CURRICULUM VITAE

DR. MOHAMMAD FIROZE QUAMAR

Scientist "E"

Quaternary Palynology Laboratory,

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Research interest/Areas of specialization:

- Understanding the hydro-climate changes and corresponding vegetation dynamics during the Holocene, based mainly on pollen records, from the central Indian Core Monsoon Zone (CMZ), and also from the Himalayas, India
- Understanding the climate-culture relationships, as well as the (other) drivers of societal collapse
- Non-pollen palynomorphs (NPP, especially the spores of coprophilous fungi: SCF ; spores of dung fungi: SDF or corprophilous fungal spores: CFS) study for understanding the dietary habit of the grazing animals (grazing activity and presence of herbivores), as well as the human impact on the vegetation around the landscape of the respective study areas during the Holocene in central India and also in the Himalaya, India
- Studies on the pollen morphology of modern plants of tropical deciduous forests (both moist and dry types), based on observations from the LM, CLSM, and FESEM, with respect to their taxonomy and systematics, evolution and phylogeny, as well as preservation

- Melissopalynology for understanding the plant pollen (regional vegetation types and environmental conditions too) and nectar source, purity (of honey), as well as for looking into the feasibilities of establishing the apiary/apiculture industry

Academic Qualification:

Examination Passed	Board/College/ University	Year/Year of Passing (owing to the late Session)	Division	Percentage
Matriculation (10^{th})	BSEB, Patna, Bihar	1994/1995	1^{st}	73. 44%
Intermediate (I. Sc. – Biology; 12^{th})	BIEC, Patna, Bihar	1996/1997	2^{nd}	55. 00%
B.Sc. (Hons.), Botany	R.D.S. College/B.R.A. Bihar University Muzaffarpur, Bihar	1999/2000	1^{st}	74. 62%
M.Sc. Botany (Plant Biotech. – Specialization)	University Deptt. of Botany/B.R.A. Bihar University, Muzaffarpur, Bihar	2001/2004	1^{st}	72. 68%
Pre-Ph.D. (RET)	B.R.A. Bihar University, Muzaffarpur, Bihar	2005/2005	Qualified	
Ph.D. (Botany)	University of Lucknow, Lucknow, U.P.	2011		Awarded

Category: General

Ph.D. Thesis:

Title of Ph.D. Thesis: "*Reconstruction of Quaternary vegetation succession and climate change in central India, based on pollen proxy records*''

Ph.D. Supervisor: Dr. Mohan Singh Chauhan, Scientist "E" (Superannuated as Scientist "F' on 31st December, 2015), BSIP, Lucknow, India

Date of Award: 1st September, 2011, University of Lucknow, Lucknow, India

Details of research career in the Institute:

Organisation Where worked	Period From To	Post Held	Pay-Scale	Nature of Duties
Birbal Sahni Institute of Palaeobotany	23.04.2007 -22.04.2009	Birbal Sahni Research Scholar (BSRS-JRF)	12,000/- +HRA	Research
Birbal Sahni Institute of Palaeobotany	23.04.2009 -22.04.2011	Birbal Sahni Research Scholar BSRS-SRF)	14,000/ and 18,000-+HRA	Research
Birbal Sahni Institute of Palaeobotany	31.05.2011 - 29.10.2013	Birbal Sahni Research Associate (BSRA)	22,000/- +HRA; 23,000/- +HRA	Research
Birbal Sahni Institute of Palaeobotany/Palaeosciences	29.10.2013 - 31.12.2016	Scientist 'B'	15600-39100	Research
Birbal Sahni Institute of Palaeosciences	01.01.2017 - 31.12.2020	Scientist 'C'	15600-39100 Pay Level 11	Research
Birbal Sahni Institute of Palaeosciences	01.01.2021 - 31.12.2024	Scientist 'D'	Pay Level 12	Research
Birbal Sahni Institute of Palaeosciences	01.01.2025 - till date	Scientist 'E'	Pay Level 13	Research

PUBLICATIONS

Refereed SCI Journals (published/in press/accepted):

(* indicates the name of the Corresponding Author[s])

2024

1. **Mohammad Firoze Quamar***, Upasana Swaroop Banerji*, Biswajeet Thakur, Ratan Kar. 2024. Hydroclimatic changes in the Core Monsoon Zone of India since the Last Glacial Maximum: an overview of the palynological data and correlation with the marine and continental records. ***Palaeogeography, Palaeoclimatology, Palaeoecology*** 633, 111844. https://doi.org/10.1016/j.palaeo.2023.111844
2. Tarannum Jahan*, **Mohammad Firoze Quamar***. 2024. The '4.2 ka drought event' and the fall of the Harappan Civilization: A critical review. ***Review of Palaeobotany and Palynology*** 331, 105187. https://doi.org/10.1016/j.revpalbo.2024.105187
3. **Mohammad Firoze Quamar***, Amit Kumar Mishra, Ruchika Bajpai Mohanty, Ratan Kar*. 2024. Implication of *Pinus* L. pollen abundance for reconstructing the Holocene palaeoclimate from the Himalayas, India. ***Review of Palaeobotany and Palynology*** 326, 105130. https://doi.org/10.1016/j.revpalbo.2024.105130
4. **Mohammad Firoze Quamar***, Jyotsna Dubey, Pooja Tiwari, Prasanta Kumar Das, Biswajeet Thakur, Mohammad Javed, Nagendra Prasad, Maneesha M ET, Satish J. Sangode. 2024. Hydro-climatic changes revealed by multiple proxies since the Last Glacial Maximum from the Core Monsoon Zone of India. ***Quaternary*** 7, 52. https://doi.org/10.3390/quat7040052
5. Nagendra Prasad, **Mohammad Firoze Quamar***, Maneesha M. ET, Pooja Tiwari, Biswajeet Thakur, Anupam Sharma, Binita Phartiyal, Mohammad Javed. 2024. Late Holocene vegetation history and monsoonal climate change from the Core Monsoon Zone of India. ***Catena*** 246, 118394. https://doi.org/10.1016/j.catena.2024.108394
6. Ruchika Bajpai Mohanty*, Amit Kumar Mishra, Kriti Mishra, Akhilesh Kumar Yadav, **Mohammad Firoze Quamar**, Ishwar Chandra Barua, Ratan Kar*. 2024. Early onset of aridity in the past millennium: insights from vegetation dynamics

and climate change in the alpine, cold-desert region of Trans Himalaya, India. ***PLoS ONE*** 19(1): e0295785.

7. Jyotsna Dubey*, S.N. Ali, **Mohammad Firoze Quamar**, Priyanka Singh, P. Morthekai, Ruby Ghosh, Anupam Sharma, Srivastava V. 2024. Vegetation diversity in response to the monsoonal variability in the Eastern Himalaya over the past ~13 000 cal yrs. ***The Holocene*** 34(7), 921-940.
8. **Mohammad Firoze Quamar***, Ratan Kar, Biswajeet Thakur. 2024. Modern pollen and non-pollen palynomorphs from sub-tropical central India: Discerning anthropogenic signal in surface pollen assemblages. ***Grana*** 63(4), 303-327. DOI: 10.1080/00173134.2024.2350537
9. **Mohammad Firoze Quamar***, Biswajeet Thakur*, Anupam Sharma, Kamlesh Kumar, Pooja Tiwari, Arvind Tiwari, Nagendra Prasad, Jyoti Srivastava, Binita Phartiyal, M.C. Manoj, Ipsita Roy, Pooja Nitin Saraf, K. Prasanna, Nazakat Ali, Ikram Khan, Shilpa Pandey, Anjali Trivedi. 2024. Biotic and abiotic responses deduced through spatially distinct surface samples to reconstruct palaeoecology and palaeoclimate of the Core Monsoon Zone, central India. ***Journal of the Palaeontological Society of India***. 1-16. DOI: 10.1177/05529360241240095
10. Mohammad Javed, Nagendra Prasad, Anjum Farooqui, **Mohammad Firoze Quamar***, Munendra Singh. 2024. Taxonomic insights into medicinal plants pollen, using advanced microscopy techniques, from the Western Ghats, India. ***Grana*** 63(4), 275-288. DOI:10.1080/00173134.2024.2391515.
11. Prasanna K*, Amrita Sarkar, Anupam Sharma, Manoj M.C., Swati Tripathi, Biswajeet Thakur, Sadhan Kumar Basumatary, Kamlesh Kumar, Parminder Singh Ranhotra, Shilpa Pandey, Anjali Trivedi, **Mohammad Firoze Quamar**, Jyoti Srivastava, Ishwar Chandra Rahi, 2024. Heavy metal pollutants and their spatial distribution in surficial sediments from the Gangetic Plains, Central, and Western parts of India. ***Soil and Sediment Contamination*: *An International Journal*** (Taylor and Francis) DOI: 10.1080/15320383.2024.2395948
12. Pooja Nitin Saraf, Jyoti Srivastava*, François Munoz, Bipin Charles, Pujarini Samal, **Mohammad Firoze Quamar**. 2024. Using proxy data and vegetation

