Resume

Dr. Yogmaya Shukla

Scientist 'C

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Date of Birth: 3rd June 1983

Working as Scientist 'C' in Birbal Sahni Institute of Palaeosciences, Lucknow

Research Interest

I am a Precambrian Palaeobiologist interested in palaeobiological, biostratigraphical, and evolutionary aspects of the Indian Archaean and Proterozoic sedimentary successions. My research interest includes understanding the origin and evolution of early life on the Earth as well as tracing their antiquity in Archaean rocks. My work also focuses on various signatures of early life, including microbial mats, stromatolites, carbonaceous megafossils, and organic-walled microfossils, to document the biodiversity and evolutionary patterns in Proterozoic successions.

Professional Synopsis

- Well-qualified and technically-proficient Researcher with excellent academic qualifications.
- Presently, engaged in a project related to "origin of life" investigating the biogenicity of Archaean stromatolites in Indian Archaean Sedimentary Successions.
- Also working on Proterozoic successions of India in collaboration with the other experts in the field.
- Worked under DST's Integrated Long Term Programmed (ILTP) of co-operation in Science and Technology between India and Russia.
- Worked on Precambrian life forms (Precambrian Palaeobiology of the Archaean and Proterozoic basins of India).
- Expertise in lab and field research, data collection/analysis and project management.

Work Experience

- More than 12 years of Post-doctoral research experience in the field of **Precambrian Palaeobiology**.
- Working as a **Scientist 'C'** in Birbal Sahni Institute of Palaeosciences, Lucknow from July, 2020 till date
- Worked as a **Scientist 'B'** in Birbal Sahni Institute of Palaeosciences, Lucknow from April 2017 – June 2020.
- Worked as **UGC Dr. D.S. Kothari Postdoctoral Fellow** in Department of Geology, University of Delhi from August, 2016 – March, 2017.
- Worked as **Research Associate** in Birbal Sahni Institute of Palaeobotany, Lucknow from May, 2011 – August, 2013.
- Worked as **Senior Research Fellow** from July, 2008 to March, 2009 at Birbal Sahni Institute of Palaeobotany, Lucknow.
- Worked as **Junior Research Fellow** from July, 2006 to July, 2008 at Birbal Sahni Institute of Palaeobotany, Lucknow.

Awards and Recognition

- Awarded **"Dr. D.S. Kothari Postdoctoral Fellowship"**
- Awarded **'B.S. Venkatachala Memorial Medal-2010'** for outstanding piece of research work in Palaeobotany.
- The research paper "**Mesoproterozoic silicified microbiotas of Russia and India—Characteristics and Contrasts."** co-authored by me was awarded **"Iyengar-Sahni Medal-2009"** for the best paper published in the Palaeobotanist in preceding two years by the Birbal Sahni Institute of Palaeobotany, Lucknow.
- The research paper entitled **"On the affinity of *Chuaria – Tawuia* complex: A multidisciplinary study"** co-authored by me was awarded **"Sharda Chandra Gold Medal-2009"** in Palaeontology by the Palaeontological Society of India.
- Awarded Gold Medal **"Smt. Shanta Kalyan Smriti Swarn Padak**" for scoring highest marks in Chemistry throughout the college in Intermediate.
- **Voting Member,** the Sub-commission on **Pre-Cryogenian Stratigraphy – International Commission of Stratigraphy (ICS-Pre-Cryogenian** continuing).
- **Voting Member**, the Sub-commission on **the Precambrian - International Commission of Stratigraphy (ICS-the Precambrian).**
- Life Member **Indian Science Congress Associations (ISCA)** (Since 2012) Membership No. L19451
- Life Member **The Palaeontological Society of India (PSI).**

Academic Qualification

- Awarded Ph.D. in July 2011 under Dr. Mukund Sharma Scientist (BSIP, Lucknow) and Prof. P.K. Misra (Department of Botany, University of Lucknow) on the topic ***"Palaeobiology of Terminal Proterozoic Bhima Basin, Karnataka"***
- Masters in Science (Botany) from **University of Lucknow** in 2005 (First Division)
- Bachelors in Science from **University of Lucknow** in 2003 (First Division)
- 10+2 from **U.P. Education Board** in 2000 (First Division)
- 10th from **U.P. Education Board** in 1998 (First Division)

Publications

1. Chethan Kumar, **Yogmaya Shukla**, Mukund Sharma et al., 2023. A new find of Neoarchaean stromatolites from the Dharwar Supergroup, India. ***Current Science***, 125(4): 435-441.

2. Mukund Sharma, **Yogmaya Shukla** and V.N. Sergeev, 2021. Microfossils from the Krol 'A' of the Lesser Himalaya, India: Additional supporting data for its early Ediacaran age. ***Palaeoworld,*** 30(4): 610-626.

3. Lan Z, Zhang S, Li XH, Pandey SK, Sharma M, **Yogmaya Shukla**, Ahmad S, Sarkar S and Mingguo Zhai, 2021. Reply to "Towards resolving the 'jigsaw puzzle' and age-fossil inconsistency within east Gondwana: A comment by Bickford & Basu (2020). ***Precambrian Research***, 352, 105900.

