Biodata

Name : SUBIR BERA

Present position : Professor & Program Coordinator (UGC CAS-VII)

Date of Birth : February 09, 1962

Official Designation, Address, Telephone No and e-mail:

Professor and Program Coordinator
Centre of Advanced Study-Phase VII, Department of Botany, University of Calcutta,
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Verdant Satya; 17H, East Road; Jadavpur, Kolkata-700032,
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Teaching experience:

More than 29 years of teaching experience in different branches of Botany at UG and PG level

Areas of specialization:

1. Global climate change
2. Quantitative palaeoclimatology
3. Palaeoecology

Academic qualifications

Year	Degree	University/ Institution
1983	B. Sc.	University of Calcutta
1985	M. Sc.	University of Calcutta
1987	M. Phil.	University of Calcutta
1995	Ph. D. (Sc.)	University of Calcutta

Positions held (chronological order)

Year	University/ Institution	Position held
27.07.2006– till date	University of Calcutta	Professor of Botany
16.11.2000	University of Calcutta	Reader in Botany
4.07.2000–15.11.2000	University of Burdwan	Reader in Botany
27.07.1998 – 4.07.2000	Presidency College, Calcutta (West Bengal Education Service)	Reader in Botany
27.03.1995–26.07.1998	Presidency College, Calcutta (West Bengal Education Service)	Assistant Professor of Botany
01.03.1989 –23.03.1995	Darjeeling Govt. College (West Bengal	Lecturer in Botany

	Education Service)	

Awards and Honors

Sl. No	Name of Award	Award Agency	Year
1	Fellow, The Linnean Society, London	The Linnean Society, London	2018
2	Prof. A.K. Ghosh Memorial Award	Botanical Society of Bengal	2017
3	The Excellent Scholar Award	XIX, International Botanical Congress, China	2017
4	Fellow, West Bengal Academy of Science and Technology	West Bengal Academy of Science and Technology, Kolkata	2016
5	Fellow, Palaeobotanical Society	Palaeobotanical Society, Lucknow	2014
6	Fellow, Indian Fern Society	Indian Fern Society, Patiala	2008
7	S.S. Bir Gold Medal	Indian Fern Society, Patiala	2008

Memberships of Learned Societies/Associations/Academies

- Member, National Academy of Sciences, India; Allahabad (MNASc)
- Treasurer, International Organisation of Palaeobotany, Indian chapter
- Member, International Association of Pteridologists
- Member of the Executive Council, Palaeobotanical Society of India (2013-15)
- Member, Indian fern Society, Patiala
- Honorary Secretary, Botanical Society of Bengal
- Member of East Himalayan Society for Spermatophyte Taxonomy

Research Guidance

- **Number of Ph.D. thesis supervised :** 15
- **Number of students persuing Ph.D :** 08

Total Research Articles: 193

Citations *1869*
h-index *21*
i10-index *57*

Publications from 2000-2019:

A. Research Papers Published in Journals

1. Sinha, N., Chakraborty, S., Chattopadhyay, R., Goswani, B.N., Mohan, P.M., Parua, D.K., Sarma, D., Datye, A., Sengupta, S., **Bera, S**., Baruah, K.K. 2019. Isotopic investigation of the moisture transport processes over the Bay of Bengal. Journal of Hydrology. Doi: 10.1016/j.hydroa.2019.100021.

2. Vishnu (nee Mandal), A., Khan, M.A., Bera, M., Acharya, K., Dilcher, D.L., **Bera, S.** 2019. Occurrence of *Phoma*Sacc. in the phyllosphere of Neogene Siwalik forest of Arunachal sub-

Himalaya and its palaeoecological implications. Fungal Biology. 123: 18-28. doi.org/10.1016/j.funbio. 2018.10.007.

3. Mukherjee, B., Biswas, O., Ghosh, R., Paruya, D.K., **Bera, S.** 2019. Phytolith spectra of some eastern Himalayan pteridophytes: Assessing potential for distinguishing different vegetation–climate zones along the elevation gradient. *Flora.* 254, 95–112.

4. Khan, M.A., Bera, M., Spicer, R.A., Spicer, T.E.V., **Bera, S.** 2018. Evidence of simultaneous occurrence of tylosis formation and fungal interaction in a late Cenozoic angiosperm from the eastern Himalaya. Review of Palaeobotany and Palynology. 259, 171–184. 4.

5. Siddhanta, S., **Bera, S.,** Maity, D. 2018. A note on a new pollen aperture in *Capsella bursa-pastoris* (L.) Medik. from Sikkim Himalaya. *Palynology.* DOI: 10.1080/01916122.2018. 1463572.

6. Khan, M.A., Bera, M., Spicer, R.A., Spicer, T.E.V., **Bera, S**. 2018. Palaeoclimatic estimates for a latest Miocene-Pliocene flora from the Siwalik Group of Bhutan: Evidence for the development of the South Asian Monsoon in the eastern Himalaya. *Palaeogeography, Palaeoclimatology, Palaeoecology.* 514, 326–335.

7. Khan, M.A., **Bera, Subir**. 2018. Floral diversity and environment during the middle Siwalik sedimentation (Pliocene) in the Arunachal sub-Himalaya. Palaeobiodiversity and Palaeoenvironments. DOI: 10.1007/s12549-018-0351-2

8. Tewari, A., D'Rozario, A., Bhattacharya, S., Barua, A., Bera, M., **Bera, Subir**, Dutta, S. 2018. Biomarker signature of the iconic *Glossopteris* plants. Palaeogeography, Palaeoclimatology, Palaeoecology. DOI: 10.1016/j. palaeo.2018.08.001.

