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Research Group & Mentor: Plant developmental Biology group, Dr. Anandita Singh

Research Work/Project:

Application of CRISPR-Cas9 in editing multicopy homologs of MIR160 & MIR167 (precursor and promoter sequences) in polyploid Brassica juncea: Technology demonstration for trait manipulation and functional analysis of miRNA genes in polyploids (2024BT02), ongoing

Additional Information:

Research Publication:

Shobha Yadav, Richa Shukla, Ekta pokhariyal, Sandip Das (2024), Functional characterization and comparative analysis of *AtMYB42* and *AtMYB85* promoters to gain insights into transcriptional regulation during development and hormonal induction *Acta Physiologiae Plantarum* (2024) (<https://doi.org/10.1007/s11738-024-03701-4>)

Shobha Yadav, Komal Jalan, Sandip Das (2024), Comparative functional characterization of *nst1*, *nst2* and *nst3* in *Arabidopsis thaliana* uncovers previously unknown functions in diverse developmental pathways beyond secondary wall formation. *Plant Mol Biol Rep* (2024) (<https://doi.org/10.1007/s11105-024-01474-1>)

Shobha Yadav, Nishu Chahar, Mukund Lal, and Sandip Das (2023). Phylogenetic and comparative genomics establishes origin of paralogy of *Myb42* and *Myb85* in last common ancestor of Brassicaceae via segmental duplication. *Plant Gene*, 35, 100424 (<https://doi.org/10.1016/j.plgene.2023.100424>)

Mukund Lal, Ekta Bhardwaj, Nishu Chahar, **Shobha Yadav** and Sandip Das (2022), Comprehensive analysis of 1R- and 2R-MYBs reveals novel genic and protein features, complex organization, selective expansion and insights into evolutionary tendencies. *Functional & Integrative Genomics*, 1-35 (<https://doi.org/10.1007/s10142-022-00836-w>)

Nishu Chahar, Meenakshi Dangwal, Mukund Lal, **Shobha Yadav**, and Sandip Das (2021), OVATE FAMILY PROTEINS (OFP) gene family across Brassicaceae: Comparative genomic analysis uncovers evolutionary relationships, extensive sequence and structural variation with a potential for functional diversification. *Plant Gene*, 28, 100343. (<https://doi.org/10.1016/j.plgene.2021.100343>)

One of the co-author of book “Comprehensive Life Science: Theory, Problems and Solutions-Volume-I” published by Viva Publication, ISBN 978-93-90054-88-6 (2021) (<https://www.amazon.in/COMPREHENSIVE-LIFE-SCIENCES-PROBLEMS-SOLUTIONS/dp/9390054885>)