modelling to predict past, current and future distributional shifts of *Butea monosperma*, a marker of land degradation in India. ***Journal of the Palaeontological Society of India***: 1–15. DOI: 10.1177/05529360241240092

13. Pooja Nitin Saraf, Jyoti Srivastava*, François Munoz, Bipin Charles, Pujarini Samal, **Mohammad Firoze Quamar**. 2024. Ecological niche modelling to project past, current and future distributional shift of black ebony tree *Diospyros melanoxylon* Roxb. in India. ***Nordic Journal of Botany*** e04266. https://doi.org/10.1111/njb.04266

2023

1. **Mohammad Firoze Quamar***, Ishfaq Ahmad Mir*, Jooly Jaiswal, Nisha Bharti, Ankur Dabhi, Ravi Bhushan, Nagendra Prasad, Mohammad Javed. 2023. Hydro-climatic variability and consequent vegetation response during CE 1219–1942 from the Western Ghats, India. ***Catena*** 232, 107448.
2. **Mohammad Firoze Quamar***, Anoop K. Singh, Lalit Mohan Joshi, Bahadur Singh Kotlia, Dhruv Sen Singh, Corina Anca Simion, Tiberiu Sava, Nagendra Prasad. 2023. Vegetation dynamics and hydro-climatic changes during the Middle Holocene from the Central Himalaya, India. ***Quaternary*** 6, 11. https://doi.org/10.3390/quat6010011
3. Arti Garg, Priyanka Singh, **Mohammad Firoze Quamar** *. 2023. Pollen morphology of family Thymelaeaceae Juss. in India and its taxonomic implications . ***Flora*: *Morphology. Distribution. Functional Ecology of Plants*** 303, 152291.
4. Nagendra Prasad, **Mohammad Firoze Quamar***. 2023. Modern pollen-vegetation relationship from the Mahasamund District (Chhattisgarh), central India: implications in palaeoecological reconstruction. ***Grana*** 62 (5–6), 317–330. DOI:10.1080/00173134.2023.2280579

2022

1. **Mohammad Firoze Quamar***, Ratan Kar. 2022. Agricultural practices in Indian during the Holocene: A pollen view point and a critical appraisal. ***The Holocene*** 32 (11), 1340-1357. DOI: 10.1177/09596836221114286

2. **Mohammad Firoze Quamar***. 2022. Monsoonal climatic reconstruction from central India during the last ca. 3600 cal yr: Signatures of global climatic events, based on lacustrine sediment pollen records. ***Palynology*** 46 (1), 930605. https://doi.org/10.1080/01916122.2021.1930605
3. **Mohammad Firoze Quamar***. 2022. Modern pollen-vegetation relationship from the Rourkela (Sundargarh District), Odisha, India: a preliminary study and a comparative account, ***Palynology*** 46 (3), 2050321 https://doi.org/10.1080/01916122.2022.2050321
4. Ratan Kar*, Kriti Mishra, **Mohammad Firoze Quamar**, Ruchika Bajpai Mohanty, Shailesh Agarwal, Swati Tripathi, Amit K. Mishra. 2022. A high-altitude calibration set of modern biotic proxies from the Western Himalaya, India: pollen–vegetation relation, anthropogenic and palaeoclimatic implications. ***Catena*** 211, 106011.
5. **Mohammad Firoze Quamar** *, Priyanka Singh, Arti Garg, Swati Tripathi, Anjum Farooqui*, Achuta Nand Shukla, Nagendra Prasad. 2022. Pollen characters and their evolutionary and taxonomic significance: Using light and confocal laser scanning microscope to study diverse plant pollen taxa from central India. ***Palynology*** 46 (4), 2070294 DOI: 10.1080/01916122.2022.2070294

2021

1. **Mohammad Firoze Quamar***, Ratan Kar, Biswajeet Thakur. 2021. Vegetation response to the Indian Summer Monsoon (ISM) variability during the Late Holocene from the central Indian core monsoon zone. ***The Holocene*** 31(7), 1197-1211
2. **Mohammad Firoze Quamar***, Bera S.K. 2021. A 8400-year pollen record of vegetation dynamics and Indian Summer Monsoon climate from the central India: Signatures of global climatic events. ***Journal of the Palaeontological Society of India*** 66 (1), 12-22.
3. **Mohammad Firoze Quamar***, Normunds Stivrins. 2021. Modern pollen and non-pollen palynomorphs along an altitudinal transect in Jammu and Kashmir (Western Himalaya), India. ***Palynology*** 45 (4), 669-684. https://doi.org/10.1080/01916122.2021.1915402

2020

1. **Mohammad Firoze Quamar***, Bera S.K. 2020. Pollen records of vegetation dynamics, climate change and ISM variability since the LGM from Chhattisgarh State, central India. ***Review of Palaeobotany and Palynology*** 278, **104237** https://doi.org/10.1016/j.revpalbo.2020.104237
2. **Mohammad Firoze Quamar***, Kar, Ratan. 2020. Prolonged warming over the last ca. 11,700 years from the central Indian Core Monsoon Zone: Pollen evidence and a synoptic overview. ***Review of Palaeobotany and Palynology*** 276, **104159** DOI: https://doi.org/10.1016/j.revpalbo.2020.104159
3. **Mohammad Firoze Quamar***. 2020. Surface pollen distribution from Akhnoor of Jammu District (Jammu and Kashmir), India: implications for the interpretation of fossil pollen records. ***Palynology*** 44 (2), 270-279. DOI: 10.1080/01916122.2019.1568317
4. **Mohammad Firoze Quamar***, Kar Ratan. 2020. Modern pollen dispersal studies in India: a detailed synthesis and review. ***Palynology*** 44 (2), 217-236. DOI: 10.1080/01916122.2018.1557274
5. Ratan Kar*, **Mohammad Firoze Quamar**. 2020. Late Pleistocene-Holocene vegetation and climate change from the Western and Eastern Himalaya (India): palynological perspective. ***Current Science*** 119 (2), 195-218.
6. Ali*, S.N., Shailesh Agarwal, **Mohammad Firoze Quamar**, Jyotsna Dubey , Naveen Chauhan, Pinky Bisht, Pratima Pandey, Md. Arif, Mayank Shekhar, P. Morthekai. 2020. Climate variability in the central Himalaya during the last ~15 kyr: Evidence of precipitation variability from multiproxy studies. ***Journal of The Palaeontological Society of India*** 65 (1), 36-54.
7. Ali*, S.N., **Mohammad Firoze Quamar**, Jyotsna Dubey , P. Morthekai, Pinky Bisht, Pratima Pandey , Mayank Shekhar, Ruby Ghosh*. 2020. Surface pollen distribution in alpine zone of the higher Himalaya: a case study from the Kalla glacier valley, India. ***Botany Letters*** 167 (3), 340-352. https://doi.org/10.1080/23818107.2020.1753567
8. Ali*, S.N., Morthekai, P., Bajpai, S., Phartiyal, B., Sharma, A., **Mohammad Firoze Quamar**, Prizomwala, S. 2020. Redefining the timing of Tongul glacial

stage in the Suru valley, NW Himalaya, India: New insights from luminescence dating. ***J. Earth Syst. Sci***. 129:16 https://doi.org/10.1007/s12040-019-1280-9

