DR MONIKA HEIKRUJAM

Assistant Professor Department of Botany Maitreyi College University of Delhi

Email: mheikrujam@maitreyi.du.ac.in

Researchgate:https://www.researchgate.net/profile/Monika-Heikrujam

Orcid id:https://orcid.org/0000-0002-4363-1537

EDUCATION

- Ph.D. (2016)- Department of Botany, University of Delhi
- "Development of sex linked markers and genetic diversity analysis among different genotypes of *Simmondsia chinensis* (Link) Schneider (Jojoba) employing DNA fingerprinting"
- M.Sc Botany (2008)- RTM Nagpur University
- B.Sc. (Hons) Botany (2006)- Deshbandhu College, University of Delhi

NET QUALIFICATION

CSIR-JRF (June and December, 2009)

WORK EXPERIENCE

Assistant Professor (Permanent)
Department of Botany,
Maitreyi College
University of Delhi

January 2024-Till date

Assistant Professor (Ad-hoc) Department of Botany, Maitreyi College University of Delhi August 2015 - December 2023

Assistant Professor (Ad-hoc) Department of Botany, Gargi College University of Delhi January 2015 - May 2015

PUBLICATIONS

- Gour T.; Sharma A.; Lal R.; Heikrujam M.; Gupta A.; Agarwal LK.; Chetri SPK.; Kumar R.; Sharma K. 2023. Amelioration of the physio-biochemical responses to salinity stress and computing the primary germination index components in cauliflower on seed priming. Heliyon 8;9(3):e14403. I. F= 3.776
- Kumar J.; **Heikrujam M.**; Sharma K.; Agrawal V. 2019. SRAP and SSR marker-assisted genetic diversity, population structure analysis and sex identification in Jojoba(*Simmondsia chinensis*). *Industrial Crops & Products*, 133, 118-132. I. F= 6.449
- Kumar J.; Heikrujam M.; Agrawal V. 2016 Characterization of Male and Female Jojoba Plants Employing Antioxidants, Lipid Peroxidation and Physiological Studies. *Journal* of American Oil Chemist' Society 93:911–920. I. F= 1.952.
- Heikrujam M.; Kumar, J & Agrawal, V. 2015. Genetic diversity analysis among male and female Jojoba genotypes employing gene targeted molecular markers; Start codon targeted (SCoT) polymorphism and CAAT box-derived polymorphism (CBDP) markers. Meta Gene, 5: 90-97. I. F= 0.7
- Heikrujam M.; Sharma K.; Kumar J.; Agrawal V 2014. Generation and validation of unique male sex- specific sequence tagged sites (STS) marker from diverse genotypes of dioecious Jojoba (Simmondsia chinensis). *Euphytica* 199:363–372. I. F= 2.185
- Heikrujam M.; Sharma K.; Kumar J.; Agrawal V 2014. Validation of male sex-specific UBC-8071200 ISSR marker and its conversion into sequence tagged sites marker in Jojoba: a high precision oil yielding dioecious shrub. *Plant Breeding* 133: 666-671. I. F= 2.536
- Heikrujam M.; Sharma K.; Prasad M.; Agrawal V 2014. Review on different mechanisms of sex determination and sex-linked molecular markers in dioecious crops- A current update. Euphytica 201:161–194. I. F= 2.185
- **Heikrujam M**.; Singh D.; Agrawal V 2014. High efficiency cyclic production of secondary somatic embryos and ISSR based assessment of genetic fidelity among the emblings in *Calliandra tweedii* an ornamental woody legume. *Scientia Horticulturae* 177:63–70, I. F= 4.342
- Chaubey P.; Singh N.P.; Chetri S.K.; Heikrujam M.; Agrawal V. 2013. Efficient micropropagation protocol in Jatropha curcas L., an important biofuel plant and establishment of ISSR based genetic fidelity among the regenerants. Phytomorphology 63:33-34.
- Razaq M.; Heikrujam, M & Chetri, S.K. .; Agrawal V. 2012. In vitro clonal propagation and genetic fidelity of the regenerants of Spilanthes calva DC. Using RAPD and ISSR markers. Physiology and Molecular Biology of Plants, 19:251–260. I. F= 3.023
- Sharma G.; Shankar V.; Heikrujam M & Agrawal V. 2011. Evaluation of genetic fidelity among micropropagated plants raised through long term nodal cultures of elite clones of Artemisia annua L. using DNA-based RAPD markers. Phytomorphology, 61:135-141.

BOOK CHAPTERS AND E-LESSON:

- Sharma K; Chetri S.P.K; Heikrujam M; Agrawal V. 2015. Plant Tissue Culture: Historical Perspectives under MHRD project "National Mission on Education through ICT", Institute Of LifeLong Learning, Delhi; ISBN NO 2349-154X
- Kumar J; Sharma K; **Heikrujam M;** Kumar R; Agrawal V. 2017. Genetic markers: potential tools for diversity analysis and identification of sex in dioecious plants. Advances in plant science Ed. Dutt S; Tyagi A; Bhati H; Singh S.S.R. Scientific publications, Agra ISBN NO 978-9383774-289.
- Tiwari P.; Chopra T.; **Heikrujam M.** 2021. Geographical indication (GI) in India: emphasis on agricultural goods ed. Singh D; Baweja P, Imperial Publications, Mumbai ISBN No 978-81-949439-8-3
- **Heikrujam, M**. et al. 2020. Photoperiod. In: Vonk, J., Shackelford, T. (eds) Encyclopedia of Animal Cognition and Behavior. Springer, Cham.
- Gour, T., Ratan Lal, Heikrujam, M., ...Chetri, S.P.K., Sharma, K. 2022. Halopriming: Sustainable Approach for Abiotic Stress Management in Crops. In: Roy, S., Mathur, P., Chakraborty, A.P., Saha, S.P. (eds) Plant Stress: Challenges and Management in the New Decade. Advances in Science, Technology & Innovation. Springer, Cham.pp. 135–147

SUMMER INTERNSHIP PROJECTS UNDERTAKEN UNDER THE CENTER FOR RESEARCH. MAITREY! COLLEGE

SUMMER INTERNSHIP PROJECT (2019–20): A review analysis on the role of Chloroquine (CQ) and Hydroxychloroquine (HCQ) in fighting the COVID-19 pandemic.

SUMMER INTERNSHIP PROJECT (2021–22): Qualitative and quantitative analysis of plant pigment anthocyanins from selected flowering plants.

SUMMER INTERNSHIP PROJECT (2023-24):Copigmentation-Based Enhancement of Stability of Anthocyanin Isolates From Selected Local Flowering Plants