Gaurav SRIVASTAVA (Ph.D)
CENOZOIC PALAEOFLORIST LAB
BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES
53 UNIVERSITY ROAD, LUCKNOW– 226 007, INDIA
Email: gaurav_jan10@yahoo.co.in; gaurav_srivastava@bsip.res.in
URL: http://www.bsip.res.in/Gaurav.html
Mobile no. & WhatsApp: +91 9792704022

Dr. Gaurav Srivastava is a geoscientist specializing in paleoclimate reconstruction, sedimentary archives, and plant fossil records. His research focuses on climatic and ecological changes during the Late Cretaceous–Cenozoic, with a particular emphasis on Northeast India. In addition, he is actively working on several other fossil-rich sites across India to build a comprehensive understanding of regional and temporal climate evolution. His current research includes investigating the response of biota to hyperthermal events, and exploring the origin and diversification of evergreen forests and biodiversity hotspots in South Asia. Dr. Srivastava is engaged in national and international research collaborations and contributes to academic publishing, mentoring, and editorial activities, including guest-editing special issues of reputed scientific journals. He is currently guiding one post-doctoral researcher, two Ph.D. students, and supervising several M.Sc. dissertation students. He has published 96 research papers, with a Google Scholar H-index of 23 and 2,426 citations, reflecting the impact and recognition of his scientific contributions.

EDUCATION

- Ph.D (2008-2011) Department of Botany, University of Lucknow, Uttar Pradesh
- Master of Science (2002-2004) Department of Botany, University of Lucknow, Uttar Pradesh
- Bachelor of Science (1999-2001) D.A.V. (P.G.) College, Azamgarh, Uttar Pradesh

RESEARCH INTEREST

- Palaeobotanical reconstruction of past vegetation and climate using plant megafossils and palynological data
- Evolution and diversification of angiosperms during the Cretaceous–Paleogene and Neogene periods
- Monsoon evolution and palaeohydrological changes inferred from fossil plant assemblages
- Palaeobiogeography and floristic exchange patterns of the Indian subcontinent through geologic time
- Fossil wood taxonomy and its implications for palaeoenvironmental interpretations
- Responses of ancient vegetation to global climatic events (e.g., PETM, EECO, MCO, LGM)

EMPLOYMENTS

- Scientist E (2024–Continuing), Birbal Sahni Institute of Palaeosciences
- Scientist D (2020–2023), Birbal Sahni Institute of Palaeosciences
- Scientist C (2016–2019), Birbal Sahni Institute of Palaeosciences

- Scientist B (2012–2015), Birbal Sahni Institute of Palaeosciences
- BSRA (2011–2012), Birbal Sahni Institute of Palaeosciences
- Project Assistant (2007–2011), Birbal Sahni Institute of Palaeosciences
- Research Scholar (2005–2006), Department of Botany, University of Lucknow

THESIS TITLE/ SUPERVISOR

- Palaeofloristics of northeast India and its implications based on megaremains/ Dr. R.C. Mehrotra (Retd. Scientist G).

METHODOLOGY

- Plant Megafossils (leaves, fruits, seeds, woods) – used to infer past vegetation types, climate, and ecological conditions
- Fossil wood anatomy – employed to reconstruct palaeoenvironment and palaeoprecipitation patterns
- Palynological data (pollen and spores) – utilized for palaeovegetation, and climate reconstructions
- Nearest Living Relative (NLR) Approach – links fossil taxa with modern equivalents to estimate climatic parameters
- CLAMP (Climate Leaf Analysis Multivariate Program) – a multivariate statistical tool to derive palaeoclimate data from leaf physiognomy

PROFESSIONAL MEMBERSHIP

- NECLIME (Neogene Climate Evolution in Eurasia).
- Member of Palaeobotanical Society, Lucknow.
- Member of the International Organization of Palaeobotany.

HONOURS and AWARDS

- President’s International Fellowship (2019) from the Chinese Academy of Sciences, China.
- President’s International Fellowship (2018) from the Chinese Academy of Sciences, China.
- Diamond Jubilee Medal (2018) from the Birbal Sahni Institute of Palaeosciences for publishing papers in high-quality refereed journals.
- Sharda Chandra Memorial Gold Medal (2016) from the Palaeontological Society of India, Lucknow for outstanding contribution in the field of palaeontology.
- Prof. R.C. Mishra Gold Medal (2015) from the Wadia Institute of Himalayan Geology, Dehradun for the best piece of research work in Geosciences.
- Diamond Jubilee Medal (2014) from the Birbal Sahni Institute of Palaeosciences for publishing papers in high-quality refereed journals.
- Dr. B.S. Venkatachala Gold Medal (2010) from the Birbal Sahni Institute of Palaeosciences for best research work done among the young scientist of the Birbal Sahni Institute of Palaeosciences.