2019

1. **Mohammad Firoze Quamar***. 2019. Vegetation dynamics in response **to** climate change from the wetlands of Western Himalaya, India: Holocene Indian Summer Monsoon variability. ***The Holocene*** 29 (2), 345-362.
2. Ratan Kar, **Mohammad Firoze Quamar***. 2019. Pollen-based Quaternary palaeoclimatic studies in India: an overview of the recent advances**.** ***Palynology*** 43 (1), 76-93.

2018

1. **Mohammad Firoze Quamar***, Ali, S.N., Pandita, S.K., Singh, Y. 2018. Modern pollen rain from Udhampur, Jammu and Kashmir, India: insights into pollen production, dispersal, transport and preservation. ***Palynology***. 42 (1), 55-65. DOI:10.1080/01916/22.2017.1306811
2. **Mohammad Firoze Quamar***, Ali, S.N., Pandita, Sundeep Kumar, Singh, Yudhbir. 2018. Modern pollen assemblages from Reasi (Jammu and Kashmir), India: a tool for interpreting fossil pollen records**.** ***Grana*****.** 57 (5), 364–376.
3. **Mohammad Firoze Quamar***, Bera, Samir K. 2018. Aerobiological implications of the extracted palynomorphs from the modern tree barks of the Korba District, Chhattisgarh, central India. ***Palynology***. 43 (1), 34-42.
4. Ali*, S.N., Dubey J, Ghosh R, **Mohammad Firoze Quamar**, Sharma A, Morthekai P, Dimri A P, Shekhar M, Arif Md., Agrawal S. 2018. High frequency abrupt shifts in the Indian summer monsoon since Younger Dryas in the Himalaya. ***Scientific Reports*** | (2018) 8:9287 | DOI:10.1038/s41598-018-27597-6

2017

1. **Mohammad Firoze Quamar***, Ali, S.N., Morthekai, P. Singh, Veeru Kant. 2017. Confocal (CLSM) and light (LM) microphotographs of different plant taxa from Lucknow, India: Implications of pollen morphology for systematics,

phylogeny and preservation. ***Review of Palaeobotany and Palynology*** 247, 105-119. http://doi.org/10.1016/j.revpalbo.2017.09.005

2. **Mohammad Firoze Quamar***, Nautiyal, C.M. 2017. Mid-Holocene pollen records from southwestern Madhya Pradesh, central India and their palaeoclimatic significance. ***Palynology*** 41 (3), 401-411. DOI:10.1080/01916122.2016.1219973
3. **Mohammad Firoze Quamar***, Bera, S.K. 2017. Pollen records related to vegetation and climate change from northern Chhattisgarh, central India during the Late Quaternary. ***Palynology*** 41 (1), 17-23. DOI: http://dx.doi.org/10.1080/01916122.2015.1077172
4. **Mohammad Firoze Quamar***, Ali, S.N.*, Nautiyal, C.M., Bera, S.K. 2017. Vegetation and climate reconstruction based on a ~4 ka pollen record from north Chhattisgarh, central India. ***Palynology*** 41 (4), 504-515. DOI**:** 10.1080/01916122.2017.1279236
5. **Mohammad Firoze Quamar***, Bera, S.K. 2017. Do the common natural pollen trapping media behave similarly? A comparative study of modern palynoassemblages from Chhattisgarh, central India. ***Quaternary International*** 444, 217-226. http://dx.doi.org/10.1016/j.quaint.2016.04.041
6. **Mohammad Firoze Quamar***, Bera, S.K. 2017. Pollen analysis of the modern tree bark samples from the Manendragarh Forest Range of the Koriya district, Chhattisgarh (India). ***Grana*** 56 (2), 137-146.
7. Dubey, J., Ghosh R., Agarwal S., **Mohammad Firoze Quamar**, Morthekai P., Sharma A., Gautam RK., Srivastava V., Ali*, S.N. 2017. Characteristics of modern biotic data and their relationship to vegetation of the Alpine zone of Chopta valley, North Sikkim, India: implications for palaeovegetation reconstructtion. ***The Holocene*** 28 (3), 363-376. https://doi.org/10.1177/09596836177294

2016

1. **Mohammad Firoze Quamar***, Bera S.K. 2016. Pollen analysis of spider web samples from Korba District, Chhattisgarh (central India): An aerobiological aspect. ***Aerobiologia*** 32, 645-655. DOI: 10.10007/s 10453-016-94382

2. **Mohammad Firoze Quamar***. 2015. Non-pollen palynomorphs from the Late Quaternary sediments of southwestern Madhya Pradesh (India) and their palaeoenvironmental implications. ***Historical Biology*** 27 (8), 1070-1078.

2015

1. **Mohammad Firoze Quamar***, Chauhan, M.S. 2015. Pollen-based vegetation and climate change in southwestern Madhya Pradesh, central India during the last 3300 years. ***Journal of The Palaeontological Society of India***. 60 (2), 47-55
2. **Mohammad Firoze Quamar***, Bera, S.K. 2015. Modern pollen-vegetation relationship in tropical deciduous forest of Koriya District, Chhattisgarh, India. ***Grana*** **54** (1), 45-52. http://dx.doi.org/10.1080/00173134.2014.946443

2014

1. **Mohammad Firoze Quamar***, Chauhan, M.S. 2014. Signals of Medieval Warm Period and Little Ice Age from southwestern Madhya Pradesh (India): A pollen-inferred Late-Holocene vegetation and climate change. ***Quaternary International*** **325**, 74-82.
2. **Mohammad Firoze Quamar*,** Bera, S.K. 2014. Vegetation and climate change during the mid and late Holocene in northern Chhattisgarh, central India inferred from pollen records. ***Quaternary International*** **349**, 357-366
3. **Mohammad Firoze Quamar***, Bera, S.K. 2014. Pollen production and depositional behaviour of teak (*Tectona grandis* Linn. f.) and sal (*Shorea robusta* Gaertn. f.) in tropical deciduous forest of Madhya Pradesh (India): An overview. ***Quaternary International*** **325**, 111-115.
4. **Mohammad Firoze Quamar***, S.K. Bera. 2014. Surface pollen and its relationship with modern vegetation in tropical deciduous forests of south-western Madhya Pradesh, India: a review. ***Palynology***, 38 (1), 147-161.

2013

1. Chauhan, M.S., Kumar, K., **Mohammad Firoze Quamar***, Sharma, A. 2013. Correlation of data on loss-on-ignition and palynology for climate change in southwestern Madhya Pradesh, India. ***Current Science.*** **104** (3), 299-301.

2012

1. **Mohammad Firoze Quamar***, Chauhan, M.S. 2012. Late Quaternary vegetation, climate, as well as lake-level changes and human occupation from Nitaya area in Hoshangabad District, southwestern Madhya Pradesh (India), based on pollen evidence. ***Quaternary International***. **263**, 104-113.
2. Chauhan*, M.S., **Mohammad Firoze Quamar**. 2012. Pollen records of vegetation and inferred climate changes in southwestern Madhya Pradesh (India) since the last ca. 3800 yrs. ***Jour. Geol. Soc. India.*** **80,** 470-480.
3. Chauhan*, M.S., **Mohammad Firoze Quamar**. 2012. Mid-Holocene vegetation vis-à-vis climate change in southwestern Madhya Pradesh. ***Current Science.*** **103** (12), 1455-1461.

