RESUME

Dr. Priya Agnihotri

Designation: Birbal Sahni Research Associate (BSRA ID- 5183)

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Nationality: Indian

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Areas of Specialization: Biological Sciences, Amber research, Palaeontology, Entomology, Palaeoecology

Academic Qualifications:

Course	Board/University	Year of passing	Division
1. PhD	AcSIR, Ghaziabad Lab: BSIP, Lucknow	2023	cgpa 9.0
2. M.Sc.- II	CSJMU, Kanpur	2018	first
3. M.Sc.- I	CSJMU, Kanpur	2017	first
4. B.Sc.- III	CSJMU, Kanpur	2016	first
5. B.Sc.- II	CSJMU, Kanpur	2015	first
6. B.Sc.- I	CSJMU, Kanpur	2014	first
7.Intermediate	I.S.C	2013	78.60
8. High School	I.C.S.E	2011	87.20

Ph.D details:

Thesis Title	Thesis Status	University/Laboratory
Eocene Arthropods in amber from the Kutch and Cambay Lignites, Gujarat, India: Their bearing on palaeoenvironments	Status: Awarded (year 2023)	Academy of Scientific and Innovative Research (AcSIR)-Ghaziabad **Laboratory**: DST-Birbal Sahni Institute of Palaeosciences, Lucknow- India

Scholarships/Fellowships: (2)

1. Birbal Sahni Research Scholarship (BSRS), awarded by DST-Birbal Sahni Institute of Palaeosciences, Lucknow.

Tenure of the scholarship: 27.02.2019 to 28.08.2022.

2. Birbal Sahni Research Associate (BSRA), awarded by DST-Birbal Sahni Institute of Palaeosciences, Lucknow.

Tenure of the scholarship: 07.03.2025 to present.

Research experience:

- My research expertise deals with the study of amber-embedded biota from the amber-bearing lignite deposits of India and to make a substantial contribution to Indian Palaeontology.
- The objective is to reconstruct a broadleaved angiosperm dominated tropical rainforest in the light of amber fossils from India.
- Actively engaged in geological excursions to the lignite mines of Gujarat for amber collection and stratigraphic updates.
- Actively involved in working with National and foreign scientists, in multidisciplinary research projects that have been published in journals like *The American Journal of Botany*, *The International Journal of Coal Geology, Palaeoentmology, Zoological Journal of the Linnean Society and IScience.*
- Involved in the basics of instrumentation techniques like synchrotron-based x-ray imaging (Micro-CT scanning), confocal laser scanning microscopy (CLSM), and scanning electron microscopy (SEM).

Scientific activities and achievements:

- Awarded Prof. S. K. Singh Memorial Gold Medal by the Palaeontological Society of India for the best scientific contribution for the year 2022.
- Presented a poster at the 28th Indian Colloquium on Micropalaeontology and Stratigraphy (ICMS-2022), organized by Savitribai Phule Pune University in May, 2022. Poster entitled- Diverse record of spider fossils in Cambay amber from the Valia lignites of Western India. Authors- Agnihotri, P., Singh, H. and Subramanian, K.A.
- A new species of Mayfly nymph Teloganella gurhaensis, from Western India (article Agnihotri et al., 2020), published in Zootaxa journal, has also been included in the Animal Discoveries of India 2020 record, by the Zoological Survey of India (ZSI), Chennai.
- Secured 1st position in the 27th Indian Colloquium on micropaleontology and stratigraphy (ICMS-2019), organized by the Institute of Science, Banaras Hindu University (BHU), Varanasi in November, 2019. Poster entitled- Quantitative analysis of amber entrapped chironomidae (diptera) inclusion from early Eocene, Umarsar lignite mine, Gujarat-India and their significance.
- Participated in the 4th National Geo-Research Scholars Meet: NGRSM 2020 webinar organized by Wadia Institute of Himalayan Geology, Dehradun in the month of June, 2020.
- Attended e-training of on 'Basics of Structural Geology' conducted by the Geological Survey of India Training Institute, Hyderabad, in the month of September, 2020.
- Participated in the 5th National Geo-Research Scholars Meet: NGRSM 2021 webinar organized by Wadia Institute of Himalayan Geology, Dehradun in the month of July, 2020. Presented work on the topic- "Eocene arthropods in amber from the lignite deposits of western India."
- Participated in the 2-days workshop on 'DNA and its characteristics' under D.B.T. (Department of Botany), Ministry of Science & Technology, Government of India, in the year 2018.
- Secured highest marks at Christ Church College, Kanpur for Master's in Science (Zoology) with Distinction in one paper of Entomology, in accordance with the CSJM University Gazette of examinations 2018.
- Qualified CRET-2018 (Combined Research Eligibility Test). Roll. No.- 902265; Score- 108
- Participated in the 7th NATIONAL SEMINAR on 'Ancient Indian Science & Technology (NSAIST'18)', sponsored by International Foundation of Humanistic Education at IIT, Kanpur in the month of November, 2018.
- Qualified Ph.D entrance examination of University of Lucknow. Roll. No.- 8239119010.
- Participated in the 7-days workshop on 'Biotechnology' under D.B.T. (Department of Botany) star college scheme, Government of India, in the year 2017.
- Participated in the 7-days workshop on ' Quantitative & Qualitative analysis of proteins & lipids', under D.B.T. (Department of Botany), Ministry of Science & Technology, Government of India, in the year 2017.