9. Bera, M., Khan, M.A., **Bera, Subir**. 2018. Two new species of *Phomites* Fritel from the phyllosphere of Siwalik forest of Arunachal sub-Himalaya. Journal of Mycopathological Research. 56(1): 11-14.

10. Khan, A.M; Bera, M and **Bera Subir**. 2018. *Vizellopsidites siwalika*, a new fossil epiphyllous fungus from the Plio-Pleistocene of Arunachal Pradesh, eastern Himalaya. Nova Hedwigia. DOI: 10.1127/nova_hedwigia/2018/0491.

11. Ghosh, R., Biswas, O., Paruya, D.K., Agrawal, S., Sharma, A., Nautiyal, C.M., Bera, M., **Bera, Subir.** 2018. Hydroclimatic variability and corresponding vegetation response in the Darjeeling Himalaya, India over the past ~2400 years. Catena. 170: 84-99.

12. Bhattacharya, S., Khan, M.A., More, S., Paruya, D.K., Chakraborty, T. and **Bera Subir**. 2018. Amber embalms essential oils: A rare preservation of monoterpenoids in fossil resins from eastern Himalaya. Palaios. 33: 1-10.

13. More S; Rit, R; Khan, M; Paruya, DK; Taral, S; Chakraborty, T and **Bera, Subir.** 2018. Record of leaf and pollen cf. *Sloanea* L. (Elaeocarpaceae) from the Middle Siwalik of Darjeeling sub-Himalaya, India and its palaeobiogeographic implications. Journal of Geological Society of India, 91: 261-388.

14. Naskar, M., **Bera, Subir.** 2018. Taxonomic assessment of opal phytoliths from grasses of deltaic West Bengal, India. Nordic journal of Botany. DOI 10.1111/njb.01695.

15. Mahasin Ali Khan and **Bera, Subir.** 2018. *Pinus daflaensis* (Pinaceae), a replacement name for *P. arunachalensis* Khan & Bera. Phytotaxa. 334(2): 200. DOI 10.11646/phytotaxa.334.2.9

16. Madhab Naskar, Ruby Ghosh, and **Subir Bera.** 2018. Variability in phytolith spectra of some Panicoid grasses from different soil salinity zones of the deltaic West Bengal, India: implications

in understanding depositional environments. Botany Letters. DOI:10.1080/23818107.2017.1412835.

17. Sandip More and **Bera, Subir**, 2018. Role of fresh water diatoms in linking victim, suspect and object with aquatic crime scene using physical evidences: First experimental study from India. Anil Aggrawal's Internet Journal of Forensic Medicine and Toxicology. 19(1): 15.

18. Khan M, Bera, M, Spicer RA, Spicer TEV and **Bera Subir.** 2017. First occurrence of mastixioid (Cornaceae) fossil in India and its biogeographic implications**.** Review of Palaeobotany and Palynology. 247: 83-96.

19. Paruya, D.K., Ghosh, R., Biswas, O., Bera, M. and **Bera, Subir.** 2017. Dispersed fungal remains from the Neogene Siwalik forest of subHimalayan Arunachal Pradesh, India and their palaeoenvironmental indicative values. Journal of Mycopathological Research. 55(3): 303-307.

20. Ruby Ghosh, Angela A. Bruch, Felix Portmann, **Subir Bera**, Dipak Kumar Paruya, P. Morthekai, Sheikh Nawaz Ali. 2017. A modern pollen-climate dataset from the Darjeeling area, eastern Himalaya: Assessing its potential for past climate reconstruction. Quaternary Science Reviews. 174: 63-79.

21. Vishnu, A., Khan, M.A., Bera, M., Dilcher, D.L., **Bera, Subir,** 2017. Fossil Asterinaceae in the phyllosphere of the eastern Himalayan Neogene Siwalik forest and its palaeoecological significance. Botanical Journal of the Linnean Society. DOI: 10.1093/botlinnean/box050.

22. More, S., Paruya, D.K. and **Bera, Subir** 2017. Secondary xylary features in proving truth/falsity of an alibi: examples of three important Indian commercial woods. Current Botany. 8: 101-109.

23. Ghosh, R., Paruya, D.K., Acharya K., Ghorai, N., and **Bera, Subir**. 2017. How reliable are non-pollen palynomorphs in tracing vegetation changes and grazing activities? Study from the Darjeeling Himalaya, India. Palaeogeography, Palaeoclimatology, Palaeoecology. 475: 23-40.

24. Khan, M.A., **Bera, Subir** 2017. First discovery of fossil seeds of *Pinus* L. (famly Pinaceae) from the Indian Cenozoic and its palaeobiogeographic significance. Journal of Earth System Science. DOI: 10.1007/s12040-017-0846-7.

25. Khan, M.A., Spicer, R.A., Spicer, T.E.V, **Bera, Subir** 2017. Evidence for diversification of *Calophyllum* L. (Calophyllaceae) in the Neogene Siwalik forests of eastern Himalaya. Plant Systematics and Evolution. 303: 371-386.

26. Ding, L., Spicer, R.A., Yang, J., Xu, Q., Cai, F., Li, S., Lai. Q., Wang. H., Spicer, T.E.V., Yue, Y., Shukla, A., Srivastava, G., Khan, M.A., Khan, **Bera, Subir**, Mehrotra, R. 2017. Quantifying the rise of the Himalaya orogen and implications for the South Asian monsoon. Geology. 45(3): 215-221.

27. **Bera, Subir**, Dutta, S., Paul, S., Khan, M.A., Ghosh, R. 2017. Dammar resin from the Eocene lignite of Bengal Basin, eastern India: Terpenoid composition and botanical origin. Geobios. 50(1): 3-8.

28. Biswas, O., Mukherjee, B., and **Bera, Subir** 2016. Phytolith production in gymnosperms: its pattern and applications. Journal of the Botanical Society of Bengal. 70(2): 75-83.

