

Parviz Heidari

Personal information:

Ph.D of plant biotechnology

Email: heidarip@shahroodut.ac.ir & parvizh63@gmail.com

2016-present: Assistant professor of plant biotechnology, Shahrood university of technology

Research Experience

Mar 2014 – Oct 2014 **Researcher**

University of Groningen, Ecophysiology, Groningen, Netherlands
signal transduction in tomato root under low temperature

Oct 2011 – Feb 2015 **PhD Student**

Sari Agricultural Sciences and Natural Resources University, Department of
Agronomy, Plant Breeding and Biotechnology
Sari, Iran

Skills & Activities

Skills RNA-Seq, Signal Transduction, Transcriptomics, Hormone profiling, Polyploidy, Genomics, Bioinformatics and Computational Biology, NGS Data Analysis, Pathway Analysis, Molecular Biology, Cytogenetics, Genetic diversity, Bioremediation

Interests: Cell Signal Transduction, Plant Genome & Bioinformatics and Computational Biology

Editorial boards Member of Editorial Board (Turk J Agric For. IF=2.58)
Guest Editor (International Journal of Molecular Sciences, IF=5.92)
Topic Editor (Frontiers in Plant Science, IF=5.75)
Reviewer of BMC genomics
Reviewer of BMC plant biology
Reviewer of Scientia Horticulturae
Reviewer of PLOS One
Reviewer of Frontiers in plant science

ORCID <https://orcid.org/0000-0003-4716-0143>

Journal Publications

- Faraji S, **Parviz Heidari**, Amouei H, Filiz E, Abdullah, Poczai P. *Investigation and Computational Analysis of the Sulfotransferase (SOT) Gene Family in Potato (Solanum tuberosum): Insights into Sulfur Adjustment for Proper Development and Stimuli Responses*. *Plants*. 2021; 10(12):2597. <https://doi.org/10.3390/plants10122597>
- Abdullah, F Mehmood, **Parviz Heidari**, A Rahim, I Ahmed, P Poczai. *Pseudogenization of the chloroplast threonine (trnT-GGU) gene in the sunflower family (Asteraceae)*. *Scientific reports* 11 (1), 1-9, 2021.
- Z Ashrafi, **Parviz Heidari**, S Mojerlou. *Does the long-term contamination of lead (PbII) affect the bioremediation mechanisms of Microbacterium oxydans strain CM3 and CM7?* *Soil and Sediment Contamination*. 2022.
- Jen-Tsung Chen, **Parviz Heidari**. *Cell Signaling in Model Plants*. Ebook. ISBN 978-3-0365-1954-8 (Hbk); ISBN 978-3-0365-1955-5 (PDF). <https://doi.org/10.3390/books978-3-0365-1955-5>
- Abdullah, Sahar Faraji, **Parviz Heidari** and Peter Poczai. *The BAHD gene family in cacao (Theobroma cacao, Malvaceae): genome-wide identification and expression analysis*. *Frontiers in Ecology and Evolution*. 2021.10.
- Parviz Heidari**, Abdullah, Sahar Faraji and Peter Poczai. *Magnesium transporter Gene Family: Genome-Wide Identification and Characterization in Theobroma cacao, Corchorus capsularis, and Gossypium hirsutum of Family Malvaceae*. *Agronomy*, 8, 8, 1-18, 2021-08-26
- Sahar Faraji, Soosan Hasanzadeh, **Parviz Heidari**. *Comparative in silico analysis of phosphate transporter gene family, PHT, in Camelina sativa genome*, *Gene Reports*, 4, 4, 101351-, 2021-12-02
- Abdullah, Sahar Faraji, Furrukh Mehmood, Hafiz Muhammad Talha Malik, Ibrar Ahmed, **Parviz Heidari** and Peter Poczai. *The GASA Gene Family in Cacao (Theobroma cacao, Malvaceae): Genome Wide Identification and Expression Analysis*. *Agronomy*, 7, 7, 1-20, 2021-07-24
- Samira Neishabouri, Mehdi Rezaei, **Parviz Heidari**, Hossien Hokmabadi. *Variability of male and female pistachio genotypes with morphological and dominant DNA markers*. *The Nucleus*, 2, 2, 1-10, 2021-06-30
- Parviz Heidari**, Mohammad Reza Amerian, Gianni Barcaccia. *Hormone Profiles and Antioxidant Activity of Cultivated and Wild Tomato Seedlings under Low-Temperature Stress*. *Agronomy*, 6, 6, 1-17, 2021-06-05
- Zahra Musavizadeh, Hamid Najafi-Zarrini, Seyed Kamal Kazemitabar, Seyed Hamidreza Hashemi, Sahar Faraji, Gianni Barcaccia, **Parviz Heidari**: *Genome-Wide Analysis of Potassium Channel Genes in Rice: Expression of the OsAKT and OsKAT Genes under Salt Stress*. *Genes*. 05/2021.