RESEARCH STUDENTS

Postdoctoral student

Dr. Harshita Bhatia (2025), working as Birbal Sahni Research Associate

Doctoral students

- Dr. Harshita Bhatia (2024), Ph.D. awarded in Biological Science from AcSIR, New Delhi
- Mr. Sadanand (2021), enrolled in Biological Sciences for Ph.D. in AcSIR, New Delhi (Ongoing)
- Mr. Purushottam Adhikari, enrolled in Geology for Ph.D. in Tribhuvan University, Kathmandu, Nepal (Ongoing) (as Co-Guide)

Master's dissertation/ internship

- Mr. Sudhanshu (2025), Department of Geology, Babasaheb Bhimrao Ambedkar University, Lucknow
- Ms. Janhvi Krishna (2024), Department of Geology, Babasaheb Bhimrao Ambedkar University, Lucknow
- Ms. Shivani Gupta (2024), Carrier Convent Girls (P.G.) College, Lucknow
- Ms. Naincy Pandey (2024), Maharaja Bijli Pasi Government (P.G.) College, Lucknow
- Mr. Akshay Khanna (2023), Department of Geology, Maharishi University, Lucknow
- Mr. Ambuj Kumar Mishra (2023), Department of Applied Geology, University of Lucknow
- Ms. Tahseen Ansari (2021), Department of Geology, Babasaheb Bhimrao Ambedkar University, Lucknow

RESEARCH PROJECTS

Inhouse (BSIP) research project

- Member of Project 3 entitled "Pre- and post-collision biotic turnover(s) and climate change(s) pertaining to India".

Extramural research project

- Principle Investigator of SERB sponsored project no. CRG/2019/002461 entitled "Appraisal of the Neogene vegetation shift and climate in northern India, based on plant megafossils" (2020–2023).

JOURNAL EDITORIAL BOARD MEMBER

- Global and Planetary Change (Elsevier)
- Earth History and Biodiversity (Elsevier)

REVIEWER OF THE JOURNALS

- Proceedings of the National Academy of Sciences, USA
- Earth-Science Review

- Geology
- Geoscience Frontiers
- Global and Planetary Change
- Palaeogeography, Palaeoclimatology and Palaeoecology
- Plant Diversity
- Palaeobiodiversity and Palaeoenvironments
- PlosOne
- Quaternary Research
- Review of Paleobotany and Palynology
- Phytotaxa
- Acta Palaeobotanica
- Himalayan Geology
- Current Science
- Journal of Palaeontological Society of India
- Journal of Palaeosciences
- Geophytology

CONFERENCES/ MEETINGS

1. Participated and presented an article in a meeting organized by the All India Scientific and Technical Official Language Committee held in Aryabhatta Research Institute of Observational Sciences, Nainital during November 20-21, 2024.
2. Invited talk entitled "*Digging the past for a better future*" in an online meeting organized by the Department of Botany, North Eastern Hill University, Shillong on 30.10.2023.
3. Participated and presented a research paper on "*Leaf physiognomy reveals orographic control over the Paleogene Asian monsoon*" in NECLIME online conference held during November 21-24, 2022.
4. Participated and presented a research paper on "*Miocene evolution of modern Indian Summer Monsoon (ISM) and biodiversity hotspots: plant fossil evidence*" in National Conference on Ecological Restoration and Biodiversity Conservation held during September 17-18, 2022.
5. Participated and presented a research paper on "*Monsoon and vegetation shift during the Neogene: evidence from the Siwalik flora of eastern Himalaya*" in NECLIME online conference held during April 19-21, 2021.
6. Participated and presented a paper (Keynote Address) on "*Cenozoic flora and climate of Inia and vis-à-vis movement of Indian plate*" in Global Climate Change: Evidences, Causes, Effects and Solutions organized by Department of Botany, Ewing Christian College, Prayagraj, India from July 5-7, 2020.
7. International conference on *From sea level to world roof: uplift history and biological evolution of the Himalaya*, June 08-14, 2019, organized by Journal of Systematics and Evolution, Institute of Botany, Chinese Academy of Sciences, Beijing, China.

8. National seminar on *Deccan Volcanism and Biotic Events across the K/T boundary*, Oct. 26-28, 2017, organized by Department of Applied Geology, Dr. Hari Singh Gaur Vishwavidyalaya, Sagar, M.P.
9. National symposium on *Current Trends in Research in Biotic Systems*, June 29–30, 2017, organized by Department of Botany, North-Eastern Hill University (NEHU), Shillong, Meghalaya.
10. *ATBC Asia-Pacific Chapter Meeting*, March 25–28, 2017 organised by Xishuangbanna Tropical Botanical Garden, Menglun, Mengla, Yunnan Province, China.
11. National conference on *Palaeogene of Indian Subcontinent*, April 23–24. 2015, organized jointly by Geological Survey of India and Birbal Sahni Institute of Palaeobotany, Lucknow.
12. International conference on *Plant Culture and Environment,* Henan province, China, Sept. 18–23, 2012.
13. World conference on *Paleontology and Stratigraphy* Nakhon Ratchasima, Thailand, Nov. 28–Dec. 2, 2011.
14. National Seminar on *Geodynamics, sedimentation and biotic response in the context of India-Asia collision,* Nov. 26–28, 2009, organised by Geology Dept., Mizoram University, Mizoram.
15. Attended and presented DST sponsored project progress report in *PAMC meeting on Deep Continental Studies*, Jan. 20–21, 2009, organised by Dept. of Science & Technology, Govt. of India, held at Geology Dept., University of Kerala.
16. *Plant life through the ages*, Nov. 16–17, 2008, organized by Birbal Sahni Institute of Palaeobotany, Lucknow.
17. Indo-China International conference on *Biotic and climatic changes in the Indo-China region*, Nov. 14–15, 2008, organized by Birbal Sahni Institute of Palaeobotany, Lucknow.
18. *Indo-Myanmar Ranges in the Tectonic Framework of the Himalaya and Southeast Asia*, Nov. 27–29, 2008, organized by Department of Earth Sciences, Manipur University, Imphal.
19. *XXI Indian Colloquium on Micropalaeontology and Stratigraphy*, Nov. 16–17, 2007, organized by Birbal Sahni Institute of Palaeobotany, Lucknow.
20. *National Field Workshop in Neogene Succession of Mizoram* Nov.1–3, 2007, organized by Department of Geology, Mizoram University, Aizawl.
21. *Entrepreneurship Awareness Camp,* October 14–16, 2006, Co-ordinating Agency: Entrepreneurship development Centre, University of Lucknow, Lucknow.
22. *National Conference on Biodiversity & Applied Botany of Plants,* Oct.8–10, 2003 organized by Department of Botany, University of Lucknow.

