhagwanpura Limestone Formation), Bhojunda area, Rajasthan.

Baicalia fm. Valdiya 1989: 200; fig. 8A; MIDDLE PROTEROZOIC (Tejam Group, Deoban Limestone Formation), Chandaak area, Pithoragarh district, Uttar Pradesh.

Baicalia sp. Rao, Lal & Ghosh 1977: 41; pl. 7, figs. 2A-B; pl. 8-9; UPPER RIPHEAN **(**Bhander Group, Nagod Limestone Formation), along Magardha river, Durjanpur, Kotar-Kemari hill; Khama and Ahragam section, Satna, Madhya Pradesh.

Baicalia sp. Banerjee & Basu 1980: 244, figs. 9-11 & 13; PRECAMBRIAN (Aravalli Supergroup, Jhabua Phosphorite Member), Kelkua and Khatama sections, Jhabua, Rajasthan.

Baicalia sp. Bhargava & Ahluwalia 1980: 189, fig. 2A; PRECAMBRIAN (Deoban Group, Deoban Formation), Tunda pathar and Mallah, Uttar Pradesh.

Baicalia sp. Bhargava & Ahluwalia 1980: 190, fig. 2C; PRECAMBRIAN (Deoban Group, Sataun Limestone), Sataun, Uttar Pradesh.

Baicalia sp. Bhargava & Ahluwalia 1980: 192, fig. 1D; PRECAMBRIAN (Shali Formation, Khatpul Member), near Slapper bridge, Himachal Pradesh.

Baicalia sp. Bhargava & Ahluwalia 1980: 189, fig. I-D; PRECAMBRIAN (Shali Formation), Slapper bridge, Himachal Pradesh.

Baicalia sp. Bhargava & Ahluwalia 1980: 100, fig. 2 A; PRECAMBRIAN (Deoban Formation), Peontra, Uttar Pradesh.

Baicalia sp. Bhargava & Ahluwalia 1980: 100, fig. 2 C; PRECAMBRIAN (Deoban Formation), Peontra, Uttar Pradesh.

Baicalia sp. Jairaman & Banerjee 1980: 60**,** figs. 4-5; LATE PRECAMBRIAN (Raipur Limestone Foramtion), Chhattisgarh Basin, Raipur district, Madhya Pradesh.

Baicalia sp. Tewari 1984: 73-75; pl. 2, fig. 1; PRECAMBRIAN-CAMBRIAN BOUNDARY (Buxa Group, Shali Formation), Aut and Larji areas, Simla, Himachal Pradesh.

Baicalia sp. Pant & Sharma 1988: 610, figs. 2 & 3; MIDDLE RIPHEAN (Krol Group, Krol Formation), Krol Belt along Balia nala, Nainital district, Uttar Pradesh.

Baicalia sp. Gupta, Udhoji & Verma 1988: 154; pl. 4, fig. 4; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra.

Baicalia sp. Gupta, Udhoji & Verma 1988: 154; pl. 4, fig. 5; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), Buggagutta area, Gadchiroli district, Maharashtra.

? Baicalia sp. Sarkar 1989: 33; pl. 1, fig. 4; PRECAMBRIAN (Banded Iron Formation), Noamundi Basin, Bihar.

Baicalia sp. Gupta & Verma 1989: 57; pl. 2, fig. C; MIDDLE TO UPPER RIPHEAN (Bijawar Group, Lohar Dolomite Formation), Joga area, Hoshangabad district, Madhya Pradesh.

Baicalia sp. Valdiya 1989: 200, fig. 8D; MIDDLE PROTEROZOIC (Tejam Group, Deoban Limestone Formation), Minas area, Tons valley, Dehradun district, Uttar Pradesh.

?**Baicalia sp.** Sarkar 1989: 31; pl. 1, fig. 4; ARCHAEAN (Banded Iron Formation), Noamundi Basin, Bihar and Orissa.

Baicalia sp. Moitra 1990: 387; pl. 1, fig. 4; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Behesar, Raipur district, Madhya Pradesh.

Baicalia sp. Gupta 2004: 111; pl. 2, fig. a; PALAEOPROTEROZOIC (Mahakoshal Group, Hiranpur Dolomite Formation), Dongargaon area, Jabalpur district, Madhya Pradesh.

Baicalia sp. Gupta 2004: 111; pl. 2, fig. a; PALAEOPROTEROZOIC (Mahakoshal Group, Hiranpur Dolomite Formation), Dongargaon area, Jabalpur district, Madhya Pradesh.

Baicalia sp. Gupta 2004: 115; pl. 2, fig. i; PROTEROZOIC (Pakhal Group, Hiranpur Cherla Formation), Buggagutta area, Gadchiroli district, Maharashtra;

Baicalia sp. Gupta 2004: 120; pl. 3, fig. i; PROTEROZOIC (Chhattisgarh Group, Chandi Limestone Formation), Madhoghat area, Raipur district, Madhya Pradesh.

BATTIOLA Sharma & Shukla

Battiola indica Sharma & Shukla 2004: 9-10, figs. 6a-b, 7-8; ARCHAEAN (Chitradurga Group, Chitradurga Schist belt, Vanivilas Formation), Bhimsamudra area, Dharwar, Karnataka.

BOXONIA Korolyuk

Boxonia graciles Korolyuk. Guhey & Sinha 2004: 58, figs. 4 a-c; UPPER RIPHEAN (Indravati Group, Jagdalpur Formation), Jagdalpur town, Jagdalpur district, Chhattisgarh.

Boxonia fm. ? Prashra 1972: 116; pl. 17, 18; PRECAMBRIAN (Deoban Group, Deoban Limestone Formation), Patera and Shalukhad section, Himachal Pradesh.

Boxonia sp. Rao, Lal & Ghosh 1977: 42; pl. 7, fig. 2 C; pl. 9; UPPER RIPHEAN (Bhander Group, Nagod Limestone Formation), on Kotar Khemri hill, Satna, Madhya Pradesh.

?**Boxonia sp**. Prashra 1977: 116; pl. 17-18; PROTEROZOIC (Deoban Formation), Chakrata area, Dehradun district, Uttar Pradesh.

CALYPSO Vlasov

Calypso sp. Gupta 2004: 117; pl. 3, fig. c; MESOPROTEROZOIC (Semri Group, Kuteshwar Limestone Formation), Dhanwahi area, Madhya Pradesh.

Calypso sp. Gupta 2004: 117; pl. 3, fig. d; MESOPROTEROZOIC (Semri Group, Kuteshwar Limestone Formation), Dhanwahi area, Madhya Pradesh.

Calypso, sp. Vlasov. Misra & Kumar 2005: 160; pl. 2, figs. 1-3; 2c, d; PALAEOPROTEROZOIC/ MESOPROTEROZOIC (Semri Group, Kajrahat Formation), Chhoti Mahanadi river section, Khutesar village. Madhya Pradesh.

Clavate shaped stomatolites cf. Stratifera Grant, Murty & Sengupta 1980: 52, figs. 4, 8; ARCHAEAN (Koira Group, Banded Iron Ore Formation), around Koira, Keonjhar district, Bihar-Orissa.

COLLENIA Walcott

Collenia albertenai Fenton & Feinton. Prasad, Rao & Gururaja 1979: 28; MIDDLE PROTEROZOIC (Kaladgi Group), plate, figure and locality not mentioned; Gowda & Govind Rajulu 1980: 224, fig. 10; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka.

Collenia baicalica Maslov. Valdiya 1969: 8; pl. 1, fig. 4; pl. 2, figs. 1, 2; pl. 4, fig. 1; pl. 5, figs. 1-2; text figs. 4 A-B, D-F; 5: A-C; 6 E & N-Q; PROTEROZOIC (Gangolihat Deoban Limestone Formations and Bhander Group, Bhander Limestone Formation), Pithoragarh district, Uttar Pradesh and Maihar-Rewa road, Satna district, Madhya Pradesh; Banerjee 1970: 70; pl. 1, fig. 5; PROTEROZOIC (Tejam Group, Kapkot Limestone and Gangolihat Limestone Formations), Derkhkhola, Mitryadhal and Naogaon sections, Almora and Pithoragarh districts, Uttar Pradesh; Barman, Verma & Puri 1978: 265; pl. & figs. not mentioned; PRECAMBRIAN (Aravalli Supergroup), Udaipur, Rajasthan; Murti 1978: 278; pl. 1, fig. d; MIDDLE RIPHEAN (Raipur Group, Chandi Formation), Tulsi, Raipur district, Chhattisgarh; Prasad, Rao & Gururaja 1979: 28; MIDDLE PROTEROZOIC (Kaladgi Group), plate, figure and locality not mentioned; Chauhan 1980: 131, fig. 5; LOWER-MIDDLE RIPHEAN (Aravalli Supergroup), Udaipur, Rajasthan; Prasad & Ramaswamy 1980: 275, fig. 2 A; PRECAMBRIAN (Bhander Group, Samria Limestone Formation), Umaba Mandir. Rajasthan; Prasad 1980: 202, fig. 3; MIDDLE TO UPPER RIPHEAN (Rewa Group, Jhiri Shale Formation), Barwas-Arjipura section, Rajasthan; Prasad & Ramaswamy 1980: 276, fig. 2 B; PRECAMBRIAN (Bhander Group. Sirbu Limestone Formation), Pali, Angora, Amli, Abhepura, Barod, Bhonra and Anta, Rajasthan; Prasad & Ramaswamy 1980: 276, fig. 2 C; PRECAMBRIAN (Bhander Group, Bhander Limestone Formation), geographical location not mentioned, Rajasthan; Singh & Banerjee 1980: 279; PRECAMBRIAN (Semri Group, Tirohan Limestone Formation), west of Kurgaon, Rajasthan; Negi & Ravindra 1980: 93, fig. 2; PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), Baraud, Alwar district, Rajasthan; Rao & Rashid 1984: 115; pl. & fig. not mentioned; PRECAMBRIAN (Aravalli Supergroup, Matoon Formation), Kanpur, Udaipur district, Rajasthan; Murti 1996: 24; fig. 6c (Raipur Group, Chandi Limestone Formation), Rasera-Arjuni section, Raipur district, Madhya Pradesh.

Collenia bifurcata Prasad, Rao & Gururaja 1979: 28; MIDDLE PROTEROZOIC (Kaladgi Group), plate, figure and locality not mentioned.

Collenia buriatica Maslov. Valdiya 1969: 11; pl. 2, fig. 3; pl. 4, fig. 1; text figs. 4 C, 5: F; PROTEROZOIC (Gangolihat Formation and Lower Shali Formation), Pithoragarh district, Uttar Pradesh and Bahara, Mahasu district, Himachal Pradesh; Chauhan 1980: 131, fig. 6; LOWER-MIDDLE RIPHEAN (Aravalli Supergroup), Udaipur, Rajasthan; Raha 1972: 228; pl. 1, fig. 1; PROTEROZOIC (Krol Formation, Phosphorite Member), Mussoorie Syncline, Uttar Pradesh.

Collenia clappii Fenton & Fenton. Kumar 1976b: 26; pl. 2, figs. 2-3 & 5; MIDDLE RIPHEAN (Semri Series, Bargawan Limestone Formation), Muni Ki Pahari, Newari, Mirzapur district, Uttar Pradesh; Kumar & Srivastava 1978: 50; pl. 1, fig. 3; LOWER RIPHEAN (Semri Group, Fawn Limestone Formation), Muni Ki Pahari, Lamserai, Mirzapur district, Uttar Pradesh; Mathur 1982: 125, fig. 1A; LATE PRECAMBRIAN (Bhander Group, Sirbu Shale Formation), Maihar, Satna district, Madhya Pradesh.

Collenia columnaris Fenton & Fenton. Misra & Kumar 1967: 16; pl. 1, figs. 1, 3; pl. 2, figs. 1, 3; PRECAMBRIAN (Tejam Group, Gangolihat Dolomite Formation), Badolisera, Pithoragarh-Almora district, Uttar Pradesh; Valdiya 1969: 8; pl. 1, figs. 1-3; pl. 3, fig. 1; text figs. A-C, 5 D, 7 C-D; PROTEROZOIC (Gangolihat Formation),

Pithoragarh district, Uttar Pradesh; Viswanathiah & Gowda 1970: 382; pl. 13, fig. 9; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Alagundi, Bijapur district, Karnataka; Banerjee 1970: 70; pl. 1, fig. 1; PROTEROZOIC (Tejam Group, Kapkot Limestone and Gangolihat Limestone Formations), Derkhkhola, Nail-Chamoli Gurna, Pungar-Khol in Sarju valley and Tuper, Kirai and Chatikhet sections, Almora and Pithoragarh districts, Uttar Pradesh; Banerjee 1971: 350; pl. 1, fig. I; LOWER RIPHEAN (Aravalli Supergroup), Kanpur, east JhamarKotra, Neemuch Mata and western flank of Badgaon, Rajasthan; Raha 1972: 228; pl. 1, fig. 1; pl. 2, fig. 5; PROTEROZOIC (Krol Formation, Phosphorite Member), Mussoorie Syncline, Uttar Pradesh; Balasundaram & Mahadevan 1972: 129; pl. & figs. not mentioned; PRECAMBRIAN (Bijawar Group, Bijawar Formation), Joga, Hoshangabad district, Madhya Pradesh; Singh & Vimal 1972: 8; pl. 1, fig. I; PRECAMBRIAN (Sirban Limestone), Katra hills, Riasi, Jammu, Jammu & Kashmir; Reddy 1975: 586, fig. 2; LOWER-MIDDLE RIPHEAN (Pakhal Series), Daryapur, Karimnagar district, Andhra Pradesh; Lakshmanan, Patel & Das 1977: 328; pl. 1, figs. 1-3; PALAEOPROTEROZOIC (Bijawar Group, Bijawar Formation), southwest of Malera area, on Chhatarpur-Sagar road section, Chhatarpur district; and Sleemnabad area, Jabalpur district, Madhya Pradesh; Prashara 1977: 113, pl. 17; PROTEROZOIC (Deoban Group, Atal Quartzite Formation), Shalu valley, Gurti Khad and Aligad sections, Himachal Pradesh, and Chakrata, Dehradun district, Uttar Pradesh; Viswanathiah & Gowda 1977: 203, fig. 3; PRECAMBRIAN (Kaladgi Supergroup, Kaladgi Limestone Formation), Kuligod, Gokak taluk, Belgaum district, Karnataka; Barman, Verma & Puri 1978: 265; pl. & figs. not mentioned, PRECAMBRIAN (Aravalli Supergroup), Udaipur, Rajasthan; Murti 1978: 277; pl. 1B, fig. b; MIDDLE RIPHEAN (Raipur Group, Chandi Formation), Tulsi, Raipur district, Madhya Pradesh; Prasad, Rao & Gururaja 1979: 28; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup), plate, figure and locality not mentioned; Chauhan 1979: 101, 102, figs. 5-9; PRECAMBRIAN (Aravalli Group), JhamarKotra, Udaipur district, Rajasthan; Viswanathiah, & Sreedhara 1979: 4; pl. 3, fig. 4; MIDDLE RIPHEAN (Kaladgi Supergroup, Lokapur Formation), Hodlur, Karnataka; Prasad & Ramaswamy 1980: 277, fig. 2D; PRECAMBRIAN (Bhander Group, Sirbu Limestone Formation), Pali area, Rajasthan; Chauhan 1980: 131, fig. 2; LOWER-MIDDLE RIPHEAN (Aravalli Supergroup), Udaipur, Rajasthan; Gowda & Govind Rajulu 1980: 224, fig. 3; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka; Verma & Barman 1980: 87, fig. B; MIDDLE RIPHEAN (Delhi Supergroup, Kushalgarh Formation), Alwar district, Rajasthan; Tewari 1983: 127; figs. 5a, c, g; LOWER TO MIDDLE RIPHEAN (Tejam Group, Gangolihat Dolomite Formation), Kathpuria, Chhina-Raikholi, Bhatkhola, Shiskhani-Chhanapani, Dewldhar, Bilaunsera villages in Almora and Rainagar on Gangolihat-Pithoragarh motor road, Pithoragarh district, Uttar Pradesh; Rao & Rashid 1984: 115; pl. & figs. not mentioned, PRECAMBRIAN (Aravalli Supergroup, Matoon Formation), Kanpur area, Udaipur district, Rajasthan; Guhey & Wadhwa 1993 : 44; figs. 2 A-E, figs. 3 A-B; MIDDLE RIPHEAN (Chhattisgarh Supergroup, Chandi Formation), Nandini Mine, Jhenjiri and Pandritrai villages, Durg district, Madhya Pradesh; Sharma 1996: 188; pl. 2, fig. 6; pl. 5, figs. 3 & 5; EARLY MIDDLE RIPHEAN (Salkhan Limestone Formation), Nauhatta-Jadunathpur area, Rohtas district, Bihar.