2011

1. **Mohammad Firoze Quamar***, Chauhan, M.S. 2011. Pollen analysis of spider web samples from Harda District, Madhya Pradesh. ***Current Science***. **101** (12), 1586-1592.

2010

1. Chauhan*, M.S., **Mohammad Firoze Quamar**. 2010. Vegetation and climate change in southeastern Madhya Pradesh during late Holocene, based on pollen evidence. ***Jour. Geol. Soc. India***. **76**, 143-150.

Refereed Non-SCI Journals (published/in press/accepted):

2024

1. **Mohammad Firoze Quamar***, Nagendra Prasad, Mohammad Javed, Salman Khan. 2024. Taxonomic implications of the palyno-morphological study of the

cultivars of *Catharanthus roseus* (L.) G. Don from Lucknow, India. ***Geophytology*** 54(2), 239-252.

2023

1. Sumayia Farooqui, **Mohammad Firoze Quamar***, Anjum Farooqui, Rajesh Agnihotri, Salman Khan. 2023. Palynomorphological and isotopic characterization of monofloral and multifloral honeys from Lucknow, India. ***Journal of Palaeosciences*** 72 (2), 91-118.

2022

1. **Mohammad Firoze Quamar** *, Arti Garg, Anjum Farooqui*, Nagendra Prasad, Salman Khan, Achuta Nand Shukla. 2022**.** A new pollen aperture in *Schleichera oleosa* (Lour.) Oken from Madhya Pradesh, central India and its taxonomic and evolutionary significance. ***International Journal of Plant and Environment.*** 8(2), 133-136.
2. Tripathi*, S., Srivastava, J*., Garg, A*., Khan S., Farooqui, A., **Mohammad Firoze Quamar**, Thakur S., Ranhotra P.S., Basumatary S.K., Trivedi, A., Pandey, S., Anupama, K., Prasad, S., Reghu, N. 2022. Surface pollen quantification and floristic survey at Shaheed Chandra Shekhar Azad (SCSA) Bird Sanctuary, Central Ganga Plain, India: a pilot study for the palaeoecological implications. ***Journal of Palaeosciences*** 71(2), 159–176.
3. Ali*, S.N., Singh R, Morthekai P, Sharma A, Phartiyal B, **Mohammad Firoze Quamar**, Kumar R, Arora P. 2022. Perception of climate change from the Himalayan 'cold desert' Ladakh, India. ***Journal of Palaeosciences*** 71(1), 89–111.
4. **Mohammad Firoze Quamar***. 2022. Late Holocene vegetation dynamics and monsoonal climatic changes in Jammu, India. ***Acta Palaeobotanica*** 62 (1), 36-49.

2021

1. **Mohammad Firoze Quamar*,** Pooja Tiwari, Biswajeet Thakur. 2021. The modern pollen-vegetation relationship from Jammu, India: a comparative appraisal. ***Acta Palaeobotanica*** 61 (1), 1-19.

2. **Mohammad Firoze Quamar***, Biswajeet Thakur, VeeuKant Singh, Santosh Kumar Pandey. 2021. Pollen heteromorphism in *Schleichera* Lour., observed in surface soil samples, from central India. ***Acta Palaeobotanica*** 61 (1), 32-41.

2020

1. **Mohammad Firoze Quamar***, Amit Kumar Mishra, Ratan Kar. 2020. Vegetation vis-à-vis climatic changes from the Himalaya, over the last 75000 years, as revealed by palynological studies. ***Indian Journal of Archaeology*** 5 (3), 1-13.

2019

1. **Mohammad Firoze Quamar***. 2019. Palynological study of surface soil samples from the Kartala Forest Range of the Korba District, Chhattisgarh, central India: Modern pollen-rain/vegetation relationship. ***Geophytology*** 49 (1&2), 37-48.

2018

1. Ali*, S.N., **Mohammad Firoze Quamar**, Binita Phartiyal and Anupam Sharma. 2018. Need for permafrost researches in Indian Himalaya. ***Journal of Climate Change***, Vol. 4, No. 1 pp. 33-36.

2017

1. **Mohammad Firoze Quamar***. 2017. A review on the modern pollen and vegetation relationship studies from eastern Madhya Pradesh, central India. ***Journal of Geosciences Research*** (**Formerly *Gondwana Geological Magazine*)** 2 (1), 17-28.

2016

1. **Mohammad Firoze Quamar***, Bera, S.K. 2016. Study on modern pollen assemblages to interpret palaeoclimate in tropical deciduous forest of Chhattisgarh, central India. ***Journal of Geosciences Research*** (**Formerly *Gondwana Geological Magazine*)**. 1 (2), 165-173**.**
2. **Mohammad Firoze Quamar***, Ali, S. Nawaz, Phartiyal, B., Morthekai, P., Sharma, A. 2016. Recovery of palynomorphs from the high-altitude cold desert of Ladakh, NW India: An aerobiological perspective. ***Geophytology*** 46 (1), 67-73.

2015 -Nil-

2014

1. **Mohammad Firoze Quamar***, Bera, S.K. 2014. Evidence of low pollen dispersal efficiency of sal *(Shorea robusta* Gaertn. f.): Modern pollen rain study from Manendragarh area of Koriya District, Chhattisgarh (India). ***Journal of Applied Bioscience*** **40 (2)**, 92-97.
2. **Mohammad Firoze Quamar***, Bera S.K. 2014. Ethno-medico-botanical studies of plant resources of Hoshangabad District, Madhya Pradesh, India: Retrospect and Prospects. ***Journal of Plant Science and Research,*** 1 (1), 1-11.

2013

1. **Mohammad Firoze Quamar***, Chauhan, M.S. 2013. Modern pollen assemblage from mixed tropical deciduous teak (*Tectona grandis* Linn. f.) dominating forests in southwestern Madhya Pradesh, India. ***Palaeobotanist.*** **62**, 29-37.
2. Chauhan*, M.S., **Mohammad Firoze Quamar**. 2013. Pollen rain deposition pattern in tropical deciduous sal (*Shorea robusta*) forests in Shahdol District, southeastern Madhya Pradesh, India. ***Palaeobotanist.*** **62**, 47-53.
3. **Mohammad Firoze Quamar*** & Chauhan, M.S. 2013. Modern pollen assemblage from surface samples and its relationship to vegetation in Sehore District, southwestern Madhya Pradesh, India. ***Geophytology***. **43**, 125-132.
4. **Mohammad Firoze Quamar***, Chauhan, M.S. 2013. Pollen morphological studies of some important tropical plants of Lucknow, Lucknow (Uttar Pradesh), India. ***Journal of Palynology***. **49**, 7-18.
5. **Mohammad Firoze Quamar***, Jyoti Srivastava 2013. Modern pollen rain in relation to vegetation in Jammu, Jammu and Kashmir, India. ***Journal of Palynology***. **49**, 19-30.

2012

1. **Mohammad Firoze Quamar***, Chauhan, M.S. 2011. Late Holocene vegetation, climate change and human impact in southwestern Madhya Pradesh, India, ***Palaeobotanist.*** **60** (2), 281-289.

2. **Mohammad Firoze Quamar***, Chauhan, M.S. 2011. Modern pollen spectra from Hoshangabad District in southwestern Madhya Pradesh, India. ***Geophytology***. **41** (1-2), 55-60.

