



Dr. Monica Jamla

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EDUCATION

Banasthali University, Rajasthan
Ph.D., Biosciences & Biotechnology 2010-2018

Title: Identification of molecular markers to screen for heat and drought tolerant wheat (*Triticum* sp.) genotypes.

Funded by NICRA, ICAR, Pusa, New Delhi

Banasthali University, Rajasthan
M.Sc. (Hons.), Biotechnology, 78% 2008-2010

Dissertation: Genetic diversity analysis of Pomegranate using ISSR and SSR markers.

Funded by DGR, NBPGR, ICAR, Pusa, New Delhi

Chaudhary Charan Singh University, Meerut, Uttar Pradesh
B.Sc. (Hons.), Biotechnology, 73.3% 2005-2008

RESEARCH FELLOWSHIPS AND AWARDS

Visiting Senior Research Scholar, Fuyang Normal University, China 2018-2018

Senior research fellowship by ICAR, Govt. of India, under NICRA programme 2011-2014

Junior research fellowship by DST, Govt. of India 2010-2011

Academic fellowship by DBT, Govt. of India during M.Sc. programme 2008-2010

C.C.S. University scholarship for securing 1st Position during graduation 2005-2008

PUBLICATIONS

1. Sunil Archak, Ramchandra, Ambika B. Gaikwad, **Monica Jamla**, R Parimalan, Diksha Gautam and V T Jadhav. 2014. Molecular and morphometric analyses reveal discrete grouping of pomegranate (*Punica granatum*) genebank accessions away from cultivars. *Indian Journal of Agricultural Sciences* 84(8): 971-6.
2. **Monica Jamla**, Ambika Baldev Gaikwad, Shery Rachel Jacob and Sunil Archak. 2017. Text-mining for identify abiotic stress candidate genes to screen bread wheat (*Triticum aestivum*) germplasm. *Indian Journal of Plant Genetic Resources* 30(2): 162-164

3. **Monica Jamla** and Sunil Archak. 2019. Genomic resources of plant abiotic stress tolerance: An overview of functional and regulatory Protein. *Indian Journal of Plant Genetic Resources* 32:93-106.
4. **Monica Jamla**, Tushar Khare, Shrushti Joshi, Suraj Patil, Penna Suprasanna, and Vinay Kumar. 2021. Omics Approaches for Understanding Heavy Metal Responses and Tolerance in Plants. *Current Plant Biology* 27:100213. <https://doi.org/10.1016/j.cpb.2021.100213>.

TEACHING EXPERIENCE

1. Lecturer, Department of Biotechnology
SR Group of Institutions, Lucknow, Uttar Pradesh 2015-2016
2. Lecturer, Department of Biotechnology
Modern College of Art, Science and Commerce, Ganeshkhind, Pune, Maharashtra (2021-Till Date)

CONFERENCES AND PRESENTATIONS

1. Poster presentation: Identification of molecular markers to screen for heat tolerant wheat (*Triticum* sp.) genotypes, at 1st International Agro biodiversity Congress, NBPGR, New Delhi, November 2016.
2. Active participation in NAIP sponsored training programme on Conservation of Plant genetic resources at NBPGR, New Delhi, and March 2012.
3. Active participation in Wheat Phenotyping workshop at NBPGR, New Delhi, March 2012.
4. Active participation in DBT sponsored National level Workshop on Biological Databases and Data Mining, at Banasthali University, Rajasthan, and December 2010.
5. Active participation in UGC sponsored National Conference on Recent trends in environmental toxicology and biotechnological approach to conserve environment, Jaipur, and January 2009.
6. Poster presentation: Molecular characterization of aluminum resistance in crops and wild plants at National Symposium: Current challenges in plant sciences: Gene to ecosystem at B.H.U., Uttar Pradesh, and March 2009.
7. Active participation in National Conference-cum-Seminar on Emerging Trends in Biotechnology at IMS, Ghaziabad, Uttar Pradesh, and January 2008.
8. Active participation in Workshop on Immuno-Technology, Ghaziabad, Uttar Pradesh, and December 2007.

PROFESSIONAL SKILLS TRAINING

1. Molecular biology techniques such as Plasmid, Genomic DNA and RNA Isolation
2. Microbiology
3. Plant tissue culture
4. Agarose gel electrophoresis and Gel extraction
5. Primer Designing
6. Working with bioinformatics computation tools
7. Plant DNA Sequence analysis
8. Biochemical and SDS-PAGE
9. Hands on training in PCR and Real time PCR machine at Genetix, New Delhi
10. Hands on experience in Gel Documentation
11. Protein purification methods: Centrifugation, Chromatography
12. Histology study of plant tissues

13. Skilled in Phase contrast microscopy

PROFESSIONAL RECOGNITION/EDITORIAL/REVIEW WORK

1. Reviewer of the PLOS ONE Peer reviewed Scientific International Journal.

WORKSHOPS/HANDS-ON TRAINING RECIEVED

1. Certificate course in “Basics of Nanoscience” from SPPU, Pune, Maharashtra, 10-13 February, 2021.
2. JCR Certification Program, organized by Clarivate Analytics, 15-17 June, 2021
3. Plant Breeding Today – New Techniques, New Skills course organized by Pune Knowledge Cluster, 14-25 June 2021.

PERSONAL DETAILS

D.O.B. 7th January1986

Marital Status Married

Monica Jamla