Collenia compacta Walcott. Viswanathiah & Gowda 1970: 382; pl. 12, figs. 7-8; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Alagundi, Bijapur district, Karnataka; Prasad, Rao & Gururaja 1979: 28; MIDDLE PROTEROZOIC (Kaladgi Group), plate, figure and locality not mentioned; Gowda & Govind Rajulu 1980: 225, fig. 7; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka.

Collenia elongatus Raha. Moitra 1999: 20, figs. 16a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Jamunia nala section and Tulsi, Raipur district, Madhya Pradesh.

Collenia frequens Fenton & Fenton. Banerjee 1971: 70; pl. 1, figs. 2, 3, 4; PROTEROZOIC (Tejam Group, Kapkot Limestone and Gangolihat

Limestone Formations), Derkhkhola, Mitryadhal and Naogaon sections, Almora and Pithoragarh districts, Uttar Pradesh; Lakshmanan, Patel & Das 1977; 328; pl. 1-2, PRECAMBRIAN (Bijawar Group, Bijawar Formation), SW Dahi, Chhatarpur district, Madhya Pradesh; Gowda & Govind Rajulu 1980: 225, fig. 6; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka; Srivastava & Mehrotra 1980: 288, figs. 1-2; PRECAMBRIAN (Semri Group), Son valley, Mirzapur district, Uttar pradesh.

Collenia kussiensis Maslov. Valdiya 1969: 9; pl. 5, fig. 5; text figs. 4 G, 7 A; PROTEROZOIC (Semri Group, Pellet Limestone Formation), Lodhwara hill, Karwi, Banda district, Uttar Pradesh; Banerjee 1971: 352; pl. 1, fig. 5; pl. 2, figs. 4 & 8; MIDDlE RIPHEAN (Aravalli Supergroup), east of Kanpur, Udaipur district, Rajasthan; Murti 1978: 278; pl. 11D, fig. C; MIDDLE RIPHEAN (Raipur Group, Chandi Formation), Pendari, Raipur district, Madhya Pradesh; Barman, Verma & Puri 1978: 265; pl. & figs. not mentioned, PRECAMBRIAN (Aravalli Supergroup), Udaipur. Rajasthan; Chauhan 1980: 131, figs. 3-4; LOWER-MIDDLE RIPHEAN (Aravalli Supergroup), Udaipur, Rajasthan; Singh & Banerjee 1980: 279; PRECAMBRIAN (Semri Group, Tirohan Limestone Formation), west of Kurgaon, Malarna, Dungar and Jirota, Rajasthan; Srivastava & Mehrotra 1980: 288, fig. 3; PRECAMBRIAN (Semri Group), Son valley area, Madhya Pradesh; Rao & Rashid 1984: 115; pl. & figs. not mentioned; PRECAMBRIAN (Aravalli Supergroup, Matoon Formation), Kanpur area, Udaipur district, Rajasthan; Murti 1996: 24; fig. 3e (Raipur Group, Chandi Limestone Formation), Rawan-Arjuni section, Raipur district, Madhya Pradesh.

Collenia miniaturi Banerjee 1971: 72; pl. 2, fig. 3; PROTEROZOIC (Tejam Group, Kapkot Limestone and Gangolihat Limestone Formations), Kaligad, Thela Patan in Sarju valley sections, Almora and Pithoragarh districts, Uttar Pradesh.

Collenia multiflabella Rezak. Barman, Verma & Puri 1978: 265; pl. & figs. not mentioned; PRECAMBRIAN (Aravalli Supergroup), Udaipur. Rajasthan.

Collenia nailensis Misra & Kumar 1967: 16; pl. 1, fig. 4; PRECAMBRIAN (Tejam Group, Gangolihat Dolomite Formation), south of Nail, Pithoragarh, Almora district, Uttar Pradesh.

Collenia pseudocolumnaris Banerjee 1971: 72; pl. 2, fig. 4; PROTEROZOIC (Tejam Group, Kapkot Limestone Formation), Doya and Tuper sections, Almora and Pithoragarh districts, Uttar Pradesh.

Collenia puril Singh & Vimal 1972: 8; pl. 1, fig. 2; PRECAMBRIAN (Sirban Limestone), Katra hill, Riasi, Jammu, Jammu & Kashmir.

Collenia rajurkarii Prasad, Rao & Gururaja 1979: 28; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup), plate, figure and locality not mentioned.

Collenia ramsayi Prasad 1980: 202, fig. 4; MIDDLE TO UPPER RIPHEAN (Rewa Group, Jhiri Shale Formation), Barwas-Arjipura, Rajasthan.

Collenia septentrionalis Fenton & Fenton. Banerjee 1971: 72; pl. 2, fig. 2; PROTEROZOIC (Tejam Group, Kapkot Limestone and Gangolihat Limestone Formations), Tachhi, Gurna, Bagheshwar in Punger valley sections, Almora and Pithoragarh districts, Uttar Pradesh; Gowda & Govind Rajulu 1980: 225, fig. 5; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka; Sharma 1996: 185; pl. 1, figs. 1-5; pl. 4, figs. 1-9; EARLY MIDDLE RIPHEAN (Semri Group, Salkhan Limestone Formation), Akbarpur-Jadhunathpur, Rohtas district, Bihar.

Collenia spissa Fenton & Fenton. Prasad, Rao & Gururaja 1979: 28; MIDDLE PROTEROZOIC (Kaladgi Group), plate, figure and locality not mentioned; Gowda & Govind Rajulu 1980: 225, fig. 11; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka.

Collenia symmetrica Fenton & Fenton. Misra & Kumar 1967: 17; pl. 1, fig. 2; PRECAMBRIAN (Tejam Group, Thalkedar Limestone Formation), Ranitola, Pithoragarh district, Uttar Pradesh; Mohan 1968: 343-344; pl. 31, figs. 1-3, 5, 7; pl. 32., figs. 1-5; pl. 31, figs. 1-2; MIDDLE PROTEROZOIC (Semri Group, Kajrahat, Bargawan and Rohtas Formations), Son valley, Kajraht area, Mirzapur district, Uttar Pradesh; Valdiya 1969: 11; pl. 3, figs. 2 & 3; pl. 4, fig. 2; text figs. 3 D, F; 5 G; PROTEROZOIC (Gangolihat, Thalkedar Limestone, Shali Formations),

Pithoragarh, Uttar Pradesh, Bahara in Satluj valley, Mahasu district, Himachal Pradesh; Banerjee 1971: 352; pl. 1, fig. 6. LOWER RIPHEAN (Aravalli Supergroup), Matoon village, Udaipur district, Rajasthan; Viswanathiah & Gowda 1972: 203; figs. 4-5; PRECAMBRIAN (Kaladgi Supergroup), near Kuligod, Belgaum district, Karnataka; Prashra 1972: 116; pl. 17, fig. 6; PRECAMBRIAN (Tejam Group, Deoban Limestone Formation), Bijmal, Minyoti and Chaur sections, Himachal Pradesh; Raha 1972: 228; pl. 2, figs. 7-8; PROTEROZOIC (Krol Formation, Phosphorite Member), Mussoorie Syncline, Uttar Pradesh; Balasundaram & Mahadevan 1972: 129; pl. & figs. not mentioned; PRECAMBRIAN (Bijawar Group, Bijawar Formation), Joga, Hoshangabad district, Madhya Pradesh; Reddy 1975: 586, fig. I; LOWER-MIDDLE RIPHEAN (Pakhal Series), Daryapur, Karimnagar district, Andhra Pradesh; Kumar 1976a: 16; pl. 2, fig. 3 (does not tally with explanation of plate), LOWER RIPHEAN (Semri Group, Kajrahat Limestone Formation), Dala-Chopan road section, Mirzapur district, Uttar Pradesh; Kumar 1976b: 26; pl. 1, fig. 4; MIDDLE RIPHEAN (Semri Series), Lodhwara hill, Banda district, Uttar Pradesh; Lakshmanans, Patel & Das 1977: 328; pl. 1, fig. 4; ; PALAEOPROTEROZOIC (Bijawar Group, Bijawar Formation), Chanwarpatha area, Narsinghpur district, Madhya Pradesh; Prashra 1977: 116; pl. 17, fig. 6; PROTEROZOIC (Deoban Formation), Chakrata, Dehradun district, Uttar Pradesh; Prashra 1977: 118; pl. 16, fig. 1-2; PROTEROZOIC (Deoban Group, Atal Quartzite Formation), Shalu valley, Gurti Khad and Aligad sections, Himachal Pradesh; Rao Lal & Ghosh 1977: 41; pl. 7, figs. 1 C-D; pl. 8; UPPER RIPHEAN (Bhander Group, Nagod Limestone Formation), Hinota-Kotar Kemari hill, east of Kotar, Satna district. Madhya Pradesh; Viswanathiah & Gowda 1977: 203, figs. 4-5; PRECAMBRIAN (Kaladgi Supergroup, Kaladgi Limestone Formation), Kuligod, Gokak Taluk, Belgaum district, Karnataka; Barman, Verma & Puri 1978: 265; pl. & figs. not mentioned; PRECAMBRIAN (Aravalli Supergroup), Udaipur district, Rajasthan; Murti 1978: 277; pl. 1A, fig. a; MIDDLE RIPHEAN (Raipur Group, Chandi Formation), Tulsi, Raipur district, Madhya Pradesh; Prasad, Rao & Gururaja 1979: 28; MIDDLE PROTEROZOIC (Pakhal Group), plate, figure and locality not mentioned; Prasad, Rao & Gururaja 1979: 28; MIDDLE PROTEROZOIC (Kaladgi Group), plate, figure and locality not mentioned; Viswanathiah, & Sreedhara 1979: 4; pl. 3, fig. 5; MIDDLE RIPHEAN (Kaladgi Supergroup, Lokapur Formation), Hodlur section, Karnataka; Gowda & Govind Rajulu 1980: 225, fig. 8; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka; Murti 1996: 23; fig. 3a (Raipur Group, Chandi Limestone Formation), Turma area, Rawan-Arjuni section, Raipur district, Madhya Pradesh.

Collenia thalkedarensis Misra & Kumar 1967: 17; pl. 2, fig. 4; PRECAMBRIAN (Tejam Group, Gangolihat Dolomite Formation), Ranitola, Pithoragarh-Almora district, Uttar Pradesh.

Collenia undosa Walcott. Balasundaram & Mahadevan 1972: 129; pl. & figs. not mentioned; PRECAMBRIAN (Bijawar Group, Bijawar Formation), Joga, Hoshangabad district, Madhya Pradesh; Lakshmanans, Patel & Das 1977: 328; pl. 1, fig. 1; PRECAMBRIAN (Bijawar Group, Bijawar Formation), SW Dahi, Chhatarpur district, Madhya Pradesh; Prasad, Rao & Gururaja 1979: 28; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup), plate, figure and locality not mentioned; Prasad, Rao & Gururaja 1979: 28; MIDDLE PROTEROZOIC (Kaladgi Group), plate, figure and locality not mentioned; Prasad, Rao & Gururaja 1979: 28; MIDDLE PROTEROZOIC (Pakhal Group), plate, figure and locality not mentioned; Sarma, Gururaja & Rao 1979: 32; pl. 1; PRECAMBRIAN (Pakhal Group, Panditkunta Formation), Kothapalle, Adilabad district, Andhra Pradesh; Gowda & Govind Rajulu 1980: 225, fig. 4; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka.

Collenia wilsonii Prasad, Rao & Gururaja 1979: 28; MIDDLE PROTEROZOIC (Kaladgi Group), plate, figure and locality not mentioned.

Collenia fm. Prashra 1972: 116; pl. 19, fig. 1; PRECAMBRIAN (Deoban Group, Deoban Limestone Formation), Tons valley, Himachal Pradesh.

Collenia fm. Prashra 1972: 118; pl. 19, fig. 2; PRECAMBRIAN (Deoban Group, Mandhali Formation), Malat, Himachal Pradesh.

Collenia sp. Vaiyanadhan 1961: 221; figs. 1-2; EARLY PRECAMBRIAN (Cuddapah Supergroup, Vempalle Formation), Pulivendla area, Cuddapah district.

Collenia sp. Raj Rao, Iqbaluddin & Mathur 1968: 560; plates, figures and localities not mentioned in text; ARCHAEAN (Aravalli Supergroup), Dakan Kotra, Udaipur, Rajasthan.

Collenia sp. Prashra 1977: 116; pl. 19, fig. I; PROTEROZOIC (Deoban Formation), Chakrata area, Dehradun district, Uttar Pradesh.

Collenia sp. Prashra 1977: 118; pl. 19, fig. 2; PROTEROZOIC (Mandhali Formation), Malat area, Uttar Pradesh.

Collenia sp. Schopf & Prasad 1978: 354; plates and figures not mentioned; ARCHAEAN (Cuddapah Supergroup, Vempalle Formation), near Bramanapalle, Andhra Pradesh.

Collenia sp. Prasad, Rao & Gururaja 1979: 28; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup), plate, figure and locality not mentioned.

Collenia sp. Prasad, Rao & Gururaja 1979: 28; MIDDLE PROTEROZOIC (Kaladgi Group), plate, figure and locality not mentioned.