- Awarded MRS. LEELAVATI N. MODI MEMORIAL SCHOLARSHIP for securing ' highest marks at Christ Church College, Kanpur' for Bachelor's in Science (Biology), in the year 2016
- Secured 2nd position in the 5th NATIONAL SEMINAR on 'Advances & Emerging Challenges in Biological Techniques', sponsored by D.B.T. (Department of Botany), Ministry of Science & Technology, Government of India in the year 2016. Poster presentation entitled- Hybridoma Technology.
- Qualified NEET UG- 2013 (National Eligibility Entrance Test). Roll. No.- 87703917.

List of Publications:

1 Agnihotri P, Singh VP, Singh H, Grimaldi D, Thakkar MG, Tanu Priya, Subramanian KA, Dutta S and Mishra S. 2025. Eocene amber fossils reveal how complex trophic interactions shaped tropical rainforest biodiversity. *iScience*. 113430.

2 Sroka P, Agnihotri P and Singh H. 2025. The first record of mayflies (Ephemeroptera: Leptophlebiidae) from Cambay amber suggests a Gondwanan mayfly fauna in Early Eocene India. *Zoological Journal of the Linnean Society*. *204*(3), p.zlaf065.

3 Agnihotri P, Singh H, Subramanian KA, Vishwanathan J. and Sahni A. 2024. A new genus and species of fossil pseudoscorpion (Arachnida: Pseudoscorpiones) from the Eocene amber of Western India. *Palaeontologia Electronica*. *27*(2): 1-14.

4 Singh H and Agnihotri P. 2024. A Note on the Significance and Futuristic Approach of the Newly Established Amber Analysis and Palaeoentomology Laboratory at Birbal Sahni Institute of Palaeosciences (BSIP), Lucknow. *Journal of Palaeosciences*. *73*(1): 93-94.

5 Singh H and Agnihotri P. 2024. Amber Analysis and Palaeoentomology Laboratory at the Birbal Sahni Institute of Palaeosciences, Lucknow: a new dimension to Indian palaeontology. *Current Science (00113891)*, *126*(11).

6 Agnihotri P, Singh H, Subramanian KA and Acharya S. 2023. Scanning electron microscopy of Sarcoptes kutchensis, a new species of a Middle Eocene sarcoptid mite in amber from the Umarsar Lignite Mine of Kutch, Western India. *Historical Biology*: 1-7.

7 Arora P, Trivedi PM, Bhatia H, Agnihotri P and Kapur VV. 2023. A survey of the anticipated role of the Indian Museum of Earth (TIME) to Foster Public Awareness towards the preservation of Palaeontological relics. *Geoheritage*. *15*(4): 109.

8 Uddandam P, Agnihotri P, Agrawal S and Singh H. 2023. Early eocene biotic assemblage from the sedimentary deposits of the tarkeshwar lignite mine, gujarat and its palaeoenvironmental implications. *Journal of Palaeosciences*. *72*(2): 127-139.

9 Agnihotri P and Singh H. 2022. Stratigraphic Harudi signatures at the Umarsar Lignite Mine, Kutch Basin, Gujarat, India. *Journal of the Palaeontological Society of India*. 67(2): 357-362.

10 Bickel DJ, Martin J, Agnihotri P and Singh H. 2022. Dolichopodidae (Diptera) from the Eocene amber deposits of Cambay and Kutch Basins, India. *Palaeoentomology*. 005(5): 475–486.

11 Wagner R, Agnihotri P and Singh H. 2022. A new species of Sycorax (Sycoracinae: Psychodidae) from the Lower Eocene amber of Tadkeshwar, Gujarat, India. *Palaeoentomology*. 5(4): 319-326.

12 Singh H, Agnihotri P and Sharma J. 2022. Amber flora and fauna from Early Eocene Vastan Lignite Mine, Cambay Basin, Gujarat: Ecological Diversity and Environmental Significance. *Journal of the Geological Society of India*. 98(5): 661-668.

13 Tripathi S, Pandey A, Saxena A, Das N, Bhandari A, Roy I, Joshi P, Singh SP, Singh G, Tomar N and Agnihotri P. 2022. 28th Indian Colloquium on Micropalaeontology and Stratigraphy. *Journal of Palaeosciences*. *71*(1): 117-120.

14 Singh VP, Singh BD, Mathews RP, Mendhe VA, Agnihotri P, Mishra S, Radhwani M, Dutta S, Subramanian KA and Singh H. 2021. Petrographical-geochemical characteristics and floral-faunal composition of Valia lignite deposits of Cambay Basin (Gujarat) western India. *International Journal of Coal Geology.* 248: 103866.

15 Singh H, Judd W, Samant B, Agnihotri P, Grimaldi D and Manchester SR. 2021. Flowers of Apocynaceae in amber from the early Eocene of India. *American Journal of Botany*. 108(5): 1-10.

16 Agnihotri P and Singh H. 2020. Eocene biodiversity of arthropods in amber from the Umarsar lignites, Kutch basin, Gujarat- India. *Journal of the Palaeontological Society of India*. 65(2): 214-218.

17 Agnihotri P, Chandra K, Shukla A, Singh H and Mehrotra RC. 2020. First fossil record of a nymph (Ephemeoptera, Teloganellidae) from the Indian sub continent. *Zootaxa*. 4838(1): 137-142.

18 Patel R, Singh H, Prasad M, Agnihotri P and Rana RS. 2019. Diversified Early Eocene floral and faunal assemblage from Gurha, western Rajasthan: Implications for palaeoecology and palaeoenvironment. *Geophytology*.

Last Updated: 28.08.2025