

1. **Name** RAKESH CHANDRA MEHROTRA
 2. **Date and Place of Birth** : Feb. 21, 1959; Nazibabad (Distt. Bijnor), U.P., India
 3. **Present Post** Scientist - G
 4. **Date of joining the Institute** 24th March, 1981

5. **Academic qualifications**

| Year | Examination passed | Name of Board/ University | Subjects | % of Marks |
|------|--------------------|---------------------------|----------|------------|
| 1979 | M.Sc. | Lucknow University | Botany | 70.7 |
| 1981 | Proficiency | Lucknow University | French | |
| 1986 | Ph. D. | Lucknow University | Botany | |

6. **Details of research career in the Institute:**

| Post held | Date | |
|-----------------------------|----------|-----------|
| | From | to |
| Research Scholar | 25.11.80 | 23.03.81 |
| Junior Scientific Assistant | 24.03.81 | 18.04.84 |
| Senior Scientific Assistant | 19.04.84 | 20.04.88 |
| Junior Scientific Officer | 21.04.88 | 31.03.96 |
| Scientist C | 01.04.96 | 31.03.01 |
| Scientist D | 01.04.01 | 31.03.06 |
| Scientist E | 01.04.06 | 30.06.13 |
| Scientist F | 01.07.13 | 30.06.18 |
| Scientist G | 01.07.18 | Till date |

7. **Research Interest** : Tertiary plant megafossils, palaeoclimate, CLAMP analysis

8. **Publications** : More than 150 research papers in various national and international journals

9. **Attended many National and International conferences/symposia/seminars etc.**

10. **Members/ fellows of various Societies:**

Fellow-The Palaeontological Society of India

Fellow- The Palaeobotanical Society of India

Member- International Association of Palaeobotany

Member- International Association of Wood Anatomists

- 11. Medals/Awards** Dr. P.N. Srivastava Award–2003
Team Medal Award-2008
Scientific Output Medal-2012
Scientific Output Medal-2014
Scientific Output Medal-2016

List of Publications

1. **Mehrotra RC**, Prakash U & Bande MB 1983. *Euphorbiocarpon drypeteoides*, a new euphorbiaceous fruit from the Deccan Intertrappean beds of Mandla District, Madhya Pradesh. *Geophytology* **13** (1): 127-135.
2. **Mehrotra RC**, Prakash U & Bande MB 1984. Fossil woods of *Lophopetalum* and *Artocarpus* from the Deccan Intertrappean beds of Mandla District, Madhya Pradesh, India. *Palaeobotanist* **32** (3): 310-320.
3. Bande MB, **Mehrotra RC** & Prakash U 1986. Occurrence of Australian element in the Deccan Intertrappean flora of India. *Palaeobotanist* **35** (1): 1-12.
4. **Mehrotra RC** 1987a. A new dicot wood from the Deccan Intertrappean beds of Mandla District, Madhya Pradesh. *Palaeobotanist* **35** (2): 146-149.
5. **Mehrotra RC** 1987b. Some new palm fruits from the Deccan Intertrappean beds of Mandla District, Madhya Pradesh. *Geophytology* **17** (2): 204-208.
6. Bande MB, Chandra A, Venkatachala BS & **Mehrotra RC** 1988. Deccan Intertrappean floristics and its stratigraphic implications. *Proc. Symp. Palaeocene of India. Limits and subdivision, Lucknow*, 1986: 83-123.
7. **Mehrotra RC** 1988. Fossil wood of *Sonneratia* from the Deccan Intertrappean beds of Mandla District, Madhya Pradesh. *Geophytology* **18** (2): 129-134.
8. **Mehrotra RC** 1989a. Fossil wood of *Walsura* from the Deccan Intertrappean beds of the Mandla District, with a review on the Intertrappean flora of the district. *Rev. Palaeobot. Palynol.* **58**: 205-213.
9. **Mehrotra RC** 1989b. Occurrence of a solenoporoid alga in the Deccan Intertrappean beds of Mohgaonkalan, Chhindwara District, Madhya Pradesh. *Palaeobotanist* **37** (2): 185-188.
10. Ambwani K & **Mehrotra RC** 1989. A new fossil palm wood from the Deccan Intertrappean beds of Shahpura, Mandla District, Madhya Pradesh. *Geophytology* **19** (1): 70-75.
11. **Mehrotra RC** 1990. Further observations on some fossil woods from the Deccan Intertrappean beds of Central India. *Phytomorphology* **40** (1&2): 169-174.
12. Awasthi N & **Mehrotra RC** 1990. Some fossil woods from Tipam Sandstone of Assam and Nagaland. *Palaeobotanist* **38**: 277-284.
13. Awasthi N, **Mehrotra RC** & Lakhanpal RN 1992. Occurrence of *Podocarpus* and *Mesua* in the Oligocene sediments of Makum Coalfield, Assam, India. *Geophytology* **22**: 193-198.
14. Awasthi N & **Mehrotra RC** 1993. Further contribution to the Neogene flora of Northeast India and significance of African element. *Geophytology* **23** (1): 81-92.