29. Biswas, A., More, S and **Bera, Subir** 2016. Pollen analysis of winter honey from Purulia district of West Bengal, India. Journal of the Botanical Society of Bengal. 70(2): 93-98.

30. Naskar, M. and **Bera, Subir** 2016. Diversity and distribution of polylobate phytoliths in *Apluda mutica* L., *Oplismenus composite*s (L.) P. Beauv. and *Themeda arundinacea* (Roxb.) A. Camus. Journal of the Botanical Society of Bengal. 70(2): 119-124.

31. Khan, M.A., Spicer, R. A., Spicer, T. E. V., **Subir Bera.** 2016. Occurrence of *Shorea Roxburgh* ex C.F. Gaertner (Dipterocarpaceae) in the Neogene Siwalik forests of eastern Himalaya and its biogeography during the Cenozoic of Southeast Asia. Review of Palaeobotany and Palynology. 233: 236-254.

32. Khan, M.A., **Bera, S**. 2016. First fossil evidence of Connaraceae R. Br. from Indian Cenozoic and its phytogeographical significance. Journal of Earth System Science.
33. More S., Paruya, D. K., Taral S., Chakraborty T., **Bera S**. 2016. Depositional Environment of Mio-Pliocene Siwalik Sedimentary Strata from the Darjeeling Himalayan Foothills, India: A Palynological Approach. PLoS ONE. 11(3): e0150168. doi. 0.1371/journal.pone.0150168.

34. Khan, M.A., **Subir Bera.** 2016. Occurrence of Persea Mill. from the Siwalik forest of Darjeeling, eastern Himalaya: palaeoclimatic and palaeogeographic implications. doi. 10.1007/s 12583-016-0902-2. Journal of Earth Science. 5: 883-890.

35. Biswas, O., Ghosh, R., Paruya, D. K., Mukherjee, B., Thapa, K. K., **Bera, Subir**. 2016. Can grass phytoliths and indices be relied on during vegetation and climate interpretations in the eastern Himlayas? Studies from Darjeeling and Arunachal Pradesh, India. Quaternary Science Reviews. 134, 114-132.

36. Barua A., D'Rozario A., **Bera S**. 2015. Palynofloristic study of the Lower Gondwana sediments from Khottadih colliery, West Bengal. Journal of Botanical society of Bengal 69 (2), 163-165.

37. Sarkar B., **Bera S.**, Das A.P. 2015. Note on the occurrence of *Markhamia lutea* (Bentham) K. Schumann [Bignoniaceae] Kunthimari Forest of West Bengal, India. Pleione 9(2): 535-537.

38. Biswas, O., Mukherjee, B., Mukherjee, M., Bera, **Subir. 2015**. Phytolith spectra in some selected fern-allies of eastern Himalaya. Journal of Botanical society of Bengal 69 (1), 35-39.

39. Majumder, S., D'Rozario, A., **Bera, Subir.** 2015. Seed coat architecture of four Indian species of *Ephedra* and its taxonomic significance. Current Science 108 (11) 10, 1984-1987.

40. Khan, M.A., **Subir Bera**, Spicer, R. A., Spicer, T. E. V. 2015. Plant–arthropod associations from the Siwalik forests (middle Miocene) of Darjeeling sub-Himalaya, India. Palaeogeography, Palaeoclimatology, Palaeoecology 438, 191–202.

41. More, S., **Bera, Subir**. 2015. Potential of Hairs as a Decisive tool in Forensic Palynological investigations: First experimental study from India. Research Journal of Forensic Sciences. 3(6), 1-7.

42. Ghosh, R., **Bera, Subir**, Sarkar, A., Paruya, D. K., Yao, Y. F., Li, C.S. 2015. A ~50 ka record of monsoonal variability in the Darjeeling foothill region, eastern Himalayas. Quaternary Science Reviews 114, 100-115.

43. Dey, S. B., Ghosh, R., Shekhar, M., Mukherjee, B., **Bera, Subir**. 2015. What drives elevational pattern of phytolith diversity in *Thysanolaena maxima* (Roxb.) O. Ktze? A study from the Darjeeling Himalayas. Flora 211, 51-61 [Impact Factor, 1.462].

44. Khan, M. A., **Bera, Subir**, Ghosh, R., Spicer, R.A., Spicer, T.E.V. 2015. Leaf cuticular morphology of some angiosperm taxa from the Siwalik sediments (middle Miocene to lower Pleistocene) of Arunachal Pradesh, eastern Himalaya, Systematic and palaeoclimatic implications. Review of Palaeobotany and Palynology 214, 9–26.

45. Sarkar, A., Filley, Timothy R., **Bera, Subir**. 2015. Carbon isotopic composition of lignin biomarkers, Evidence of grassland over the Gangetic plain during LGM. Quaternary International 355, 194–201.

46. Yao, Y. F., **Bera, Subir**, Ferguson, D. K., Li, C. S. 2014. Pollen morphology in *Saxifraga* (Saxifragaceae) from NY-Alesund, Svalvard, Artic and its taxonomic significance. Advances in Polar Science 25 (2), 105-112.

47. Khan, M. A., Spicer, T.E.V., Spicer, R.A. **Bera, Subir**. 2014. Occurrence of *Gynocardia odorata* Robert Brown (Achariaceae, formerly Flacourtiaceae) from the Plio-Pleistocene sediments of Arunachal Pradesh, northeast India and its palaeoclimatic and phytogeographic significance. Review of Palaeobotany and Palynology 211, 1–9.