Collenia sp. Viswanathiah & Sreedhara 1979: 3; pl. 2, figs. 1-2; MIDDLE RIPHEAN (Kaladgi Supergroup, Lokapur Formation), Tolmatti and Hodlur section, Karnataka.

Collenia sp. Viswanathiah & Sreedhara 1979: 3; pl. 2, fig. 3; MIDDLE RIPHEAN (Kaladgi Supergroup, Lokapur Formation), Tolmatti section, Karnataka.

Collenia sp. Gowda & Govind Rajulu 1980: 229, fig. 2; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka.

Collenia sp. Negi & Ravindra 1980: 93, fig. 1; PRECAMBRIAN (Delhi Supergroup, Kushalgarh Formation), Baraud, Alwar district, Rajasthan.

Collenia variety 1. Avasthy 1980: 54, figs. 2-4; ARCHAEAN (Koira Group, Banded Iron Ore Formation), Banspali area, Bonai-Keonjhar district, Orissa.

COLLENIELLA Korolyuk

cf. Colleniella sp. Sarkar 1989: 33**;** pl. 1, fig. 2; ARCHAEAN (Banded Iron Formation), Noamundi Basin, Bihar and Orissa.

COLLUMNAEFACTA Korolyuk

Collumnaefacta vulgaris Sidorov. Tewari 1984b: 319, figs. 2-3; LOWER CAMBRIAN (Tal Group, Tal Formation), Durmala, Mussoorie, Dehradun district, Uttar Pradesh; Tewari 1984c: 73-75; pl. 2, fig. 2; TOMMOTIAN BOUNDARY (Tal Group, Tal Formation and Buxa Group, Shali Formation), Durmala area, Dehradun district, Uttar Pradesh; Kumar, Raina, Bhatt, Maithy, Prasad & Babu, 1990: 5, fig. 6g; EARLY TOMMOTIAN (Krol Group, Krol Formation), Krol Belt, Durmala, Dehradun.

Collumnaefacta sp. Tewari 2003: 63, figs. 3 *e*, 5a; TERMINAL NEOPROTEROZOIC (Buxa Group, Chillipam Dolomite Formation), Jiagaon-Chillipam section, Kameng district, Arunachal Pradesh.

COLLUMNOCOLLENIA Korolyuk

Collumnocollenia rantama Krylov & Perttonen. Sharma & Shukla 2003; pl. 1, figs. 3, 4; PALAEOPROTEROZOIC (Cuddapah Supergroup, Vampalle and Tadpatri Formations), Karnataka; Sharma and Shukla 2004: 13; pl. 1, figs. 3 & 4; PALAEOPROTEROZOIC-MESOPROTEROZOIC (Papaghani Group, Vempalle and Tadpatri Formations), Andhra Pradesh.

Collumnacollenia fm. Gururaja & Chandra 1987: 405; pl. 2, figs. 1-4; PROTEROZOIC (Vempalle and Tadpatri Formations), Pulivendla-Kadri, Bangvanapalle-Pyapalle, NNE Rayalcheruvu, and Komarolu-Betharncherla sections, Andhra Pradesh.

COLONNELLA Komar

Colonnella collumnaris Fenton & Fenton. Kumar 1976a: 17**;** pl. 1, figs. 2, 5, 7, (does not tally with explanation of plate), MIDDLE RIPHEAN (Semri Group, Fawn Limestone Formation), Pataudh hill, Mirzapur district, Uttar Pradesh; Kumar 1977: 341, fig. 2; MIDDLE RIPHEAN (Semri Group, Tirohan Limestone Formation), Sitakund, on Chitrakoot-Satna road, Uttar Pradesh; Kumar & Srivastava

1978: 50; pl. 1, fig. 4; LOWER RIPHEAN (Semri Group, Fawn Limestone Formation), Pataudh hillock, Salkhan, Mirzapur district, Uttar Pradesh; Prasad 1980: 202, figs. 2, 5; MIDDLE TO UPPER RIPHEAN (Semri Group, Bhagwanpura Limestone Formation, and Rewa Group, Jhiri Shale Formation), Chittorgarh-Barsa section, Rajasthan; Tewari 1983a: 127, figs. 5a, c & g; PRECAMBRIAN (Gangolihat Dolomite Formation), Uttar Pradesh; Tewari 1989: 153; pl. 3, fig. b; MIDDLE PROTEROZOIC (Tejam Group, Gangolihat Dolomite Formation), Gangolihat area, Pithoragarh district, Uttar Pradesh.

Colonnella conica Moitra. Moitra 1990: 387; pl. 3, fig. 1; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Kharkhena, Bilaspur district, Madhya Pradesh; Moitra 1991: 83; fig. 1c, 8; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Deodongar hill section, Raipur district, Madhya Pradesh; Moitra 1999: 23, figs. 18a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Hirri Mine, Raipur district, Madhya Pradesh.

Colonnella discreta Komar. Raha 1984: 19; pl. 15, figs. 1-5; pl. 14; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Gran, Talwara and Katra, Jammu & Kashmir; Moitra 1990: 387; pl. 2, fig. 6; pl. 3, fig. 4; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Jamunia nala section and Mandir hasaud, Raipur district, Madhya Pradesh; Moitra 1999: 17, fig. 15a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Kharkhena-Jamunia nala section and Chilhatti, Raipur district, Madhya Pradesh; Gupta 2004: 110; pl. 1, fig. j; PALAEOPROTEROZOIC (Bijawar Group, Lohar Dolomite Formation), Joga area, Hoshangabad district, Madhya Pradesh; Gupta 2004: 111; pl. 2, fig. c; PALAEOPROTEROZOIC (Mahakoshal Group, Hiranpur Dolomite Formation), Selarpur area, Jabalpur district, Madhya Pradesh; Gupta 2004: 117; pl. 2, fig. k; MESOPROTEROZOIC (Semri Group, Kajrahat Limestone Formation), Billi-Dala area, Sonbhadra district, Uttar Pradesh.

Colonnella cf. discreta Raha & Das 1989: 125; pl. 1, figs. a-b; UPPER PROTEROZOIC (Jammu Limestone), Jammu & Kashmir.

Colonnella elongata Raha 1980: 143, figs. 12 & 15b; RIPHEAN (Jammu Limestone, algal Biostrome I), Tarakot and Adhkumali; and north of Gran village, Jammu, Jammu & Kashmir; Gupta 2004: 110; pl. 1, fig. c; PALAEOPROTEROZOIC (Bijawar Group, Bajno Dolomite Formation), Jhingri area, Hoshangabad district, Madhya Pradesh.

Colonnella elongatus Raha. Raha 1984: 20; pl. 17, figs. 1-4; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), north of Gran, and Katra, Jammu & Kashmir; Guhey & Sinha 2004: 57, figs. 3a-b; MIDDLE RIPHEAN (Indravati Group, Jagdalpur Formation), Jagdalpur town, Jagdalpur district, Chhattisgarh; Raha & Das 1989: 125; pl. 1, fig. e; UPPER PROTEROZOIC (Jammu Limestone), Jammu and Kashmir.

Colonnella Kajrahatensis Misra. Kumar 1976a: 16; pl. 1, fig. 4; pl. 3, fig. 3, (does not tally with explanation of plate), LOWER RIPHEAN (Semri Group, Kajrahat Limestone Formation), Dala-Chopan road section, Mirzapur district, Uttar Pradesh. Misra, Singh & Kumar 1977: 140; pl. 1, figs. 1-2; LOWER RIPHEAN (Semri Group, Kajrahat Limestone Formation), Dala-Chopan road section, Mirzapur district, Uttar Pradesh.

Colonnella katranensis Raha 1980: 143, figs. 13 & 13a; RIPHEAN (Jammu Limestone), north of Gran-Khairi mule track section, hillslopes southwest Adhkunmri, and Purana Darurb, Jammu, Jammu & Kashmir; Raha 1984: 20; pl. 18, figs. 1-4; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), north of Gran, Talwara and Katra, Jammu and Kashmir.

Colonnella laminate Komar. Moitra 1999: 20, figs. 17a, b, c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Jamul and Hirri Mine, Raipur district, Madhya Pradesh.

Colonnella cf. laminata Komar. Raha 1984: 21; pl. 19, figs. 1-4; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Purana Daruhr, Talwara and Katra, Jammu & Kashmir.

Colonnella lodhwarensis~ Kumar 1976b: 26; pl. 1, fig. I; MIDDlE RIPHEAN (Semri Series), Lodhwara hill, Chitrakoot, Banda district, Uttar Pradesh.

Colonnella raissiensis Raha 1980: 148, fig. 16-18; PRECAMBRIAN-RIPHEAN (Jammu Limestone, algal biostrome I), road cutting between 8 and 9 milepost on Riasi-Salal road, Jammu & Kashmir; Raha 1984: 22; pl. 20, figs. 1-3; pl. 21, figs. 1-5; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Riasi-Salal road, east of Bidda village and Gran-Khairi section, Jammu & Kashmir; Raha & Das 1989: 129; pl. 2, fig. l; UPPER PROTEROZOIC (Jammu Limestone), Jammu and Kashmir; Valdiya 1989: 203; fig. 9C; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone), Jammu and Kashmir.

Colonnella symmetrica Murty 1972: 184, fig. 4; PALAEOPROTEROZOIC (Bijawar Group), Joga, Hoshangabad district, Madhya Pradesh.

Colonnella cf. discreta Komar. Raha 1980: 142, figs. 8-II; RIPHEAN (Jammu Limestone Formation), north of Gran-Talwara-Katra towns, Jammu & Kashmir.

Colonnella cf. laminata Komar. Raha 1980: 147, figs. 14 C, I, S; RIPHEAN (Jammu Limestone, Algal Biostrome-I), Jammu and Kashmir.

Colonnella Sikdar 1989: 88; fig. 2C; NEOPROTEROZOIC (Chhattisgarh Supergroup, Raipur Fortmation), Nandini-Jamul area, Durg district, Madhya Paradesh.

Colonnella fm. Raha & Sastri 1973: 139, fig. 2a-b; LOWER-MIDDLE RIPHEAN (Jammu Limestone Formation), Riasi Tehsil, Udhampur district, Jammu & Kashmir; Bhargava & Ahluwalia 1980: 189, fig. 1F; PRECAMBRIAN (Shali Formation, Khatpul Member), Kund, Himachal Pradesh.

Colonnella fm. A Gururaja & Chandra 1987: 403; pl. 1, fig. 3; PROTEROZOIC (Cuddapah Supergroup, Vempalle Formation), Pulivendha-Kadri road, section, Andhra Pradesh.

Colonnella fm. B Gururaja & Chandra 1987: 403; pl. 1, fig. 3; PROTEROZOIC (Cuddapah Supergroup, Vempalle Formation), Pulivendla-Kadri road, section, Andhra Pradesh.

Colonnella fm. C. Gururaja & Chandra 1987: 403**;** pl**.** 1, figs. 1 & 6, PROTEROZOIC (Tadpatri Formation), NNE Rayalcheruvu, Pulivendla, Andhra Pradesh.

Colonnella sp. Rao, Lal & Ghosh 1977: 40; pl. 7, figs. 1a-b & pl. 8; UPPER RIPHEAN (Bhander Group, Nagod Limestone Formation), Khama and Kotar-Kemari hill, Kotar, Satna district, Madhya Pradesh.

Colonnella sp. Sinha 1977: 95, fig. 9; RIPHEAN (Shali Formation), Aut, Larji window, Kulu, Himachal Pradesh.

Colonnella sp. Banerjee & Basu 1980: 243, figs. 6-7; PRECAMBRIAN (Aravalli Supergroup, Jhabua Phosphorite Member), Khatama and Amliamal section, Jhabua, Rajasthan.

Colonnella sp. Tewari 1983a: 127, figs. 5 d-e; LOWER TO MIDDLE RIPHEAN (Tejam Group, Gangolihat Dolomite), Kalika section on Gangolihat-Pithoragarh motor road, Pithoragarh district, Uttar Pradesh, Chhina area, Almorah district and Rainnagar, Uttar Pradesh.

Colonnella sp. Tewari 1983: 127; figs. 5d & e; (Tejam Group, Gangolihat Dolomite Formation

Colonnella sp. Baral 1986: 330, figs. 3, 7, 4, text fig. 2; ARCHAEAN (Chitradurga Group, Dodguni belt), Yarekatte quarry, Dharwar district, Karnataka.

Colonnella sp. Gupta, Udhoji & Verma 1988: 153; pl. 3, fig. 2; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra.

Colonnella sp. Gupta, Udhoji & Verma 1988: 154; pl. 4, fig. 5; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), Buggagutta area, Gadchiroli district, Maharashtra.

Colonnella sp. Gupta, Udhoji & Verma 1988: 155; pl. 5, fig. 4; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), Yerragudda area, Gadchiroli district, Maharashtra.

Colonnella sp. Venkatachalapathy, Basavaraju & Sathyanarayan 1989: 24; pl. 1, figs. a, b, e-g; ARCHAEAN (Chitradurga Group, Chitradurga Schist Belt), Vobalpur area, Dharwar Craton, Karnataka.

Colonnella sp. Chatterjee, Das, Ganguli & Chatterjee 1990: 402; text figs. 4, 5a, 5b; PROTEROZOIC (Raipur Group, Chandi Formation), Shivnath river section on Durg-Bemetra road, Patharia quarry and Nandini-Kundini section, Durg district, Madhya Pradesh.

Colonnella sp. Verma, Udhoji & Gupta 1990: 437; pl. 1, figs. 2-3; PALAEOPROTEROZOIC (Bijawar Group, Bijapur, Lohar Dolomite Formations), Joga, Hoshangabad district, Madhya Pradesh.

Colonnella sp. Gupta 2004: 117; pl. 3, fig. m; NEOPROTEROZOIC (Bhander Group, Nagod Limestone Formation), Maihar area, Satna district, Madhya Pradesh.

Colonnella sp. Gupta 2004: 120; pl. 3, fig. h; PROTEROZOIC (Chhattisgarh Group, Chandi Limestone Formation), Gondpedri area, Raipur district, Madhya Pradesh.

Columnnella = Colonnella katarensis Raha Raha & Das 1989: 125; pl. 1, fig. g; UPPER PROTEROZOIC (Jammu Limestone), Jammu and Kashmir.

COLUMNAR TYPE

Columnar type Srinivasan, Shukla, Naqvi, Yadav, Venkatachala, Udairaj & Rao 1989: 241; figs. 7-8; ARCHAEAN (Dharwar Supergroup, Vanivilas Formation), Vanivilaspura and Dodguni areas, Bhimsamundra, Karnataka.

Columnar stromatolite Tewari 1984c: 73-75; pl. 1, fig. 2; PRECAMBRIAN-CAMBRIAN BOUNDARY (Thalkedar Limestone Formation), Mugna area, Simla, Himachal Pradesh.

Columnar stromatolite Rai & Kar 1995: 364; pl. 1; fig. 6; EARLY CAMBRIAN (Tal Group, Tal and Krol Formations), Deona village, Sirmaur district, Himachal Pradesh.