15. Bande MB, **Mehrotra RC** & Awasthi N 1993. Revision of *Callistemonites indicus* Bande, Mehrotra & Prakesh from the Deccan Intertrappean beds of Mandla District, Madhya Pradesh. *Palaeobotanist* **42** (1): 66-69.
16. Awasthi N & **Mehrotra RC** 1994. A liliaceous inflorescence. *Curr. Sci.* **67** (2): 78.
17. **Mehrotra RC** & Srivastava R 1994. Araucarian seed scale from the Deccan Intertrappean beds of India. *J. Indian bot. Soc.* **73**: 329-330.
18. Awasthi N, **Mehrotra RC** & Bhattacharyya A 1994. Fossil wood of *Cynometra* from the Neogene of Tripura, India. *Geophytology* **23** (2): 291-293.
19. **Mehrotra RC** & Awasthi N 1995. Status of gymnosperms in the Indian Tertiary flora. *Palaeobotanist* **43** (1): 82-88.
20. Awasthi N & **Mehrotra RC** 1995. Oligocene flora from Makum Coalfield, Assam, India. *Palaeobotanist* **44**: 157-188.
21. Awasthi N, **Mehrotra RC** & Srivastava R 1996. Fossil woods from the Deccan Intertrappean beds of Madhya Pradesh. *Geophytology* **25** (1-2): 113-118.
22. Awasthi N, **Mehrotra RC** & Khare EG 1996. A borassoid palm root from the Deccan Intertrappean beds of Wardha District, Maharashtra with critical remarks on fossil roots of *Eichhornia*. *Geophytology* **26** (1): 57-61.
23. Awasthi N & **Mehrotra RC** 1997. Some fossil dicotyledonous woods from the Neogene of Arunachal Pradesh, India. *Palaeontographica B* **245**: 109-121.
24. Dutta Choudhury M, **Mehrotra RC** & Mazumder BI 1997. *Gluta* from a new locality of Tipam Sandstone, Assam, India. *Phytomorphology* **47** (4): 401-403 .
25. **Mehrotra RC** & Mandaokar BD 1998. Fossil wood resembling *Duabanga* from Tipam Sandstone of Makum Coalfield, Assam. *Geophytology* **26** (2): 99-101 .
26. **Mehrotra RC**, Dilcher DL & Awasthi N 1998. A Palaeocene *Mangifera*-like fossil from India. *Phytomorphology* **48** (1): 91-100.
27. Guleria JS & **Mehrotra RC** 1999. On some plant remains from Deccan Intertrappean localities of Seoni and Mandla Districts of Madhya Pradesh, India. *Palaeobotanist* **47**: 68-87 .
28. **Mehrotra RC**, Awasthi N & Dutta SK 1999. Study of fossil wood from the Upper Tertiary sediments (Siwalik) of Arunachal Pradesh, India and its implication in palaeoecological and phytogeographical interpretations. *Rev. Palaeobot. Palynol.* **107** : 223-247.
29. **Mehrotra RC** 2000a. Study of plant megafossils from the Tura formation of Nangalbibra, Garo Hills, Meghalaya, India. *Palaeobotanist* **49**: 225-237.
30. **Mehrotra, RC** 2000b. A new rhizome-like structure from near Jowai, Jaintia Hills, Meghalaya. *Palaeobotanist* **49**: 329-331.
31. **Mehrotra RC** 2000c. Two new fossil fruits from Oligocene sediments of Makum Coalfield, Assam, India. *Curr. Sci.* **79** (10): 1482-1483.
32. **Mehrotra RC** & Mandaokar BD. 2000. Leaf impressions from Oligocene sediments of Manmao, Tirap District, Arunachal Pradesh, India. *Palaeobotanist* **49**: 311-315.
33. Srivastava AK, Abbas SR, **Mehrotra RC** & Srivastava, R 2000. Cecidomyiid leaf galls from Palaeocene leaf of Northeast India. *Acta Palaeobotanica* **40** (1): 43-47.
34. Tiwari RP & **Mehrotra RC** 2000. Fossil woods from the Tipam Group of Mizoram, India. *Ter. Res.* **20** (1): 85-94.