48. **Bera, Subir**, Gupta, S., Khan, M.A., De, A., Mukhopadhyay, R. 2014. First megafossil evidence of Cyatheaceous tree fern from the Indian Cenozoic. Journal of Earth System Science 123, (6), 1433–1438.
49. Song, X., **Bera, Subir**, Yao, Y. F., Ferguson, D. K., Li, C. S. 2014. Tree barks as a natural trap for airborne spores and pollen grains from China. Chinese Science Bulletin 59 (19), 2331-2339.
50. Upadhyay, D., Bhattacharya, S., Ferguson, D. K., **Bera, Subir**. 2014. Prospects of Apicultural Entrepreneurship in Coastal Districts of Eastern India, A Melissopalynological Evaluation. PLoS ONE 9(4), e94572. doi,10.1371/journal.pone.0094572.

51. Khan, M. A., **Bera, Subir**. 2014. New lauraceous species from the Siwalik forest of Arunachal Pradesh, eastern Himalaya and their palaeoclimate and palaeogeographic implications. Turkish Journal of Botany 38, 453-464.

52. Ghosh, R., Paruya, D. K., Khan, M. A., Chakraborty, S., Sarkar, A., **Bera, Subir**. 2014. Late Quaternary climate variability and vegetation response in Ziro Lake Basin, Eastern Himalaya, a multiproxy approach. Quaternary International 325, 13-29.

53. Khan, M., **Bera, Subir**. 2014. On some fabaceous fruits from the Siwalik sediments (Middle Miocene-Lower Pleistocene) of Eastern Himalaya, India. Journal of the Geological Society of India 83,165-174.
54. Das, S., Ghosh, R., Paruya, D. K., Yao, Y. F., Li, C. S., **Bera, Subir**. 2014. Phytolith spectra in respiratory aerial roots of some mangrove plants of the Indian Sunderbans and its efficacy in ancient deltaic environment reconstruction. Quaternary International 325, 179-196.

55. Khan, M. A., Spicer, R.A., Spicer, T.E.V., **Bera, Subir**. 2014. Fossil evidence of insect folivory in the eastern Himalayan Neogene Siwalik forests. Palaeogeography Palaeoclimatology Palaeoecology, 387, 91-103.

56. Khan, M. A., Robert A. Spicer , **Bera, Subir**, Ghosh, R., Yang, J., Spicer, T. E. V., Guo, S. X., Su, T., Frédéric, J., Paul J. G. 2014. Miocene to Pleistocene floras and climate of the Eastern Himalayan Siwaliks, and new palaeoelevation estimates for the Namling–Oiyug Basin, Tibet. Global and Planetary Change 113, 1-10.

57. Ghosh, R., Bera, Subir, Banerjee, M. 2013. Man-environment interaction and its impact since ca. 3600 years BP in West Bengal, India： A multiproxy approach. Chinese Science Bulletin 58(S1), 9-28.

58. Yan, S. X., **Bera Subir**, Yao, Y. F., Blackmore, S., Li, C.S. 2013. Natural traps of spores and pollen grains from the region surrounding Wenbi Reservoir, Yunnan, China. Chinese Science Bulletin 58, 1-7. [Impact Factor, 1.32]

59. Samanta, A., Bera, M.K., Ghosh, R., **Bera, Subir**, Filley, T., Pande, K., Rathore, S.S., Rai, J., Sarkar, A. 2013. Do the large carbon isotopic excursions in terrestrial organic matter across Paleocene-Eocene boundary in India indicate intensification of tropical precipitation? Palaeogeography Palaeoclimatology and Palaeoecology 387, 91-103.

60. Patra, B., **Bera, Subir**. 2013. The evergreen bagworm *Thyridopteryx ephemeraeformis* (Lepidoptera, psychidae), A troublesome defoliating pest of *Thuja orientalis* grown in West Bengal. Bioresearch Bulletin 2 (3), 1-5.

61. Dey, S.B., Mukherjee, B., **Bera, Subir**. 2013. Occurrence of biogenic siliceous bodies in *Rhododendron arboreum* Smith. (Ericaceae), first report from Darjeeling Himalaya, India. Journal of Botanical Society of Bengal. 67(1), 5-9.

62. Das, S., Ghosh, R., **Bera, Subir**. 2013. Application of non-grass phytoliths in reconstructing deltaic environments, a study from the Indian Sunderbans. Palaeogeography Palaeoclimatology, Palaeoecology 376, 48-65.

63. More, S., Thapa, K. **Bera, Subir**. 2013. Potential of dust and shoot from air filters of motor vehicle engines as a forensic tool, first experimental palynological approach in India, Journal of Forensic Research 4,177. doi,10.4172/2157-7145.1000177).
64. Majumder, S., D'Rozario, A., **Bera, Subir**. 2013. Occurrence of wax rodlets in the seed coat of *Ginkgo biloba* L. Current Science, 104 (1), 29-31.
65. Patra, B., **Bera, Subir**, Molchanoff, S., Wang, Y. F., Jiang, Y., Li, C. S. 2012. Morpho-anatomy of *Xerephedromiya ustjurtensis* (Diptera, cecidomyiidae) induced galls and intersexual variation of gall density in ephedra distachya L. (Ephedraceae) from Ukrain. Acta Botanica Hungarica 54(3-4),377–389

66. Yao, Y. F., Xiao Li, Jiang, H.E., Ferguson, D.K., Hueber, F., Ghosh, R., **Bera, Subir**, Li, C.S. 2012. Pollen and Phytoliths from Fired Ancient Potsherds as Potential Indicators for Deciphering Past Vegetation and Climate in Turpan, Xinjiang, NW China. PLoS One, 7(6) e39780. doi,10.1371/journal.pone.0039780.
67. Yao, Y.F., Zhao, Q., **Bera, Subir**, Li, X, Li, C.S. 2012. Pollen morphology of selected tundra plants from the high Arctic of NY-Alesund, Svalbard. Advances in Polar Science, 23(2), 103-115.

