Mohammad Reza Ghaffari

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Education

2009- 2014	PhD, Systems Biology	Martin-Luther-University Halle-Wittenberg, Germany
2000– 2002	MSc., Biochemistry	University of Guilan, Iran
1996-2000	BSc., General Biology	Shiraz University, Shiraz, Iran

Research Experience

2023-Now	Associate Professor	Systems Biology Department, Agricultural Biotechnology Research Institute of Iran
2015-2023	Assistant Professor	Systems Biology Department, Agricultural Biotechnology Research Institute of Iran
2009-2014	PhD Student	Leibniz Institute of Plant Genetics and Crop Plant Research, Germany
2002– 2009	Researcher	Genomics Department, Agricultural Biotechnology Research Institute of Iran

Awards

Best Researcher (2023)
Awarded by Agricultural Biotechnology Research Institute of Iran, For outstanding performance in agricultural biotechnology research

Best Researcher (2020)
Awarded by Agricultural Biotechnology Research Institute of Iran, In recognition of outstanding performance in basic science research

PhD Scholarship (2009)
Awarded by Leibniz Institute of Plant Genetics and Crop Plant Research

Best Researcher (2008)
Awarded by Iran Nanotechnology Innovation Council, For exceptional contributions to nanotechnology research in Iran

Best Researcher (2006)
Awarded by Agricultural Biotechnology Research Institute of Iran, For outstanding performance in agricultural biotechnology research

Published in Books Chapters

Zahra Ghorbanzadeh, Rasmieh Hamid, Feba Jacob Thoppurathu, Rukam S Tomar, Bahador Maleknia, Mohammad Reza Ghaffari: Biotechnology and genetic engineering tools for abiotic stress management, Emerging Tools for Sustainable Agriculture and Food Security, 2022. Deepika Book Press, 157-180

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Mohammad R. Hajirezaei, Mohammad Reza Ghaffari, Bjorn H. Junker, Johannes Milller, Bjorn Usadel, Michael Leps, Rainer Lemke, Falk Schreiber: Renewable resources and biotechnology for biotechnology and material applications: Multiscale Metabolic Modeling of Cereals: An Integrated Systems Biology Approach for Research Biomass. 01/2010; Nova Science Publishers Inc., New York.

Published in Peer-reviewed Journals

Mehrbano Kazemi Alamouti, Mohammad Majdi, Reza Talebi, Mehdi Dastranj, Alireza Bandani, Ghasem Hossini Salekdeh, Mohammad Reza Ghaffari. Transcriptome wide identification of neuropeptides and G protein-coupled receptors (GPCRs) in Sunn pest, *Eurygaster integriceps* Puton. 2024. Gene

Azadeh Shooshtari, Zahra Hajatpour, Mohammad Reza Ghaffari, Fatemeh Seraji, Fatemeh Loni. Awareness of GMOs in terms of the Iran Biosafety Act: a case study of Tehran city. 2024. HELIYON

Adele Rafezi, Mohammad Reza Azimi, Mehrshad Zeinalabedini, Mohammad Reza Ghaffari. Impact of Bioclimatic Factors on Diversity Patterns in *Quercus brantii* (Persian Oak) Populations within the Western Iranian Forest Ecosystem. 2024. Journal of Nuts

Mahdis Zolfaghar, Twan Rutten, Mohammad Reza Ghaffari, Ali Mohammad Banaei-Moghaddam. Comparative Transcriptome Analysis of Hypocotyls During the Developmental Transition of C3 Cotyledons to C4 Leaves in *Halimocnemis mollissima* Bunge. 2023

Nayer Azam Khoshkholgh Sima, Hamid Jabbari, Ali Ebadi, Mohammad Reza Ghaffari, Parisa Koobaz. Comparative Analysis of Exogenous Hormone Application on Contrasting Canola

(Brassica napus L.) Genotypes Under Drought Stress Conditions. 2023. Journal of Soil Science and Plant Nutrition

