

## Curriculum Vitae

**Name-** Deepa Agnihotri

**Present position-** Scientist-C

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### **Educational Qualification:**

Ph.D. in Botany from University of Lucknow, Lucknow (2011). Thesis title “Contribution to the study of Glossopteris flora of India”.

M.Sc. (Botany) in first division from C.S.J.M. University, Kanpur (2005).

B.Sc. (Botany, Zoology, Chemistry) in first division from C.S.J.M. University, Kanpur (2003).

**Area of Research:** Gondwana megafloristics of Peninsular and extra-Peninsular regions of India.

### **Ongoing projects**

#### **In-house (BSIP)**

Floristic evolution during the late Palaeozoic of Kashmir region and South Rewa Gondwana Basin: Implications for global correlation, biostratigraphy and palaeoecology

#### **Sponsored project**

Indo-Brazilian collaborative research project entitled, “Palaeofloristics of Lower Gondwana sediments of India and Brazil with special reference to palaeowild fire: Implications in palaeoecology, palaeoclimate and biostratigraphy” sponsored by DST, India and CNPq, Brazil (as Co-PI)

#### **Fellowships/Awards:**

- **Birbal Sahni Research Scholarship** in 2007 at Birbal Sahni Institute of Palaeosciences, Lucknow.
- **Dr Pratul Chandra Bhandari Medal-2009** for the best piece of research work done as research scholar.
- **Birbal Sahni Research Associateship** in 2011 at Birbal Sahni Institute of Palaeosciences, Lucknow.
- **Best Student Paper Award** 2011 in 28<sup>th</sup> Annual meeting of TSOP 2011 at Halifax, Canada.

- **Student Travel Award 2011** by The Society of Organic Petrology to attend the 28<sup>th</sup> Annual meeting of TSOP held at Halifax, Canada.
- **Consolation prize** in poster presentation in International conference on “Current perspective and emerging issues in Gondwana evolution” held at Birbal Sahni Institute of Palaeosciences, Lucknow during February 19-20, 2015.

#### **Courses/ Training Programmes attended:**

- **Professional Course in Geology:**  
Attended Professional Course in Geology conducted by Palaeontological Society of India at Department of Geology, University of Lucknow, Lucknow (April- June, 2009).
- **Sedimentology and Sequence Stratigraphy :**  
Attended training programme in Sedimentology and Sequence Stratigraphy, organized by BSIP, during October 26-31, 2009.

#### **Field works**

Field excursions have been undertaken in Godavari Graben, South Rewa, Wardha and Satpura Gondwana basins of Peninsular India and Kashmir region of extra Peninsular India and Parana Basin, Brazil.

#### **Membership of the scientific societies:**

Life member, The Palaeobotanical Society  
 Life member, The Palaeontological Society of India  
 Life member, The Society of Earth Scientists  
 Life Member, International association for Gondwana Researches (IAGR)  
 Member, International Organization of Palaeobotany (IOP)  
 Member, Sub Commission on Permian Stratigraphy, IUGS

#### **Publications**

1. Tewari R., Joshi A., **Agnihotri D.** (2017). The Glossopteris flora of Manuguru Area, Godavari Graben, Telangana, India. *Palaeobotanist* 66(1): 17–36.
2. Kumar K., Tewari R., **Agnihotri D.**, Sharma A., Pandita S.K., Pillai S.S.K., Singh V., Bhat G.D. (2017). Geochemistry of the Permian-Triassic sequences of the Guryul Ravine section, Jammu and Kashmir, India: Implications for oceanic redox conditions. *GeoResJ* 13, 114–125.
3. Jasper A., **Agnihotri D.**, Tewari R., Spiekermann R., Pires E.F., Augusto Stock Da Rosa A., Uhl, D. (2016). Fires in the mire: Repeated fire events in Early Permian ‘peat forming’ vegetation of India. *Geological Journal*. DOI: 10.1002/gj.2860.