68. Sengupta, P., Ghorai, N., **Bera, Subir. 2012**. On the Quantification of Information Content of Flower-Insect Interaction by the Species Diversity Indices, A Case Study in Flower Visiting Hymenopterans. Proceedings of the Zoological Society (Springer Publ.), 65(1),57–60

69. Das, S., Bandyopadhyay, M., **Bera, Subir.** 2012. Optimization of Protocol for Isolation of genomic DNA from leaves of *Selaginella* species suitable for RAPD analysis and study of their genetic variation. American Fern Journal 102 (1), 47-54.

70. Sen, I., Parua, D. K., **Bera, Subir**, MD. Sultan-ul-Islam, Poole, I. 2012. Contribution to the Neogene fossil wood record and palaeoecological understanding of Bangladesh. Palaeontographica, (Abt. B, Palaeobotany – Palaeophytology Article, Stuttgart), 288 (1-4), 99-133.

71. Upadhyay , D., **Bera, Subir**. 2012. Pollen Spectra of Natural Honey Samples from a Coastal District of Orissa, India. Journal of Apicultural Research 51(1), 10-22.

72. Batabyal, A. K., **Bera, Subir**. 2011. Chemical, Petrographic and Palynological Characterization of Lower Tertiary Lignite Deposits of Western Margin of Bengal Basin, India with special emphasis on their Depositional Environments. Bangladesh Journal of Geosciences, 17, 39-52

73. More S., **Bera Subir**. 2011. Efficacy of packing materials as pollen trapping agents in forensic investigations, an experimental case study from West Bengal, India. Journal of the Indian Academy of Forensic Sciences, Vol. 43 (1 &2), 19-30

74. Yi-Feng, Yao, **Bera, Subir**, Naskar, K., Liao, Wen-bo, Li, C.S. 2011. A comparative study of mangrove floras in China and India. Forestry Studies in China 13(3), 173–182

75. Ghosh, R., Naskar, M., **Bera, Subir**. 2011. Phytolith assemblages of grasses from the Sunderbans, India and their implications for the reconstruction of deltaic environments. Palaeogeography, Palaeoclimatology, Palaeoecology 311, 93–102 [Impact Factor, 2.79]

76. Khan, M. A., Ghosh, R., **Bera, Subir**, Spicer, R. A., Spicer, T. E. V. 2011. Floral diversity during Plio-Pleistocene Siwalik sedimentation (Kimin Formation) in Arunachal Pradesh, India and its palaeoclimatic significance. Palaeobiodiversity and Palaeoenvironments 91, 237–255

77. Majumder, S., D'Rozario, A., **Bera, Subir**. 2011. Occurrence of non-protoplasmic mineral deposition in seed coat of *Biota orientalis* Endl. (Cupressaceae). Current Science, 100 (12), 1788-1790.

78. Mandal, A., Samajpati, N., **Bera, Subir**. 2011. A new species of *Meliolinites* (fossil Meliolales) from the Neogene sediments of sub-Himalayan West Bengal, India. Nova Hedwigia (Schweizerbart & Borntraeger science publ.), 92 (3-4), 435–440.
79. Spicer, R. A., **Bera Subir**, De Bera, S., 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. Palaeogeography, Palaeoclimatology, Palaeoecology 302, 381-395.

80. More, S., Ghorai , N., **Bera, Subir**. 2010. Study on the selection of some local pollen plants in West Bengal, India as pollen brood feed in *Apis cerena* Fabr. Larvae by the worker bees, through meconia analysis and community ordination method of recovered pollen taxa. Proceedings of Zoological Society of India 63 (1), 39-44.

81. Gill, F. L., Richard J. Dewhurst, Jennifer A.J. Dungait, Richard P. Evershed, Luke Ives, Cheng-Sen Li, Richard D. Pancost, Sullivan, M., **Bera, Subir**, Ian D. Bull. 2010. Archaeol – a biomarker for foregut fermentation in modern and ancient herbivorous mammals? Organic Geochemistry 41, 467–472.
82. Khan, M. A., **Bera, Subir**. 2010. Record of fossil fruit wing of *Shorea* Roxb. from the Neogene of Arunachal Pradesh. Current Science, Vol. 98 (12), 1573-1574.
83. Majumder, S., D' Rozario, A., **Bera, Subir**. 2010. Vivipary in Indian Cupressaceae and its ecological consideration. International Journal of Botany, 6(1), 59-63.

84. D'Rozario A, Khan M and **Bera Subir**. 2010. Occurrence of *Marsupipollenites* dominated palynoassemblage in the Gondwana sediments of West Kameng district, Arunachal Pradseh, Eastern India. Indian Journal of Geology, 82 (1-4),29-36

85. Ghosh, R., Ghorai, N., **Bera, Subir**. 2010. On the feeding preference of some common flower visitors of guava, a study through pollen analysis. Journal of the Botanical Society of Bengal, 64(2), 169-174..

86. Mandal, A., Samajpati, N., **Bera, Subir**. 2009. In situ occurrence of epiphyllous fungus *Phomites* Fritel. From the Lower Siwalik sediments of Darjeeling foothills. Journal of Botanical Society of Bengal 63 (1), 37-40.

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101. Saha, R., Datta, B.K., **Bera, Subir**. 2007. Pollen analysis and Physico-Chemical Characteristics of some unifloral honeys in Tripura, India. Vegetos 20(1), 39-52.

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103. Khan, M. A., De, B., **Bera, Subir**. 2007. A fossil fern leaflet of family Thelypteridaceae from the Middle Siwalik sediments of West Kameng district, Arunachal Pradesh. Journal of the Botanical Society of Bengal 61(1), 65-69.