PUBLICATIONS

Number of publications: 96
Google Scholar *H*-index: 23
Google Scholar *citations*: 2426

1. Bhatia, H., **Srivastava, G**., 2025. Oligocene cf. *Canarium* L. (Burseraceae) leaflet from India provides new evidence of its Gondwanan legacy. *International Journal of Plant Sciences*. https://doi.org/10.1086/737171.

2. Bhatia, H., **Srivastava, G**., 2025. Earliest *Swintonia* (Anacardiaceae) fossil from the late Paleogene of India suggests its Gondwanan origin. *Geobios*. https://doi.org/10.1016/j.geobios.2025.05.008.

3. Bhatia, H., **Srivastava, G**., 2025. Earliest fossil record of *Cryptocarya* R. Br. (Lauraceae) from Asia and its biogeographic and palaeoenvironmental implications. *Palaeobiodiversity and Paleoenvironments*. https://doi.org/10.1007/s12549-025-00658-1.

4. Bhatia, H., Dar, R.A., **Srivastava, G.**, 2025. Himalayan uplift and the evolution of a Mediterranean-type climate in the Kashmir Basin of India: Palaeobotanical evidence from the late Pliocene Dubjan Member (Karewa Group). *Palaeogeography, Palaeoclimatology, Palaeoecology* 672, 112998.

5. Bhatia, H., Adhikari, P., Verma, P., Singh, Y.P., Su, Tao, **Srivastava, G.**, 2025. Early Miocene ventricose bamboo from South Asia with implications for evolutionary ecology and *biogeography*. *iScience* 112455.

6. Bhatia, H., Kumari, P., Singh, N.H., **Srivastava, G.**, 2025. Earliest thorny bamboo from Pleistocene of Asia characterizing and paleoclimatic adaptations in bamboos. *Review of Palaeobotany and Palynology* 338, 105347.

7. Bhatia, H., **Srivastava, G.**, 2025. Rising Himalaya and climate change drive endemism in the Western Ghats: fossil evidence insights. *Review of Palaeobotany and Palynology* 338, 105348.

8. Bhatia, H., Lokho, K., **Srivastava, G.**, Ezung, O. Chonchibeni, 2025. Quantifying the equatorial climate shifts in the Indo-Burma range using late Eocene-early Oligocene leaf fossils. *Palaeogeography, Palaeoclimatology, Palaeoecology* 669, 112931.

9. Meng, J., Zhao, J., Chen, L. Valdes, P.J., Farnsworth, A., Popova, S., Ozer, M.S., **Srivastava, G.** et al., 2025. Climate evolution and its driving factors in the Tethys Sea

region during the Cenozoic. *Science China Earth Sciences* 68, 1937–1959.

10. Adhikari, P., **Srivastava, G.**, Farnsworth, A., Bhatia, H., Sadanand, Poudel, S., Spicer, R.A., Rai, Lalit K., Valdes, P.J., Paudayal, K.N., 2025. Late Miocene weakening of the South Asian Monsoon: Insights from the Siwalik of Nepal. *Palaeogeography, Palaeoclimatology, Palaeoecology* 664, 112789.

11. **Srivastava, G.**, Bhatia, H., Verma, P., Singh, Y.P., Agrawal, S., Utescher, T., Mehrotra, R.C., 2024. A transient shift in equatorial hydrology and vegetation during the Eocene Thermal Maximum 2. *Geoscience Frontiers* 15, 101838.

12. Gao, Yi, Song, Ai, Cai, W.-J., Spicer, R.A., Zhang, R., Liu, J., **Srivastava, G**., et al., 2024. Tibetan Plateau palm fossils prove the Kohistan-Ladakh Island Arc is a floristic steppingstone between Gondwana and Laurasia. *Review of Palaeobotany and Palynology*, 334,105255.