Columnar type Riding & Sarma, 1998: 25; figs. 2-4; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup, Vempalle formation), Kadri-Peddavenka area, Andhra Pradesh.

COLUMNOCOLLENIA Raha

Columnocollenia fm. Raha & Das 1989: 135; pl. 4, fig. z; PROTEROZOIC (Tejam Group, Deoban Formation), Pithoragrah district, Uttar Pradesh.

CONISTRATIFERA Zhu

Conistratifera cf. irregularis Zhu; Sharma & Shukla 2003: 12; pl. 1, fig. 7; PALAEOPROTEROZOIC (Cuddapah Supergroup, Vampalle and Tadpatri Formations), Karnataka.

CONOPHYCUS=CONOPHYTON Raja Rao, Iqbaluddin & Mathur 1968

Conophycus=Conophyton Raja Rao, Iqbaluddin & Mathur 1968: 561; plates, figures and localities not mentioned in text; ARCHAEAN (Aravalli Supergroup), Dakan Kotra, Udaipur, Rajasthan.

CONOPHYTON Maslov

Conophyton cylindricus Maslov. Valdiya 1969: 6; pl. 5, fig. 3 & 4; text figs. 7 B; PROTEROZOIC (Semri Group, Fawn Limestone Formation), Salkhan hill, Ghurma, Mirzapur district, Uttar Pradesh; Balasundaram & Mahadevan 1972: 129; pl. 34, fig. 2; PRECAMBRIAN (Bijawar Group, Bijawar Formation), Joga, Hoshangabad district, Madhya Pradesh; Murty 1972: 184, fig. 2; PALAEOPROTEROZOIC (Bijawar Group), Joga, Hoshangabad district, Madhya Pradesh; Barman & Verma 1980: 210, figs. A, B; LOWER-MIDDLE RIPHEAN (Semri Group, Bhagwanpura Limestone Formation), Bhojunda, Chittorgarh district, Rajasthan; Bhattacharya 1976b: 381; pl. 1, figs. 1-5; pl. 2, figs. 1-2, text figs. 1 a-c; PRECAMBRIAN (Tejam Group, Kapkot Formation), Kumaon Himalaya, Uttar Pradesh; Lakshmanans, Patel & Das 1977: 329; pl. 1, figs. 6-7; PALAEOPROTEROZOIC (Bijawar Group, Bijawar Formation), Chandgarh and Joga areas, east of Nimar and Hoshangabad district, Madhya Pradesh; Sinha 1977: 94, figs. 7-8; RIPHEAN (Shali Formation), Aut, Larji window, Kulu, Himachal Pradesh; Murti 1978: 279; pl. 1, fig. F; MIDDLE RIPHEAN (Raipur Group, Chandi Formation), Pandaria, Raipur district, Madhya Pradesh; Gowda & Govind Rajulu 1980: 229; fig. 12; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka; Raha 1980: 159, figs. 25-30; RIPHEAN (Jammu Limestone, Algal Biostrome II), Jammu, Jammu & Kashmir; Singh & Banerjee 1980: 279; PRECAMBRIAN (Semri Group, Tirohan Limestone Formation), villages in south-east of Sapotra, Bhuripahari Dungari and south of Rampur, Rajasthan; Prasad 1980: 204, fig. 6; MIDDLE TO UPPER RIPHEAN (Rewa Group, Jhiri Shale Formation), Bhojunda, Rajasthan; Raha 1984: 26; pl. 27, figs. 1-5; pl. 23, figs. 1-3; Pl. 29; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Riasi-Salal road section, Mari and north of Gran-Khairi, Jammu & Kashmir; Tewari 1984: 73-75; pl. 3, fig. 1; PRECAMBRIAN-CAMBRIAN BOUNDARY (Buxa Group, Shali Formation), Aut, Larji areas,

Kulu district, Simla, Himachal Pradesh; Moitra 1986: 126; pl. 2, fig. 5; LOWER LATE RIPHEAN-EARLY MIDDLE RIPHEAN (Raipur Formation), Durg district, Madhya Pradesh; Gupta, Udhoji & Verma 1988: 155; pl. 5, fig. 4; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), Yerragudda area, Gadchiroli district, Maharashtra; Gupta & Verma, 1989: 57; pl. 1, fig. B, C; (Bijawar Group, Lohar Dolomite Formation), Joga area, Hoshangabad district, Madhya Pradesh; Raha & Das 1989: 129; pl. 2, fig. h; UPPER PROTEROZOIC (Jammu Limestone), Jammu and Kashmir; Tewari 1989: 150; pl. 2, fig. c; MIDDLE PROTEROZOIC (Semri Group, Bhagwanpura Limestone Formation), Chittorgarh district, Rajasthan; Valdiya 1989: 200; fig. 8E; MIDDLE PROTEROZOIC (Lower Shali Formation), Aut-Beas valley, Himachal Pradesh; Valdiya 1989: 203; fig. 9A; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Jammu and Kashmir; Gupta & Verma 1989: 57; pl. 1, figs. B-C; PALAEOPROTEROZOIC (Bijawar Group, Lohar Dolomite Formation), Joga, Hoshangabad district, Madhya Pradesh; Verma, Udhoji & Gupta 1990: 437; pl. 1, fig. 4; PALAEOPROTEROZOIC (Bijawar Group, Lohar Dolomite Formation), Joga, Hoshangabad district, Madhya Pradesh; Gupta 2004: 110; pl. 1, figs. d, g, k, i; PALAEOPROTEROZOIC (Bijawar Group, Bajno Dolomite and Lohar Dolomite Formations), Bhimkund, Joga and Bajno areas, Hoshangabad district, Madhya Pradesh; Gupta 2004: 117; pl. 3, fig. a; MESOPROTEROZOIC (Semri Group, Bargawan Limestone Formation), Salkhan area, Sonbhadra district, Uttar Pradesh.

Conophyton garganicus Korolyuk. Kumar 1976a: 17; pl. 2, figs. 1-2, 4; pl. 3, fig. 1; pl. 4, fig. 4; MIDDLE RIPHEAN (Semri Group, Fawn Limestone Formation), Salkhan hill and Bargwan Mirzapur district, Uttar Pradesh; Singh & Rai 1977: 736; figs. 1-2; MIDDLE RIPHEAN (Krol Group, Krol Formation), Nainital area, Nainital district, Uttar Pradesh; Kumar 1978c: 148; pl. 1, fig. 1; MIDDLE RIPHEAN (Semri Group, Kheinjua Formation), Muni ki Pahari, Newari, area, Mirzapur district, Uttar Pradesh; Kumar & Srivastava 1978: 50; pl. 2, figs. 1-2; LOWER RIPHEAN (Semri Group, Fawn Limestone Formation), Bargawan, 9 Km further east of Salkhan hillocks, Mirzapur district, Uttar Pradesh; Kumar & Tewari 1978: 176; pl. 1, figs. 1-4; MIDDLE RIPHEAN (Gangolihat Dolomite Formation), Kathpuriachhina-Raikholi mule track, Almora district, Uttar Pradesh; Tewari 1983a: 128; figs. 3a-f & 5f; LOWER TO MIDDLE RIPHEAN (Tejam Group, Gangolihat Dolomite Formation), Kathpuriachhina-Raikholi, Bhatkhola on Kathpuriachhina-Bageshwar motor road, Jhiroli and Bauri areas, Pithoragarh district, Uttar Pradesh; Gupta, Udhoji & Verma 1988: 153; pl. 3, fig. 3; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra; Gupta, Udhoji & Verma 1988: 155; pl. 5, figs. 1-3; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), Buggagutta and Attarlagutta areas, Gadchiroli district, Maharashtra; Raha & Das 1989: 129; pl. 2, fig. m; UPPER PROTEROZOIC (Jammu Limestone), Jammu and Kashmir; Tewari 1989: 153; pl. 3, figs. c & d; MIDDLE PROTEROZOIC (Tejam Group, Gangolihat Dolomite Formation), Khathpuria, Chhina area, Pithoragarh district, Uttar Pradesh; Valdiya 1989: 197; fig. 6A; MIDDLE PROTEROZOIC (Semri Group, Kheinjua Formation), Salkhan hill, Ghurma area, Mirzapur district, Uttar Pradesh; Gupta 2004: 117; pl. 2, figs. M & N; MESOPROTEROZOIC (Semri Group, Kajrahat and Bargawan Limestone Formations), Hardi and Chitikpurwa areas, Sonbhadra district, Uttar Pradesh.

Conophyton cf. garganicus Korolyuk. Sharma & Shukla 2003: 13; pl. 3, figs. 1-2; PALAEOPROTEROZOIC (Cuddapah Supergroup, Vempalle & Tadpatri Formations), Andhra Pradesh.

Conophyton inclinatum Rezak. Murty 1972: 184, fig. 3; PALAEOPROTEROZOIC (Bijawar Group), Joga, Hoshangabad district, Madhya Pradesh.

Conophyton cf. litnus Mohan 1968: 345-346; pl. 34, figs. 1-7; MIDDLE PROTEROZOIC (Fawn Limestone Formation), Son valley, Salkhan hill, Mirzapur district, Uttar Pradesh.

Conophyton misrai Kumar & Tewari 1977: 641, figs. 1-3; MIDDLE RIPHEAN (Gangolihat Dolomites Formation), mule track Kathpuriachhina, and Dhawarapet, Almora. Uttar Pradesh; Tewari 1983: 129; fig. 4c, 8a&b; LOWER TO MIDDLE RIPHEAN (Tejam Group, Gangolihat Dolomite

Formation), Kathpuria, Chhina and Bauri sections on Kathpuriachhina-Jhiroli track and Bhatkhola on Kathpuriachhina-Bageshwar motor road, Pithoragarh district, Uttar Pradesh.

Conophyton vindhyanensis Misra. Kumar I 976a: 16; pl. 2, figs. 5-6; LOWER RIPHEAN (Semri Group, Kajrahat Limestone Formation), Dala-Chopan road section, Mirzapur district, Uttar Pradesh; Misra, Singh & Kumar 1977: 140; pl. 1, fig. 2; LOWER RIPHEAN (Semri Group, Kajrahat Limestone Formation), Dala-Chopan road section, Mirzapur district, Uttar Pradesh.

Conophyton cf. cylindricus Maslov. Raha & Sastri 1973: 141, fig. 2c; LOWER-MIDDLE RIPHEAN (Jammu Limestone Formation), Riasi Tehsil, Udhampur district, Jammu and Kashmir; Valdiya 1980: 124, fig. 4a; MIDDLE TO UPPER RIPHEAN (Lower Shali Formation), Beas valley, Himachal Pradesh; Moitra 1999: 45, fig. 31a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Sonadih and Akaltara, Bilaspur. Madhya Pradesh.

Conophyton cylindricus variety 1 Bhattacharya 1976a: 296, figs. 1-3; LOWER RIPHEAN (Tejam Group, Calc zone), Kapkot, Almora villages, Uttar Pradesh.

Conophyton cylindricus variety 2 Bhattacharya 1976a: 296, figs. 2-4; LOWER RIPHEAN (Tejam Group, Calc zone), Kapkot, Almora villages, Uttar Pradesh.

Conophyton sp. (Ephyaltes sp.) Gupta 2004: 110; pl. 1, fig. i; PALAEOPROTEROZOIC (Bijawar Group, Lohar Dolomite Formation), Joga area, Hoshangabad district, Madhya Pradesh.

Conophyton = (**Yugmaphyton** Tewari**)** Tewari 1989: 167; pl. 7, fig. a; UPPER PROTEROZOIC (Krol Group, Upper Krol Formation), Mussoorie Syncline, Uttar Pradesh.

Conophyton like Khan & Das 1968: 171; figs. 1-2; EARLY PROTEROZOIC (Bijawar Group), Garahi hill, Dahi and Pathra villages, Chhattarpur district, Madhya Pradesh.

Conophyton sp. Prasad, Rao & Gururaja 1979: 28; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup), plate, figure and locality not mentioned.

Conophyton sp. Prasad, Rao & Gururaja 1979: 28; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup), plate, figure and locality not mentioned.

Conophyton sp. Banerjee & Basu 1980: 243, figs. 4, 5, 12; PRECAMBRIAN (Aravalli Supergroup, Jhabua Phosphorite Member), Khatama and Amliamal section, Jhabua, Rajasthan.

Conophyton sp. Bhaskar Rao & Guru Raja 1980: 40; pl. 1, figs. 1-5; PRECAMBRIAN (Cuddapah Supergroup, Cumbum Formation), Jangamrajupalli, Andhra Pradesh.

Conophyton sp. Bhargava & Ahluwalia 1980: 189, figs. 1B & C; PRECAMBRIAN (Shali Formation), Malloh Pass area, Himachal Pradesh and Uttar Pradcsh.

Conophyton sp. Singh 1983: 112; pl. 1, figs. 1-4; LATE VENDIAN (Krol Group, Krol Formation), Krol Belt, Nainital-Kaladungi road, Nainital district, Uttar Pradesh.

Conophyton sp. Tewari 1983a: 129; fig. 4b; LOWER TO MIDDLE RIPHEAN (Tejam Group, Gangolihat Dolomite Formation), Kalika and Rainnagar sections on Gangolihat-Pithoragarh motor road, Pithoragarh district, Uttar Pradesh.

Conophyton sp. Tewari 1984a: 204, figs. 1-2; LATE PRECAMBRIAN (Krol Group, Krol Formation), Mussoorie, Uttar Pradesh.

Conophyton sp. Tewari 1984c: 73-75; pl. 3, fig. 4; TOMMOTIAN (Krol Group, Krol Formation), Chamasar and Mussoorie areas, Nainital district, Uttar Pradesh.

Conophyton sp. Gururaja & Chandra 1987: 407; pl. 4, figs. 1-3; PROTEROZOIC (Cuddapah Supergroup, Vempalle Formation), Pulivendla hill ranges, SW Tadpatri, Andhra Pradesh.

Conophyton sp. Gupta, Udhoji & Verma 1988: 155; pl. 5, fig. 5; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), Yerragudda area, Gadchiroli district, Maharashtra.

Conophyton sp. Tewari 1989: 163; pl. 6, fig. d; UPPER PROTEROZOIC (Krol Group, Upper Krol Formation), Mussoorie Syncline, Uttar Pradesh.

Conophyton sp. Valdiya 1989: 197; fig. 6B; MIDDLE PROTEROZOIC (Semri Group, Bhagwanpura Limestone Formation), Bhojunda area, Chittorgarh district, Rajasthan.

Conophyton sp. Valdiya 1989: 197; fig. 6E; MIDDLE PROTEROZOIC (Kaladgi Group), Lokapur area, Bijapur district, Karnataka.

Conophyton sp. Gupta & Verma 1989: 57; pl. 2, fig. A; MIDDLE TO UPPER RIPHEAN (Bijawar Group, Lohar Dolomite Formation), Joga area, Hoshangabad district, Madhya Pradesh.

