

Dr. Gaurav SRIVASTAVA

CENOZOIC PALAEOFLOREST 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.: +91 9792704022; Landline no.: +91-522-2742933 (Off.)

**EDUCATION**

| <i>Degree (Subject)</i> | <i>Department/ Institution</i> | <i>Year</i> |
|-------------------------|---|-------------|
| Ph.D. (Botany) | Department of Botany, University of Lucknow | 2011 |
| M.Sc. (Botany) | Department of Botany, University of Lucknow | 2004 |
| B.Sc. | D.A.V. (P.G.) College, Azamgarh | 2001 |

EMPLOYMENTS

| <i>Organizations</i> | <i>Durations</i> | <i>Positions</i> |
|--|------------------|--------------------|
| Birbal Sahni Institute of Palaeosciences | 2024– continuing | Scientist 'E' |
| Birbal Sahni Institute of Palaeosciences | 2020–2023 | Scientist 'D' |
| Birbal Sahni Institute of Palaeosciences | 2016–2019 | Scientist 'C' |
| Birbal Sahni Institute of Palaeosciences | 2012–2015 | Scientist 'B' |
| Birbal Sahni Institute of Palaeosciences | 2011–2012 | Research Associate |
| Birbal Sahni Institute of Palaeosciences | 2007–2011 | Project Assistant |
| University of Lucknow | 2005–2006 | Research Scholar |

THESIS TITLE and Ph.D SUPERVISOR

- Palaeofloristics of northeast India and its implications based on megaremain.
- Dr. Rakesh C. Mehrotra (Retired Scientist G and Addn. Director of the Birbal Sahni

Institute of Palaeosciences, Lucknow)

AREA OF SPECIALISATION

- Cenozoic megafossils

#

RESEARCH INTEREST

- Late Cretaceous to Cenozoic biotic response and hyperthermal events.
- Monsoon evolution and intensification during the Cenozoic
- Angiosperm evolution, diversification, and distribution.

METHODOLOGY#

- Systematics
- CLAMP (Climate Leaf Analysis Multivariate Program)(<https://clamp.ibcas.ac.cn/>)
- CA (Coexistence Approach) (<https://www.neclime.de/index.html>)

PROFESSIONAL MEMBERSHIP#

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

HONOURS and AWARDS

1. *President's International Fellowship* (2019) from the Chinese Academy of Sciences, China.
2. *President's International Fellowship* (2018) from the Chinese Academy of Sciences, China.
3. *Diamond Jubilee Medal* (2018) from the Birbal Sahni Institute of Palaeosciences for publishing papers in high-quality refereed journals.
4. *Sharda Chandra Memorial Gold Medal* (2016) from the Palaeontological Society of India, Lucknow for outstanding contribution in the field of palaeontology.
5. *Prof. R.C. Mishra Gold Medal* (2015) from the Wadia Institute of Himalayan Geology, Dehradun for the best piece of research work in Geosciences.
6. *Diamond Jubilee Medal* (2014) from the Birbal Sahni Institute of Palaeosciences for

publishing papers in high-quality refereed journals.

7. *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.
8. *Graduate Aptitude Test (GATE)–2006* (Life Sciences)

#

#NHOUSE (BSIP) RESEARCH PROJECT

- Member of Project 3 entitled “*Pre-and post-collision biotic turnover(s) and climate change(s) pertaining to India*”. (Status: Ongoing).

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*”. (Status: Completed).

Ph.D STUDENTS

- Ms. Harshita Bhatia (Status: Thesis submitted)
- Mr. Sadanand (Status: Ongoing)

JOURNALS EDITORIAL BOARD MEMBER

- Global and Planetary Change, Elsevier (<https://www.sciencedirect.com/journal/global-and-planetary-change/about/editorial-board>).
- Earth History and Biodiversity, Elsevier (<https://www.sciencedirect.com/journal/earth-history-and-biodiversity/about/editorial-board>).
- PhytoTalks (<https://phytotalks.com/index.php/pt>).

REVIEWER OF THE JOURNALS

PNAS;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;ActaPalaeobotanica;Himalayan Geology; Current

Science; Palaeobotanist, and Geophytology.

