Brief profile

Dr Anuradha Upadhyay obtained her Ph.D. in Molecular Biology and Biotechnology from the Indian Agricultural Research Institute (IARI), New Delhi, with her doctoral research focusing on molecular mapping of the Brassica genome.

She has over three decades of research experience in plant molecular genetics, genomics, and biotechnology, with major contributions to molecular breeding, functional genomics, transcriptomics, and stress biology in grapevine and other perennial crops. She has conducted advanced postdoctoral research at CSIRO, Australia, under the DBT Overseas Associateship (DBT-CREST Fellowship), where she worked on functional genomics and SNP analysis in grapevine.

Her research has significantly advanced the understanding of biotic and abiotic stress tolerance, berry development, molecular marker development, QTL mapping, GWAS, and genomic selection in fruit crops, particularly grapes. She has led several nationally funded research projects supported by DBT, DST-SERB, NASF-ICAR, and BARC, and has guided Ph.D., M.Sc., and B.Sc. students in biotechnology.

Dr. Upadhyay is a Fellow of the Indian Academy of Horticulture Sciences and the Society for Promotion of Horticulture and has received several prestigious awards, including the ICAR Team Award, IARI Merit Medal for Ph.D. research, and best research paper awards from national horticultural societies. She is recognized as a Ph.D. guide by multiple universities, serves on national scientific and institutional committees, and is an active reviewer for leading international journals.

She has published extensively in reputed international and national journals and has delivered invited lectures at national and international conferences. Her current research focuses on genomics-assisted breeding and molecular improvement of perennial fruit crops to enhance productivity, quality, and stress resilience.