35. **Mehrotra RC**, Mandaokar BD, Tiwari RP & Rai, V. 2001. *Teredolites clavatus* from the Upper Bhuban Formation of the Aizawl District, Mizoram, India. *Ichnos* **8** (1): 63-68.
36. Tiwari, R.P. & **Mehrotra, R.C.** 2002. Plant impressions from the Barail Group of Champhai-Aizawl road section, Mizoram, India. *Phytomorphology*, **52**: 69-76.
37. **Mehrotra, R.C.**, Shukla, M. & Tiwari, R.P. 2002. Occurrence of *Palaeophycus* in the Barail sediments of Mizoram, India. *Biol. Memoirs*, **28** (1): 45-49.
38. **Mehrotra, R.C.** & Mandaokar, B.D. 2002. A new leguminous fruit from the Middle Bhuban Formation of Aizawl, Mizoram. *J. geol. Soc. India*, **60**: 465-466.
39. **Mehrotra, R.C.** & Bhattacharyya, A. 2002. Wood of *Dipterocarpus* from a new locality of the Champanagar Formation of Tripura, India. *Palaeobotanist*, **51**: 123-127.
40. **Mehrotra, R.C.**, Tewari, R. & Joshi, A. 2003. Application of fossil cuticles in determining palaeoatmospheric CO₂ concentration. *Curr. Sci.*, **84** (1): 93-94.
41. Joshi, A., Tewari, R., **Mehrotra, R.C.**, Chakraborty, P.P. & De, A. 2003. Plant remains from the Upper Siwalik sediments of West Kameng District, Arunachal Pradesh, India. *J. geol. Soc. India*, **61** (3): 319-324.
42. Joshi, A. & **Mehrotra, R.C.** 2003. A thelypteridaceous fern from the Lower Siwalik of the East Kameng District, Arunachal Pradesh, India. *J. geol. Soc. India*, **61** (4): 483-486.
43. **Mehrotra, R.C.**, Tiwari, R.P. & Mazumder, B.I. 2003. *Nypa* megafossils from the Tertiary sediments of Northeast India. *Geobios*, **36**: 83-92.
44. Joshi, A., **Mehrotra, R.C.** & De, A. 2003. A fossil wood from the Upper Siwalik sediments of West Kameng District, Arunachal Pradesh, India. Proceedings of Fourth South Asia Geological Congress (GEOSAS - IV), The Director General Geol. Surv. India, Kolkata, pp. 312-315.
45. **Mehrotra, R.C.** 2003. Status of plant megafossils during the Early Paleogene in India, in Wing, S.L., Gingerich, P.D., Schmitz, B. & Thomas, E., eds., *Causes and Consequences of Globally Warm Climates in the Early Paleogene*: Boulder, Colorado, Geological Society of America Special paper 369, p. 413-423.
46. **Mehrotra, R.C.** 2003. *Rhizocaulites*, a new name for *Rhizocaulon* R.C. Mehrotra (2000), non *Rhizocaulon* Saporta (1861). *Taxon*, **52** (4): 859.
47. Jauhri, A.K., Mandaokar, B.D., **Mehrotra, R.C.**, Tiwari, R.P. & Singh, A.P. 2003. Corals and foraminifera from the Miocene (Upper Bhuban Formation) of Mizoram, India. *J. palaeontol. Soc. India*, **48**: 135-138.
48. Tewari, R. & **Mehrotra, R.C.** 2004. Cuticular Fragments from the Makum Coalfield, Tinsukia District, Assam and their palaeoclimatic significance. *Phytomorphology*, **53** (3 & 4): 269-284.
49. **Mehrotra, R.C.**, Pande, N. & Ralimongla. 2004. Two fossil woods from Miocene sediments of Changki, Mokokchung district, Nagaland. *Geophytology* **32** (1 & 2): 79-82.
50. Mandaokar, B.D., **Mehrotra, R.C.** & Mazumdar, B.I. 2004. Fossil woods from Middle Miocene sediments of Karimganj, Assam, India. *Geophytology* **32** (1 & 2): 119-121.