13. Adhikari, P., Bhatia, H., Khatri, D.B., Sadanand, **Srivastava, G.**, Mehrotra, R.C., Paudayal, K.N., 2024. Fig leaf from the Middle Siwalik sediments of eastern Nepal with implication on biogeography and palaeoclimate. *Journal of the Palaeontological Society of India* 69, 64-79.

14. Adhikari, P., Rai, L.K., Sadanand, Bhatia, H., Srivastava, G., Thakuri, N.S., Mehrotra, R.C., Paudayal, K.N., 2024. New records for the Middle Siwalik flora of eastern Nepal and their climatic significance. *Earth History and Biodiversity* 1, 100003.

15. Kaphle, B., Wang, J., Ju, J., Lu, X., Kai, J., Clarke, L., Khanal, B.R., Humagain, S., **Srivastava, G.**, Paudayal, K.N., 2024. Environmental risk assessment of the surface sediments based on trace elements analysis from the largest freshwater lake in the southern slope of the Himalaya, Nepal. *Environmental Monitoring and Assessment* 197,97.

16. Adhikari, P., **Srivastava, G.**, Paudayal, K.N., 2024. An overview of the middle Miocene to early Pleistocene flora of the Siwalik sediments in Nepal. In: Rokaya, M.B., Sigdel, S.R. (Eds.) Flora and vegetation of Nepal. Plant and vegetation, Vol. 19. Springer, Cham.

17. Bhatia H., **Srivastava G.**, Mehrotra R.C., 2023. Cordiaceae wood from the Miocene sediments of northeast India and its phytogeographical significance. *IAWA J*. 45, 154-166.

18. **Srivastava G**., Bhatia H., Verma P., Singh Y.P., Utescher T., Mehrotra R.C., 2023. High rainfall afforded resilience to tropical rainforests during Early Eocene Climatic Optimum. *Palaeogeography, Palaeoclimatology, Palaeoecology* 628, 111762.

19. Gao Yi, Song Ai, Deng W.-Y.-D., Chen Lin-Lin, Liu Jia, Li Wei-Cheng, **Srivastava G.**, Spicer R.A., Zhou Zhe-Kun, Su Tao, 2023. The oldest fossil record of *Bauhinia* s.s. (Fabaceae) from the Tibetan Plateau sheds light on its evolutionary and biogeographic implications. *Journal of Systematic Palaeontology*, 21, 2244495.

20. Bhatia H., **Srivastava G.**, Mehrotra R.C., 2023. *Duabanga* (Lythraceae) from the Oligocene of India and its climatic and phytogeographic significance. *Geobios* 78, 1–13.

21. Nguyen Hung Ba, Huang J., Van Do Truong, **Srivastava G.**, Nguyen H.M.T., Li Shu-Feng, Chen Lin-Lin, Nguyen M.T., Doan H.D., Zhou Zhe-Kun, Su Tao, 2023. Pod fossils of *Albizzia* (Fabaceae: Caesalpinioideae) from the late Miocene of northern Vietnam and their phytogeographical history. *Review of Palaeobotany and Palynology* 308, 104801.

22. Bhatia H., **Srivastava G.**, Mehrotra R.C., 2023. Legumes from the Paleocene sediments of India and their ecological significance. *Plant Diversity* 45, 199–210.

23. Adhikari P., Bhatia H., Khatri D.B., **Srivastava G**., Uhl D., Mehrotra R.C., Paudayal K.N., (2023) Plant fossils from the Middle Siwalik of eastern Nepal and their climatic and phytogeographic significance. *Palaeobiodiversity and Palaeoenvironment* 103, 57–69.

24. Bhatia H., **Srivastava G.**, Adhikari P., Su Tao, Utescher T., Paudayal K.N., Mehrotra R.C., 2022. Asian monsoon and vegetation shift: evidence from the Siwalik succession of India. *Geological Magazine* 159, 1397–1414.

25. Mishra S., Singh S.P., M. Arif, Singh A.K., **Srivastava G.**, Ramesh B.R., Prasad M., 2022. Late Maastrichtian vegetation and palaeoclimate: palynological inferences from the Deccan Volcanic Province of India. *Cretaceous Research* 133, 105126.

26. Bhatia H., **Srivastava G.**, Mehrotra R.C., 2022. Floristic diversity and climate change in the Siwalik succession. In: Climate change and environment impacts: past, present and future perspective, Phartiyal B., Mohan R., Chakraborty S., Dutta V., Gupta A.K. (Eds), Society of Earth Scientist Series, Lucknow, India pp. 1–20.

27. Adhikari, P., Khatri, D.B., **Srivastava, G.**, Paudayal, K.N., 2022. Leaf impression of Amesoneuron (Arecaceae) from the Lower Siwalik sediments of the Kankai Mai river section, eastern Nepal. BMC Journal of Scientific Research 5 60-68.

28. Bhatia H., **Srivastava G.**, Mishra S.R., Barman P., Su Tao, Mehrotra R.C., Tripathi S.C., (2021) Warm and humid Trans-Himalaya during the late Miocene: plant fossil evidence.

Palaeoworld 31(3), 542–549.