Conophyton fm. Moitra 1990: 387; pl. 1, fig. 5; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Sonadih and Akaltara, Bilaspur district, Madhya Pradesh.

Conophyton fm. Sinha, Jain, Choudhury & Bhasker 2002: 31; figs. 3a-d; MESOPROTEROZOIC (Singhora Group, Rehatikhol Formation), Banjhapali area, Mahsamund district, Chhattisgarh.

Conophyton sp. Gupta 2004: 110; pl. 1, fig. a; PALAEOPROTEROZOIC (Bijawar Group, Bajno Dolomite Formation), Melwar area, Hoshangabad district, Madhya Pradesh.

Conophyton sp. Gupta 2004: 111; pl. 1, fig. O; PALAEOPROTEROZOIC (Mahakoshal Group, Hiranpur Dolomite Formation), Dongargaon area, Jabalpur district, Madhya Pradesh.

Conophyton sp. Gupta 2004: 115; pl. 2, fig. d; PROTEROZOIC (Pakhal Group, Cherla Formation), Attarlagutta area, Gadchiroli district, Maharashtra.

CROSSIA Kumar

Crossia sp. Kumar 1980: 265; pl. 1, fig. 1; LOWER PALAEOZOIC (Krol Group, Krol Formation), Krol Belt, Nainital district, Uttar Pradesh.

CRYPTOPHYTON Rabben & Komar

Cryptophyton convolutum Rabben & Kumar. Guhey & Sinha 2004: 58 fig. 5; UPPER RIPHEAN (Indravati Group, Jagdalpur Formation), Jagdalpur town, Jagdalpur district, Chhattisgarh.

CRYPTOZOON Hall

Cryptozoon occidentales Dawson. Jairaman & Banerjee 1980: 60; fig. 10; PRECAMBRIAN (Raipur Group, Raipur Limestone Formation), Chhattisgarh Basin, Raipur district, Madhya Pradesh; Barman 1980: 294, fig. B; PRECAMBRIAN (Bilara Group), Bilara, Gati-Nagaur section, Rajasthan; Prasad 1980: 202, fig. 1; LOWER-MIDDLE RIPHEAN (Semri Group, Bhagwanpura Limestone Formation), Chittorgarh-Barsa section, Rajasthan; Gururaja & Chandra 1987: 405; pl. 3, figs. 1-4; pl. 9, fig. 3; PROTEROZOIC (Cuddapah Supergroup, Tadpatri Formation), NNE Rayalcheruvu, south-west of Pulivendla, Andhra Pradesh.

Cryptozoon proliferum Lian. Viswanathiah & Gowda 1970: 382; pl. 14, figs. 11-12; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Alagundi and Bijapur districts, Karantaka; Viswanathiah, & Murty 1972: 172; fig. 1; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Limestone Formation), Nidgundi, Bijapur district, Karnataka; Barman, Verma & Puri 1978: 265; pl. & figs. not specified; PRECAMBRIAN (Aravalli Supergroup), Udaipur, Rajasthan; Prasad, Rao & Gururaja 1979: 28; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup), plate, figure and locality not mentioned; Prasad, Rao & Gururaja 1979: 28; MIDDLE PROTEROZOIC (Kaladgi Group), plate, figure and locality not mentioned; Gowda & Govind Rajulu 1980: 229**;** fig. 16; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka; Gupta 2004: 118; pl. 3, fig. k; NEOPROTEROZOIC (Bhander Group, Nagod Limestone Formation), Amanganj area, Satna district, Madhya Pradesh.

Cryptozoon Form A Gupta 2004: 117; pl. 3, fig. l; NEOPROTEROZOIC (Bhander Group, Nagod Limestone Formation), Maihar area, Satna district, Madhya Pradesh.

Cryptozoon Form B Gupta 2004: 117; pl. 3, fig. n; NEOPROTEROZOIC (Bhander Group, Nagod Limestone Formation), Emlia Mines, Maihar area, Satna district, Madhya Pradesh.

Cryptozoon sp. Viswanathiah & Gowda 1970: 382; pl.13, fig. 10; PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Alagundi and Bijapur district, Karnataka.

Cryptozoon sp. Prasad, Rao & Gururaja 1979: 28; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup), plate, figure and locality not mentioned.

Cryptozoon sp. Gowda & Govind Rajulu 1980: 229; fig. 15; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka.

Cryptozoon sp. Gowda & Govind Rajulu 1980: 230; fig; 14; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka.

Cryptozoon sp. Gururaja & Chandra 1987: 407; pl. 1, figs. 4-5; PROTEROZOIC (Cuddapah Supergroup, Vempalle Formation), SW Rayalcheruvu, Bethamcherla-Kurnool, Gattimani-Konda at Pulivendla hill ranges, SW Tadpatri, WNW Rayalcheruvu, Andhra Pradesh; Sarkar 1989: 31; pl. 1, fig. 5; ARCHAEAN (Iron Ore Supergroup, Banded Iron Formation), Noamundi Basin, Bihar and Orissa.

Cryptozoon Raja Rao, Iqbaluddin & Mathur 1968: 560; plate, figure and locality not mentioned in text; ARCHAEAN (Aravalli Supergroup), Dakan Kotra, Udaipur, Rajasthan.

Cryptozoon Sarkar 1989: 33; pl. 1, fig. 5; PRECAMBRIAN (Banded Iron Formation), Noamundi Basin, Bihar.

Cryptozoon Rai & Kar 1992: 15-16; pl. 1; figs. 1-4; EARLY CAMBRIAN (Tal Group, Tal Formation and Krol Group, Krol Formation), Deona village, Sirmaur district, Himachal Pradesh.

Cryptozoon Rai & Kar 1995: 363; pl. 1; fig. 5; EARLY CAMBRIAN (Tal Group, Tal Formation and Krol Group, Krol Formation), Deona village, Sirmaur district, Himachal Pradesh.

CYTHOTES Vlasov

Cythotes sp. Vlasov. Misra & Kumar 2005: 162; pl. 4, figs. 1-2; 2 f; PALAEOPROTEROZOIC/ MESOPROTEROZOIC (Semri Group, Fawn Limestone Formation), Muni Ki Pahari, Newari, Sonbhadra district, Uttar Pradesh.

DALAIA Hofmann

Dalaia dalensis Kumar 1976a: 16; pl. 3, figs. 1, 2, 4 (does not tally with explanation of plates), LOWER RIPHEAN (Semri Group, Kajrahat Limestone Formation), Dala-Chopan road section, Mirzapur district, Uttar Pradesh.

DIGITATE SMALL STROMATOLITE

Digitate small stromatolite Sharma & Shukla 1998: 93, fig. 3; PALAEOPROTEROZOIC (Cuddapah Supergroup, Vempalle Formation), Kadiri region, Anantpur district, Andhra Pradesh.

Digitate stromatolite Tewari 2003: 56, figs. 3e-g; TERMINAL NEOPROTEROZOIC (Buxa Group, Chillipam Dolomite Formation,) Jiagaon-Chillipam section, Kameng district, Arunachal Pradesh.

Digitate Stromatolite Riding & Sarma, 1998: 25, fig. 5; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup, Vempalle formation), Kadri-Peddavenka area, Andhra Pradesh.

Domal shaped stomatolites cf. Conophyton Grant, Murty & Sengupta 1980: 52, figs.2, 6, 8; ARCHAEAN (Koira Group, Banded Iron Ore Formation), around Koira, Keonjhar district, Bihar-Orissa.

EPHYALTES Vlasov

Ephyaltes sp. Vlasov. Misra & Kumar 2005: 162, 164; pl. 5, figs. 1-3; text fig. g, h; PALAEOPROTEROZOIC/MESOPROTEROZOIC (Semri Group, Fawn Limestone Formation), Muni Ki Pahari, Newari, Sonbhadra district, Uttar Pradesh.

EPIPHYTON Bornemann

Epiphyton sp. Shukla 1984: 240; pl. 1, figs. 3-4; RIPHEAN (Deoban Formation), Mastamano temple on Chandak-Cherra road, Dwalihat village, Pithoragarh, Uttar Pradesh.

Forma A cf. Conophyton beedii Walter. Maithy, Kumar & Babu 2000**:** 101, fig. 3.14; ARCHAEAN (Iron Ore Group), Kashia Mine, 6 km west of Barbil, Orissa.

Forma B cf. Gruneria/Irregularia Hofmann & Masson. Maithy, Kumar & Babu 2000**:** 103, fig. 3.13; ARCHAEAN (Iron Ore Group), Kashia Mine, 6 km west of Barbil, Orissa.

Forma C cf. Stratifera Maithy, Kumar & Babu 2000**:** 104, fig. 3.12; ARCHAEAN (Iron Ore Group), Kashia Mine, 6 km west of Barbil, Orissa.

GARWOODIA Kumar

Garwoodia sp. Kumar 1980: 266; pl. 2, fig. I; LOWER PALAEOZOIC (Krol Group, Krol Formation), Nainital area, Nainital district, Uttar Pradesh.

GAYA Krylov

Gaya sp. Tewari 1983a: 134, figs. 7 D-F; LOWER TO MIDDLE RIPHEAN (Tejam Group, Gangolihat Dolomite Formation), Patkeora village section, Gangolihat area, Pithoragarh district, Uttar Pradesh.

GONGYLINA Komar

Gongylina differentiata Komar. Kumar & Kumar 1978: 627; pl. 1, figs. 1-4; pl. 2, fig. 4; PRECAMBRIAN (Thalkedar Dolomite Formation), Pithoragarh district, Uttar Pradesh; Tewari 1983: 131; figs. 4c & 8a, b; LOWER TO MIDDLE RIPHEAN (Tejam Group, Gangolihat Dolomite Formation), Kathpuriachhina-Dhuraphat and Baiter sections Pithoragarh district, Uttar Pradesh.

Gongylina mixata Komar. Tewari 1983a: 131**;** fig. 6C; LOWER TO MIDDLE RIPHEAN (Tejam Group, Gangolihat Dolomite Formation), Kathpuriachhina-Dhuraphat section, Pithoragarh district, Uttar Pradesh.

GYMNOSOLEN Steinmann

Gymnosolen furcatus Komar. Moitra 1999: 40, fig. 29a, b, c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Chukatta and Bhatapara, Bilaspur district, Madhya Pradesh.

Gymnosolen rotandus Moitra. Moitra 1991: 80; fig. 2c, 7; PROTEROZOIC (Chhattisgarh Group, Raipur Limestone Formation), Hirri Quarry section, Raipur district, Madhya Pradesh; Moitra 1999: 38, fig. 28a, b, c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Karhi, Mopar and Joratarai, Raipur district, Madhya Pradesh.

Gymnosolen simplex Zhu: Sharma & Shukla 2003: 12; pl. 2, figs. 6-7; ARCHAEAN (Cuddapah Supergroup, Tadpatri Formation), Andhra Pradesh.

Gymnosolen cf. Moitra 1986: 126; pl. 2, fig. 1; LOWER LATE RIPHEAN-EARLY MIDDLE RIPHEAN (Raipur Formation), Jamul, Durg district, Madhya Pradesh.

Gymnosolen cf. Moitra 1986: 126; pl. 2, fig. 4; LOWER LATE RIPHEAN-EARLY MIDDLE RIPHEAN (Raipur Formation), Mopar, Chukatta, Raipur district, Madhya Pradesh.

Gymnosolen cf. Sikdar 1989: 88; fig. 2D; NEOPROTEROZOIC (Chhattisgarh Supergroup, Raipur Fortmation), Nandini-Jamul area, Durg district, Madhya Paradesh.

Gymnosolen sp. Jairaman & Banerjee 1980: 59, fig. 2; PRECAMBRIAN (Raipur Group, Raipur Limestone Formation), Chhattisgarh Basin, Raipur district, Madhya Pradesh.

Gymnosolen sp. Gururaja & Chandra 1987: 418; pl. 10, figs. 1-5; PROTEROZOIC (Cuddapah Supergroup, Vempalle Formation), Pulivendla hill ranges, Tadpatri, Andhra Pradesh.

Gymnosolen sp. Gupta, Udhoji & Verma 1988: 153; pl. 3, fig. 6; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra.

Gymnosolen sp. Gupta, Udhoji & Verma 1988: 154; pl. 4, fig. 4; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra.

Gymnosolen sp. Gupta & Verma 1989: 57; pl. 2, figs. B; MIDDLE TO UPPER RIPHEAN (Bijawar Group, Lohar Dolomite Formation), Joga area, Hoshangabad district, Madhya Pradesh.

Gymnosolen sp. Raha & Das 1989: 135; pl. 4, figs. u, v; PROTEROZOIC (Tejam Group, Deoban Formation), Pithoragrah district, Uttar Pradesh.

Gymnosolen sp. Chatterjee, Das, Ganguli & Chatterjee 1990: 404; pl. 4, fig. 3; text fig. 3; PROTEROZOIC (Raipur Group, Chandi Formation), Nandini Mine, Durg district, Madhya Pradesh.

Gymnosolen fm. Moitra 1990: 387; pl. 1, fig. 2; pl. 2, fig. 3 & 6; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Mopar, Raipur district; Akaltara in Bilaspur; and Selud in Durg district, Madhya Pradesh.

Gymnosolen sp. Verma, Udhoji & Gupta 1990: 437; pl. 1, fig. 5; PALAEOPROTEROZOIC (Bijawar Group, Lohar Dolomite Formation), Joga, Hoshangabad district, Madhya Pradesh.

Gymnosolen sp. Gupta 2004: 110; pl. 1, fig. f; PALAEOPROTEROZOIC (Bijawar Group, Lohar Dolomite Formation), Joga area, Hoshangabad district, Madhya Pradesh.

Gymnosolen sp. Gupta 2004: 111; pl. 1, fig. n; PALAEOPROTEROZOIC (Mahakoshal Group, Hiranpur Dolomite Formation), Dundi area, Jabalpur district, Madhya Pradesh.

Gymnosolen sp. Gupta 2004: 115; pl. 2, fig. i; PROTEROZOIC (Pakhal Group, Hiranpur Cherla Formation), Buggagutta area, Gadchiroli district, Maharashtra.

HADROPHYCUS Fenton & Fenton

Hadrophycus immanis Fenton & Fenton. Gowda & Govind Rajulu 1980: 230; fig. 18; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka.

ILICTA Sidorov

Ilicta deobanica Sinha & Raaben 1979: 319; figs. 3, 4A-B; LOWER CAMBRIAN (Deoban Limestone), Chakrata, Dehradun district, Uttar Pradesh.

INDOPHYTON Mathur

Indophyton sp. Gowda & Govind Rajulu 1980: 230, fig. 19; LATE PRECAMBRIAN (Kaladgi Supergroup, Lokapur Formation), Kaladgi-Lokapur section, Karnataka.

INZERIA Krylov

Inerzia initita Moitra 1986: 126; pl. 2, fig. 6; LOWER LATE RIPHEAN-EARLY MIDDLE RIPHEAN (Raipur Formation), Pathri Mine sections, Durg district, Madhya Pradesh.

