CURRICULUM VITAE

Present Position and Address

Raheleh Mirdar Mansuri, Ph.D.

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Academic Diplomas

Degree	Conferring Institution	Field	Year
Ph.D	Sari Agricultural Science and Natural Resource University	Plant Breeding, Molecular Genetics & Genetic Engineering	2018
	PhD Project: Expression analysis of salt stress candidate gene(s) in rice (*Oryza Sativa*) Supervised by: Prof. Nadali Babaeiyan & Dr. Zarhra-Sadat Shobbar		

Professional Experience

Postdoctoral fellow: 2021-2023**,** Agricultural Biotechnology Research Institute of Iran (ABRII)

Research assistant: 2015-2021, Agricultural Biotechnology Research Institute of Iran (ABRII)

Teaching Experience

Instructor: 2010-2015, University of Applied Science and Technology

Research Interests

My research focuses on plant genomics and transcriptomics. In particular, I am exploring genes underlying abiotic/biotic stress through meta-analysis in meta-QTL positions and molecular marker discovery in transcriptomics data for them.

I'm always open to take up new challenges helping me to improve myself and making me move forward.

Honors

Member of Iran's National Elites Foundation.

Reviewer of Scientific Journals

- Rice | peer-reviewed journal

- Environmental and Experimental Botany | peer-reviewed journal

Skills

Laboratory Experiences:

- Real time PCR technique
- PCR technique
- Tissue & cell culture
- Hydroponic culture
- RNA extraction
- DNA extraction
- Gel Electrophoresis
- cDNA synthesis
- Sampling techniques and storage for RNA and DNA extraction purposes

Bioinformatics Experiences:

- Gene expression analysis
  - RNA Seq data analysis (mRNA, lncRNA and miRNA)
  - Meta- transcriptome data analysis
  - Microarray analysis

  - Molecular marker discovery in transcriptomics data
- Meta-QTL analysis
- Hub analysis & gene networks
- Gene ontology analysis
- Mapman and KEGG pathway classification
- Primer design for PCR and qRT-PCR
- Other software: CLC Genomics Workbench, SPSS, Excel, Expression console, Adobe InDesign . Also, I am familiar with Python programming language and Bash scripting.

Publications in Peer Reviewed Journals

Shobbara, Z. S, Amirbakhtiar, N, **Mirdar Mansuri. R**, Loni, F, Akbari, A, Sasaninezhad, M. (2023). Small RNAs involved in salt stress tolerance of food crops. Plant Small RNA in Food Crops (Elsevier), 295. https://doi.org/10.1016/B978-0-323-91722-3.00003-8.

Mirdar Mansuri. R, Azizi, A. H, Sadri, A. H, & Shobbar, Z. S. (2022). Long non-coding RNAs as the regulatory hubs in rice response to salt stress. **Scientific Reports**, 12(1), 21696. https://doi.org/10.1038/s41598-022-26133-x.

Daryani. P, Ramandi. H, Dezhsetan. S, **Mirdar Mansuri. R**, Hosseini Salekdeh. G, Shobbar. Z-S. (2021) Pinpointing genomic regions associated with root system architecture in rice through an integrative meta-analysis approach. **Theoretical and Applied Genetics**:1-26. https://doi.org/10.1007/s00122-021-03953-5.

Amirbakhtiar N, Ismaili A, Ghaffari M, **Mirdar Mansuri R**, Sanjari S, Shobbar Z-S. (2021) Transcriptome analysis of bread wheat leaves in response to salt stress. **PLOS One**. 16(7): e0254189. https://doi.org/10.1371/journal.pone.0254189.

Mirdar Mansuri R, Shobbar Z-S, Babaeian Jelodar N, Ghaffari MR, Seyed Mahdi Mohammadi and Parisa Daryani (2020) Salt tolerance involved candidate genes in rice: an integrative meta-analysis approach. **BMC Plant Biology** 20, 452 (2020). https://doi.org/10.1186/s12870-020-02679-8.

Mirdar Mansuri R, Shobbar Z-S, Babaeian Jelodar N, Ghaffari MR, Nematzadeh G-A, Asari S. (2019) Dissecting molecular mechanisms underlying salt tolerance in rice: a comparative transcriptional profiling of the contrasting genotypes. **Rice** 12 (1):13. https://doi:10.1186/s12284-019-0273-2.

Mirdar Mansuri. R**,** N. Babaeian Jelodar and N. Bagheri. (2012) Evaluation rice genotypes to salt stress in different growth stages via phenotypic and RAPD marker assisted selection. **African Journal & Biotechnology**. 11(39):9362-9372. http://dx.doi.org/10.5897/AJB11.1490.

Presented in International Conferences

Mirdar Mansuri R, Azizi A-H, Shobbar Z-S. (2022) Deep neural network prediction of interplay between lncRNAs and salinity response in rice. 1st **International and 10th National Iranian Conference on Bioinformatics (ICB).** Tehran, Iran.

Mirdar Mansuri R, Shobbar Z-S. (2019) Identification of salt tolerance involved genes in rice using an integrative approach**. 3nd International and 11th National Biotechnology Congress of Islamic Republic of Iran**, Tehran, Iran.

Mirdar Mansuri R, Shobbar Z-S, Babaeian Jelodar N, Nematzadeh G-A. (2016) Gene network reconstruction and hub genes analysis of salt tolerance in oryza sativa .**24th International and Iranian Genetics Congress,** Tehran, Iran.

Mirdar Mansuri R, N. Babaeian Jelodar and N. Bagheri. (2009) Effect of NaCl on the morphological traits of new rice germplasm. **5th International Scientific Conference of Iran and Russia on Agricultural Development Problems,** Saint-Petersburg, Russia.