29. Bhatia H., Khan M.A., **Srivastava G.**, Hazra T., Spicer R.A., Hazra M., Mehrotra R.C., Spicer T.E.V., Bera S., Roy K., 2021. Late Cretaceous-Paleogene monsoon climate vis-à-vis movement of the Indian plate, and the birth of the south Asian monsoon. *Gondwana Research* 93, 89–100.

30. Song Ai, Liu J. Liang S.-Q., Van Do Truong, Nguyen H.Ba., Deng W.-Y.D., Jia L.-Bo, Rio C.D., **Srivastava G.**, Feng Z., Zhou Z.-K., Huang J., Su Tao 2021. Leaf fossil of *Sabalites* (Arecaceae) from the Oligocene of northern Vietnam and their paleoclimatic implications. *Plant Diversity* 44, 406–416.

31. Bhatia H., **Srivastava G.**, Spicer R.A., Farnsworth A., Spicer T.E.V., Mehrotra R.C., Paudayal K.N., Valdes P. 2021. Leaf physiognomy records the Miocene intensification of the south Asia monsoon. *Global and Planetary Change* 196, 103365.

32. **Srivastava Gaurav,** Farnsworth A., Bhatia H., Mehrotra R.C., Shekhar M., Su T., Utescher T., Valdes P.J. 2021. Climate and vegetation change during the Upper Siwalik- a study based on the palaeobotanical record of the eastern Himalaya. *Palaeobiodiversity and Palaeoenvironment* 101, 103–121.

33. Bhatia H., **Srivastava G.,** Mehrotra R.C., 2021. Late Oligocene climate and floristic diversity of Assam, Northeast India. Palaeobotanist 69, 73–92.

34. Su T, Spicer RA, Wu F-X, Farnsworth A, Huang J, Rio CD, Deng T, Ding L, Deng W-Y-D, Huang Y-J, Hughes A, Jia L-B, Jin J-H, Li S-F, Liang S-Q, Liu J, Liu X-Y, Sherlock S, Spicer T, **Srivastava G.**, Tang H, Valdes P, Wang T-X, Widdowson M, Wu M-X, Xing Y-W, Xu C-Li, Yang J, Zhang C, Zhang S-T, Zhang X-W, Zhao F, Zhou Z-K. 2020. A Middle Eocene lowland humid subtropical “Shangri-La” ecosystem in central Tibet. *Proceedings of the National Academy of Sciences, U.S.A.,* 117, 32989–32995.

35. Bajpai S., Singh B.P., Patnaik R., **Srivastava G.**, Parmar V., 2020. Himalayan Cenozoic biotas and climate: an overview of recent advances. *Proceedings of Indian National Science Academy* 86, 227–236.

36. Liu J., Spicer R.A., Tang H., Deng W.-Y.-D., Wu F.-X., **Srivastava G**., Spicer T.E.V., Do T.V., Deng T., Zhou Z.-K. 2019. Biotic interchange through lowlands of Tibetan Plateau suture zones during Paleogene. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 524, 33–40.

37. Su Tao, Farnworth A., Spicer R.A., Huang J., Wu F.-X., Liu J., Li S.-F., Xing Y.-W., Huang Y.-J., Deng W.-Y.-D., Tang H., Xu C.-L., Zhao F., **Srivastava G.**, Valdes P.J., Deng T., Zhou Z.-K., 2019. No high Tibetan Plateau until the Neogene. *Science Advances* 5, eaav2189.

38. **Srivastava G.**, Su Tao, Mehrotra R.C., Kumari Pushpa, Shankar Uma, 2019. Bamboo fossils from Oligo-Pliocene sediments of northeast India with implications on their evolutionary ecology and biogeography in Asia. *Review of Palaeobotany and Palynology*, 262, 17–27.

39. **Srivastava G.**, Mehrotra R.C., 2018. *Barringtonia* Forster & Forster (Lecythidaceae) leaf from the late Oligocene of Assam, India. *Palaeobotanist*, 67, 139–145.

40. **Srivastava G.**, Mehrotra R.C., Dilcher, D.L., 2018. Paleocene *Ipomoea* (Convolvulaceae) leaves from India with implications for an East Gondwana origin of Convolvulaceae. *Proceedings of the National Academy of Sciences, USA*, 115, 6028–6033.

41. **Srivastava G.**, Mishra, S.R., Barman, P., Mehrotra, R.C., Tripathi, S.C., 2018. *Lagerstroemia* L. fossil wood from the Indus molasse sediments (possibly late Miocene) of Trans-Himalayan region and its phytogeographic and climatic significance. *Review of Palaeobotany and Palynology,* 255, 14–21.

42. Mehrotra, R.C., **Srivastava G.** 2018. Neogene flora of Arunachal Himalaya. In: Das, A.P., Bera, S. (Eds.), Plant diversity in the Himalaya hot spot region. Bisen Singh, Mahendra Pal Singh, Dehradun, 399–412.

43. **Srivastava Gaurav**, Mehrotra R.C., Srikarni C.S., 2018. Fossil wood flora from the Siwalik Group of Arunachal Pradesh, India and its climatic and phytogeographic significance. *Journal of Earth System Science* 127, 1–22.