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139. **Bera, Subir**, Parua D. K., Sen, I., 2001. Fossil wood resembling *Sindora* Miq. from the Neogene of West Bengal, India. Indian Journal of Earth Science, 28, 26-31.

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141. D'Rozario, A., **Bera, Subir**, Mukhopadhyay, R., 2001. Viviparous growth of young sporophytes from aphlebiae in *Dennstaedtia scabra* (Wall. Ex. Hook.) Moore from Sikkim, Current Science 81(4), 347-348. [Impact Factor: 0.897].

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B. Articles/ Chapters published in Books:

1. Chakraborty, T., Taral, S., More, S., **Bera, S.** 2019. Cenozoic Himalayan foreland basin: an overview and regional perspective of the evolving sedimentary succession. In: Geodynamics of the Indian Plate: Evolutionary Perspectives, Neal S. Gupta and S.K. Tandon (Eds.), Springer International.

2. D'Rozario, A., **Bera, S.** 2018. Lower Gondwana palaeofloristics in eastern Himalaya- a review. In, Plant diversity in Himalayan Hotspot region (eds.) A. Prasad and S. Bera. Bishen Singh Mahendra Pal Singh, Dehra Dun, India. pp- 357-364.

3. **Bera, Subir,** Mandal, A. 2014. Fossil epiphyllous fungi as potential palaeoenvironment indicator: A review. In: Review Plant Pathology, Vol. 6. Scientific Publisher, Jodhpur. pp. 541-576.

4. Khan, M.A., **Bera, Subir**. 2012. *Glochidion palaeogamblei* sp. nov.- a new fossil leaf of Euphorbiaceae from the Pliocene sediments of Arunachal Pradesh, northeastern India and its

palaeoclimatic significance. In, Diversity and Conservation of Plants and Traditional Knowledge (eds.) S. Panda and C. Ghosh. Bishen Singh Mahendra Pal Singh, Derhadun, pp. 149-154.

5. More, S., **Bera, Subir**. 2011. Use of spider webs as passive natural pollen collectors in forensic palynological investigations, preliminary data from an experiment. In, Recent Studies in Biodiversity and Traditional Knowledge in India (Eds. C. Ghosh & A. P. Das), pp. 233- 241.

6. **Bera, Subir**, Khan, M. A. 2009. Record of fruit and leaflet cf. *Pongamia pinnata* (L.) Pierre from the Upper Siwalik sediments (Kimin Formation) of Arunachal Pradesh. In: Mandal, S., Bhattacharya, S., (Eds.), Advances in Plant Biology (Debidas Bhattacharya Birth Centenary Commemorative Volume). pp. 433-441.

7. Patra, B., **Bera, Subir**. 2008. Fern-coccid interaction from Darjeeling Himalaya West Bengal, India and its bearing on their coevolution. In: Verma, S. C., Cheema, H. K., (Eds.): Perspective in Pteridophytes, Bishen Singh Mahendra Pal Singh, Dehradun, India. pp. 475-479.

8. Saha, R., Bera, Subir, Datta, B.K. 2008. Bee foraging plant resources of north district of Tripura. Bioresources Conservation and Management, A.J. Soloman Raju (Ed.), Today & Tomorrow's Printers and Publishers, New Delhi, pp. 29-40.

9. Mukherjee, S. K., Das, A. P. **Bera, Subir**. 2007. Ethnic uses of honey in Sikkim and sub-Himalayan West Bengal, India. In: Advances in Ethnobotany , Das, A. P., Pandey, A. K., (Eds.), Vishen Singh & Mahendra Pal Singh, Dehradun, India. pp. 189-197.

10. **Bera, Subir**, Sen, I. 2004. *Podocarpoxylon pantii* sp. nov., first record of podocarpaceous wood from the Tertiary sediments of Bengal Basin, Eastern India. In P. C. Srivastava (Ed.) Prof. D. D. Pant Memorial volume, Vistas in Palaeobotany and Plant Morphology: Evolutionary and environmental perspectives. Pp. 241-247.

11. **Bera, Subir**, Patra B., Ghorai N. 2003. Animal interaction with pteridophytes with emphasis on Indian records. Pteridology in the New Millennium, NBRI Golden Jubilee vol. S. Chandra & M. Srivastava (Eds.), (Kluwer Academic Publ., The Netherlands): 383-395.

C. Books:

1. A. P. Das and **Subir Bera** (Joint editors). Floristic diversity in the Himalaya hotspot region. M/s Bishen Singh Mahendra Pal Singh Publishers & Distributors of Scientific Books 23 A Connaught Place, Dehra Dun.

2. A, D'Rozario, **Subir Bera** and D, Mukherjee**.** 1999. A Hand book of Ethnobotany. Kalyani Publisher

D. General articles:

1. **Bera, Subir**, 2001. Xylotomy of dicotyledonous and its achievements. Recent Trends in Plant Science II. Edited by Prof. P. K. Sircar. Proceedings of the 13th Refresher Course in Botany, Department of Botany, University of Calcutta : 92-94.
2. **Bera, Subir**, 2001. Melittopalynology: Principle and practice. Recent Trends in Plant Science II. Edited by Prof. P. K. Sircar. Proceedings of the 13th Refresher Course in Botany, Department of Botany, University of Calcutta : 95-97.

3. **Bera, Subir**, 2002. Plant-Animal interaction in the past. Recent advances in Life Science. Edited by Prof. N. D. Paria. Proceeding of the refresher course in Life Science, Department of Botany, University of Calcutta : 40-41.
4. **Bera, Subir**, 2003. Forensic Botany. New way to catch crooks. Life Science update (edited by Dr. G. K. Saha & S. Ray) UGC Academic Staff College, Department of Botany, University of Calcutta: 136-139.

E. Book review:

1. Palynology and its application by Shripad N Agashe. Oxford and IBH Publishing Co. Pvt. Ltd. New Delhi (2006). The Nucleus. 49(3): 251.