CONFERENCES/ MEETINGS

1. 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.
2. 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.
3. 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.
4. 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.
5. Participated and presented a paper (Keynote Address) on “*Cenozoic flora and climate of India 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.
6. 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.
7. 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.
8. 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.
9. *ATBC Asia-Pacific Chapter Meeting*, March 25–28, 2017 organised by

- Xishuangbanna Tropical Botanical Garden, Menglun, Mengla, Yunnan Province, China.
10. 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.
 11. International conference on *Plant Culture and Environment*, Henan province, China, Sept. 18–23, 2012.
 12. World conference on *Paleontology and Stratigraphy* Nakhon Ratchasima, Thailand, Nov. 28–Dec. 2, 2011.
 13. 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.
 14. 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.
 15. *Plant life through the ages*, Nov. 16–17, 2008, organized by Birbal Sahni Institute of Palaeobotany, Lucknow.
 16. 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.
 17. *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.
 18. *XXI Indian Colloquium on Micropalaeontology and Stratigraphy*, Nov. 16–17, 2007, organized by Birbal Sahni Institute of Palaeobotany, Lucknow.
 19. *National Field Workshop in Neogene Succession of Mizoram* Nov. 1–3, 2007, organized by Department of Geology, Mizoram University, Aizawl.
 20. *Entrepreneurship Awareness Camp*, October 14–16, 2006, Co-ordinating Agency: Entrepreneurship development Centre, University of Lucknow, Lucknow.
 21. *National Conference on Biodiversity & Applied Botany of Plants*, Oct. 8–10, 2003 organized by Department of Botany, University of Lucknow.

PUBLICATIONS

Google Scholar *H-index*:22

Google Scholar *citations*:1983

1. **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.
2. Adhikari, P., **Srivastava, G.**, Paudyal, 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*. Springer, pp. 89–111.
3. Bhatia H., **Srivastava G.**, Mehrotra R.C., 2023. Cordiaceae wood from the Miocene sediments of northeast India and its phytogeographical significance. *IAWA J. (In press)*.
4. **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.
5. Gao Yi, Song Ai, Deng W.-Y.-D., Chen Lin-Lin, Liu Jia, Li Wei-Cheng, Srivastava Gaurav, Spicer R.A., Zhou Zhe-Kun, Su Tao, 2023. The oldest fossil record of *Bauhinias.s.* (Fabaceae) from the Tibetan Plateau sheds light on its evolutionary and biogeographic implications. *Journal of Systematic Palaeontology*, 21, 2244495.
6. 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.
7. 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.
8. Bhatia H., **Srivastava G.**, Mehrotra R.C., 2023. Legumes from the Paleocene sediments of India and their ecological significance. *Plant Diversity*45, 199–210.
9. Adhikari P., Bhatia H., Khatri D.B., **Srivastava G.**, Uhl D., Mehrotra R.C., Paudyal K.N., (2023) Plant fossils from the Middle Siwalik of eastern Nepal and their climatic and phytogeographic significance. *Palaeobiodiversity and Palaeoenvironment*103, 57–69.
10. Bhatia H., **Srivastava G.**, Adhikari P., Su Tao, Utescher T., Paudyal K.N., Mehrotra

- R.C., 2022. Asian monsoon and vegetation shift: evidence from the Siwalik succession of India. *Geological Magazine*159, 1397–1414.
11. 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.
 12. 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.
 13. 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.
 14. 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.
 15. 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.
 16. Bhatia H., **Srivastava G.**, Spicer R.A., Farnsworth A., Spicer T.E.V., Mehrotra R.C., Paudyal K.N., Valdes P. 2021. Leaf physiognomy records the Miocene intensification of the south Asia monsoon. *Global and Planetary Change*196, 103365.
 17. **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.
 18. Bhatia H., **Srivastava G.**, Mehrotra R.C., 2021. Late Oligocene climate and floristic diversity of Assam, Northeast India. *Palaeobotanist* 69, 73–92.
 19. 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.
 20. 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.

21. 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.
22. 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.
23. **Srivastava Gaurav**, 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.
24. **Srivastava Gaurav**, Mehrotra R.C. (2018) *Barringtonia* Forster & Forster (Lecythidaceae) leaf from the late Oligocene of Assam, India. *Palaeobotanist*, 67, 139–145.
25. **Srivastava Gaurav**, 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.
26. **Srivastava Gaurav**, 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.
27. Mehrotra, R.C., **Srivastava Gaurav** (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.
28. **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.
29. Mehrotra R.C., **Srivastava Gaurav**, 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.
30. **Srivastava Gaurav**, Paudyal 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.