44. Mehrotra R.C., **Srivastava G.**, Srikarni C., 2018. *Lagerstroemia* L. wood from the Kimin Formation (Upper Siwalik) of Arunachal Pradesh and its climatic and phytogeographic significance. *Journal of Geological Society of India*, 91, 695–699.

45. **Srivastava G.**, Paudayal Khum N., Utescher T., Mehrotra R.C., 2018. Miocene vegetation shift and climate change: evidence from the Siwalik of Nepal. *Global and Planetary Change* 161, 108–120.

46. Adhikari P., **Srivastava G.**, Mehrotra R.C., Adhikari D., Shrestha K., Uhl D., Paudayal K.N., 2018. Leaf impressions of *Terminalia* (Combretaceae) and *Daphnogene* (Lauraceae) from

the Middle Siwalik of the Chatara-Barahakshetra area, eastern Nepal. *Bulletin of Department of Geology, Tribhuvan University, Nepal,* 20-21, 21–28.

47. Dutta S., Mehrotra R.C., Paul S., Tiwari R.P., Bhattacharya S., **Srivastava G**., Ralte V., Zoramthara C., 2017. Remarkable preservation of terpenoids and record of volatile signaling in plant-animal interactions from Miocene amber. Nature- *Scientific Reports* (NPG) 7, 10940.

48. **Srivastava G.**, Tiwari R.P., Mehrotra R.C., 2017. Quantification of rainfall during the late Miocene-early Pliocene in northeast India. *Current Science* 113: 2253–2257.

49. **Srivastava G.**, Purushottam A., Mehrotra R.C., Paudel L., Paudayal K.N., 2017. *Dipterocarpus* Gaertn. (Dipterocarpaceae) leaf from the Middle Siwalik of eastern Nepal and its Phytogeographical and climatic significance. *Journal of Nepal Geological Society* 53: 39–46.

50. Ding Lin, Spicer R.A.,Yang Jian, Xu Qiang, Cai Fulong, Lai Qingzhou, Wang Houqi, Spicer T.E.V., Yue Yahui, Shukla A., **Srivastava G**., Khan M.A., Bera S., Mehrotra R., 2017. Quantifying the rise of the Himalaya orogen and implications for the South Asian monsoon. *Geology* 45(3), 215–218.

51. Spicer R.A., Yang Jian, Herman A., Kodrul T., Aleksandrova G., Maslova N., Spicer T.E.V., Ding L., Xu Q., Shukla A., **Srivastava G.**, Mehrotra R., Liu X.-Y., Jin J.-H., 2017. Paleogene monsoons across India and south China: drivers of biotic change. *Gondwana Research* 49, 350–363.

52. Lokho Kapesa, **Srivastava G.**, Mehrotra R.C. 2017. A note on plant remains from the Paleogene sediments of the Naga Hills, Indo-Burma suture zone. *Himalayan Geology* 38(1), 86–90.

53. Mehrotra R.C., **Srivastava G.,** 2017. *In Situ* Lecythidaceae wood from the Oligocene of Makum Coalfield, northeast India. *IAWA* 38(2), 162–169.

54. Mehrotra R.C., Mehrotra N., **Srivastava G.**, Shah S.K., 2017. Occurrence of fossil woods in the Unakoti District, Tripura and their palaeoclimatic significance. *Journal of the Palaeontological Society of India* 62(1), 17–30.

55. Rajkumar H.S., **Srivastava G**., Mehrotra R.C., Keithellakpam D.S., Soibam I., Khaidem K.S., 2017. First report of a dipterocarpaceous fossil wood from Manipur. *Journal of the Geological Society of India* 89(3), 321–324.

56. **Srivastava G.**, Trivedi A., Mehrotra R.C., Paudayal K.N., Limaye Ruta B., Kumaran K.P.N., Yadav S.K., 2016. Monsoon variability over peninsular India during Late Pleistocene: signatures of vegetation shift recorded in terrestrial archive from the corridors of Western Ghats. *Palaeogeography, Palaeoclimatology, Palaeoecology* 443, 57–65.

57. Mehrotra R.C., **Srivastava G.**, Basumatary S.K., 2016. Fossil woods from the late Miocene-Pliocene sediments of Arunachal Pradesh. *Geophytology* 46(2), 163–172.

58. **Srivastava G.**, Mehrotra R.C., 2016. Recent trends in Tertiary megafossil research in northeast India. In: Recent Trends in Earth Science Research with Special Reference to NE India, Srivastava S.K. (Ed.), Today & Tomorrow's Printers and Publishers, New Delhi pp. 167–179.

59. **Srivastava G.**, Mehrotra R.C., 2015. *Davidocarpon*, a new name for *Dilcherocarpon*. *Novon* 24, 212.

60. Yang J., Spicer R.A., Spicer T.E.V., Arens N.C., Frederic M.B.J., Su Tao, Kennedy E.M., Herman A.B., Steart D.C., **Srivastava G.**, Mehrotra R.C., Valdes P.J., Mehrotra N.C., Zhou Zhe-Kun, Lai Jiang-Shan, 2015. Leaf form climate relationships on the global stage: An ensemble of characters. *Global Ecology and Biogeography* 10, 1113–1125.