Inzeria tijomusi Krylov. Murti 1978: 278; pl. 11C, fig. D; MIDDLE RIPHEAN (Raipur Group, Chandi Formation), Phunrarddih, Raipur district, Madhya Pradesh; Murti 1996: 28; fig. 6d; LATE PRECAMBRIAN (Raipur Group, Chandi Limestone Formation), Rasera-Arjuni section, Raipur district, Madhya Pradesh; Moitra 1999: 23, fig. 20a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Raipur, Raipur district and Akaltara, Bilaspur district, Madhya Pradesh

? **Inzeria fm.** Gururaja & Chandra 1987: 418; pl. 11, figs. 1-4; PROTEROZOIC (Cuddapah Supergroup, Tadpatri Formation), Pulivendla-Vempalle road, and high ground, west of Pulivendla, Andhra Pradesh.

Inzeria fm. Moitra 1990: 387; pl. 2, fig. 4; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Pathri Mine sections, Raipur district, Madhya Pradesh.

Inzeria sp. Jairaman & Banerjee 1980: 59, fig. 3; PRECAMBRIAN (Raipur Group, Raipur Limestone Formation), Raipur district, Madhya Pradesh.

Inzeria sp. Gupta, Udhoji & Verma 1988: 153; pl. 3, fig. 1; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra.

Inzeria sp. Gupta 2004: 117; pl. 3, fig. O; NEOPROTEROZOIC (Bhander Group, Bhander Limestone Formation), Chinda Mine section, Rewa district, Madhya Pradesh.

IRREGULARIA Korolyuk

Forma B cf. irregularia Maithy, Kumar & Babu, 2000: 103, fig. 3.13; ARCHAEAN (Iron Ore Group), Kasia Mine, Barbil-Rourkela road, 6 km southwest of Barbil, Orissa.

Irregularia fm. Raha 1978: 167, fig. 38; RIPHEAN (Jammu Limestone, Biostrome III), Jammu & Kashmir.

Irregularia fm. Raha 1984: 31; pl. 38, figs. 1-2; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Gran-Khairi section, Jammu & Kashmir.

Irregularia sp. Raha & Sastri 1973: 144, fig. 3c; LOWER-MIDDLE RIPHEAN (Jammu Limestone Formation), Riasi Tehsil, Udhampur district, Jammu and Kashmir.

Irregularia sp. Sinha 1977: 97, figs. 12-13; RIPHEAN (Naldera Limestone), Naldera-Mashobra, Himachal Pradesh; Sharma 1996; 180; pl. 2, figs. 6, 8; pl. 5, figs. 7 & 9; EARLY MIDDLE RIPHEAN (Semri Group, Salkhan Limestone Formation), Akbarpur-Jadhunathpur, Rohtas district, Bihar.

Irregularia sp. Sharma 1996: 180; pl. 2, figs. 6-8; MESOPROTEROZOIC (Semri Group, Salkhan Formation), Akbarpur-Jadhunathpur road section, Jaradg, Rohtas district, Bihar.

Irregularia sp. Sharma & Shukla 2003: 12; pl. 2, fig. 5; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup, Vempalle and Tadpatri Formations), Andhra Pradesh.

JACUTOPHYTON Shapvalova

Jacutophyton fm. Valdiya 1989: 197; fig. 6C; PRECAMBRIAN (Delhi Supergroup, Ajabgarh Group), Baraud area, Alwar district, Rajasthan.

Jacutophyton fm. Moitra 1999: 56, figs. 38a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Raipur district, Chhattisgarh.

Jacutophyton sp. Verma & Barman 1980: 87, fig. C; MIDDLE RIPHEAN (Delhi Supergroup, Kushalgarh Formation), Alwar district, Rajasthan.

Jacutophyton fm. Gururaja & Chandra 1987: 407; pl. 5, figs. 1-3; PROTEROZOIC (Cuddapah Supergroup, Vempalle Formation), Pulivendla-Kadri hill ranges, southwest Tadpatri, Andhra Pradesh.

Jacutophyton sp. Gupta, Udhoji & Verma 1988: 155; pl. 5, fig. 6; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), Buggagutta area, Gadchiroli district, Maharashtra.

Jacutophyton sp. Gupta & Verma 1989: 57; pl. 1, fig. D; MIDDLE TO UPPER RIPHEAN (Bijawar Group, Lohar Dolomite Formation), Joga area, Hoshangabad district, Madhya Pradesh.

Jacutophyton sp. Chatterjee, Das, Ganguli & Chatterjee 1990: 405; pl. 4, fig. 3; PROTEROZOIC (Raipur Group, Chandi Formation), Nandini Mine, Durg district, Madhya Pradesh.

Jacutophyton sp. Verma, Udhoji & Gupta 1990: 437; pl. 1, figs. 1-2; PALAEOPROTEROZOIC (Bijawar Group, Lohar Dolomite Formation), Joga, Hoshangabad district, Madhya Pradesh.

Jacutophyton sp. Gupta 2004: 110; pl. 1, fig. b; PALAEOPROTEROZOIC (Bijawar Group, Bajno Dolomite Formation), Melwar area, Hoshangabad district, Madhya Pradesh.

Jacutophyton sp. Gupta 2004: 110; pl. 1, fig. h; PALAEOPROTEROZOIC (Bijawar Group, Lohar Dolomite Formation), Joga area, Hoshangabad district, Madhya Pradesh.

Jacutophyton sp. Gupta 2004: 115; pl. 2, fig. f; PROTEROZOIC (Pakhal Group, Cherla Formation), Buggagutta area, Gadchiroli district, Maharashtra.

Jacutophyton sp. Gupta 2004: 117; pl. 2, fig. j; MESO-NEOPROTEROZOIC (Semri Group, Bargawan Limestone Formation), Chaurihwan area, Sonbhadra district, Uttar Pradesh.

JURUSANIA Krylov

? **Jurusania alica** Prashra 1972: 114; pl. 16, fig. 4; PRECAMBRIAN (Deoban Group, Deoban Limestone Formation), Bhartaun section, Himachal Pradesh; Prashra 1977: 114; pl. 16, fig. 4; PROTEROZOIC (Deoban Formation), Chakrata area, Dehradun district, Uttar Pradesh.

Jurusania himalayica Sinha 1977: 88; pl. 1, fig. 4; pl. 2, figs. 1-3; RIPHEAN (Simla Group, Kakarhatti Limestone Member), Arki, WSW Simla, Himachal Pradesh; Valdiya 1980: 123, fig. 3d; MIDDLE RIPHEAN (Tejam Group, Basantpur Formation, Kakarhatti Limestone Member), Simla, Himachal Pradesh; Valdiya 1989: 203; fig. 9D; UPPER RIPHEAN-LOWER VENDIAN (Basantpur Formation, Kakarhatti Limestone Member), Shimla district, Himachal Pradesh; Guhey & Sinha 2004: 57, figs. 2a-c; NEOPROTEROZOIC (Indravati Group, Jagdalpur Formation), Jagdalpur town, Jagdalpur district, Chhattisgarh.

Jurusania minuta Bertand & Sarfati. Sharma & Shukla 2003: pl. 1, fig. 3, 4; PALAEOPROTEROZOIC-MESOPROTEROZOIC (Papaghani Group, Vempalle Formation), Andhra Pradesh.

Jurusania fm. Raha & Das 1989: 135; pl. 4, fig. y; MIDDLE PROTEROZOIC (Tejam Group, Deoban Formation), Pithoragrah district, Uttar Pradesh.

?**Jurusania sp.** Sinha 1977: 92, fig. 5; RIPHEAN (Naldera Limestone), Naldera, Himachal Pradesh.

Jurusania fm. Gururaja & Chandra 1987: 421; pl. 8, figs. 1-4; PROTEROZOIC (Cuddapah Supergroup, Vempalle Formation), south of Rayalacheruvu, Karnataka.

Jurusania ? sp. Valdiya 1969: 11; pl. 2I, figs. 4; text figs. 5: H, I and 6: L; PROTEROZOIC (Thalkedar Limestone Formation), Pithoragarh, Himachal Pradesh; Valdiya 1980: 123, fig. 3c; MIDDLE-UPPER RIPHEAN (Sor Slate, Thalkedar Limestone Formation), Bhelonth, Pithoragarh, Kumaon district in Uttar Pradesh and Himachal Pradesh.

Jurusania ? sp Bhargava & Ahluwalia 1980: 192, fig. 2B; PRECAMBRIAN (Deoban Group, Deoban Formation), Tons valley, Dehradun district, Uttar Pradesh.

Jurusania sp. Verma & Puri 1978: 265; pl. & figs. not mentioned; PRECAMBRIAN (Aravalli Supergroup), Udaipur district, Rajasthan.

KANPURIA Zhu

Kanpuria bulbosa Zhu. Sharma & Shukla 2003: pl. 1, fig. 3, 4; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup, Tadpatri Formation), Karnataka; Sharma & Shukla 2004: 12; pl. 2, fig. 3; PALAEOPROTEROZOIC-MESOPROTEROZOIC (Papaghani Group, Vempalle Formation), Andhra Pradesh.

KATERNIA Valdiya 1989:

Katernia africana Valdiya 1989: 195; fig. 5D; PRECAMBRIAN (Aravalli Supergroup), Khatamba area, Jhabua district, Madhya Pradesh

KORGAICYATHID Tewari

Korgaicyathid Tewari 1989: 167; pl. 7, fig. b; UPPER PROTEROZOIC (Krol Group, Upper Krol Formation), Korgai Syncline, Himachal Pradesh.

KROLIA Kumar

Krolia sp. Kumar 1980: 265; pl. 1, fig. 3; pl. 2. fig. 4; LOWER PALAEOZOIC (Krol Group, Krol Formation), around Nainital, Nainital district, Uttar Pradesh.

KUSSIELLA Krylov

Kussiella indetermiate Raha 1980: 149, fig. 22; PRECAMBRIAN (Jammu Limestone, Algal Biostrome I), Jammu, Jammu & Kashmir.

Kussiella kussiensis Krylov. Kumar 1976b: 26; pl. 1-5; MIDDLE RIPHEAN (Semri Series), Lodhwara hill, Banda district, Uttar Pradesh; Kumar 1976b: 25**;** pl. 1-2, 3; LOWER RIPHEAN (Semri Series), Bari-Dala-Chopan road and nala cutting sections, Mirzapur district, Uttar Pradesh; Kumar 1976a: 15; pl. 1; pl. 2, fig. 7, (does not tally with explanation of plates), LOWER RIPHEAN (Semri Group, Basal conglomerate), Dala near rock crusher plant, Mirzapur district, Uttar Pradesh; Raha 1980: 149, figs. 19-21; PRECAMBRIAN (Jammu Limestone, Algal Biostrome I), Jammu & Kashmir; Banerjee & Basu 1980: 244, figs. 13 & 14; PRECAMBRIAN (Aravalli Supergroup, Jhabua Phosphorite Member), Khatama and Amliamal section, Jhabua, Rajasthan; Raha 1984: 23; pl. 23, figs. 1-4; pl. 24, figs. 1-4; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Talwara and Gran villages, Jammu and Kashmir; Tewari 1984c: 73-75; pl. 1, fig. 4; PRECAMBRIAN-CAMBRIAN BOUNDARY (Buxa Group, Shali Formation), Mugna and Bhadara areas, Simla, Himachal Pradesh; Gupta, Udhoji & Verma 1988: 153; pl. 3, fig. 1; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra; Raha & Das 1989: 125; pl. 1, fig. c; UPPER PROTEROZOIC (Jammu Limestone), Jammu and Kashmir; Tewari 1989: 150; pl. 2, fig. b; MIDDLE PROTEROZOIC (Tejam Group, Deoban Formation), Chakrata-Deoban section, Uttar Pradesh; Valdiya 1989: 203; fig. 9B; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Jammu and Kashmir.

Kussiella cf. kussiensis Moitra 1999: 45, figs. 32 a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Akaltara, Bilaspur district, Madhya Pradesh.

Kussiella irregularis Moitra. Moitra 1999: 48, fig. 33a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Nagpura, Raipur district, Madhya Pradesh.

Kussiella magna Raha & Das 1989: 129; pl. 2, fig. k; UPPER PROTEROZOIC (Tejam Group, Larji Formation), Lesser Himalaya.

Kussiella plata Zhu. Sharma & Shukla 2003: 13; pl. 2, figs. 1-2; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup, Tadpatri Formation), Karnataka.

Kussiella vittata Tewari 1984c: 73-75; pl. 1, fig. 1; PRECAMBRIAN-CAMBRIAN BOUNDARY (Buxa Group, Shali Formation), Mugna area, Simla, Himachal Pradesh.

Kussiella fm. Prashra 1972: 117; pl. 17, fig. 8; PRECAMBRIAN (Deoban Group, Deoban Limestone Formation), Bhartaun and Kandalv villages, Himachal Pradesh.

Kussiella fm. Valdiya 1980: 120, fig. 2a; MIDDLE RIPHEAN (Tejam Group, Gangolihat Formation), Dunda, Pithoragarh district, Uttar Pradesh; Moitra 1990: 387; pl. 3, fig. 5; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Kotni, Durg district, Madhya Pradesh.

Kussiella fm. Indet Raha 1984: 24; pl. 25, figs. 1-4; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Riasi, Jammu & Kashmir.

Kussiella fm. Raha & Das 1989: 129; pl. 2, fig. i; UPPER PROTEROZOIC (Buxa Dolomite), Tatapani area, Sikkim.

Kussiella fm. Raha & Das 1989: 125; pl. 1, fig. f; UPPER PROTEROZOIC (Jammu Limestone), Jammu and Kashmir.

Kussilla fm. Raha & Das 1989: 129; pl. 2, fig. n; UPPER PROTEROZOIC (Tejam Group, Gangolihat Dolomite Formation), Jammu & Kashmir.

Kussiella sp. A Gururaja & Chandra 1987: 409; PROTEROZOIC (Stratigraphic horizon not mentioned), WSW Rayalacheruvu-Kurnool-Atmakur road sections, Andhra Pradesh.

Kussiella sp. B Gururaja & Chandra 1987: 409; pl. VII, figs. 1-4; PROTEROZOIC (Cuddapah Supergroup, Tadpatri Formation), SW Pulivendla-Surepalle, on Tadpatri-Ananthapur road sections. Andhra Pradesh.

Kussiella sp. Prashra 1977: 117; pl. 17, fig. 8. PROTEROZOIC (Deoban Formation), Chakrata, Dehradun district, Uttar Pradesh.

Kussiella sp. Banerjee & Rawat 1980: 81, fig. 2.4; PRECAMBRIAN. (Garhwal Group, Lameri Member), Rudraprayag, Garhwal, Uttar Pradesh.

Kussiella sp. Tewari 1983a: 130, fig. 4a; LOWER TO MIDDLE RIPHEAN (Tejam Group, Gangolihat Dolomite Formation), Kalika and Govt. Inter College section, Gangolihat area, Pithoragarh district, Uttar Pradesh.