4. **Agnihotri D.**, Tewari R., Pillai S.S.K., Jasper A., Uhl D. (2016). Early Permian *Glossopteris* flora from Sharda Open Cast Mine, Sohagpur Coalfield, Shahdol District, Madhya Pradesh. *Palaeobotanist* 65 (1): 97–107.
5. Jasper A. , Uhl D., **Agnihotri D.**, Tewari R., Pandita S.K., Benicio J.R.W., Pires E.F., Augusto Stock Da Rosa A., Bhat G.D., Pillai S.S.K. (2016). Evidence of wildfires in the Late Permian (Lopingian) Zewan Formation of Kashmir, India. *Current Science* 110 (3), 419–423.
6. Tewari R., Chatterjee S., **Agnihotri D.**, Pandita S.K. (2015). *Glossopteris* flora in the Permian Weller Formation of Allan Hills, South Victoria Land, Antarctica: Implications for paleogeography, paleoclimatology and biostratigraphic correlation. *Gondwana Research* 28, 905–932.
7. Tewari R., Ram-Awatar, Pandita S.K., McLoughlin S., **Agnihotri D.**, Pillai S.S.K., Singh V., Kumar K., Bhat G.D. (2015). The Permian-Triassic palynological transition in the Guryul Ravine Section, Kashmir, India: implications for Tethyan-Gondwanan correlations. *Earth Science Reviews* 149, 53–66.
8. Singh V., Pandita S.K., Tewari R., van Hengstum P.J., Pillai S.S.K., **Agnihotri D.**, Kumar K., Bhat G.D. (2015). Thecamoebians (Testate Amoebae) Straddling the Permian-Triassic Boundary in the Guryul Ravine Section, India: Evolutionary and Palaeoecological Implications. *PLoS ONE* 10(8): e0135593.
9. Joshi A., Tewari R., **Agnihotri D.**, Pillai S.S.K., Jain R.K. (2015). Occurrence of *Vertebraria indica* (Unger) Feistmantel, 1877 – an evidence for coal-forming vegetation in Kothagudem area, Godavari Graben, Telangana. *Current Science* 108 (3), 330–333.
10. Joshi A., Tewari R., **Agnihotri D.** (2014). Plant diversity in the Kamthi Formation of India: A Review. *Palaeobotanist* 63(2), 127–136.
11. Ram-Awatar, Tewari Rajni, **Agnihotri D.**, Chatterjee S., Pillai S.S.K. and Meena K.L. (2014). Late Permian and Triassic palynomorphs from the Allan Hills, central Transantarctic Mountains, South Victoria Land, Antarctica. *Current Science* 106 (7), 988–996.
12. Chatterjee S., Tewari Rajni, **Agnihotri D.** (2013). A *Dicroidium* flora from the Triassic of Allan Hills, South Victoria Land, Transantarctic Mountains, Antarctica. *Alcheringa* 37, 209-221.
13. Srivastava A.K., **Agnihotri D.** (2013). Coal seam correlation in an Indian Gondwana Coalfield. *International Journal of Coal Geology* 113, 88-96.

14. Tewari Rajni, Pandita S.K., **Agnihotri D.**, Pillai S.S.K., Bernardes-De-Oliveira M.E.C. (2012). An Early Permian *Glossopteris* flora from the Umrer Coalfield, Wardha Basin, Maharashtra, India. *Alcheringa* 36: 355-371.
15. Srivastava A.K., Saxena A., **Agnihotri D.** (2012). Morphological and Stratigraphical significance of Lower Gondwana plant fossils of Mohpani Coalfield, Satpura Gondwana Basin, Madhya Pradesh. *Journal of Geological Society of India* 80: 676-684.
16. Tewari Rajni, Mehrotra N.C., Pillai S.S.K., Pandita S.K., **Agnihotri D.** (2012). Gymnospermous seeds from the Barakar Formation of Umrer Coalfield, Wardha Basin, Maharashtra. *Palaeobotanist* 61: 123-130.
17. Srivastava A.K., **Agnihotri D.** (2012). Scale leaves from the Barakar Formation of Satpura Gondwana Basin, Madhya Pradesh, India. *Palaeobotanist* 61: 177-188.
18. Srivastava A.K., Krassilov, V.A., **Agnihotri D.** (2011). Peltasperms in the Permian of India and their bearing on Gondwanaland reconstruction and climatic interpretation. *Palaeogeography, Palaeoclimatology, Palaeoecology* 310: 393-399.
19. Srivastava A.K., **Agnihotri D.** (2011). Gondwana equivalent sediments of North-East India: A Palaeobotanical Connotation. *Memoirs of Geological Society of India* 77: 321-330.
20. Srivastava A.K., **Agnihotri D.** (2011). Insect traces on the Early Permian plants of India. *Paleontological Journal* 45 (2): 78-84.
21. **Agnihotri D.** (2011). Coal forming flora of Central India. Inspire Internship programme on research advancement (Ed. Md. Sazid Khan): 100-102.
22. Srivastava A.K., **Agnihotri D.** (2010). Upper Permian plant fossils assemblage of Bijori Formation: a case study of *Glossopteris* flora beyond the limit of Raniganj Formation. *Journal of Geological Society of India* 76: 47-62.
23. Srivastava A.K., **Agnihotri D.** (2010). Morphological consequence of *Gangamopteris* McCoy in *Glossopteris* flora. *Journal of Asian Earth Sciences* 39: 760- 769.
24. Srivastava A.K., **Agnihotri D.** (2010). Dilemma of Late Palaeozoic mixed flora in Gondwana. *Palaeogeography, Palaeoclimatology, Palaeoecology* 298: 54- 69.
25. Srivastava A. K., Tewari Rajni, **Agnihotri D.** (2010). Morpho-cuticular study of *Glossopteris stenoneura* Feistmantel from the Barakar Formation of Raniganj Coalfield, West Bengal. *Palaeobotanist* 59: 139-144.
26. Srivastava A.K., **Agnihotri D.** (2010). Taeniopteroid leaves from Lower Gondwana formations of India. *Palaeobotanist* 59: 47-54.