61. Tiwari R.P., Z. Ralte Victor, Zoramthara C., **Srivastava G.**, Mehrotra R.C., Paul S., Dutta S. (2015) Fossil leaf in Amber from the Bhuban Formation, Mizoram, India. *Himalayan Geology* 36(1), 33–38.

62. **Srivastava G.**, Gaur Rajan, Mehrotra R.C., 2015. *Lagerstroemia* L. from the middle Miocene Siwalik deposits, northern India: implication for Cenozoic range shifts of the genus and the family Lythraceae. *Journal of Earth System Science* 124(1), 227–239.

63. **Srivastava G.**, Mehrotra R.C., 2014. Phytogeographical implication of *Bridelia* Will. (Phyllanthaceae) fossil leaf from the late Oligocene of India. *PLoS ONE* 9(10), e111140.

64. Srivastava Rashmi, **Srivastava G.**, Dilcher David L., 2014. Coryphoid palm leaf fossils from the Maastrichtian–Danian of Central India with remarks on phytogeography of the Coryphoideae Arecaceae). *PLoS ONE* 9(11), e111738.

65. Srivastava Rashmi, **Srivastava G.**, 2014. Fossil fruit of *Cocos* L. (Arecaceae) from Maastrichtian-Danian sediments of central India and its phytogeographical significance. *Acta Palaeobotanica* 54(1), 67–75.

66. **Srivastava G.**, Mehrotra R.C., Shukla Anumeha, Tiwari R.P., 2014. Miocene vegetation and climate in extra peninsular India: megafossil evidences. In: Tiwari R.P. (Editor), Indian Miocene: a geodynamic and chronologic framework for palaeobiodata, sedimentary environments and palaeoclimates. *Special Publication of Palaeontological Society of India* 5, 273–281 (ISBN: 978-81-926033-2-2).

67. Mehrotra R.C., Shukla Anumeha, **Srivastava G.**, Tiwari R.P., 2014. Miocene megaflora of peninsular India: present status and future prospects. In: Tiwari R.P. (Editor), Indian Miocene: a geodynamic and chronologic framework for palaeobiodata, sedimentary environments and palaeoclimates. *Special Publication of Palaeontological Society of India* 5, 283–290 (ISBN: 978-81-926033-2-2).

68. Priyanka Monga, **Srivastava G.**, Kumar Madhav, Mehrotra R.C., 2014. Further palynological investigation of coaliferous sequences of Tura Formation of Nangwalbibra, East Garo Hills, Meghalaya: inferences on palaeovegetation and palaeoclimate. *Palaeobotanist* 63, 79–85.

69. **Srivastava G.**, Mehrotra R.C., 2013. Low latitude floral assemblage from the Late Oligocene sediments of Assam and its palaeoclimatic and palaeogeographic significance. *Chinese Science Bulletin* 58 (Suppl. 1), 156–161.

70. Mehrotra R.C., Tiwari R.P., **Srivastava G.**, Shukla A., 2013. Further contribution to the Neogene petrified wood forest of Mizoram, India. *Chinese Science Bulletin* 58 (Suppl. 1), 104–110.

71. **Srivastava G.**, Mehrotra R.C., 2013. Further contribution to the low latitude leaf assemblage from the Late Oligocene sediments of Assam and its phytogeographical significance. *Journal of Earth System Science* 122(5), 1341–1357.

72. **Srivastava G.**, Mehrotra R.C., 2013. First fossil record of *Alphonsea* Hk. f. & T. (Annonaceae) from the late Oligocene sediments of Assam, India and comments on its phytogeography. *PLoS ONE* 8(1), e53174.

73. **Srivastava G.**, Mehrotra R.C., 2013. Endemism due to climate change: evidence from *Poeciloneuron* Bedd. (Clusiaceae) leaf fossil from Assam, India. *Journal of Earth System Science* 122(2), 283–288.

74. Tiwari R.P., Mehrotra R.C., **Srivastava G.**, Shukla Anumeha, 2012. The vegetation and climate of a Neogene petrified wood forest of Mizoram, India*. Journal of Asian Earth*

Sciences 61, 143–165.

75. **Srivastava G.**, Spicer R.A., spicer T.E.V., Yang J., Kumar M., Mehrotra R.C., Mehrotra N.C., 2012. Megaflora and palaeoclimate of a late Oligocene tropical delta, Makum Coalfield, Assam: evidence for the early development of the South Asian monsoon. *Palaeogeography, Palaeoclimatology, Palaeoecology,* 342-343, 130–142.

76. Kumar M., **Srivastava G.**, Spicer R.A., Spicer T.E.V., Mehrotra R.C., Mehrotra N.C., 2012. Sedimentology, palynostratigraphy and palynofacies of the late Oligocene Makum Coalfield, Assam, India: a window on lowland tropical vegetation during the most recent episode of significant global warmth. *Palaeogeography, Palaeoclimatology, Palaeoecology,* 342-343, 143–162.