51. Awasthi, N. & **Mehrotra, R.C.** 2005. *Givotioxylon ricinodendroides* gen. et sp. nov. a fossil wood from the Neogene sediments of Tirap district, Arunachal Pradesh, in Bahadur, Bir ed., *Gleanings in Botanical Research Current Scenario (Prof. C.G.K. Ramanujam Commemoration Volume)*: Dattsons, Nagpur, India, pp. 255-258.
52. Guleria, J.S., **Mehrotra, R.C.** & Awasthi, N. 2005. Nomenclature of Cenozoic megafossils, in Bahadur, Bir ed., *Gleanings in Botanical Research Current Scenario (Prof. C.G.K. Ramanujam Commemoration Volume)*: Dattsons, Nagpur, India, pp. 301-310.
53. Mandaokar, B.D., Upadhyay, R. & **Mehrotra, R.C.** 2005. Animal remains from the Bhuban Formation of the Lunglei District, Mizoram. *J. geol. Soc. India*, **53** (3 & 4): 269-284.
54. **Mehrotra, R.C.**, Liu, Xiu-Qun, Li, Cheng-Sen, Wang, Yu-Fei & Chauhan, M.S. 2005. Comparison of the Tertiary flora of southwest China and northeast India and its significance in the antiquity of the modern Himalayan flora. *Rev. Palaeobot. Palynol.*, **135**: 145-163.
55. Guleria, J.S., Hemanta Singh, R. K., **Mehrotra, R.C.**, Soibam, I. & Kishor, R. 2005. Palaeogene plant fossils of Manipur and their palaeoecological significance. *Palaeobotanist*, **54**: 61-77.
56. Tewari, R., Mandaokar, B.D & **Mehrotra, R.C.** 2005. Fossil cuticles from the Oligocene sediments of Northeast India. *J. Applied Biosci.*, **31** (2): 90-104.
57. **Mehrotra, R.C.**, Bhattacharyya, A., Shah, S.K. 2006. Petrified Neogene woods of Tripura. *Palaeobotanist*, **55** (1-3): 67-76.
58. Joshi, A. & **Mehrotra, R.C.** 2007. Megaremain from the Siwalik sediments of West and East Kameng Districts, Arunachal Pradesh. *J. Geol. Soc. India*, **69**: 1256-1266.
59. **Mehrotra, R.C.**, Paul, A.K. & Verma, S.K. 2007. Plant remains from the Disang Group of Wokha District, Nagaland, India. *Current Science*, **92** (5): 597-598.
60. Paul, S.K., Ram-Awatar, **Mehrotra, R.C.**, Sharma, A., Phartiyal, & Dorjey, C.P. 2007. A new fossil palm leaf from the Hemis Formation of Ladakh, Jammu and Kashmir, India. *Current Science*, **92** (6): 727-729.
61. **Mehrotra, R.C.**, Ram-Awatar, Sharma, A. & Phartiyal, B. 2007. A new palm leaf from the Indus Suture Zone, Ladakh Himalaya, India. *J. Palaeontol. Soc. India*, **52** (2): 159-162.
62. **Mehrotra, R.C.**, Srivastava, G. & Bera, S.K. 2007. Two new fossil woods from the Surma Group of Assam, India. In: Proc. International Symposium on Paleontology & Stratigraphy (Oct. 4-7, 2007), pp. 67-70, Sun G. (Ed.), Benxi, China.
63. **Mehrotra, R.C.** 2008. Antiquity and migratory paths of angiosperms in India. *Palaeobotanist*, **57**: 217-220.
64. **Mehrotra, R.C.**, Dilcher, D. & Lott, T.A. 2009. Notes on elements of the Oligocene flora from the Makum Coalfield, Assam, India. *Palaeobotanist*, **58**: 1-9.
65. Srivastava, G., **Mehrotra, R.C.** & Tiwari, R.P. 2009. Fossil wood from the Tipam Group of North Hlimes, Mizoram. *Palaeobotanist*, **58**: 29-32.
66. Srivastava, R. & **Mehrotra, R.C.** 2009. Plant fossils from Dafla Formation, West Kameng District, Arunachal Pradesh. *Palaeobotanist*, **58**: 33-49.
67. 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. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, **283**: 91-98.

68. **Mehrotra, R.C. 2009.** Biotic Response from northeast India in context of India-Asia collision with special reference to Mizoram. Souvenir Volume of National Seminar on *Geodynamics, sedimentation and biotic response in the context of India-Asia collision*, pp. 67-76, Department of Geology, Mizoram University and Geological Society of India, Bangalore..
69. Srivastava, G. & **Mehrotra, R.C.** 2010. New legume fruits from the Oligocene sediments of Assam. *J. Geol. Soc. India*, **75**: 820-828.
70. **Mehrotra, R.C.** & Mandaokar, B.D. 2010. First record of gymnosperm wood from the Tertiary sediments of North-east India. *Geophytology*, **38** (1-2): 15-18.
71. **Mehrotra, R.C.**, Yao, Y.F. & Li, C.S. 2010. Fossil wood of *Bischofia palaeojavanica* Awasthi from the Eocene of the Changchang Formation of Hainan Island, China. *Palaeobotanist*, **59**: 121-127.
72. Srivastava, G. & **Mehrotra, R.C.** 2010. Tertiary flora of northeast India vis-à-vis movement of the Indian plate. *Mem. Geol. Soc. India No. 75*: 123 – 130.
73. Srivastava, G., Srivastava, R. & **Mehrotra, R.C.** 2011. *Ficus palaeoracemosa* sp. nov.- a new fossil leaf from the Kasauli Formation of Himachal Pradesh and its palaeoclimatic significance. *J. Earth Syst. Sci.*, **120** (2): 253-262.
74. El-Soughier, M.I., **Mehrotra, R.C.**, Zhou, Zhi-Yan & Shi, Gong-Le. 2011. *Nypa* fruits and seeds from the Maastrichtian–Danian sediments of Bir Abu Minqar, South Western Desert, Egypt. *Palaeoworld*, **20** (1): 75-83.
75. Spicer, R.A., Bera, Subir, Bera, Sreelekha De, Spicer, T.E.V., Srivastava, G., **Mehrotra, R.**, Mehrotra, N. & Yang, J. 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. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, **302** (3-4): 381-395.
76. Srivastava, G., Tiwari, R.P. & **Mehrotra, R.C.** 2011. CLAMP: A developing proxy for quantitative estimation of palaeoclimate in India. *Mem. Geol. Soc. India No. 77* 331-344.
77. **Mehrotra, R.C.**, Tiwari, R.P. & Srivastava, G. 2011. Comments on two plant remains from the Bhuban Formation (Early Miocene) of Mizoram, India. *Mem. Geol. Soc. India No. 77*: 345-347.
78. **Mehrotra, R.C.**, Bera, S.K., Basumatary, S K and 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. *J. Earth Syst. Sci.*, **120** (4): 681-701.
79. Chandra Singh, M., Kushwaha, R.A.S., Srivastava, G. & **Mehrotra, R.C.** 2011. Plant remains from the Laisong Formation of Manipur. *J. Geol. Soc. India*, **79** (3): 287-294.
80. **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** (2): 273-280.
81. **Mehrotra, R.C.** 2011. Living gymnosperms of India: past and present. *Phytotaxonomy*, **11**: 80-85.
82. Shukla, A., Guleria, J.S. & **Mehrotra, R.C.** 2012. A fruit wing of *Shorea* Roxb. from the Early Miocene sediments of Kachchh, Gujarat and its bearing on palaeoclimatic interpretation. *J. Earth Syst. Sci.*, **121** (1): 195-201.