2011 -Nil-

2010

1. **Mohammad Firoze Quamar***, Chauhan, M.S. 2010. Modern pollen rain-vegetation relationship in the tropical deciduous teak (*Tectona grandis* Linn. f.) forest in Southwestern Madhya Pradesh. ***Geophytology***, **38** (1-2), 57-64**.**
2. Chauhan*, M.S., **Mohammad Firoze Quamar**. 2010. Melissopalynological studies of honey from Harda District, Madhya Pradesh. ***Phytomorphology***, **60** (3&4), 122-127.

2009 -Nil-

2008 -Nil-

2007

1. **Mohammad Firoze Quamar** *, Chauhan, M. S. 2007. Modern pollen vegetation relationship in tropical mixed deciduous forest in District Umaria, Madhya Pradesh. ***Jour. Palynol.***, **43**, 39-55. (Published in 2010)

Book chapters (published/in press/accepted):

1. **Mohammad Firoze Quamar***. 2024. Palynological perspective on understanding climate change in India over the pre-industrial Common Era: a comprehensive review and a critical evaluation. In: In: B. Samant and D. Thakre (eds.), ***Applications of Palynology in Stratigraphy and Climate Studies***, 205-232. Society of Earth Scientists Series, Springer Nature: Switzerland https://doi.org/10.1007/978-3-031-51877-5_7 **(Review Article)**

2. **Mohammad Firoze Quamar***. 2022. Holocene vegetation and climate change from central India: An updated and a detailed pollen-based review. In: Kumaran KPN & Padmalal D (eds). ***Holocene Climate Change and Environment***. Elsevier: London (Book Chapter) **(Review Article)**

Meeting Reports/News:News and Notes:

1. Meghna Agarwala*, Prabhakaran Ramya Bala, Charuta Kulkarni, Raman Sukumar, **Mohammad Firoze Quamar**, Balasubramanian Karthick, Swati Tripathi, Anupama K. 2024. Learning from the past: Collaborating across times for landscape management for conservation. ***Current Science***, 127(8), 893-894.
2. **Mohammad Firoze Quamari*.** 2024. XXIst INQUA Congress 2023: Time for Change. ***Jour. Geol. Soc. India***, 100(7), 1067-1067.
3. **Mohammad Firoze Quamar***, Gaurav Srivastava, Niraj Rai, Bhavna Ahlawat. 2024. Emerging insights on human histories and past environments in South Asia. ***Jour. Geol. Soc. India***, 100(3), 455-455.
4. Pooja Tiwari*, D.P. Mishra, Samaya S. Humane, **Mohammad Firoze Quamar**, Biswajeet Thakur, Sumedh K. Humane, Ayushi Mishra, Mitra Rajak. 2023. Conventional, renewable energy sources and climate change perspective for energy security in India. ***Jour. Geol. Soc. India***, 99, 1784-1785.
5. **Mohammad Firoze Quamar***, P. Morthekai. 2017. Frontiers in Earth and Climate Science. ***Current Science***. 113 (9), 1650-1651.
6. Shilpa Pandey*, **Mohammad Firoze Quamar**. 2017. India International Science Festival (IISF- 2016), 2016. ***Current Science***, 113 (5), 842-843.
7. **Mohammad Firoze Quamar***, Arindam Chakarborty, Syed Azharuddin. 2016. Micropalaeontology and Stratigraphy, ***Current Science*****,** 110 (10), 1886.
8. V.K. Singh, Anju Saxena, Poonam Verma, Parminder Singh Ranhotra, Deepa Agnihotri, Jyoti Srivastava, , M.C. Manoj, **Mohammad Firoze Quamar***. 2016. India International Science Festival (IISF). 2015. ***Current Science***, 110 (5), 756-757.

9. Swati Tripathi*, **Mohammad Firoze Quamar**, Ruby Ghosh. 2015. The 5th International Conference on the Plants and Environmental Pollution-2014 (5th ICPEP-2014). ***Jour. Geol. Soc. India***, 85, 633-634.
10. **Mohammad Firoze Quamar***. 2013. Conserving biodiversity for sustainable development. ***Current Science***, 105 (12), 1659.
11. Swati Dixit*, **Mohammad Firoze Quamar**, Ratan Kar,. 2013. The 13th International Palynological Congress and 9th International Organization of Palaeobotany Conference-2012, Tokyo, Japan. ***Jour. Geol. Soc. India***, 81, 854-855.

Significant Scientific Reports published in *Quaternary Chronicles* of the AoQR, BSIP

1. **Mohammad Firoze Quamar*. 2024.** Non-pollen palynomorphs (NPPs): Discerning signals of herbivore grazing. ***Quaternary Chronicles*** 6(1), 7-8.
2. **Mohammad Firoze Quamar*. 2023.** Core Monsoon Zone of India, and its significance in palaeoclimatic studies. ***Quaternary Chronicles*** 5(3), 17-18.

Significant Scientific Reports published in e-Hindi Magazine of BSIP

1. **Mohammad Firoze Quamar*.** 2024. *Mukhya Mansoon mandal* (*CMZ*) *mein Bhartiye grishmkaaleen monsoon* (*SWM*/*ISM*) *ki tivra avadhiyon ke prati adhik sanvendansheelta*. ***Puravigyan Smarika*** (e-Hindi Magazine*)* 63-67.
2. **Mohammad Firoze Quamar*.** 2024. Pashchmi Ghat, Bharat (Western Ghats, India) mein laghu himyug **(**Little Ice Age**:** LIA**)** namr tatha adr jalwayu se prabhawit: Praganwik sakshya. ***Puravigyan Smarika*** (e-Hindi Magazine*)* 68-70.

Research Report(s) published at the DST (GoI) Website

1. **Mohammad Firoze Quamar*,** Mir, I.A., Jaiswal, J. Bharti, N., Dabhi, A., Bhushan, R., Prasad, N., Javed, M. 2024. Little Ice Age (LIA) was wet (moist) and was uniformly cold and dry.

Edited Volumes:

1. **Quaternary International** (Elsevier): Title: Quaternary climate in Asia, multiproxy and mathematics; **Guest Editors:** Drs. Upasana S. Banerji, Chandra

Prakash Dubey, Laxmy Pandey, **Md. Firoze Quamar,** Kumar Batuk Joshi, (in progress): 2024.

2. **Quaternary** (MDPI): Title: Vegetation response to the hydro-climatic changes during the late Quaternary; **Guest Editors:** Drs. **Md. Firoze Quamar**, Upasana S. Banerji (in progress): 2024.

<u>Prizes/Medals/Awards/Honours</u>:

1. Received Grants from Prof. Dr. Marie-José Gaillard, Linneaus University, Kalmar, Sweden (also the Co-ordinator of PAGES LandCover6k) for attending General PAGES LandCover6k Workshop at Zaragoza, Spain during May 16-17, 2017.
2. **Dr. Chunnilal Khatiyal Medal 2016, BSIP, Lucknow.**
3. Received Grants from Prof. Dr. Marie-José Gaillard, Linnaeus University, Kalmar, Sweden for attending the *CNRS Summer School on POLQUANT 2016 at Moulis, France during August 28-September 2, 2016* and also, for attending the
4. *Centenary (1916-2016) of Pollen Analysis and the Legacy of Lennart von Post, The Royal Swedish Academy of Sciences, Stockholm, Sweden, November 24-25, 2016*.
5. "**Best Poster (Presentation) Award** (1^{st})" for the poster entitled "Late Holocene vegetation and climate change in south-western Madhya Pradesh, central India, based on pollen evidence: Signals of global climatic events*"* presented at the International Conference on "NECLIME"*,* Birbal Sahni Institute of Palaeosciences, Lucknow, India, February 23-27, 2016.
6. 1^{st} **Paper of the Month Award (POTM Award)-April, 2014**, BSIP, Lucknow (for the paper entitled "Surface pollen and its relationship with modern vegetation in tropical deciduous forests of south-western Madhya Pradesh, India: a review", published in "*Palynology*, 38 (1), 147-161.
7. **Dr. B. S. Venkatachala Memorial (Gold) Medal 2014, BSIP, Lucknow.**
8. "**Best Poster (Presentation) Award** (1^{st})" for the poster entitled "*Modern pollen assemblages of surface samples and their relationships to vegetation and climate at Baikunthpur area of Koriya District, Chhattisgarh (India)"* presented at the

International Conference on "Conserving Biodiversity for Sustainable Development", Department of Biotechnology and Medical Engineering, NIT Rourkela, Odisha (India), August 16-18, 2013.