Projects:

Implemented : 16
Projects ongoing : 2

Projects: 18

SL	Title	Funding Agency	Period
1.	Testing the efficacy of grass phytoliths in discriminating rainfall variations and their application potential in the Holocene climate reconstructions: study along the rainfall gradient of the Western Ghats, India	SERB (Life Sciences), New Delhi [File No. EMR/2016/005209]	2018−2021
2.	Quantifying the Holocene monsoonal variability using modern vegetation-climate relationships in the western margin of the Bengal Basin, India: development of transfer functions. *(as CoPI, PI- Dr. R.Ghosh)*	SERB (Earth & Atmospheric Sciences), New Delhi [File No. EMR/2016/005209]	2018−2021
3.	Sedimentology and stratigraphy of the Siwalik succession of eastern Himalaya and its bearing on the evolution of the Neogene foreland basin in the eastern Himalaya.	In collaboration with Indian Statistical Institute, under (Ministry of Statistics and Program Implementation)	01.04.2015–31.03.2018
4.	Calibration of phytolith indices along the modern vegetation gradient of Eastern Himalaya, India and its application in late Quaternary environment analysis.	DST-SERB, New Delhi (2012-2015)	20.07.2012-19.07.2016
5.	A study of the Neogene and Quaternary successions of eastern Himalayan foreland basin.	Indian Statistical Institute	01.04.2012–31.03. 2015
6.	Phytolith spectra in non-grass plant communities of Sunderbans, West Bengal and its significance in coastal climatic reconstructions.	UGC, New Delhi	December, 2010-February, 2014

7.	Biostratigraphy and source rock characterization of the subsurface Upper Palaeocene-Lower Eocene oil bearing rocks in parts of Upper Assam Shelf.	University Grants Commission, New Delhi	February 1, 2011 - January 31, 2014
8.	Botanical Evidences in relation to forensic investigations: Development of experimental database.	UGC, New Delhi	2008-2013
9.	Opal A particle in environmental reconstruction and recognition of impact of natural disasters on coastal region: Case study from coastal West Bengal	CSIR, New Delhi (In form of a post-doctoral research fellowship of a student)	01.04.2010-31.03.2011
10.	Biogenic silica in quantitative reconstruction of coastal environment and recognition of tropical cyclone over wash: Case study from Sunderbans, West Bengal	CSIR, New Delhi (In form of a post-doctoral research fellowship of a student)	03.11.208–30.11.2009
11.	Study of fossil epiphyllous fungi from the Siwalik sediments of eastern Himalaya with special reference to palaeoecology and microstratigraphy.	UGC	May 1, 2006-April 30, 2009
12.	Neogene-Quaternary phytostratigraphy of Arunchal Pradesh, eastern Himalaya, India with palaeoenvironment and palaeogeographic considerations.	DST, New Delhi	October 2004-October 2007
13.	Palynological investigation of Bengal basin offshore samples (Well No. WB-OS-1)	In collaboration with ONGC under CUIIPP	August 2005-April 2006
14.	Appraisal of Biodiversity in the *Glossopteris* flora with reference to palaeoenvironment and palaeogeography of eastern Indian Lower Gondwana basins *(as CoPI, PI- Prof. M. Banerjee)*	DST, New Delhi	2002-2005
15.	Archaeological studies in southern part of West Bengal, India. *(as CoPI, PI- Prof. M. Banerjee)*	Birbal Sahni Institute of Palaeobotany, Lucknow (DST, Govt. of India)	2002-2005
16.	Biostratigraphy, correlation and Environment analysis of Ganga Basin cenozoic sediments with emphasis on hydrocarbon exploration. *(as CoPI, PI- Prof. M. Banerjee)*	DST, New Delhi	1999-2003
17.	Depositional motifs of Satpura Gondwana Basin: their special and temporal variability in relation basin tectonics. *(as CoPI, PI- Prof. T. Chakraborty, ISI)*	DST, New Delhi	1999-2002
18.	Holocene vegetation succession and its response to climate and environment changes in Ny-Ålesund, Arctic	Natural Science Foundation of China (NSFC) (PI- Dr. Yi-Feng Yao, CAS, China)	2013-2016

Collaborations:

National

- Birbal Sahni Institute of Palaeosciences, Lucknow
- Indian Institute of Technology, Kharagpur
- Indian Institute of Technology, Bombay
- Indian Institute of Tropical Meteorology, Pune
- University of Tripura, Tripura
- Botanical Survey of India, Kolkata
- Indian Statistical Institute, Kolkata
- Geological Survey of India, Kolkata

International

- Institute of Botany, Chinese Academy of Science, P R CHINA (Under INSA-CAS exchange of scientists program) (Prof. Cheng-Sen Li and his group)
- Center for Earth, Planetary, Space and Astronomical Research, Open University, UK (Prof. Robert A. Spicer)
- Departments of Biology and Geology, Indiana University, USA (Prof. David Dilcher)
- University of Utrecht, Netherlands (Prof. Imogen Poole)
- Royal Botanic Garden, Edinburgh (Prof. Stephen Blackmore)
- Department of Palaeontology, University of Vienna, Austria (Prof. David Ferguson)
- Department of Geology and Mining, Rajshahi University, Bangladesh (Prof. Sultan-ul-Islam)
- Department of Palaeobiology, National museum of natural history, USA (Prof. Francis Hueber)
- Organic Geochemistry Unit, Bristol University, UK (Prof. Ian D. Bull and his group)
- Department of Botany, Miami University, USA (Prof. R.J.Hickey)
- Senckenberg Forschungsinstitut und Naturmuseum, Frankfurt am Main, Germany (Prof. V. Mosbrugger and PD Dr. Angela Bruch)
- Instituto de Ecologia, Mexico (Prof. K. Mehltreter)

Editorial Board Member of National/International journal/Society/Body:

- Editor, Journal of the Botanical Society of Bengal.
- Review Editor of Frontiers in Earth Science (Paleontology), Nature Publishing Group.