4. Yogesh Kumar, **Yogmaya Shukla**, Veeru Kant Singh, Mukund Sharma and Shreerup Goswami (2021). Confocal Laser Scanning Microscopy (CLSM) of newly recovered microfossil assemblage from the Kurnool Group, South India: New insights on microfossil morphology. ***Journal of the Palaeontological Society of India*****,** 66(2): 258-270.

5. Mukund Sharma, Veeru Kant Singh, Santosh Kumar Pandey, Arif H. Ansari, **Yogmaya Shukla**, Shamin Ahmad, Yogesh Kumar and Divya Singh (2021). Precambrian and early Cambrian palaeobiology of India: *Quo vadis*. ***Proceedings of Indian National Science Academy,*** 1-35.

6. **Yogmaya Shukla**, Mukund Sharma, Nora Noffke and Flavia Callefo, 2020. Biofilm microfacies in phosphoritic units of the Neoproterozoic Halkal Shale, Bhima basin, South India. ***Precambrian Research***. 349: 105501

7. **Yogmaya Shukla** and Mukund Sharma, 2020. Egg-carton' shaped plausible organo-sedimentary structure from the Archaean Chitradurga Group, Dharwar Supergroup, south India. ***International Journal of Earth Sciences****,* 109: 931-932*.*

8. **Yogmaya Shukla** and Mukund Sharma, 2020. Ediacaran discs from the Bhima Group, Karnataka, south India. ***Journal of the Geological Society of India****,* 95: 483-490*.*

9. Lan Z, Zhang S, Li XH, Pandey SK, Sharma M, **Yogmaya Shukla**, Ahmad S, Sarkar S and Mingguo Zhai, 2020. Towards resolving the 'jigsaw puzzle' and age-fossil inconsistency within East Gondwana. ***Precambrian Research,*** 345: 105775**.**

10. **Yogmaya Shukla**, Mukund Sharma and V.N. Sergeev, 2020. Organic walled microfossils from the Neoproterozoic Owk Shale, Kurnool Group, South India. ***Palaeoworld,*** 30(4): 610-626.

11. Mukund Sharma and **Yogmaya Shukla**. 2016. The palaeobiological remains of the Owk Shale, Kurnool Basin: A discussion on the age of the basin. ***Journal of the Palaeontological Society of India*****,** 61(2): 175-187.

12. Mukund Sharma, Meera Tiwari, Shamim Ahmad, Rajita Gautam, Bandana Shukla, V. K. Singh, S. K. Pandey, A.H. Ansari and **Yogmaya Shukla**, 2016. Palaeobiology of Indian Proterozoic and Early Cambrian successions-recent developments. ***Proceedings of Indian National Science Academy***, 80(3): 559-579.

13. Vladimir N. Sergeev, Mukund Sharma and **Yogmaya Shukla,** 2012. Proterozoic Fossil Cyanobacteria **.** ***Palaeobotanist***, 61:189-358.

14. Mukund Sharma, S Kumar, Meera Tiwari, **Yogmaya Shukla**, S.K. Pandey, Purnima Srivastava and Santanu Banerjee, 2012. Palaeobiological Constraints and the Precambrian Biosphere: Indian Evidence. ***Proceedings of Indian National Science Academy***, 78(3): 407-422.

15. Mukund Sharma and **Yogmaya Shukla,** 2012. Occurrence of helically coiled microfossil *Obruchevella* in the Owk Shale of the Kurnool Group and its significance.***Journal of Earth System Science,*** 121(3): 755-768.

16. Mukund Sharma and **Yogmaya Shukla**, 2012. Megascopic carbonaceous compression fossils from Neoproterozoic Bhima Basin, Karnataka, South India. ***Geological Society, London, Special publication,*** 366: 277-293.

17. Mukund Sharma, Usha Bajpai, **Yogmaya Shukla** and Manoj Shukla, 2010. Ultrastructure and morphological studies of Early Mesoproterozoic *Chuaria circularis*: A case study from the Vindhyan Supergroup. ***Journal of the Palaeontological Society of India***, 55(1): 51-58.

18. Mukund Sharma and **Yogmaya Shukla**. 2009. The Evolution and Distribution of Life in the Precambrian Eon. ***Journal of Biosciences***, 34: 765-776.

19. Mukund Sharma and **Yogmaya Shukla,** 2009. Mesoproterozoic coiled megascopic fossil *Grypania spiralis* from the Rohtas Formation, Semri Group, Bihar, India. ***Current Science***, 96 (12): 1636-1640.

20. Mukund Sharma, Sanjay Mishra, Suryendu Dutta, Santanu Banerjee and **Yogmaya Shukla,** 2009**.** On the affinity of *Chuaria* – *Tawuia* complex: A multidisciplinary study. ***Precambrian Research,*** 173(1-4): 123-136.

21. Mukund Sharma and **Yogmaya Shukla,** 2009. Taxonomy and affinity of Early Mesoproterozoic megascopic helically coiled and related fossils from the Rohtas Formation, the Vindhyan Supergroup, India. ***Precambrian Research***, 173(1-4): 105-122.

22. Vladimir N. Sergeev, Mukund Sharma and **Yogmaya Shukla**, 2008. Mesoproterozoic silicified microbiotas of Russia and India—Characteristics and Contrasts. ***Palaeobotanist***, 57: 323-358.