



Miranda House

UNIVERSITY OF DELHI

Name: Dr. Laishram Sundari Devi

Department: Botany

Current Designation: Assistant Professor

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Academic Qualifications:

Sl. No.	Degree	Year	Subject	University/Institution
1	Ph.D.	2021	Botany	University of Delhi
2	M. Sc.	2013	Botany	University of Delhi
3	B.Sc. (Hons.)	2011	Botany	Miranda House

Research Degree(s):

1. Ph.D. degree with the thesis title: **“*In silico*, phylogenetic and differential expression analyses of *CcEZ1* in apomictically and sexually reproducing plants of *Cenchrus ciliaris* L., and optimization of gene gun mediated genetic transformation of *Cenchrus ciliaris* L.”**

Field of Specialization under the Subject/Discipline:

Plant Biotechnology, Plant Molecular Biology, Embryology, Apomixis

Total Teaching Experience: Since November 2021

Teaching at Miranda House since: Since November 2021

Fellowships and Awards:

- Awarded as **Indo-U.S. Genome Engineering/Editing Technology Initiative internship (2017)** under Indo-U.S. Science and Technology Forum; funded by Department of Biotechnology, Govt. of India
- Awarded **UGC-Senior Research Fellowship from UGC** in 2017



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- Awarded **UGC-Junior Research Fellowship from UGC** in 2015
- Awarded “**Joint CSIR-UGC Lectureship**” in 2014.
- Qualified “**ASRB/ICAR-National Eligibility Test**” for Lectureship/Assistant Professorship conducted by Agricultural Scientists Recruitment Board (Indian Council of Agricultural Research) in Agricultural Biotechnology held on 03-04-2014.

List of Publication(s):

- **Sundari Devi Laishram**, Shipra Goyal, Vishvas M. Kulkarni, Suresh Kumar, Vishnu Bhat. “**Assessment of biolistic and Agrobacterium-mediated genetic transformation methods in *Cenchrus ciliaris***”. Nucleus. 2020. 63:303-312 <https://doi.org/10.1007/s13237-020-00332-1>.

Book Chapter(s):

- Roy SS, Bahri S, **Devi LS**, Moitra S (2023) Impact of Particulate Matter on the Ecophysiology of Plants. In Tripathi S, Bhadouria R, Srivastava P, Singh R and Devi RS (Eds.) Ecophysiology of Tropical Plants: Recent Trends and Future Perspectives. CRC Press Taylor & Francis. (Chapter 23, in press)

Research Projects:

Worked as Indo-U.S. Genome Engineering/Editing Technologies Intern (2017) under Indo-U.S. Science and Technology Forum, funded by Department of Biotechnology, Govt. of India with the project title “Development of CRISPR interference vector for a Polycomb gene *CcEZ1* isolated from apomictic *Cenchrus ciliaris* L.” under the supervision of Prof. Jian Kang Zhu at Department of Horticulture and Landscape Architecture, Purdue University, USA.

Poster/Oral Presentations:

- Laishram Sundari Devi, Lingrui Zhang, Jian-Kang Zhu, Suresh Kumar & Vishnu Bhat. 2019, Development of CRISPR/Cas9 construct targeting *CcKIP1* gene of *Cenchrus ciliaris* and its validation in Arabidopsis thaliana using floral-dip method. Proceeding of National Conference on Integrative Plant Biochemistry and Biotechnology at ICAR-IIRR, Hyderabad from 8th to 9th November 2019; organized by Society for Plant Biochemistry and Biotechnology.
- Laishram Sundari Devi & Vishnu Bhat. 2019, Comparative analysis of particle bombardment verse *Agrobacterium*-mediated genetic transformation methods in *Cenchrus ciliaris*. Proceeding of 1st National Conference on Neglected and Underutilized Crop Species for Food, Nutrition, Energy and Environment at NIPGR, New Delhi on 2nd August 2019.
- Laishram Sundari Devi, Lingrui Zhang, Vishnu Bhat & Jian-Kang Zhu. 2018. Development of



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CRISPR vector for a Polycomb gene *CcEZI* isolated from apomictic *Cenchrus ciliaris*. Proceeding of 1st National Genetics Congress on Genetics for Sustainable Food, Health and Nutrition Security held on 14-16th December 2018 at ICAR (Indian Agricultural Research Institute, New Delhi, India.

Membership of Professional Bodies:

Lifetime membership of Delhi University Botanical Society

Administrative Responsibilities

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Invited talks/Session chair/Resource person:

1. Attended workshop as a Resource person on the topic “**Evolving Face of Microscopy: Magnifying Lens to Nanoscope**” held on 11-12 December 2019 by Department of Botany, Miranda House, University of Delhi, under the aegis of DBT Star College Scheme in collaboration with Department of Botany, University of Delhi.

Seminars/Workshops/Conferences attended:

1. Participation of workshop on **Gene Editing for Enhancing Plant Productivity and Stress Tolerance** at ICAR-IIRR, Hyderabad from 10th to 12th November 2019; organized by Society for Plant Biochemistry and Biotechnology.
2. Poster presentation on National Conference on **Integrative Plant Biochemistry and Biotechnology** at ICAR-IIRR, Hyderabad from 8th to 9th November 2019; organized by Society for Plant Biochemistry and Biotechnology on the topic “Development of CRISPR/Cas9 construct targeting CcKIP1 gene of *Cenchrus ciliaris* and its validation in *Arabidopsis thaliana* using floral-dip method”.
3. Poster presentation on **1st National Conference** on Neglected and Underutilized Crop Species for Food, Nutrition, Energy and Environment at NIPGR, New Delhi on 2nd August 2019 on the topic “**Comparative analysis of particle bombardment versus Agrobacterium-mediated**



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genetic transformation methods in *Cenchrus ciliaris*".

4. Oral presentation on **1st National Genetics Congress on Genetics for Sustainable Food, Health and Nutrition Security** held on 14-16th December 2018 at ICAR (Indian Agricultural Research Institute, New Delhi, India on the topic “**Development of CRISPR vector for a Polycomb gene CcEZ1 isolated from apomictic *Cenchrus ciliaris* L.**”.
5. **National Seminar** on Identifying and Avoiding Publishing in Predatory Journals: A Lesson for Researchers on March 18, 2017.
6. Participation on the workshop in IPR for Researchers on December 14, 2015.
7. Attending a lecture by Prof. David W. Galbraith (Department of Plant Sciences, University of Arizona, US) on “Flow-cytometry and its application on December 16, 2014.
8. Participation in the Biotikos’11 workshop on the topic “**Impact of Biotechnology on Man and Environment**” at TERI University.