83. Srivastava, G. & **Mehrotra, R.C.** 2012. The oldest fossil of *Semecarpus* L.f. from the Makum Coalfield, Assam, India and comments on its origin. *Curr. Sci.*, **102** (3): 398-400.
84. Srivastava, G., **Mehrotra, R.C.** & Bauer, H. 2012. Palm leaves from the Late Oligocene sediments of Makum Coalfield, Assam, India. *J. Earth Syst. Sci.*, **121** (3): 747-754.
85. Cheng, Ye-Ming, **Mehrotra, R.C.**, Jin, Yue-Gao, Yang, Wei & Li, Cheng-Sen. 2012. A new species of *Pistacioxylon* (Anacardiaceae) from the Miocene of Yunnan, China. *IWA J.*, **33** (2): 197–204.
86. Srivastava, G., Spicer, R.A., Spicer, T.E.V., Yang, J., Kumar, M., **Mehrotra, R.** & Mehrotra, N. 2012. Megaflora and palaeoclimate of a Late Oligocene tropical delta, Makum Coalfield, Assam: Evidence for the early development of the South Asia Monsoon. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, **342-343**: 130-142.
87. 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. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, **342-343**: 143-162.
88. Kumar, M., Ghosh, A.K., Ram-Awatar & **Mehrotra, R.C.** 2012. Palynomorphs of Gondwanic affinities in the Oligo-Miocene sediments of Kargil Molasse Group, Ladakh, India. *Palaeobotanist*, **61** (1): 165-176.
89. Shukla, A., **Mehrotra, R.C.** & Guleria, J.S. 2012. *Cocos sahnii* Kaul: A *Cocos nucifera* L.-like fruit from the Early Eocene rainforest of Rajasthan, western India. *J. Biosci.*, **37** (4): 769-776.
90. Shukla, A., **Mehrotra, R.C.** & Tyagi, A. 2012. The oldest fossil of *Eucalyptus* from the Late Maastrichtian–Danian of India and the theory of its Gondwanic origin. *Curr. Sci.*, **103** (1): 74-80.
91. Cheng, Ye-Ming, Yin, Y. F., **Mehrotra, R.C.** & Li, Cheng-Sen. 2012. A new fossil wood of *Koelreuteria* (Sapindaceae) from the Pliocene of China and remarks on the phytogeographic history of *Koelreuteria*. *IWA J.*, **33** (3): 301–307.
92. Tiwari, R.P., **Mehrotra, R.C.**, Srivastava, G. & Shukla, A. 2012. The vegetation and climate of a Neogene petrified wood forest of Mizoram, India. *Journal of Asian Earth Sciences*, **61**:143–165.
93. Shukla, A., **Mehrotra, R.C.** & Guleria, J.S. 2013. Two dicotyledonous woods from the late Neogene sediments of Jaisalmer, Rajasthan. *Palaeobotanist*, **62**: 11-17.
94. Shukla, A., **Mehrotra, R.C.** & Guleria, J.S. 2013. A fossil wood of *Gluta* L. (Anacardiaceae) from the Early Eocene sediments of Gujarat, western India. *Palaeobotanist*, **62**: 65-70.
95. 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): e53177. doi:10.1371/journal.pone.0053177.
96. Srivastava, G. & **Mehrotra, R.C.** 2013. Endemism due to climate change: evidence from *Poeciloneuron* Bedd. (Clusiaceae) leaf fossil from Assam, India. *J. Earth Syst. Sci.*, **122** (2): 283–288.