Kussiella sp. Gupta, Udhoji & Verma 1988: 153; pl. 3, fig. 4; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra.

Kussiella sp. Gupta, Udhoji & Verma 1988: 153; pl. 3, fig. 6; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra.

Kussiella sp. Gupta, Udhoji & Verma 1988: 154; pl. 4, figs. 1-2; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra.

Kussiella sp. Gupta, Udhoji & Verma 1988: 154; pl. 4, fig. 2; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra.

Kussiella sp. Gupta 2004: 115; pl. 2, fig. g; PROTEROZOIC (Pakhal Group, Cherla Formation), Karneli area, Gadchiroli district, Maharashtra.

Kussiella sp. Gupta 2004: 117; pl. 2, fig. l; MESOPROTEROZOIC (Semri Group, Kajrahat Limestone Formation), Billi-Dala area, Sonbhadra district, Uttar Pradesh.

?Kussiella sp. Sarkar 1989: 31**;** pl. 1, fig. 2; ARCHAEAN (Iron Ore Supergroup, Banded Iron Formation), Noamundi Basin, Bihar and Orissa.

? Kussiella Sarkar 1989: 33; pl. 1, fig. 6; PRECAMBRIAN (Banded Iron Formation), Noamundi Basin, Bihar.

LAMINAR TYPE

Laminar Stromatolite Riding & Sarma 1998: 28, fig. 8; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup, Vempalle formation), Kadri-Peddavenka area, Andhra Pradesh.

LIAOHELLA Bu

Liaohella fasciculata Bu. Sharma & Shukla 2003; pl. 1**,** fig. 1; ARCHAEAN (Cuddapah Supergroup, Tadpatri Formation), Andhra Pradesh; Sharma & Shukla 2003: 13; pl. 2, figs. 1-2; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup, Tadpatri Formation), Karnataka.

LINIELLA Krylov

Linella avis Krylov. Moitra 1999: 50, figs. 36a, b, c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Akaltara and Pathri Mine sections, Bilaspur district, Madhya Pradesh.

Liniella fm. Moitra, 1990: 383; pl. 5, figs. 2 & 4; EARLY RIPHEAN (Raipur Group, Raipur Limestone Formation), Patharia Mines, Akaltara in Raipur and Bilaspur districts, Chhattisgarh Basin, Madhya Prardesh.

Linella fm. Moitra 1990: 393; pl. 5, fig. 2; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Pathri Mine section, Raipur district, Madhya Pradesh.

MAIHARIA Kumar

Maiharia maiharensis Kumar 1976a: 18; pl. 3, fig. 6; pl. 4, figs. 2, 4 & 5, (Only partially tallies with explanation of plates), MIDDLE RIPHEAN (Bhander Group, Bhander Limestone Formation), in nala-cutting on Maihar-Nagod road, Satna district, Madhya Pradesh; Valdiya 1989: 198; fig. 7B; UPPER PROTEROZOIC (Bhander Group, Sirbu Shale Formation), Maihar-Satna area, Satna district, Madhya Pradesh.

MALACOSTROMA Gürich

Malacostroma cencentrica Raha 1972: 228; pl. 2, figs. 3 & 4; PROTEROZOIC (Krol Formation, Phosphorite Member), Mussoorie Syncline, Uttar Pradesh.

MAMICUS Mathur

Mamicus collenia Srivastava & Mehrotra 1980: 288, fig. 4; PRECAMBRIAN (Semri Group), Son valley, Mirzapur district, Uttar Pradesh.

MASLOVIELLA Korolyuk

Masloviella columnaris Korolyuk. Raha & Sastri 1973: 143, fig. 3b; LOWER-MIDDLE RIPHEAN (Jammu Limestone Formation), Riasi Tehsil, Udhampur district, Jammu & Kashmir; Raha 1978: 164, fig. 36; RIPHEAN (Jammu Limestone, Uppermost algal 'Biostrome III), Jammu, Jammu & Kashmir; Banerjee & Basu 1980: 243, fig. 8; PRECAMBRIAN (Aravalli Supergroup, Jhabua Phosphorite Member), north and south of Khatama section, Jhabua, Rajasthan; Valdiya 1980: 120, fig. 2c; MIDDLE RIPHEAN (Tejam Group, Gangolihat Formation), Kumaon Himalaya, Chandaak, Pithoragarh district, Uttar Pradesh; Raha 1984: 29; pl. 34, figs. 1-3; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Riasi-Salal road section, Jammu & Kashmir; Valdiya 1989: 195; fig. 5E; PRECAMBRIAN (Udaipur Formation), Kanpur area, Udaipur district, Rajasthan; Valdiya 1989: 197; fig. 6D; PRECAMBRIAN (Cheyair Group), Pulivendlla area, Andhra Pradesh; Valdiya 1989: 200; fig. 8 C; MIDDLE PROTEROZOIC (Tejam Group, Deoban Limestone Formation), Kumaon Himalaya, Chandaak area, Pithoragarh district, Uttar Pradesh.

MICROSTYLUS Komar

Microstylus sp. Gupta 2004: 111; pl. 2, fig. b; PALAEOPROTEROZOIC (Mahakoshal Group, Hiranpur Dolomite Formation), Burmanghat area, Jabalpur district, Madhya Pradesh.

MINJARIA Korolyuk

Minjaria calceolata Korolyuk. Banerjee 1971: 351; pl. 1, figs. 3, 7; pl. 2, figs. 2, 6; UPPER RIPHEAN (Aravalli Supergroup), Jhamarkotra, Badgaon, Neemuch Mata, Rajasthan; Barman, Verma & Puri 1978: 265; pl. & figs. not specified; PRECAMBRIAN (Aravalli Supergroup), Udaipur, Rajasthan.

Minjaria sp. Valdiya 1980: 120 & 123, figs. 2d, 3b; MIDDLE RIPHEAN (Tejam Group, Gangolihat Formation), Kumaon Himalaya, Chandaak, Pithoragarh district, Uttar Pradesh.

Minjaria fm. Valdiya 1989: 200; fig. 8B; MIDDLE PROTEROZOIC (Tejam Group, Deoban Limestone Formation), Kumaon Himalaya, Chandaak area, Pithoragarh district, Uttar Pradesh.

Minjaria fm. Valdiya 1989: 200; fig. 8F; MIDDLE PROTEROZOIC (Lower Shali Formation), Khaira, Satluj valley Section, Himachal Pradesh.

MINISTROMATOLITE Batin

Ministromatolite Riding & Sarma, 1998: 28, fig. 6-7; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup, Vempalle formation), Kadri-Peddavenka area, Andhra Pradesh.

NAINITALIA Kumar

Nainitalia sp. Kumar 1980: 265; pl. 1, fig. 4; LOWER PALAEOZOIC (Krol Group, Krol Formation), Nainital area, Nainital district, Uttar Pradesh.

NEWLANDIA Walcott

Newlandia minuta Maithy 1989: 85; pl. 1, figs. 1-6; MIDDLE PROTEROZOIC (Semri Group, Bargawan Limestone Formation), Dabua village, Dabua-Tiura section, Rohtas district, Bihar.

Newlandia Sinha 1977: 98, fig. 11; RIPHEAN (Shali Formation), Tattapani, Himachal Pradesh.

NUCLEELLA Komar

Nucleella gaya Tewari 1984c: 73-75; pl. 3, fig. 2; PRECAMBRIAN-CAMBRIAN BOUNDARY (Buxa Group, Shali Formation), Aut, Larji areas, Kulu district, Simla, Himachal Pradesh.

Nucleella fm. Raha 1984: 30; pl. XXXVII, figs. 1-2; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Mari-Sersandu, Katra-Vaishnoodevi and Riasi-Salal road sections, Jammu and Kashmir.

Nucleella fm. Guhey & Wadhwa 1993: 45; fig. 2F; Middle Riphean (Chhattisgarh Supergroup, Chandi Formation), Nandini Mine, Durg district, Madhya Pradesh.

Nucleella sp. Raha & Sastri 1973: 144, fig. 3d; LOWER-MIDDLE RIPHEAN (Jammu Limestone

Formation), Riasi Tehsil, Udhampur district, Jammu and Kashmir.

Nucleella sp. Raha 1978: 166, fig. 37; RIPHEAN, (Jammu Limestone), Jammu and Kashmir.

? **Nucleella sp.** Bhargava & Ahluwalia 1980: 189, fig. 1E; PRECAMBRIAN (Shali Formation, Sorgharwari Member), Slapper bridge, Himachal Pradesh.

Nucleella sp. Raha & Das 1989: 133; pl. 3, fig. t; UPPER PROTEROZOIC (Shali Formation), Himachal Pradesh.

Nucleella sp. Vasudev, Naqvi, Shukla & Udairaj 1989: 202; pl. 1, figs. 5; ARCHAEAN (Schimoga Schist belt), Kumsi, Dharwar Craton, Karnataka.

Nucleella sp. Tewari 2001: 1441, 1443, figs. 3 A, C, F; TERMINAL NEOPROTEROZOIC (Buxa Group, Menga Limestone Formation), Menga village, Menga-Mara road section, Subansiri district, Arunachal Pradesh.

Nuceella sp. Tewari 2003: 68, figs. 7a-B; TERMINAL NEOPROTEROZOIC (Buxa Group, Chillipam Dolomite Formation), Jiagaon-Chillipam section, Kameng district, Arunachal Pradesh.

OMACHTENIA Nuzhnov

Omachtenia granensis Raha 1980: 155, figs. 24 A-C; RIPHEAN (Jammu Limestone, Algal biostrome I), Jammu, Jammu & Kashmir; Raha 1984: 23; pl. 22, figs. 1-4; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Gran village and Riasi, Jammu & Kashmir; Raha & Das 1989: 133; pl. 1, fig. d; UPPER PROTEROZOIC (Jammu Limestone), Jammu & Kashmir.

Omachtenia fm. Moitra 1999: 50, figs. 36 a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Champa, along Hasdeo River section, Raipur district, Madhya Pradesh.

Omachtenia sp. Gururaja & Chandra 1987: 409; pl. 4, figs. 1-2; PROTEROZOIC (Cuddapah Supergroup, Vempalle Formation), on road section to Atmakur, Kurnool, Andhra Pradesh.

Omachtaenia sp. Gupta, Udhoji & Verma 1988: 154; pl. 4, fig. 6; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra.

Omachtaenia sp. Gupta 2004: 115; pl. 2, fig. h; PROTEROZOIC (Pakhal Group, Cherla Formation), Karneli area, Gadchiroli district, Maharashtra.

? **Omachtenia sp.** Sarkar 1989: 31; pl. 1, fig. 3; ARCHAEAN (Iron Ore Supergroup, Banded Iron Formation), Noamundi Basin, Bihar and Orissa.

ONCOLITE Pia

Oncolite fm. Prashra 1977: 118; pl. 19, fig. 2; PRECAMBRIAN (Deoban Group, Mandhali Formation), Malat, Himachal Pradesh.

Onclites fm. Lakshmanans, Patel & Das 1977: 328; pl. 1, fig. 5; PALAEOPROTEROZOIC (Bijawar Group), Chanwarpatha area, Narsinghpur district, Madhya Pradesh.

Oncolite sp. Prasad, Rao & Gururaja 1979: 28; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup), plate, figure and locality not mentioned.

Oncolite sp. Prasad, Rao & Gururaja 1979: 28; MIDDLE PROTEROZOIC (Kaladgi Group), plate, figure and locality not mentioned.

Oncolite sp. Bhargava & Ahluwalia 1980: 192, fig. 2D; PRECAMBRIAN (Tejam Group, Krol-E Formation), Dohana, Himachal Pradesh.

Oncolites sp. Grant, Murty & Sengupta 1980: 52, figs. 5, 7; ARCHAEAN (Koira Group, Banded Iron Ore Formation), around Koira, Keonjhar district, Bihar-Orissa.

Oncolites variety 2. Avasthy 1980: 54, figs. 5-6; ARCHAEAN (Koira Group, Banded Iron Ore Formation), Banspali area, Bonai-Keonjhar district, Orissa.

Oncolites sp. Mathur 1982: 125, fig. 1B; MIDDLE PRECAMBRIAN (Semri Group, Bargawan Limestone Formation), Mirzapur district, Uttar Pradesh.

Oncolite sp. Tewari 1989: 163; pl. 6, fig. e; UPPER PROTEROZOIC (Krol Group, Upper Krol Formation), Mussoorie Syncline, Uttar Pradesh.

Oncolite Tewari & Mathur 2003: 43; pls. 2 c, 2d, LOWER CAMBRIAN (Tal Group, Dhaulagiri Formation), Birpa-Bhithad Ka Khala section, Himachal Pradesh.

PATOMIA Valdiya

Patomia Valdiya 1989: 195; figs. 5B-C; PRECAMBRIAN (Udaipur Formation), Jhamarkotra area, Udaipur district, Rajasthan.

PARABOXONIA Zhu

Paraboxonia lamellaris Zhu. Sharma & Shukla 2003: 13; pl. 3, figs. 3, 5; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup, Tadpatri Formation), Andhra Pradesh.

PILBARIA Bertrand-Sarfati

Pilbaria inzenniformis Bertand & Sarfati. Sharma & Shukla 2004: 13; pl. 2, fig. 4; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup, Tadpatri Formation), Andhra Pradesh.

Pilbaria perplexa Walter. Sharma & Shukla 2004: 13; pl. 1, fig. 2; pl. 3, fig.6; ARCHAEAN (Cuddapah Supergroup, Tadpatri Formation), Andhra Pradesh.

?Pilbaria sp. Valdiya 1989: 194, fig. 5a; PALAEOPROTEROZOIC (Aravalli Supergroup, Kelkua Formation), Jhabua district, Rajasthan.

PLATELLA Korolyuk

Platella talwarenais Raha 1980: 155**;** figs. 23 a-c; PRECAMBRIAN RIPHEAN, (Jammu Limestone, Algal Biostrome I), Jammu and Kashmir; Raha 1984: 25; pl. 34, figs. 1-4; UPPER RIPHEAN-LOWER VENDIAN (Jammu Limestone Formation), Talwara and Gran, Jammu & Kashmir.

Platella sp. Raha & Sastri 1973: 142, fig. 2d; LOWER-MIDDLE RIPHEAN (Jammu Limestone Formation), Riasi Tehsil, Udhampur district, Jammu and Kashmir.

Platella sp. Gupta, Udhoji & Verma 1988: 153; pl. 3, fig. 5; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra.

Platella sp. Gupta 2004: 111; pl. 1, fig. m; PALAEOPROTEROZOIC (Mahakoshal Group, Hiranpur Dolomite Formation), Dundi area, Jabalpur district, Madhya Pradesh.

Platella sp. Gupta 2004: 115; pl. 2, fig. e; PROTEROZOIC (Pakhal Group, Cherla Formation), Karneli area, Gadchiroli district, Maharashtra.