Parviz Heidari, Sahar Faraji, Mostafa Ahmadizadeh, Sunny Ahmar and Freddy Mora-Poblete: *New Insights into Structure and Function of TIFY Genes in Zea mays and Solanum lycopersicum: A Genome-Wide Comprehensive Analysis*. *Frontiers in Genetics*. 05.2021.

Abdullah, Furrukh Mehmood, Abdur Rahim, **Parviz Heidari**, Ibrar Ahmed, Péter Poczai: *Comparative plastome analysis of Blumea, with implications for genome evolution and phylogeny of Asteroideae*. *Ecology and Evolution*. 04/2021.

Sahar Faraji, Mostafa Ahmadizadeh, **Parviz Heidari**: *Genome-wide comparative analysis of Mg transporter gene family between Triticum turgidum and Camelina sativa*. *BioMetals*. 04/2021.

Parviz Heidari, Mahdi Entazari, Amin Ebrahimi, Mostafa Ahmadizadeh, Alessandro Vannozzi, Fabio Palumbo and Gianni Barcaccia: *Exogenous EBR Ameliorates Endogenous Hormone Contents in Tomato Species under Low-Temperature Stress*. *Horticulturae*. 04/2021

Samira Neyshaburi, Mehdi Rezaei, Mohamad Hadi Movahednejad, Hossien Hokmabadi and **Parviz Heidari**: *Morphological and Phenological Characterizations of Some Male and Female Promising Pistachio Genotypes from an Open-pollinated Population*. *International Journal of Fruit Science*. 02/2021.

Mehdi Rezaei, Abbas Rohani, **Parviz Heidari**, Shaneka Lawson: *Using soft computing and leaf dimensions to determine sex in immature Pistacia vera genotypes*. *Measurement*. 01/2021.

Camilo E. Valenzuela, Paulina Ballesta, Sunny Ahmar, Sajid Fiaz, **Parviz Heidari**, Carlos Maldonado and Freddy Mora-Poblete: *Haplotype- and SNP-Based GWAS for Growth and Wood Quality Traits in Eucalyptus cladocalyx Trees under Arid Conditions*. *Plants*. 01/2021.

Elham Kazemi, Javaad Zargooshi, Marzieh Kaboudi, **Parviz Heidari**, Danial Kahrizi, Behzad Mahaki, Youkhabeh Mohammadian, Habibolah Khazaei and Kawsar Ahmed: *A genome-wide association study to identify candidate genes for erectile dysfunction*. *Briefings in Bioinformatics*. 11/2020.

Sahar Faraji, Ertugrul Filiz, Seyed Kamal Kazemitabar, Alessandro Vannozzi, Fabio Palumbo, Gianni Barcaccia and **Parviz Heidari**: *The AP2/ERF Gene Family in Triticum durum: Genome-Wide Identification and Expression Analysis under Drought and Salinity Stresses*. *Genes*. 12/2020.

Parviz Heidari, Samaneh Sanaeizade, Faezeh Mazloomi: *Removal of Nickel, Copper, Lead and Cadmium by New Strains of Sphingomonas melonis E8 and Enterobacter hormaechei WW28*. *J Appl Biotechnol Rep*. 12/2020.

Mostafa Ahmadizadeh, Sadra Rezaee, **Parviz Heidari**: *Genome-wide characterization and expression analysis of fatty acid desaturase gene family in Camelina sativa*. *Gene reports*. 11/2020.

Parviz Heidari, Mehdi Rezaei, Abbas Rohani: *Soft computing-based approach on prediction promising pistachio seedling base on leaf characteristics*. *Scientia Horticulturae*. 08/2020.