97. Shukla, A., **Mehrotra, R.C.** & Guleria, J.S. 2013. African elements from the upper Cenozoic sediments of western India and their palaeoecological and phytogeographical significance. *Alcheringa*, **37** (1): 1-18.
98. Basumatary, S.K., Dixit Swati, Bera, S.K. & **Mehrotra, R.C.** 2013. Modern pollen assemblages of surface samples from Cherrapunjee and its adjoining areas, Meghalaya, northeast India. *Quaternary International*, **298**: 68-79.
99. Shukla, A., **Mehrotra, R.C.** & Guleria, J.S. 2013. Emergence and extinction of Dipterocarpaceae in western India with reference to climate change: fossil wood evidences. *J. Earth Syst. Sci.*, **122** (5): 1373–1386.
100. Srivastava, G. & **Mehrotra, R.C.** 2013. Low latitude leaf assemblage from the Late Oligocene sediments of Assam and its phytogeographical significance. *J. Earth Syst. Sci.*, **122** (5): 1341–1357.
101. Shukla, A., **Mehrotra, R.C.** & Guleria, J.S. 2013. First record of a lauraceous wood from the Palaeogene sediments of western India. *Palaeobotanist*, **62**: 181-185.
102. **Mehrotra, R.C.**, Tiwari, R.P., Srivastava, G. & Shukla, A. 2013. Further contribution to the Neogene petrified wood forest of Mizoram, India. *Chinese Sci. Bull.*, **58** Suppl. 1: 104-110.
103. Srivastava, G. & **Mehrotra, R.C.** 2013. Low latitude floral assemblage from the Late Oligocene sediments of Assam and its palaeoclimatic and palaeogeographic significance. *Chinese Sci. Bull.*, **58** Suppl. 1: 156-161.
104. Shukla, A. & **Mehrotra, R.C.** 2013. Cenozoic flora of western India and its significance in palaeoclimatic and palaeophytogeographic interpretation. *Chinese Sci. Bull.*, **58** Suppl. 1: 134-141.
105. Ram- Awatar, **Mehrotra, R.C.**, Srivastava, Rashmi, Yadav, K.C. and Gautam, Saurabh. 2013. Further contributions to the palynological studies showing marine incursion in the Talchir Formation, Manendragarh, Koriya District, Chhattisgarh. *Sci. Tech. J.*, **1** (2): 3-7.
106. **Mehrotra, R.C.**, Shukla, A., Srivastava, G. & Tiwari, R.P. 2014. Miocene megaflora of peninsular India: present status and future prospects. *Special publication of the Palaeontological Soc. India No. 5*: 273-281.
107. Srivastava, G., **Mehrotra, R.C.**, Shukla, A. & Tiwari, R.P. 2014. Miocene vegetation and climate in extra peninsular India: megafossil evidences. *Special publication of the Palaeontological Soc. India No. 5*: 283-290.
108. Monga, P., Srivastava, G., Kumar, M. & **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**(1): 79–85.
109. **Mehrotra, R.C.**, Kumar, M., Ghosh, A.K., Kumar, K. & Arya, R. 2014. Plant remains from the Tharumsa Formation of Ladakh, India. *J. Geol. Soc. India*, **83** (6): 647-652.
110. Shukla, A., **Mehrotra, R.C.** & Guleria, J.S. 2014. A new fossil leaf of *Kleinhovia* L. from the Early Eocene of India and its palaeoclimatic and phytogeographical significance. *J. Geol. Soc. India*, **84** (2): 159-162.
111. Shukla, A. & **Mehrotra, R.C.** 2014. Paleoequatorial rain forest of western India during the EECO: evidence from *Uvaria* L. fossil and its geological distribution pattern. *Historical Biology*, **26** (6): 693-698.