9. Consolation Prize for the poster entitled "*Modern pollen rain study in the tropical mixed deciduous forest in District Umaria, Madhya Pradesh*" presented in the *XXI Indian Colloquium on Micropalaeontology and Stratigraphy* (21st ICMS), Birbal Sahni Institute of Palaeobotany, Lucknow (U. P., India), November 16-17, 2007.
10. Awarded **Birbal Sahni Research Associateship (BSRA)** by the Birbal Sahni Institute of Palaeobotany, Lucknow (U. P.), India. (May 2011-October 2013).
11. Awarded **Birbal Sahni Research Scholarship (BSRS)** by the Birbal Sahni Institute of Palaeobotany, Lucknow (U. P.), India. (April 2007-April 2011).

Sponsored Project: Completed!!

- **DST** sponsored **Fast Track Young Scientist Project** (2014) on the palaeovegetation and palaeoclimate reconstruction in different areas of Jammu and Kashmir (India), based especially on pollen proxy records. (Ref. No. **SR/FTP/ES-81/2013, dated 20.01.2014**)

Memberships of Societies:

1. Life member: **Palaeobotanical Society of India,** Lucknow.
2. Life member: **Palynological Society of India,** Bangalore.
3. Life member: **Palaeontological Society of India,** Lucknow.
4. Life member: **International Society of Applied Biology**, Lucknow
5. Life member: **Gondwana Geological Society**, Nagpur
6. Member: **NECLIME**
7. Annual member (2011): **International Organization of Palaeobotany (IOP)**, Japan.

Workshop and Training Programme attended:

1. Participated in the PAGES LandCover6k Working Group Meeting and Workshop-cum-Training Programme at the French Institute of Pondicherry (FPI), India during September 11-14, 2019.
2. Participated in a Workshop on Statistical Methods and R Programming for Biologists, organized by Agricultural and Ecological Research Unit, Indian Statistical Institute, Kolkata during March 7-13, 2018.
3. Participated in the INQUA-HaBCom (International Union for Quaternary Research–Humans and the Biosphere Commission) Workshop-cum-Training Programme at French Institute of Pondicherry (FPI), India during January 29 to February 4, 2018.
4. Participated in the International Brainstorming Session and Workshop on the Quaternary environments and climates; Emphasis on Holocene and Anthropocene at the BSIP, Lucknow, India during February 23-25, 2017.
5. Participated in the *CNRS Summer School on POLQUANT 2016* at Moulis, France during August 28-September 2, 2016.
6. Participated in the *EPD Meeting and Training Workshops* at Aix-en-Provence, France during June 1-3, 2016.
7. Participated in the workshop on the "Paleontology and Biostratigraphy" at GSI, Lucknow during May 11-16, 2015.
8. Participated in the workshop on the "Phylogenetic Biology" at BSIP, Lucknow during March 02-04, 2015.
9. 2nd HighNoon Spring School on "Adaptation to changing water resources and water demand with glacier retreat, changing monsoon precipitation and related science policy interaction" at the Department of Civil Engineering, IIT Delhi from February 4 to February 7, 2013. (Sponsored by UKaid Department for International Development).
10. Participated in a training programme on Cenozoic Dinoflagellate cysts from 14th February 2011 to 26th February 2011 at the BSIP, Lucknow.
11. Attended a workshop on "Sedimentology and Sequence Stratigraphy" from 26th Oct. 2009 to 31st October 2009 at the BSIP, Lucknow.

12. Attended *Indo-US Workshop and National Congress on Molecular Biology and Biotechnology*, School of Life Science (SLS), JNU, New Delhi, March 23-28, 2003.

Training imparted:

1. Training on the palynology of surface samples from Akhnoor of the Jammu District, Jammu and Kashmir State (India) was imparted to Mr. Anuj Kumar Tripathi, M.Sc. (Environmental Science; pursuing), CSJM University, Kanpur during the months of March to August, 2020, which led to his M. Sc. Dissertation.
2. Training on the palynology of surface samples from the Kartala Forest Range of the Korba District of Chhattisgarh State (central India) was imparted to Ms. Shruti Pathak, M.Sc. (Geology; pursuing), Bhim Rao Ambedkar University, Lucknow during the months of March to May, 2020, which led to her M. Sc. Dissertation.
3. Training on the palynology of surface samples from the Baramulla District of Jammu and Kashmir State (India) was imparted to Mr. Md. Faisal, M.Sc. (Applied Geology; pursuing), Lucknow University, Lucknow during the months of January to March, 2022, which led to his M. Sc. Dissertation.
4. Training on the palynology of surface samples with implications in palaeoclimate research from the Jammu area of the Jammu and Kashmir State (India) was imparted to Ms. Sania Khan, M.Sc. (Geology; pursuing), Lucknow University, Lucknow during the months of April to June, 2022, which led to her M. Sc. Dissertation.
5. Training on the palynology of surface samples from the Udhampur District of the Jammu and Kashmir State (India) was imparted to Mr. Adithya K. M.Sc. (Marine Geology; pursuing), Cochin University of Science and Technology, Cochin, Kerala during the months of May-June, 2023, which led to his M. Sc. Dissertation.
6. Training on the palynology of surface samples from the Jammu region of the Jammu and Kashmir State (India) was imparted to Ms. Suchitra Agrahari, M.Sc. (Applied Geology; pursuing), Department of Geology, Lucknow University, Lucknow during the months of April to June, 2023, which led to her M. Sc. Dissertation.
7. Training on the palynology of surface samples from the Mahasamund District of Chhattisgarh State, central India was imparted to Mr. Md. Aftab Ahmad, M.Sc.

(Geology; pursuing), Department of Geology, Lucknow University, Lucknow during the months of April to June, 2023, which led to his M. Sc. Dissertation.

8. Training on the palynology of surface samples from the Rann of Kuchchh, Gujarat, India was imparted to Ms. Varsha Maharana, M.Sc. (Geology; pursuing), Department of Geology, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat during the months of October 2023 to February, 2024, which led to her M. Sc. (Geology) Dissertation.
9. Training on the palynology of surface samples from the Hoshangabad District, Madhya Pradesh, India, was imparted to Mr. Ayush Shukla, B.Sc. (Geology; pursuing), Department of Geology, B.B.A.U., Lucknow, during the months of March-April, 2024, which led to his B. Sc. (Geology) Internship.
10. Training on modern pollen deposition pattern around the Amjhera Swamp of the Hoshangabad District, Madhya Pradesh, India was imparted to Ms. Sakshi Awasthi, M.Sc. (Chemistry; pursuing), Department of Chemistry, University of Lucknow, Lucknow, India, during the months of April-May, 2024, which led to her M. Sc. (Chemistry) Dissertation.
11. Training on modern pollen vegetation relationship from the Reasi area of Jammu region (Jammu and Kshmir), India, was imparted to Ms. Swati Singh, M.Sc. (Environmental Science; 4th Sem.), Department of Botany, University of Lucknow, Lucknow, India, during the months of April-June, 2024, which led to her M. Sc. (Environmental Science) Dissertation.
12. Training on the basic know-how of pollen extraction protocol on the surface samples from the Korba District of Chhattisgarh State, India, was imparted to Mr. Anant Kushwaha B.Sc. (Geology; 2nd Sem.), Department of Geology, B.B.A.U., Lucknow, during the months of March-April, 2024, which led to his B. Sc. (Geology) during June 1-30, 2024, which led to his B. Sc. (Geology) Internship.
13. Training on the pollen heteromorphism of *Schleichera oleosa*, was imparted to Ms. Bhargavee, M.Sc. (Botany; 4th Sem.), Department of Botany, University of Lucknow, Lucknow, during July 1-30, 2024, which led to her M. Sc. (Botany) dissertation.