31. Adhikari P., Srivastava G., Mehrotra R.C., Adhikari D., Shrestha K., Uhl D., Paudyal 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.
32. 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.
33. **Srivastava Gaurav**, Tiwari R.P., Mehrotra R.C. (2017) Quantification of rainfall during the late Miocene-early Pliocene in northeast India. *Current Science* 113: 2253–2257.
34. **Srivastava Gaurav**, Purushottam A., Mehrotra R.C., Paudel L., Paudyal 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.
35. 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.
36. 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.
37. 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.
38. Mehrotra R.C., **Srivastava Gaurav** (2017) *In Situ* Lecythidaceae wood from the Oligocene of Makum Coalfield, northeast India. *IAWA* 38(2), 162–169.
39. 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.
40. 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.
41. **Srivastava Gaurav**, Trivedi A., Mehrotra R.C., Paudyal 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.
42. Mehrotra R.C., **Srivastava Gaurav**, Basumatary S.K. (2016) Fossil woods from the late Miocene-Pliocene sediments of Arunachal Pradesh. *Geophytology* 46(2), 163–172.
43. **Srivastava Gaurav**, 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.
44. **Srivastava Gaurav**, Mehrotra R.C. (2015) *Davidocarpon*, a new name for *Dilcherocarpon*. *Novon* 24, 212.
45. 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 Gaurav**, 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.
46. Tiwari R.P., Z. Ralte Victor, Zoramthara C., **Srivastava Gaurav**, Mehrotra R.C., Paul S., Dutta S. (2015) Fossil leaf in Amber from the Bhuban Formation, Mizoram, India. *Himalayan Geology* 36(1), 33–38.
47. **Srivastava Gaurav**, 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.
48. **Srivastava Gaurav**, Mehrotra R.C. (2014) Phytogeographical implication of *Bridelia* Will. (Phyllanthaceae) fossil leaf from the late Oligocene of India. *PLoS ONE* 9(10), e111140.
49. Srivastava Rashmi, **Srivastava Gaurav**, 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.
50. Srivastava Rashmi, **Srivastava Gaurav** (2014) Fossil fruit of *Cocos* L. (Arecaceae) from Maastrichtian-Danian sediments of central India and its phytogeographical significance. *Acta Palaeobotanica* 54(1), 67–75.
51. **Srivastava Gaurav**, 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).

52. 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).
53. 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.
54. **Srivastava Gaurav**, 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.
55. 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.
56. **Srivastava Gaurav**, 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.
57. **Srivastava Gaurav**, 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.
58. **Srivastava Gaurav**, 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.
59. Tiwari R.P., Mehrotra R.C., **Srivastava Gaurav**, Shukla Anumeha (2012) The vegetation and climate of a Neogene petrified wood forest of Mizoram, India. *Journal of Asian Earth Sciences* 61, 143–165.
60. **Srivastava Gaurav**, 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.
61. 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.

62. **Srivastava Gaurav**, 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.
63. **Srivastava Gaurav**, 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.
64. Srivastava Rashmi, Saxena R.K., **Srivastava G.** (2012) *Pterospermumocarpon*, a new malvlean fruit genus from the Sindhudurg Formation (Miocene) of Maharashtra, India and its phytogeographical significance. *Journal of Earth System Science* 121(1), 183–193.
65. Singh M. Chandra, Kushwaha R.A.S., **Srivastava Gaurav**, Mehrotra R.C. (2012) New plant remains from the Laisong Formation of Manipur. *Journal of the Geological Society of India* 79, 287–294.
66. Mehrotra R.C., Tiwari R.P., **Srivastava Gaurav** (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).
67. **Srivastava Gaurav**, 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).
68. Mehrotra, R.C., Basumatary, S.K., Bera, S.K., **Srivastava Gaurav**, Sarma, G.C., Baruah, C.K. (2011) First report of the plant fossils from the Manas National Park, Assam, India. *Palaeobotanist* 60, 273–280.
69. 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.
70. **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.
71. Spicer Robert A., Bera Subir, De Bera Sreelekha, Spicer Teresa E.V., **Srivastava Gaurav**, 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.

72. **Srivastava Gaurav**, Mehrotra R.C. (2010) New legume fruits from the Oligocene sediments of Assam. *Journal of the Geological Society of India* 75, 820–828.
73. **Srivastava Gaurav**, Mehrotra R.C. (2010) Tertiary flora of northeast India vis-a-vis movement of the Indian Plate. In: IbotombiSoibam (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).
74. Srivastava Gaurav (2010) Forest destruction in Indian hot spots: A threat to environment. *Earth Science India* (January issue).
75. 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.
76. **Srivastava Gaurav**, Mehrotra R.C., Tiwari R.P. (2009) A new fossil wood from the Tipam Group of North Hlimes, Mizoram. *Palaeobotanist* 58, 29–32.
77. **Srivastava Gaurav**, Srivastava S.N. (2009) New records for the flora of Azamgarh District, U.P. *Journal of Applied Bioscience*, 35(1), 82–85.
78. **Srivastava Gaurav**, 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.
79. Agarwal A., **Srivastava Gaurav** (2008) Forest destruction in eastern Himalaya. *CurrentScience* 94(1), 8.
80. Mehrotra R.C., **Srivastava Gaurav**, 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.
81. Srivastava S.N., **Srivastava G.** (2006) *Pedaliium murex* Linn. hitherto unrecorded medicinal plant from Uttar Pradesh. *Geophytology*, 36(2), 125–126.

Last updated: 14.05.2024