112. Shukla, A., **Mehrotra, R.C.** & Guleria, J.S. 2014. Palaeophytogeography of *Eucalyptus* L'Herit: new fossil evidences. *J. Geol. Soc. India*, **84** (6): 693-700.
113. Shukla, A., **Mehrotra, R.C.**, Spicer, R.A., Spicer, T.E.V. & Kumar, M. 2014. Cool equatorial terrestrial temperatures and the South Asian monsoon in the early Eocene: evidence from the Gurha Mine, Rajasthan, India. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, 412: 187-198.
114. 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; doi:10.1371/journal.pone.0111140.
115. Shukla, A., **Mehrotra, R.C.**, Mandal, N. and Thakkar, M.G. 2015. Two new fossil woods from the early Miocene of Kutch, Gujarat, India and their significance. *Historical Biology*, **27** (8): 970-977.
116. Srivastava, G., Gaur, R. & **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. *J. Earth Syst. Sci.*, **24** (1): 227-239.
117. Tiwari, R.P., Ralte, V.Z., Zoramthara, C., Srivastava, G., **Mehrotra, R.C.**, Paul, S. & Dutta, S. 2015. Fossil Leaves in Amber from the Bhuban Formation, Mizoram, India. *Himalayan Geology*, **36** (1): 33-38.
118. Sun, Bin, Wang, Yu-Fei, Li, Cheng-Sen, Yang, Jian, Li, Jin-Feng, Li, Ye-Liang, Deng, Tao, Wang, Shi-Qi, Zhao, Min, Spicer, R.A., Ferguson, D.K. & **Mehrotra, R.C.** 2015. Early Miocene elevation in northern Tibet estimated by palaeobotanical evidence. *Scientific Reports*, 5: 10379; doi: 10.1038/srep10379.
119. Yang, J. Spicer, Robert A., Spicer, Teresa E.V., Arens, Nan Crystal, Jacques, Frédéric M.B., Su, Tao, Kennedy, Elizabeth M., Herman, Alexei B., Steart, David C., Srivastava, Gaurav, **Mehrotra, Rakesh C.**, Valdes, Paul J., Mehrotra, Naresh C., Zhou, Zhe-Kun & Lai, Jiang-Shan. 2015. Leaf form-climate relationships on the global stage: an ensemble of characters. *Global Ecology & Biogeography*, **10**: 1113-1125.
120. Srivastava & **Mehrotra, R.C.** 2015. *Davidocarpon*, a new name for *Dilcherocarpon*. *Novon*, 24 (2): 212.
121. Shukla, A., Singh, H. & **Mehrotra, R.C.** 2015. A fossil wood of *Gynocardia* from the Valia lignite mine, Bharuch District, Gujarat. *Palaeobotanist*, 64: 163-168.
122. Srivastava, G., Trivedi, A., **Mehrotra, R.C.**, Paudyal, K.N., Limaye, R.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. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, **443**: 57-65.
123. Singh, H., Shukla, A. & **Mehrotra, R.C.** 2016. A fossil coconut fruit from the early Eocene of Gujarat. *J. Geol. Soc. India*, **87** (3): 268-270.
124. Shukla, A. & **Mehrotra, R.C.** 2016. *Holigarna* (Anacardiaceae) from the early Eocene of western India and its palaeogeographical and palaeoclimatological significance. *J. Geol. Soc. India*, **87** (5): 520-524.
125. Shukla, A., **Mehrotra, R.C.**, Spicer, R.A. & Spicer, T.E.V. 2016. *Aporosa* Blume from the paleoequatorial rainforest of Bikaner, India: its evolution and diversification in deep time. *Rev. Palaeobot. Palynol.* **232**: 14-21.

126. Manchester, Steven R., Bonde, Suresh D., Nipunage, Dinesh S., Srivatava, Rashmi, Mehrotra, Rakesh C. & Smith, Selena Y. 2016. Trilocular palm fruits from the Deccan Intertrappean beds of India. *Int. J. Plant Sci.*, 177 (7): 633–641.
127. Shukla, A. & **Mehrotra, R.C.** 2016. Early Eocene (~50 m. y.) legume fruits: first report from Rajasthan. *Curr. Sci.*, **111** (3): 465-467.
128. Kumar, M., Spicer, R.A., Spicer, T.E.V., Shukla, A., **Mehrotra, R.C.** & Monga, P. 2016. Palynostratigraphy and palynofacies of the early Eocene Gurha lignite mine, Rajasthan, India. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, 461: 98-108.
129. **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.
130. Tripathi, S., Basumatary, S. K., Bera, S. K., **Mehrotra, R. C.** & Sarma, G. C. 2016. Modern pollen-vegetation relationship from the tropical flora of eastern buffer zone of Manas National Park, Assam, northeast India. *Geophytology*, **46** (2): 121-131.
131. **Srivastava, G. and Mehrotra, R.C.** 2016. Recent trends in the Tertiary megafossil research in northeast India. In: Recent Trends in Earth Science Research with Special Reference to NE India, Srivastava, S.K., pp. 167-179, Today & Tomorrow's Printes and Publishers, New Delhi.
132. 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. *J. Geol. Soc. India*, **89** (3): 321-324.
133. Ding, Lin, Spicer, R. A., Yang, Jian , Xu, Qiang, Cai1, Fulong, Li1, Shun, Lai1, Qingzhou, Wang, Houqi, Spicer, T. E.V., Yue, Yahui, Shukla, A., Srivastava, G., Khan, M. Ali, Bera, S. & **Mehrotra, R.** 2017. Quantifying the rise of the Himalaya orogen and implications for the South Asian monsoon. *Geology*, **45** (3): 215-218.
134. Lokho, Kapesa, Srivastava, Gaurav & **Mehrotra, R.C.** 2017. A note on plant remains from the Paleogene sediments of the Naga Hills, Indo-Burma suture zone. *Him. Geol.*, **38** (1): 86-90.
135. Kumar, M., Monga, P., Shukla, A. & **Mehrotra, R.C.** 2017. *Botryococcus* from the early Eocene lignite mines of western India: inferences on morphology, taphonomy and palaeoenvironment. *Palynology* **41** (4): 462-471; <http://dx.doi.org/10.1080/01916122.2016.1259667>.
136. **Mehrotra, R.C.** & Srivastava, G. 2017. *In situ* Lecythidaceae wood from the Oligocene of Makum coalfield, northeast India. *IAWA J.* 38 (2): 162-169.
137. Kathal, P.K., Srivastava, R., **Mehrotra, R. C.** & Alexander, P.O. 2017. *Rhizopalmoxydon nypoides* – a new palm root from the Deccan Intertrappean beds of Sagar, Madhya Pradesh, India. *J. Earth Syst. Sci.* 126: 35.
138. **Mehrotra, R.C.**, Mehrotra, N., Srivastava, G. & Shah, S.K. 2017. Occurrence of fossil woods in the Unakoti district, Tripura and their palaeoclimatic significance. *J. Palaeontol. Soc. India*, **62** (1): 17-30.
139. Shukla, A. & **Mehrotra, R.C.** 2017. The oldest fossil of *Duabanga* from Kutch, western India. *IAWA J.* **38** (4): 553-560.
140. Spicer, R., Yang, J., Herman, A., Kodrul, T., Aleksandrova, G., Maslova, N., Spicer, T., Ding, L., Xu, Q., Shukla, A., Srivastava, G., **Mehrotra, R.**, Liu, X. & Jin, J.-H. 2017. Paleogene monsoons across India and South China: Drivers of biotic change. *Gond. Res.* **49**: 350-363.