Soheila Khojand, Mehrshad Zeinalabedini, Reza Azizinezhad, Ali Imani, Mohammad Reza Ghaffari. Identification of the core collection in Iranian almond germplasm: utilizing morphological traits and evaluating biochemical properties of the collection. 2023. Genetic Resources and Crop Evolution

Shima Jamalirad, Mohammad Reza Azimi, Nayer Azam Khoshkholgh Sima, Mehrshad Zeinalabedini, Laleh Karimi Farsad, Ghasem Hosseini Salekdeh, Mohammad Reza Ghaffari. 2023. Plant Gene

Zahra Hajibarat, Abbas Saidi, Mehrshad Zeinalabedini, Mohammad Reza Ghaffari, Zohreh Hajibarat. Morphological and Physiological Alteration of Five Potato Cultivars in Response to Nitrogen Deficiency. 2023. Russian Journal of Plant Physiology

Zahra Ghorbanzadeh, Rasmieh Hamid, Feba Jacob, Mehrshad Zeinalabedini, Ghasem Hosseini Salekdeh, Mohammad Reza Ghaffari. Comparative metabolomics of root-tips reveals distinct metabolic pathways conferring drought tolerance in contrasting genotypes of rice. 2023. BMC Genomics

Zahra Ghorbanzadeh, Rasmieh Hamid, Feba Jacob, Mehdi Mirzaei, Mehrshad Zeinalabedini, Somayeh Abdirad, Paul A. Haynes, Mohammad Reza Ghaffari, and Ghasem Hosseini Salekdeh. MicroRNA Profiling of Root Meristematic Zone in Contrasting Genotypes Reveals Novel Insight into in Rice Response to Water Deficiency.2023. Journal of Plant Growth Regulation

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Esmat Aghaee-Meybodi, Amin Nezarat, Sima Emadi, Mohammad Reza Ghaffari. A Parallel Hash based method for local sequence alignment. 2021. Concurrency and Computation Practice and Experience

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Zahra Hajibarat, Abbas Saidi, Ahmad Mosuapour Gorji, Mehrshad Zeinalabedini, Mohammad Reza Ghaffari, Rahim Ahmadvand. Screening of Iranian potato germplasm for resistance to PVY and PVX. 2021. Crop Biotechnology

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Behnam Khatabi, Javad Gharechahi, Mohammad Reza Ghaffari, Dilin Liu, Paul A Haynes, Matthew J McKay, Mehdi Mirzaei, Ghasem Hosseini Salekdeh: Plant-microbe symbiosis: What has proteomics taught us? Proteomics. 04/2019. doi.org/10.1002/pmic.201800105

Nayer Azam KhoshKholgh Sima, Narges Reiahi Samani, Ali Ebadi, Mohammad Reza Ghaffari: Effects of calcium and phosphorus enrichment on yield and physiological characteristics of Salicornia persica under different salinity levels. Journal of Plant Nutrition 04/2019; DOI:10.1080/01904167.2019.1567768.

Nazanin Amirbakhtiar, Ahmad Ismaili, Mohammad Reza Ghaffari, Farhad Nazarian Firouzabadi, Zahra-Sadat Shobbar: Transcriptome response of roots to salt stress in a salinity-tolerant bread wheat cultivar. PLoS ONE 03/2019; 14(3): e0213305., DOI:10.1371/journal.pone.0213305.

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Mohammad Reza Ghaffari, Mehdi Mirzaei, Mehdi Ghabooli, Behnam Khatabi, Yunqi Wu, Masoud Zabet-Moghaddam, Ghasem Mohammadi-Nejad, Paul A Haynes, Mohammad Reza Hajirezaei, Mozhgan Sepehri, Ghasem Hosseini Salekdeh: Root endophytic fungus Piriformospora indica improves drought stress adaptation in barley by metabolic and proteomic reprogramming. Environmental and Experimental Botany 01/2019; 157, DOI:10.1016/j.envexpbot.2018.10.002.

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