Personal Profile

Dr. Heikham Evelin
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Educational Profile

Ph.D.	University of Delhi, Delhi, India; 2013
	Supervisor: Prof. Rupam Kapoor
M.Sc.	University of Delhi, Delhi, India; 2008
	Subject: Botany
	Specialization: Algae
B.Sc.	University of Delhi, Delhi, India; 2006
	Subject: Botany

Professional Experience

Assistant Professor, Department of Botany Rajiv Gandhi University, Arunachal Pradesh, India	May 2014-till date
Assistant Professor (ad hoc), Department of Botany, Sri Venkateswara college, Delhi University, Delhi, India	January 2013 – May 2014
University Teaching Assistant, Department of Botany, Delhi University, Delhi, India	March 2009 – December 2012

Administrative Experience

Deputy Warden, Dibang Halls of Residence, Rajiv Gandhi University, Arunachal Pradesh, India	March 2021-till date
Coordinator (i/c), Faculty of Agricultural Science, Rajiv Gandhi University, Arunachal Pradesh, India	March 25-26, 2021
Head of Department (i/c), Department of Botany, Rajiv Gandhi University, Arunachal Pradesh, India	October 27-30, 2020- November 3-14, 2020
Member, International women's celebration Committee, Rajiv Gandhi University	March 2021

Awards & Honours

1. Qualified CSIR-UGC-NET for CSIR-JRF in December, 2007
2. Qualified GATE in 2008.
3. II Position in University in M.Sc. Botany, 2008, University of Delhi.
4. II Position in B. Sc. (H) Botany, 2006 in SGTB Khalsa College, University of Delhi.
5. Best article award for "Urban mining – From e-waste to resources: Need for an environmentally Sound Management of E-waste" in the Botanica 2012
6. Sharda Trivedi Memorial Scholarships for Good performance in Academics in B. Sc. (H) Botany III yr in SGTB Khalsa College, University of Delhi.

Membership of Professional Bodies

1. Life member, Delhi University Botanical Society
2. Life member, Indian Science Congress Association (L31024)
3. Life member, Indian Science Congress Association
4. Life member, Mycological Society of India
5. Life member, International Society of Plant Morphologists

Research Interests

- Plant-microbe symbiosis
- Medicinal plants
- Bryophytes

Research Publications

1. Bryophytes in medicines: Mossang, P, Chimyang N, Shankar V, Mangangcha IR, Evelin, H. *Journal of Bioresources,* **2021**, *8(1)*, 1-23.
2. Survey for the potential fibre yielding plants in the flora of Lakhimpur and Dhemaji districts of Assam in North-east India: Das J, Evelin, H and Das, AP. *Pleione,* **2020,** *14(1),* 17-28.
3. Mitigation of Salinity Stress in Plants by Arbuscular Mycorrhizal Symbiosis: Current Understanding and New Challenges; Evelin, H, Devi, TS, Gupta, S and Kapoor, R. *Frontiers in Plant Science*, **2019,** 1664-462X DOI: 10.3389/fpls.2019.00470.
4. Diversity of Arbuscular Mycorrhizal Fungus Inhabiting the Rhizosphere of *Panax pseudoginseng* and *Solanum khasianum* Plants Growing Under Natural Conditions in Ziro, Arunachal Pradesh, India; Millo, M, Shankar, V and Evelin, H. *Journal of Bioresources*, **2017** *4(2),* 13-19
5. Arbuscular mycorrhizal symbiosis modulates antioxidant response in salt stressed *Trigonella foenum-graecum* plants; Evelin, H and Kapoor, R. *Mycorrhiza*, **2014** *24*, 197-208 ISSN: 0940-6360 (print version) ISSN: 1432-1890 (electronic version) DOI 10.1007/s00572-013-0529-4
6. Arbuscular mycorrhiza enhances the production of stevioside and rebaudioside-A in *Stevia rebaudiana* via nutritional and non-nutritional mechanisms; Mandal, S, Evelin, H Giri, B, Singh, VP and Kapoor, R. *Applied Soil Ecology*, **2013** *72*, 187–194 ISSN: 0929-1393

7. Ultrastructural evidence for AMF mediated salt stress mitigation in *Trigonella foenum-graecum*; Evelin, H, Giri, B and Kapoor, R. *Mycorrhiza*, **2013** *23*, 71-86 ISSN: 0940-6360 (print version) ISSN: 1432-1890 (electronic version)
8. Contribution of *Glomus intraradices* inoculation on nutrient acquisition and mitigation of ionic imbalance in NaCl stressed *Trigonella foenum-graecum*; Evelin, H, Giri, B and Kapoor, R. Mycorrhiza, **2012**, *22*, 203-217 ISSN: 0940-6360 (print version) ISSN: 1432-1890 (electronic version)
9. Arbuscular mycorrhiza in alleviation of salt stress: A Review; Evelin, H, Kapoor, R and Giri, B. *Annals of Botany,* **2009**, *104*: 1262-1280 Online ISSN 1095-8290 - Print ISSN