Seminar/Symposia/Training organized:

- One day symposium on “Applications of advanced tools and technology in plant biology” organized by The West Bengal Academy of Science and Technology (WAST) in collaboration with Centre of Advanced Study, Department of Botany, C.U. & Archana Sharma Foundation of Calcutta on 6th March, 2019 (Joint convener).
- Workshop on “Advanced technologies in Botany Teaching and Research. Organized by Probir Chatterjee Research Foundation & CAS, Department of Botany, University of Calcutta, Convener, February 3- 9, 2018.

- International symposium on “Trends in plant science research”, Organiser, 15-16th February, 2014, Department of Botany, University of Calcutta.
- Workshop on “Hands on training on palaeobotanical and palynological techniques”, Convener, 21-28th April, 2014, Department of Botany, University of Calcutta.
- Third Sino-India international conference on “Biodiversity and climate change in the Himalayas in Xinxiang”, member of the Organising Committee, 19th September 2012, China.
- National symposium on “Plant diversity and resources: Evolution, analyses, stress and challenges and palaeophytodiversity: Its aspects and prospects”, Convener, 20-22nd December, 2011, Department of Botany, University of Calcutta.

Foreign Visit

Sl.	Category	Topic	Place	Period
1	Visiting Scientist	Sedimentary DNA as proxy for reconstructing vegetation in temperate Arunachal Himalaya	Alfred Wegener Institute of Polar Research, Potsdam, Germany	October, 2018
2	Invited Lecture	Impact of mid-Miocene to late Holocene climate changes on the Development of the Eastern Himalayan flora: Evidence from Plant Mega and Microfossils	Botanical Congress, Shenzhen, China	23rd-29th July, 2017
3	Invited Lecture	Plant remains from the Siwalik successions (middle Miocene to lower Pleistocene) of Arunachal sub-Himalaya and their bearing on palaeoclimate and phytogeography	13th International Palynogical Congress (IPC): 9th International organisation of Palaeobotany (IOPC-VII) held at Tokyo, Japan	23rd -30th August, 2012
4	Invited Lecture	Man-environment interactions and their impact since last 4000 years in West Bengal, India: A multiproxy approach.	3rd Sino-India International conference on Biodiversity and climate change in the Himalayas, Institute of Botany, Chinese Academy of Science, Xinxiang, China,	18th -23rd September 2012
5	Invited Lecture	A sediment-based reconstruction of Late Quaternary climate changes in Ziro Valley, Arunachal Pradesh, India using pollen and phytolith proxies	12th International Palynogical Congress (IPC): 8th International organisation of Palaeobotany (IOPC-VII) held at Bonn University, Germany	30th August to 5th September, 2008

6	Visiting Scientist	Changing pattern of vegetation vis-à-vis climate in China and East India since Cenozoic	Laboratory of Systematic and Evolutionary Botany, Institute of Botany, Chinese Academy of Science, Beijing, China (Collaborator: Prof. Cheng-Sen-Li)	September 20, 2007 –October 15, 2007
7	Visiting Scientist	Quaternary climates and sea level changes in South China and Bengal Basin, India based on the mangrove data	Laboratory of Systematic and Evolutionary Botany, Institute of Botany, Chinese Academy of Science, Beijing, China (Collaborator: Prof. Cheng-Sen-Li)	September 21, 2005 – October 19, 2005
8	Visiting Scientist	Quaternary climates and sea level changes in South China and Bengal Basin, India based on the mangrove data	Laboratory of Systematic and Evolutionary Botany, Institute of Botany, Chinese Academy of Science, Beijing, China (Collaborator: Prof. Cheng-Sen-Li)	October 10, 2004 − December 03, 2004

Other notable activities:

- Program Coordinator, UGC-CAS Phase VII, Department of Botany, University of Calcutta.
- Chairman UG Board of Studies in Botany, University of Calcutta, Kolkata
- Member of Ph.D. Committee, Department of Botany, C.U. since 2011.
- Member, Senate, University of Calcutta, 2012 and November 2016 to November 2020.
- Member of Research Advisory Committee, Birbal Sahni Institute of Palaeosciences, Lucknow
- Member, Advisory Committee, UGC-Special Assistance Program, Department of Botany, University of Jammu
- Actively participated in INSA-Chinese Academy of Science exchange of scientists program (2006)
- Evaluation of projects funded by different financial agencies (Indian and International-Estonian Science Foundation and The National Science Foundation, NSF, USA).
- Member of assessment/ review committee for final review of UGC-SAP (Special Assessment Program)
- Member of the committee for recruitment and assessment promotion scheme for scientific and technical staff of the Birbal Sahni Institute of Palaeosciences, Lucknow.
- Member of the committee for evaluation and allocation of UGC minor research projects.
- Member, PG Board of Studies in Botany, NEHU, Shillong
- Member, UG Board of Studies, Vidya Sagar University.
- Member, PG Board of Studies, Sidho-Kanho-Birsha University, West Bengal; Scottish Church College
- Member of the Research Committee at Botany Department in the “Swami Vivekananda Centre for Multidisciplinary Research in Basic Science and Social Science” of Ramakrishna Mission Vivekananda Centenary College, Rahara.
- External member of the Ph.D. Committee, Department of Biological Science, Presidency University.
- Acted as Subject expert for PG courses of “Biotechnology”, Department of Biotechnology, Presidency College, Kolkata (2010).
- Evaluation of thesis from different Universities of India and abroad.