141. Dutta, S., **Mehrotra, R.C.** Paul, S., Tiwari, R.P., Bhattacharya, S., Zoramthara, C., Srivastava, G. & Ralte, V.Z. 2017. Remarkable preservation of terpenoids and record of volatile signaling in plant-animal interactions from Miocene amber. *Scientific Reports* 7: 10940 | DOI:10.1038/s41598-017-09385-w.
142. Srivastava, G., Adhikari, P., **Mehrotra, R. C.**, Paudel, L. and Paudyal, K. N. 2017. *Dipterocarpus* Gaertn. (Dipterocarpaceae) leaf from the Middle Siwalik of eastern Nepal and its phytogeographic and climatic significance. *J. Nepal Geol. Soc.*, **53**: 39-46.
143. Srivastava, G., Tiwari, R.P. & **Mehrotra, R.C.** 2017. Quantification of rainfall during the late Miocene-early Pliocene in northeast India. *Curr. Sci.*, **113** (12): 2253-2257.
144. Srivastava, G. & **Mehrotra, R.C.** 2017. Neogene flora of Arunachal Himalaya. In: Das, A.P. & Bera, S. (Eds.), Plant Diversity in the Himalaya Hotspot Region, Bishen Singh Mahendra Pal Singh, Dehradun, pp. 465-478.
145. Shukla, A., **Mehrotra, R.C.** & Singh, H. 2017. A fossil wood from the Cambay Shale Formation of Mangrol lignite mine, Gujarat. *Geophytology* **47** (2): 199-203.
146. Srivastava, G., Paudyal, Khum N., Utescher, T. & **Mehrotra, R.C.** 2018. Miocene vegetation shift and climate change: evidence from the Siwalik of Nepal. *Global & Planetary Change*, 161: 108-120.
147. **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. *J. Geol. Soc. India*, **91** (6): 695-699.
148. Srivastava, G., **Mehrotra, R. C.** & Srikarni, C. 2018. Fossil wood flora from the Siwalik Group of Arunachal Pradesh, India and its climatic and phytogeographic significance. *J. Earth Syst. Sci.*, 127:2; doi.org/10.1007/s12040-017-0903-2.
149. Shukla, A. & **Mehrotra, R.C.** 2018. A new fossil wood from the highly diverse early Eocene equatorial forest of Gujarat (western India). *Palaeoworld* (in press).
150. Awasthi, N., **Mehrotra, R.C.** & Shukla, A. 2018. Some new woods from the Cuddalore Sandstone of south India. *Palaeobotanist*, 67: 33-46.
151. Srivastava, G., **Mehrotra, R. C.** & Dilcher, D.L. 2018. Paleocene *Ipomoea* (Convolvulaceae) from India with implications for an East Gondwana origin of Convolvulaceae. *PNAS*, **115** (23): 6028-6033.
152. 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. *Rev. Palaeobot. Palynol.*, 255: 14-21.