Patent

Book/Book Chapter published

1. Chimyang N, Mossang P, Shankar V & Evelin, H. Bryoflora of Northeast India, in *Bioresources and Sustainable Livelihood of Rural India*. Eds. Deb CR. & Paul A., Mittal Publications, New Delhi, 2021, pp 241-262.
2. Shankar V & Evelin, H. Contribution of Organic Solutes in Amelioration of Salt Stress in Plants, in *Organic Solutes, Oxidative Stress, and Antioxidant Enzymes Under Abiotic Stressors*. Ed. Latef AAHA., Taylor & Francis Group, CRC Press, Boca Raton, 2021, pp. 35-61
3. Shankar V & Evelin**,** H. Strategies for Reclamation of Saline Soils, in *Microorganisms in Saline Environments: Strategies and Functions, Soil Biology 56.* Eds. Giri B. & Varma A., Springer Nature Switzerland AG, 2019**,** 439-449.
4. Evelin**, H** Sharma E & Kapoor R. Arbuscular mycorrhizal fungi: potential role in conservation of endangered plants, in *Plant Reproductive Biology and Conservation*. Eds. Kapoor K., Kaur I. & Koul M., IK International Publishing House Private Limited, New Delhi, India, 2014, pp 314-326. ISBN 9789-3823-32-909.
5. Kapoor R, Evelin, H, Mathur P & Giri B. Arbuscular mycorrhiza: approaches for abiotic stress tolerance in crop plants for sustainable agriculture, in *Plant Acclimation to Environmental Stress*. Eds. Tuteja N. & Gill S., Springer + Business Media, New York, USA, 2013, pp 359-401. Print ISBN 978-1-4614-5000-9.

Research guidance

Ph. D scholar

1. Mr. Amanso Tayang

   Topic of research: Effect of arbuscular mycorrhizal fungi (AMF) on growth, nutritional status and antioxidant potential in *Acmella paniculata* (Wall.ex DC.) R.K. Jansen and *Houttuynia cordata* Thunb.

   Year of PhD degree: Ongoing

2. Ms. Nonya Chimyang

   Topic of research: Bryoflora of Tirap district, Arunachal Pradesh, India

3. Ms. Pherkop Mossang
   Topic of research: Bryophytes of Papum Pare district, Arunachal Pradesh, india

Course/Conference/Workshop organized

1. International Conference on Global Biodiversity, Climate Change and Sustainable Development, RGU, Arunachal Pradesh
   Duration: 15-18 October 2016
   Role: Executive member, Organizing Committee
2. National workshop on "Identification & Nomenclature of Plants, WINP-2021"
   Duration: 27thApril 2021 to 30thApril 2021.
   Role: Publicity secretary

Course/Conference/Workshop etc. attended

1. Delivered an invited talk in 'STC STC: Environment Friendly Teaching Learning Practices", Bhaskaracharya College of Applied Sciences, University of Delhi, June 12, 2021
   Title of the presentation/talk: Arbuscular mycorrhizal fungi in agriculture
2. Delivered an invited e-talk on National Webinar on Literature, Art and culture of North-east states, Indira Gandhi Govt. PG College, Unnao, Uttar Pradesh, June 15, 2020.

   Title of the talk: Wild edible plants of Arunachal Pradesh

3. Presented a poster in 'National Conference on Pharmacognosy-scope of Phytochemically Unexplored Medicinal Plants, January 12, 2017, organized by Zakir Hussain Delhi College, New Delhi.
   Title of the presentation: Threat to the existence of Hedychium coronarium, a medicinal plant and conservative means in arbuscular mycorrhizal fungi

4. Presented a poster in International Conference and Outreach Program on Environment and Ecology: Sustainability and Challenges, 4-6 January 2017 held at Sri Venkateswara College, New Delhi.

   Title of the presentation: Diversity of arbuscular mycorrhizal fungus (AMF) associated with the rhizosphere soil of Curcuma angustifolia, an endangered medicinal plant of Manipur.

5. Presented a poster in National Symposium on Microbes in Health and Agriculture, Jawaharlal Nehru University, New Delhi, India March 12-13, 2012.
   Title of the presentation: Improving salinity tolerance in *Trigonella foenum-graecum* plants by inoculation with *Glomus intraradices*.
6. Presented a poster in International Conference on Plant Growth, Nutrition and Environmental Interactions, Vienna, Austria, February 18-21, 2012 organized by Vienna Plant Conferences Association.
   Title of the presentation: Arbuscular mycorrhizal fungi mediated salt tolerance in fenugreek is evident at ultrastructure of leaf cells.

7. Presented a poster in 3rd Global Conference on Plant Pathology and Food Security, Udaipur, Rajasthan, January 10-13, 2012 organized by Indian Society of Mycology and Plant Pathology.

Title of the presentation**:** Colonization with arbuscular mycorrhizal fungi mitigates salt stress in fenugreek.

8. Presented a poster in Indian-German Workshop in the frame of the program "Initiation and Intensification of Bilateral Cooperation" March 22-24, 2011 organized by Amity Institute of Microbial Technology.

Title of the presentation: Arbuscular mycorrhizal fungi under salt stress conditions: genesis and functions.

9. Presented a poster in International Symposium on "Microbial Boitechnology: Diversity, Genomics and Metagenomics", 2008 organized by Association of Microbiologists of India.

Title of the presentation: Amelioration of salt stress by arbuscular mycorrhizal fungi.

Sponsored Project

Title of the project	Funding agency	Year of sanction	Role
Study of arbuscular mycorrhizal fungal (AMF) diversity of two endangered medicinal plants - *Hedychium coronarium* and *Curcuma angustifolia* and assess the potential of AMF in conservation of these plants (completed)	UGC	**2015**	**PI**