Platella sp. Gupta 2004: 117; pl. 2, fig. j; MESOPROTEROZOIC (Semri Group, Kajrahat Limestone Formation), Billi-Dala area, Sonbhadra district, Uttar Pradesh

Platella sp. Gupta 2004: 117; pl. 3, fig. b; MESOPROTEROZOIC (Semri Group, Kajrahat Limestone Formation), Billi-Dala area, Sonbhadra district, Uttar Pradesh

PLICATINA Raaben

Plicatina antiqua Raaben. Tewari 1983a: 133, figs. 7a-c; PRECAMBRIAN (Gangolihat Dolomite Formation), Kumaon Himalaya. Uttar Pradesh; Tewari 1983b: 87; pl. 1, figs. 1-3; LOWER RIPHEAN (Gangolihat Dolomite Formation), Kathpuriachhina on Kathpuria, Chhina-Raikholt forest road section, Almora district, Uttar Pradesh.

POLUDIA Raaben

Poludia sp. Raha & Das 1989: 131; pl. 4, fig. x; PROTEROZOIC (Sataun Limestone Formation), Simla district, Himachal Pradesh.

PLUMIA Kumar

Plumia sp. Kumar 1980: 265; pl. 1, figs. 5-6; LOWER PALAEOZOIC (Upper Krol Formation), Nainital area, Nainital district, Uttar Pradesh.

PSEUDOCOLUMNAR Srinivasan et al.

Pseudocolumnar Srinivasan, Shukla, Naqvi, Yadav, Venkatachala, Udairaj & Rao 1989: 241; fig. 5; ARCHAEAN (Dharwar Supergroup, Vanivilas Formation), Vanivilaspura and Dodguni areas, Bhimsamundra, Karnataka.

Pseudogymnosolen nauhattensis Sharma 1996: 191; figs. 2,4, 5 9, pl. 5, figs. 1, 2, 4, 6; MESOPROTEROZOIC (Semri Group, Salkhan Limestone Formation), Harna, Shihaldeh areas, Rohtas district, Bihar.

Pseudokussiella sp. Gupta, Udhoji & Verma 1988: 154; pl. 4, fig. 2; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra.

RAHAELLA Tewari

Rahaella elongata Tewari 1989: 169; pl. 1, fig. 1; UPPER PROTEROZOIC (Jammu Limestone Formation), Lesser Himalaya, Jammu and Kashmir.

ROHTASIA Sharma

Rohtasia haranensis Sharma 1996; 176; pl. 2, figs. 1-3; pl. 3, figs.1-4; LOWERMOST RIPHEAN

(Semri Group, Salkhan Limestone Formation), Nauhatta, Harna-Shihaldeh, Akbarpur-Jadhunathpur, Rohtas district, Bihar.

SAJANIA Vologdin

Sajania sp. Shukla 1984: 240; pl. l, fig. 5; RIPHEAN (Deoban Formation), Ghurna-Pithoragarh road; Pithoragarh district, Uttar Pradesh.

SIREN Vlasov

Siren sp. Vlasov. Misra & Kumar 2005: 160-162; pl. 3, figs. 1-3; 2*e*; PALAEOPROTEROZOIC/ MESOPROTEROZOIC (Semri Group, Fawn Limestone Formation), Muni Ki Pahari, Newari, Sonbhadra district, Uttar Pradesh.

SPHEROIDAL STRUCTURE

Spheroidal structure. Raha 1972: 227; pl. 1, figs. 1 & 2; PROTEROZOIC (Krol Formation,), Uttar Pradesh.

Spheroidal structure Raha 1972: 227; pl. 1, fig. 2; PROTEROZOIC (Tejam Group, Kapkot Limestone and Gangolihat Limestone Formations, Phosphorite Member), Mussoorie Syncline, Derkhkhola, Mitryadhal and Naogaon sections in Almora and Pithoragarh districts, Uttar Pradesh.

SPONGIOPHYTON Krausel

Spongiophyton sp. Krausel. Sastri & Venkatachala 1968: 78; pl. 1, fig. 2; PRECAMBRIAN (Ganga valley), Ujhani deep well, Uttar Pradesh.

Spongiophyton sp. Gowda & Srinivasa 1969: 203; pl. 11, fig. 8, PROTEROZOIC (Dharwar Supergroup, Guddadarangayanhalli Formation), Guddadarangayanhalli. Karnataka.

STRATIFERA Korolyuk

Stratifera irregularia Sharma 1996: 182; pl. 1, fig. 7; pl. 3, figs. 5-8; LATE EARLY RIPHEAN (Semri Group, Nauhatta Limestone Formation), Rohtas district, Bihar.

Stratifera undata Komar. Kumar & Kumar 1978: 629; pl. 1, fig. 1; pl. 2, fig. 3; PRECAMBRIAN (Thalkedar Dolomite), Pithoragarh district, Uttar Pradesh; Tewari 1983: 132; figs. 5b & 6a; LOWER TO MIDDLE RIPHEAN (Tejam Group, Gangolihat Dolomite Formation), Kathpuria-Chhina-Dhuraphat, Bauri-Baiter-Asaun and Jhiroli sections, Pithoragarh district, Uttar Pradesh; Tewari 1989: 153; pl. 3, fig. f; MIDDLE PROTEROZOIC (Tejam Group, Gangolihat Dolomite Formation), Pithoragarh district, Uttar Pradesh; Sharma, Mathur, Srivastava & Shukla, 1996 : 706; figs. 3 A-B, 4; UPPER RIPHEAN VENDIAN (Baliana Group, Blaini formation), Chiphadi village, Tehri district, Uttar Pradesh.

Forma C cf. Stratifera Maithy, Kumar & Babu 2000: 104, fig. 3.12; ARCHAEAN (Iron Ore Group), Kasia Mine, Barbil-Rourkela road, 6 km southwest of Barbil, Orissa.

Stratifera fm. Prashra 1972: 117; pl. 19, fig. 3; pl. 17, fig. 9; PRECAMBRIAN (Deoban Group, Deoban Limestone Formation), Bijmal and Gatu area, Himachal Pradesh.

Stratifera fm.? Chauhan 1979: 103; figs. 11, 12; PRECAMBRIAN (Aravalli Group), Jhamarkotra, Udaipur district, Rajasthan.

Stratifera fm. Moitra 1986: 126; pl. 1, fig. 5; LOWER RIPHEAN (Raipur Formation), Gurhari, Durg district, Madhya Pradesh.

Stratifera sp. Rao, Lal & Ghosh 1977: 43; pl. 7, fig. 3 B; UPPER RIPHEAN (Bhander Group, Nagod Limestone Formation), Khama-Ahragam section, Kotar-Kemari hill and Bathia, Satna district, Madhya Pradesh.

Stratifera sp. Prashra, 1977: 117; pl. 19, fig. 3; pl. 7, fig. 9; PROTEROZOIC (Deoban Formation), Chakrata area, Dehradun district, Uttar Pradesh.

Stratifera sp. Rao, Lal & Ghosh 1977: 44; pl. 7, figs. 3D & E; pl. 9; UPPER RIPHEAN (Bhander Group, Magardha Limestone Member), Magardha river near Mahurach and Parkhun, Satna, district, Madhya Pradesh.

Stratifera sp. Barman & Verma 1980: 210, figs. E, F; LOWER-MIDDLE RIPHEAN (Semri Group, Bhagwanpura Limestone Formation), Bhojunda and Deori areas, Chittorgarh district, Rajasthan.

Stratifera sp. Barman 1980: 294, fig. C; PRECAMBRIAN (Marwar Supergroup, Bilara Group), Bilara, Gati-Nagaur section, Rajasthan.

Stratifera sp. Sarkar 1989: 31; pl. 1, fig. 1; ARCHAEAN (Iron Ore Supergroup, Banded Iron Formation), Noamundi Basin, Bihar and Orissa.

Stratifera sp. Gupta, Udhoji & Verma 1988: 153; pl. 3, fig. 4; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra.

Stratifera sp. Sarkar 1989: 33; pl. 1, fig. 1; PRECAMBRIAN (Banded Iron Formation), Noamundi Basin, Bihar.

Stratifera sp. Valdiya 1989: 198; fig. 7E; UPPER PROTEROZOIC (Marwar Supergroup), Bilara area, Rajasthan.

Stratifera sp. Srinivasan, Shukla, Naqvi, Yadav, Venkatachala, Udairaj & Rao 1989: 245; figs. 11-12; ARCHAEAN (Dharwar Supergroup, Vanivilas Formation), Vanivilaspura and Dodguni areas, Bhimsamundra, Karnataka.

Stratifera sp. Vasudev, Naqvi, Shukla & Udairaj 1989: 202-203; pl. 1, figs. 1-4; ARCHAEAN (Schimoga Schist belt), Kumsi, Dharwar Craton, Karnataka.

Stratifera sp. Verma, Udhoji & Gupta 1990: 437; pl. 1, fig. 3; PALAEOPROTEROZOIC (Bijawar Group, Lohar Dolomite Formation), Joga, Hoshangabad district, Madhya Pradesh.

Stratifera sp. Tewari 2001: 1441, fig. 3G; TERMINAL NEOPROTEROZOIC (Buxa Group, Menga Limestone Formation), 2 km from Menga village on Menga-Mara road section, Subansiri district, Arunachal Pradesh.

Stratifera sp. Tewari 2003: 67, figs. 6A-B; TERMINAL NEOPROTEROZOIC (Buxa Group, Chillipam Dolomite Formation), Jiagaon-Chillipam section, Kameng district, Arunachal Pradesh.

Stratifera sp. Sharma & Shukla 2004: 12; pl. 1, figs. 5-6; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup, Tadpatri Formation), Karnataka.

? **Stratifera** Valdiya 1989: 203; fig. 9E; UPPER RIPHEAN-LOWER VENDIAN (Basantpur Formation, Naldera Limestone Member), Naldera area, Shimla district, Himachal Pradesh.

THESAURUS Vlasov

Thesaurus sp. Gupta 2004: 110; pl. 1, fig. e; PALAEOPROTEROZOIC (Bijawar Group, Lohar Dolomite Formation), Joga area, Hoshangabad district, Madhya Pradesh.

THYSSAGETES Vlasov

Forma A cf. Thyssagetes sp. Maithy, Kumar & Babu 2000: 101, fig. 3.14; ARCHAEAN (Iron Ore Group), Kasia Mine, Barbil-Rourkela road, 6 km southwest of Barbil, Orissa.

Thyssagetes sp. Gupta 2004: 117; pl. 3, figs. e, f; MESOPROTEROZOIC (Semri Group, Kuteshwar Limestone Formation), Dhanwahi area, Madhya Pradesh.

Thyssagetes sp. Vlasov. Misra & Kumar 2005: 158; pl. 1, figs. 1-3; pl. 6, figs. 2 a-b & 3; PALAEOPROTEROZOIC/MESOPROTEROZOIC (Semri Group, Kajrahat Formation), Chhoti Mahanadi river section, Khutesar town., Madhya Pradesh.

TIBIA Zhu

Tibia baculiformis Zhu. Sharma & Shukla 2004: 13; pl. 1, fig. 8; LATE PALAEOPROTEROZOIC (Cuddapah Supergroup, Vempalle Formation), Karnataka.

TUNGUSSIA Semikhatov

Tungussia inna Walter. Moitra 1999: 56, figs. 39a-c; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Kotni, Akaltara, Pathri areas and Joratarai Mine section, Bilaspur district, Madhya Pradesh.

Tungissia fm. Raha & Das 1989: 135; pl. 4, fig. w; PROTEROZOIC (Buxa Dolomite Formation), Sikkim.

Tungussia fm. Valdiya 1989: 198; fig. 7D; UPPER PROTEROZOIC (Bhander Group, Bhander Limestone Formation), Maihar-Satna area, Satna district, Madhya Pradesh.

Tungussia fm. Moitra 1999: 58, figs. 39aa-cc; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Hathband and Bhatapara, Bilaspur district, Madhya Pradesh.

Tungussia fm. Moitra 1990: 387; pl. 1, figs. 1, 6; PROTEROZOIC (Raipur Group, Raipur Limestone Formation), Rawan and Hathband areas, Raipur district, Madhya Pradesh.

Tungussia sp. Sinha 1977: 93, fig. 6; RIPHEAN (Shali Formation), Khaira, Sutlej valley, NE Simla, Himachal Pradesh.

Tungussia sp. Rao, Lal & Ghosh 1977: 42; pl. 7, fig. 20; UPPER RIPHEAN (Bhander Group, Nagod Limestone Formation), 2 km southwest of Khama, Satna district, Madhya Pradesh.

Tungussia sp. Jairaman & Banerjee 1980: 60, figs. 6-9; PRECAMBRIAN (Raipur Group, Raipur Limestone Formation), Chhattisgarh Basin, Raipur district, Madhya Pradesh.

Tungussia sp. Prasad 1980: 204, fig. 7; LOWER-MIDDLE RIPHEAN (Semri Group, Bhagwanpura Limestone Formation), Barwas-Arjipura section, Rajasthan.

Tungussia sp. Gupta, Udhoji & Verma 1988: 153; pl. 3, fig. 2; LOWER-UPPER RIPHEAN (Pakhal Group, Pakhal Formation), southeast of Kerneli, Kerneli-Bhimaram section, Gadchiroli district, Maharashtra.

Tungussia sp. Gupta 2004: 117; pl. 3, fig. o; NEOPROTEROZOIC (Bhander Group, Bhander Limestone Formation), Chinda Mine section, Rewa district, Madhya Pradesh.

Tungussia sp. Gupta 2004: 120; pl. 3, fig. j; PROTEROZOIC (Chhattisgarh Group, Chandi Limestone Formation), Purena Mine section, Raipur district, Madhya Pradesh.

WEEDIA Korolyuk

Weedia Raja Rao, Iqbaluddin & Mathur 1968: 560; plates, figures and localities not mentioned in text; ARCHAEAN (Aravalli Supergroup), Dakan Kotra, Udaipur, Rajasthan.

Weedia type. Arya & Rao 1979: 129; fig. 2; MIDDLE PROTEROZOIC (Kurnool Group, Narji Formation), Jammalamadugu, north of Kurnool town, north bank of Tungbhadra river, Andhra Pradesh.

YELMA Gray

Yelma digitata Gray. Sharma, Nair, Patil, Shukla & Kale 1998: 361, figs. 2a-i, 3 a-h; LATE PALAEOPROTEROZOIC (Bagalkot Group, Chitrabhanukot Dolomite Formation), Yaragatti, Belgaum to Bagalkot section, Andhra Pradesh.

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The present catalogue embodies palaeobiological remains reported from the Archaean and Proterozoic sediments of India. All the available records since 1965 upto September 2006 are included under acritarchs, algae (Cyanophyta, Chlorophyta/Phaeophyta/Rhodophyta), Vase shaped microfossils, primitive metazoans (sponge spicules etc.), carbonaceous megaremains, stromatolites, oncolites, lagerstätten etc. These records are arranged alphabetically according to generic names and species with authors who established genera and species. The present catalogue would be useful for the students and research scholars engaged in the field of palaeobotany.