27. Srivastava A.K., Saxena A., **Agnihotri D.** (2010). Trace fossils from the Barakar Formation (Early Permian) of Satpura Gondwana Basin, Madhya Pradesh, India. *Geophytology* 39: 18-22.
28. Srivastava A.K., **Agnihotri D.** (2009). Palaeobotanical Perspectives of Satpura Gondwana Basin, Madhya Pradesh. *Earth System Sciences* (Ed. A. Kumar, RAS Kushwaha and Balesh Thakur) 2: 581- 595.
29. Srivastava A.K., **Agnihotri D.** (2009). New coniferous foliage shoot from the Lower Gondwana beds of India. *Palaeobotanist* 58: 51- 56.
30. Srivastava A.K., Saxena A., **Agnihotri D.** (2009). Insect Burrows from the Upper Permian sequence of Bijori Formation of Satpura Gondwana Basin, India. *Permophiles* 54: 12- 14.

### **Field guide book**

31. Ghosh A.K., Tewari R., **Agnihotri D.**, Ratan Kar, Pillai S.S.K., Bajpai S., Tripathi, S.C. (2015). Field guide book: Gondwana formations of South Rewa and upper Narmada basins, central India. Birbal Sahni Institute of Palaeobotany, Lucknow, 1–39.

### **Report**

32. Singh V.K., Saxena S., Verma P., Ranhotra P.S., **Agnihotri D.**, Srivastava J., Manoj M.C., Quamar F. (2016). Report on India International Science Festival 2015, New Delhi. *Current Science* 110 (5): 756-757.

### **Conferences/workshops attended-**

1. XXI Indian Colloquium on Micropalaeontology and Stratigraphy, B.S.I.P, Lucknow, November 16-17, 2007.
2. XXIV Convention and National Seminar on Sedimentary Basins of India and their Economic Resources at Aligarh Muslim University, Aligarh, March 4-6, 2008.
3. Conference on Plant Life Through The Ages, B.S.I.P., November 16-17, 2008.
4. International Symposium on Perspectives in Pteridophytes, National Botanical Research Institute, Lucknow, November 27- 29, 2008.
5. Indo-Brazilian Symposium on Glimpses of Gondwana Research, Birbal Sahni Institute of Palaeosciences, Lucknow, November 24, 2010.
6. 28<sup>th</sup> Annual meeting of TSOP, Halifax, Canada, July 31- August 4, 2011.

7. National conference on sedimentation and tectonics with special reference to energy resources of North-East India and XXX convention of Indian Association of Sedimentologists, Nov. 28-30, 2013, Manipur University, Imphal, India
8. Conclave on Understanding the Life of Bygone Eras: Emerging Trends on Nov. 14-15, 2013, organized by Birbal Sahni Institute of Palaeosciences, Lucknow.
9. Current Perspective and Emerging Issues in Gondwana Evolution during Feb. 19–20, 2015, organized by Birbal Sahni Institute of Palaeosciences, Lucknow.
10. Author workshop on “*How to get published in an International high impact journal*” jointly organized by Elsevier, International Association of Gondwana Researches and University of Kerala, Kerala on November 18, 2016.
11. 2016 Annual Convention of IAGR and 13th International conference on Gondwana to Asia held at University of Kerala, Kerala during November 19-20, 2016.