

AKSHAY MAMGAIN

CONTACT INFORMATION

Department of Education, A.M. School of Educational Sciences, Assam University, Silchar-788011, District-Cachar, Assam, India

EDUCATION

- 2018 PhD. Botany, University of Delhi, Delhi, India
- 2011 M.Phil. Botany, University of Delhi, Delhi, India.
- 2008 M.Sc. Botany, University of Delhi, Delhi, India
- 2006 B.Sc. (H) Botany, University of Delhi, Delhi, India

RESEARCH EXPERIENCE

2009-2011 Worked as a Junior Research Fellow (JRF) in the research project entitled “Molecular Marker Descriptor Development in Tea (*Camellia sinensis*)”.

2018 April – 2018 August

Worked as Senior Research Fellow (SRF) in the research entitled “Community Livelihood Promotion Through Assessment of Biodiversity and Carbon Sequestration Potential in Agroforestry Systems along Altitude and Aspects of Western Himalaya, India with Special Reference to Combating Climate Change”.

FELLOWSHIP AND ACADEMIC HONORS

- 2011-2016 University Grant Commission (UGC) Junior & Senior Research Fellowship
- 2009 Cleared Joint CSIR-UGC Test for JRF & Lectureship, National Eligibility Test (NET) and achieved all India Rank-0327
- 2008 Cleared Joint CSIR-UGC Test for JRF & Lectureship, (NET)
- 2006 Achieved First Position in All India M.Sc. Botany Entrance Test conducted by University of Delhi, India
- 2006 Awarded Gobind Lal Sikka Memorial Scholarships by S.G.T.B. Khalsa College, University of Delhi, Delhi, India
- 2005 Awarded for Good performance in Academics in B.Sc. (H) Botany II Year

RESEARCH INTERESTS

Plant Ecology, Systematics, Floral Biology, Ethno-Botany

TECHNIQUES AND TOOLS LEARNED

- DNA Isolation
- RAPD (Random Amplified Polymorphic DNA)
- Species Distribution Modelling (SDM)
- Geographic Information system (GIS)

Poster/Oral-Presentation in Conferences/Seminar/Workshop

i) International Symposia

1) **Akshay Mamgain**, P.L. Uniyal, D.P. Semwal, R. Geeta, (2015). Population survey and distribution status of *Rhododendron arboreum* (Ericaceae) in Uttarakhand, Himalaya. International seminar on Advancements in Angiosperm Systematics & Conservation. University of Calicut, Kerala, India. November Nov. 19-21, 2015 2015 (Abstract)

2) **Akshay Mamgain**, Eapsa Berry, P.L. Uniyal, L.K. Rai, Moakum, R. Geeta, (2017). A preliminary distribution analysis of *Rhododendron* in North Sikkim. International Conference on Advances in Plant and Microbial Biotechnology (PMB-2017). Jaypee Institute of Information Technology, Noida (U.P.), India. February 02-04 2017. (Poster & Abstract)

3) **Akshay Mamgain**, Ramachandran Geeta, Prem Lal Uniyal, (2019). Flower colour variation and attraction pattern of *Rhododendron arboreum* Sm. in relation to altitude in central Himalayan region of Uttarakhand, India. 29th Annual Conference of Indian Association of Angiosperm Taxonomy & National Symposium on Modern Trends in Biosystematics of Angiosperms. At – KSCSTE- Jawaharlal Nehru Tropical Botanic Garden and Research Institute, Palode, Thiruvananthapuram, Kerala, India. November 11-13 2019. (Oral Presentation & Abstract)

4) **Akshay Mamgain**, P.L. Uniyal, Sumeet Gairola, C.S. Rana, (2020). Leaf physiognomy of *Rhododendron arboreum* Sm. in Central Himalayan Region of Uttarakhand, India. International Conference on Algae, Fungi and Plants: Systematics to Applications. Organized by – CAS, Department of Botany, University of Calcutta & Botanical Survey of India (B.S.I.). January 24-25, 2020. (Poster & Abstract)

5) **Akshay Mamgain**, P.L. Uniyal, (2020). Species distribution modelling in *Rhododendron arboreum* Sm. - A keystone species in India and neighbouring region. National Conference on Emerging Trends in Plant Science Research (ETPSR) 2020. Organized by- Department of Botany & Biotechnology, Ravenshaw University, Cuttack – 753003, Odisha, India. March 01-03, 2020. (Oral Presentation & Abstract).

WORKSHOP ATTENDED

- 1) Botanical Nomenclature Course, organized by Botanical Survey of India (BSI) and ENVIS Centre on Floral Diversity in Kolkata, India – January 2013.
- 2) Applications of Species Distribution Modelling (SDM) in biodiversity research, organized by TERI University, New Delhi, India – February 2016.

Research Papers (Last Five Years)

- 1) Sapinder Bali, **Akshay Mamgain**, Soom Nath Raina, Satish Kumar Yadava, Vishnu Bhat, Surdipta Das, Akshay Kumar Pradhan, Shailendra Goel, (2015). Construction of a genetic linkage map and mapping of drought tolerance trait in Indian beverage tea. **Molecular Breeding**, 35(112):
- 2) Pradeep Kumar Bhandari, **Akshay Mamgain**, P.L. Uniyal, (2017). An ethnobotanical study and applications of medicinal plants by the local people of Basukedar Himalaya of Rudrprayag, Uttarakhand, India. **The Journal of Ethnobiology and Traditional Medicine**, 128: 1305 – 1319.
- 3) **Akshay Mamgain**, Pradeep Kumar Bhandari, D. P. Semwal, P. L. Uniyal, (2017). Population assessment, mapping and flowering response of *Rhododendron arboreum* Sm. – A keystone species in Central Indian Himalayan region of Uttarakhand, India. **International Journal of Ecology and Environmental Sciences**, 43(3): 205 – 220.
- 4) **Akshay Mamgain**, P. L. Uniyal, (2018). Species distribution modelling of *Rhododendron arboreum* Sm. – A keystone species, in India and adjoining region. **International Journal of Ecology and Environmental Sciences**, 44 (3): 261-286.
- 5) Arvind Bijalwan, **Akshay Mamgain**, Satendra Kumar Rathude, (2018). Crop-biodiversity along altitude in Gangotri valley of Uttarkashi district of Garhwal Himalaya, India. **Biodiversity International Journal**, 2(4): 378–383. [doi: 10.15406/bij.2018.02.00089]