Conferences attended:

1. The XXI *Indian Colloquium on Micropalaentology and Stratigraphy* (21st ICMS), BSIP, Lucknow, Nov. 16-17, 2007.
2. Conference on *Plant Life Through the Ages*, BSIP, Lucknow, Nov. 16-17, 2008.
3. *National Conference and XXVIIIth Convention of Indian Association of Sedimentologists* (IAS-2010), University of Jammu, Jammu, December 22-24, 2010.
4. *National Conference on Science of Climate Change and Earth's Sustainability: Issues and Challenges*, The Society of Earth's Scientists, India, University of Lucknow, Lucknow, September 12-14, 2011.
5. *World Conference on Palaeontology and Stratigraphy* (WCPS 2011). Nakhon Ratchasima Rajabhat University, Thailand, November 28-December 2, 2011.
6. *XXIII Indian Colloquium on Micropalaeontology and Stratigraphy and International Symposium on Global Bioevents in the Earth History* (23rd ICMS*)*, Department of Geology, Bangalore University, Bangalore, December 9, 2011- December 11, 2011.
7. *13th IPC/9th IOPC,* Chuo University, Tokyo (Japan), August 23-30, 2012.
8. International Conference on *PAGES, 4th Open Science Meeting,* Goa, February 13-16, 2013.
9. International Conference on "*Conserving Biodiversity for Sustainable Development*", Department of Biotechnology and Medical Engineering, NIT Rourkela (Odisha, India), August 16-18, 2013.
10. Conclave on "Understanding the Life of Bygone Eras: Emerging Trends", BSIP, November 14-15, 2013,
11. National Conference on Recent Developments in Plant and Earth Sciences (NCRDPES, 2013), BSIP, Lucknow, November 28-29, 2013.
12. National Conference on Sedimentation and Stratigraphy" and XXXI Convention of IAS, Deptt. Of Geology, SPPU, Pune, November 12-14, 2014.
13. Tropical Ecology Congress 2014 (Tropical Ecosystems in a Changing World), School of Environmental Sciences, JNU, New Delhi, December 10-12, 2014.
14. Quaternary Climate Change: New Approaches and Emerging Challenges, BSIP, Lucknow, December 15-16, 2014.
15. ICPEP-5, NBRI, Lucknow, February 24-27, 2015.

16. 1st IISF 2015 at IIT Delhi, December 4-8, 2015.
17. 25th ICMS, Institute of Science, Aurangabad, MS, December 18-20, 2015.
18. ICGEN IAS 2015, Deptt. of Earth Sciences, Annamali University, TN, January 7-10, 2016.
19. 3rd Asian NECLIME Conference, BSIP, Lucknow, India, February, 23-27, 2016.
20. *Centenary* (*1916-2016*) *of Pollen Analysis and the Legacy of Lennart von Post*, The Royal Swedish Academy of Sciences, Stockholm, Sweden, November 24-25, 2016.
21. TWAS-ROCASA Young Scientists' Conclave on "Frontiers on Earth and Climate Sciences" at DCCC, IISc., Bengaluru, India during December 5-7, 2016.
22. 2nd IISF 2016 at NPL, New Delhi, India during December 8-11, 2016.
23. International AvH Kolleg, Kumaun University, Nainital (ATI, Uttarakhand), India during September 25-27, 2019.
24. ICMS 2019, BHU, Varanasi, Uttar Pradesh, India during November 5-7, 2019.
25. Indo-US PICCS, IISER, Mohali, India during Jan 2-4, 2020.
26. ICMS 2021, SPPU, Pune, Maharashtra, India during May 4-6, 2022.
27. Reconstructing the human population histories of South Asia using archaeology and genetics', under the umbrella of "Emerging insights on human histories and past environments in South Asia, University of Kashmir, Srinagar, India during June 7-9, 2023.
28. Conventional, renewable energy sources and climate change perspective', during June 23-24, 2023 at the Hotel Tuli Imperial (Organised by the Gondwana Geological Society and Geological Survey of India), Nagpur, India.
29. XXI Congress of the INQUA 2023 at the Sapienza University of Rome, Italy during July 14-20, 2023.
30. Indian Wildlife Ecology Conference 2024 (IWEC'24) at the TIFR-NCBS, Bangalore (Karnataka) during June 14-16, 2024.
31. 29th ICMS, 2024, DU, New Delhi, India during October 17-19, 2024.
32. 40th Convention of the Indian Association of Sedimentologists (IAS-2024) & National Conference on 'An Odyssey of sedimentology from Precambrian to Anthropocene: Significant contributions in environmental, climatic and energy research' at the DST-BSIP, Lucknow, during December 11-13, 2024.

Papers presented at Conferences/Symposia/Seminars/Colloquia/Meetings:

1. **Quamar, M.F.** & Chauhan, M.S. 2007. Modern pollen rain study in the tropical mixed deciduous forest in District Umaria, Madhya Pradesh. *XXI Indian Colloquium on Micropalaeontology and Stratigraphy*, Birbal Sahni Institute of Palaeobotany, Lucknow, Nov.16-17, 2007.

2. Chauhan, M.S. & **Quamar, M.F.** 2008. Vegetation and climate change in southeastern Madhya Pradesh during late Holocene, based on pollen evidence. *Conf. Plant Life through the Ages,* Birbal Sahni Institute of Palaeobotany, Lucknow, Nov. 16-17, 2008.
3. **Quamar, M.F.** & Chauhan, M.S. 2010. Vegetation and climate oscillations in southwestern Madhya Pradesh during the last 3300 years, based on pollen evidence. *National Conference and XXVIIIth Convention of Indian Association of Sedimentologists* (IAS-2010), University of Jammu, Jammu, December 22-24, 2010.
4. Chauhan, M.S. & **Quamar, M.F.** 2011. Pollen deposition pattern in tropical deciduous sal (*Shorea robusta*) forests in Shahdol District, southeastern Madhya Pradesh, India. National Conference on Science of Climate Change and Earth's Sustainability: Issues and Challenges, The Society of Earth's Scientists, India, University of Lucknow, Lucknow, September 12-14, 2011.
5. **Quamar, M.F.** & Chauhan, M.S. 2011. Mid-Holocene vegetation vis-à-vis climate change in southwestern Madhya Pradesh, India. World Conference on Plaeontology and Stratigraphy (WCPS 2011). Nakhon Ratchasima Rajabhat University, Thailand, November 28-December 2, 2011.
6. **Quamar, M.F.** & Chauhan, M. S. 2011. Late Quaternary vegetation, climate as well as lake-level changes and human occupation in southwestern Madhya Pradesh, India, based on pollen proxy records. *XXIII Indian Colloquium on Micropalaeontology and Stratigraphy* (23rd ICMS), Department of Geology, Bangalore University, Bangalore, December 9-11, 2011.
7. **Quamar Md. Firoze.** 2012. Palynological behaviour of teak (*Tectona grandis* Linn. F.) and sal (*Shorea robusta* Gaertn. F.): An overview. 13th IPC/9th IOPC 2012, Chuo University, Tokyo (Japan), August 23-30, 2012.