77. **Srivastava G.**, Mehrotra R.C., Hugues Bauer, 2012. Palm leaves from the late Oligocene sediments of Makum Coalfield, Assam, India. *Journal of Earth System Science* 121(3), 747–754.

78. **Srivastava G.**, Mehrotra R.C., 2012. The oldest fossil of *Semecarpus* L.f. from the Makum Coalfield, Assam, India and comments on its origin. *Current Science* 102(3), 398–400.

79. Srivastava Rashmi, Saxena R.K., **Srivastava G.**, 2012. *Pterospermumocarpon*, a new malvalean fruit genus from the Sindhudurg Formation (Miocene) of Maharashtra, India and its phytogeographycal significance. *Journal of Earth System Science* 121(1), 183–193.

80. Singh M. Chandra, Kushwaha R.A.S., **Srivastava G.**, Mehrotra R.C. (2012) New plant remains from the Laisong Formation of Manipur. *Journal of the Geological Society of India* 79, 287–294.

81. Mehrotra R.C., Tiwari R.P., **Srivastava G.**, 2012. Comments on some plant remains from the Early Miocene of Mizoram, India. *Memoir Geological Society of India* 77, 345–347 (ISBN: 978-81-907636-2-2).

82. **Srivastava G.**, Tiwari R.P., Mehrotra R.C., 2012. CLAMP: A developing proxy for quantitative estimation of palaeoclimate in India. *Memoir Geological Society of India* 77: 331–344 (ISBN: 978-81-907636-2-2).

83. Mehrotra, R.C., Basumatary, S.K., Bera, S.K., **Srivastava G.**, Sarma, G.C., Baruah, C.K., 2011. First report of the plant fossils from the Manas National Park, Assam, India. *Palaeobotanist* 60, 273–280.

84. Mehrotra R.C., Bera S.K., Basumatary S.K., **Srivastava G.**, 2011. Study of fossil wood from the Middle-Late Miocene sediments of Dhemaji and Lakhimpur Districts of Assam, India and its palaeoecological and palaeophytogeographical implications. *Journal of Earth System Science* 120(4), 681–701.

85. **Srivastava Gaurav,** Srivastava Rashmi, Mehrotra R.C., 2011. *Ficus palaeoracemosa* sp. nov.- a new fossil leaf from the Kasauli Formation of Himachal Pradesh and its palaeoclimatic significance. *Journal of Earth System Science* 120(2), 253–262.

86. Spicer Robert A., Bera Subir, De Bera Sreelekha, Spicer Teresa E.V., **Srivastava G.**, Mehrotra Rakesh, Mehrotra Naresh, Yang Jian, 2011. Why do foliar physiognomic climate estimates sometimes differ from those observed? Insights from taphonomic information loss and a CLAMP case study from the Ganges delta. *Palaeogeography, Palaeoclimatology, Palaeoecology* 302, 381–395.

87. **Srivastava G**., Mehrotra R.C., 2010. New legume fruits from the Oligocene sediments of Assam. *Journal of the Geological Society of India* 75, 820–828.

88. **Srivastava G**., Mehrotra R.C., 2010. Tertiary flora of northeast India vis-a-vis movement of the Indian Plate. In: Ibotombi Soibam (Editor), Indo-Myanmar ranges in the tectonic framework of the Himalaya and Southeast Asia. *Memoir Geological Society of India* 75, 123–130 (ISBN No: 978-81-85867-96-0).

89. **Srivastava G.**, 2010. Forest destruction in Indian hot spots: A threat to environment. *Earth Science India* (January issue).

90. Spicer R.A., Valdes P.J., Spicer T.E.V., Craggs H.J., **Srivastava G.**, Mehrotra R.C., Yang J., 2009. New developments in CLAMP: Calibration using global gridded meteorological data. *Palaeogeography, Palaeoclimatology, Palaeoecology* 283, 91–98.

91. **Srivastava G.**, Mehrotra R.C., Tiwari R.P., 2009. A new fossil wood from the Tipam Group of North Hlimen, Mizoram. *Palaeobotanist* 58, 29–32.

92. **Srivastava G.**, Srivastava S.N., 2009. New records for the flora of Azamgarh District, U.P. *Journal of Applied Bioscience,* 35(1), 82–85.

93. **Srivastava G.**, Srivastava S.N., 2009. Invasive alien plant species of Azamgarh District, Uttar Pradesh. *In:* Souvenir of National Conference on Invasive Alien Species a threat to native biodiversity. Uttar Pradesh Biodiversity Board, pp. 56–60.

94. Agarwal A., **Srivastava G.**, 2008. Forest destruction in eastern Himalaya. *Current Science* 94(1), 8.

95. Mehrotra R.C., **Srivastava G.**, Bera S.K., 2007. Two new fossil woods from the Surma Group of Assam, India. In: Proceedings of Int'l Symposium on Palaeontology and Stratigraphy, Benxi, China.

96. Srivastava S.N., **Srivastava G.**, 2006. *Pedalium murex* Linn. hitherto unrecorded medicinal plant from Uttar Pradesh. *Geophytology,* 36(2), 125–126.

Last updated: 27.06.2025