8. **Quamar, M.F.** & Chauhan, M.S. 2013. Correlation between pollen spectra and vegetation of southwestern Madhya Pradesh, India. International Conference on *PAGES*, 4th Open Science Meeting, Goa, February 13-16, 2013.
9. **Quamar, M.F.** & Bera, S.K. 2013. Modern pollen assemblages of surface samples and their relationships to vegetation and climate at Baikunthpur area of Koriya District, Chhattisgarh (India). International Conference on "Conserving Biodiversity for Sustainable Development", Department of Biotechnology and Medical Engineering, NIT Rourkela, Odisha, August 16-18, 2013.
10. **Quamar, M.F.** & Bera, S.K. 2013. Evidence of low pollen dispersal efficiency of Sal (*Shorea robusta* Gaertn. f.): A case study from the vegetation of Manendragarh Forest Range, Koriya, Chhattisgarh (India). National Conference on "Recent Developments in Plants and Earth Sciences", BSIP, Lucknow, November 28-29, 2013.
11. **Quamar, M.F.** & Bera, S.K. 2014. An overview on the comparative study of modern palynoassemblages of the natural pollen trapping media from south-western Madhya Pradesh and Chhattisgarh, central India . National Conference on Sedimentation and Stratigraphy" and XXXI Convention of IASs, Deptt. Of Geology, SPPU, **Pune**, November 12-14, 2014.
12. **Quamar, M.F.** & Bera, S.K. 2014.). Pollen analysis of tree bark samples from Manendragarh Forest Range of Koriya district, Chhattisgarh (India). Tropical Ecology Congress 2014 (Tropical Ecosystems in a Changing World), School of Environmental Sciences, JNU, New Delhi, December 10-12, 2014.
13. **Quamar, M.F.** & Bera, S.K. 2014.). Vegetation and climate change during the mid and late Holocene in northern Chhattisgarh, central India inferred from pollen records. Quaternary climate change: New Approaches and Emerging Challenges, **BSIP**, **Lucknow**, December 15-16, 2014.
14. **Quamar, M.F.** & Bera, S.K. 2015. Pollen records of vegetation and climate change in the northern region of Chhattisgarh, India during the Late Quaternary Period: Signatures of global Younger Dryas and Period of Climatic Optimum. ICPEP-5, NBRI, Lucknow. February 24-27, 2015.

15. **Quamar, M.F.**, Kamlesh Kumar, Chauhan, M. S. Sharma A. 2015. Late Quaternary climate change from southwestern Madhya Pradesh (central India), based on loss-on-ignition study and palynology. 25th ICMS, Deptt. of Geology, Institute of Science, Aurangabad (MS), December, 18-20, 2015.
16. **Quamar, M.F.** & Nautiyal, C.M. 2016. Mid-Holocene pollen records of vegetation history, climate change and human impact from southwestern Madhya Pradesh, central India. ICGEN IAS 2015, Deptt. of Earth Sciences, Annamalai university, Tamil Nadu, India. January 7-10, 2016.
17. **Quamar, M.F.** & Chauhan, M.S.(2016. Late Holocene vegetation and climate change from southwestern Madhya Pradesh (central India), based on pollen evidence: Signals of global climatic events. 3rd Asian NECLIME Conference, BSIP, Lucknow, India, February, 23-27, 2016.
18. **Quamar, M.F**., Bera, S.K. 2016. Do the common natural pollen trapping media behave similarly? A comparative study of modern palynoassemblages from Chhattisgarh, central India. POLQUANT 2016, Moulis/Toulouse, France, August 28-September, 2, 2016.
19. **Quamar, M.F.,** Ali, S.N., Nautiyal, C.M., Bera, S.K. 2016. Vegetation and climate reconstruction based on a ~ 4 ka pollen record from north Chhattisgarh [core monsoon zone (CMZ) of India], central India. Centenary (1916-2016) of Pollen Analysis and the Legacy of Lennart von Post, The Royal Swedish Academy of Sciences, Stockholm, Sweden, November 24-25, 2016.
20. **Quamar, M.F. ,** Ali, S.N., Kumar, K., Meena, N.K., Sharma, A., Bera, S.K. 2016. Monsoonal variations from the "Core Monsoon Zone (CMZ)" of India during the Late Quaternary: A multiproxy approach. TWAS-ROCASA Young Scientists' Conclave on "Frontiers on Earth and Climate Sciences" at DCCC, IISc., Bengaluru, India, December 5-7, 2016.
21. **Quamar, M.F.** 2016**.** Allergenic potential of the extracted palynomorphs from the natural pollen trapping substrates of central India: A Review. 2nd IISF 2016. CSIR-NPL, New Delhi, India, December 8-11, 2016.

22. **Quamar, M. Firoze.** 2019. Vegetation and climate change during the Late Holocene from the central Indian core monsoon zone. International AvH Kolleg, Kumaun University, Nainital, ATI (Uttarakhand), India. September, 25-27, 2019.
23. **Quamar, M. Firoze,** Ali, S.N, Morthekai, P., Singh, V.K. 2019. Combined LM and CLSM studies on the pollen morphology of different plant pollen taxa from Lucknow, India: implications for systematics, phylogeny and preservation. ICMS, BHU, Varanasi, Uttar Pradesh, India during November 5-7, 2019.
24. **Quamar, M. Firoze,** Kar Ratan 2020. Prolonged warming over the last ca. 11,700 years from the central Indian Core Monsoon Zone: Pollen evidence and a synoptic overview. Indo-US PICCS, IISER Mohali, Jan 2-4, 2020.
25. **Quamar, MF.** 2022. Late Holocene vegetation dynamics and climate change from central India. ICMS 2021, SPPU, Pune, Maharashtra, India during May 4-6, 2022.
26. **Quamar, MF.** 2023. Vegetation response to the hydro-climatic changes during the Holocene from the Western Himalaya, India: An overview**.** Reconstructing the human population histories of South Asia using archaeology and genetics', under the umbrella of "Emerging insights on human histories and past environments in South Asia University of Kashmir, Srinagar, India during June 7-9, 2023.
27. **Quamar, MF.** 2023. Palynological perspective on understanding climate change in India over the last two millennia: an overview and a critical evaluation. Conventional, renewable energy sources and climate change perspective', during June 23-24, 2023 at the Hotel Tuli Imperial, Nagpur, India. (Organised by The Gondwana Geological Society, Nagpur in association with the Geological Survey of India).
28. **Quamar, MF.** 2023. Vegetation dynamics and hydroclimatic changes since the LGM from the core monsoon zone of India: A multiproxy approach. XXI Congress of the INQUA 2023. Rome, Italy during July 14-20, 2023.
29. **Quamar, MF.** 2024. Vegetation and climate change since the LGM from the central Indian CMZ. IWEC'24, TIFR: NCBS during June 14-17, 2024.
30. **Quamar, MF.**, Banerji, U.S., Thakur, B., Kar, R. 2024. An overview of the pollen-based hydroclimatic changes in the Core Monsoon Zone of India since the Last Glacial Maximum. 29th ICMS, 2024, DU, New Delhi during October 17-19, 2024.

31. **Quamar, MF.** 2024. Vegetation and climate change over the past 8.4 kyr: Core Monsoon Zone lake sediments pollen records and signatures of global climatic events. 40th Convention of the Indian Association of Sedimentologists (IAS-2024) & National Conference on 'An Odyssey of sedimentology from Precambrian to Anthropocene: Significant contributions in environmental, climatic and energy research'. BSIP, Lucknow during December 11-13, 2024.

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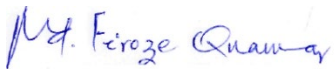

Date: 01/01/2025
Place: Lucknow

(MOHAMMAD FIROZE QUAMAR)
Signature