Sadra Rezaee, Mostafa Ahmadizadeh, **Parviz Heidari**: *Genome-wide characterization, expression profiling, and posttranscriptional study of GASA gene family*. *Gene reports*. 08/2020

Parviz Heidari, Faezeh Mazloomi , Thomas Nussbaumer and Gianni Barcaccia: *Insights into the SAM Synthetase Gene Family and Its Roles in Tomato Seedlings under Abiotic Stresses and Hormone Treatments*. *Plants*. 05/2020

Parviz Heidari, Antonio Panico: *Sorption Mechanism and Optimization Study for the Bioremediation of Pb(II) and Cd(II) Contamination by Two Novel Isolated Strains Q3 and Q5 of Bacillus sp*. *International Journal of Environmental Research and Public Health*. 06/2020

Parviz Heidari, Samaneh Sanaeizade: *Optimization and Characterization of Lead Bioremediation by Strains of Microbacterium Oxydans*. *Soil and sediment contamination*. 06/2020

Parviz Heidari, Faezeh Mazloomi, Samaneh Sanaeizade: *Optimization Study of Nickel and Copper Bioremediation by Microbacterium oxydans Strain CM3 and CM7*. *Soil and sediment contamination*. 04/2020.

Thomas Nussbaumer, Olivia Debnath, Christian Wagner, **Parviz Heidari**: *TraitCorr as a workbench for correlating gene expression measurements with phenotypic data*. *Gene Reports*. 2020. <https://doi.org/10.1016/j.genrep.2020.100649>.

Kobra Abiri, Mehdi Rezaei, Hamidreza Tahanian, **Parviz Heidari**, Ali Khadivi: *Morphological and pomological variability of a grape (Vitis vinifera L.) germplasm collection*. *Scientia Horticulturae* 04/2020; 266.

Kamran M, Parveen A, Ahmar S, Malik Z, Hussain S, Chattha M.S., Saleem M.H, Adil M, **Heidari P**, Chen J.-T. *An Overview of Hazardous Impacts of Soil Salinity in Crops, Tolerance Mechanisms, and Amelioration through Selenium Supplementation*. *Int. J. Mol. Sci*. 2020, 21, 148.

Mehdi Rezaei, **Parviz Heidari**, Ali Khadivi: *Identification of superior apricot (Prunus armeniaca L.) genotypes among seedling origin trees*. *Scientia Horticulturae* 02/2020; 262.

Ali Khadivi, **Parviz Heidari**, Mehdi Rezaei, Amir Safari-Khuzani, Mohammad Sahebi: *Morphological variabilities of Crataegus monogyna and C. pentagyna in northeastern areas of Iran*. *Industrial Crops and Products* 11/2019; 139., DOI:10.1016/j.indcrop.2019.111531.

Parviz Heidari: *Comparative Analysis of C-repeat Binding Factors (CBFs) in Tomato and Arabidopsis*. *Brazilian Archives of Biology and Technology* 01/2019; 62(2)., DOI:10.1590/1678-4324-2019180715.

Parviz Heidari, Mostafa Ahmadizadeh, Fatemeh Izanlo, Thomas Nussbaumer: In silico study of the CESA and CSL gene family in *Arabidopsis thaliana* and *Oryza sativa*: Focus on post-translation modifications. *Plant Gene*. 2019. DOI:10.1016/j.plgene.2019.100189.

Ali Khadivi, Mehdi Rezaei, **Parviz Heidari**, A. Safari-Khuzani, M. Sahebi: *Morphological and fruit characterizations of common medlar (Mespilus germanica L.) germplasm*. *Scientia Horticulturae* 06/2019; 252:38-47.

K. Seifpanahi-Shabani, A. Eyvazkhani¹, **Parviz Heidari**: *Bioremediation of Textile Dyes Wastewater: Potential of Bacterial Isolates from a Mining Soils and Wetlands*, *Progress in Color, Colorants and Coatings*, 2019, 12(3): 155-161. [Scopus]

Mehdi Rezaei, Hossein Hokmabadi, Ali Khadivi, Amir Safari-Khuzani, **Parviz Heidari**. *The selection of superior pistachio (Pistacia vera L.) genotypes among seedling trees originated from open-pollination*. *Scientia Horticulturae* 03/2019; 251:88-100.

Akram Dabir, **Parviz Heidari**, Hadi Ghorbani, Amin Ebrahimi. *Cadmium and lead removal by new bacterial isolates from coal and aluminum mines*. *International Journal of Environmental Science and Technology*, 03/2019; 1-8.

Parviz Heidari, Mehdi Rezaei, Mohammad Sahebi, Ali Khadivi. *Phenotypic variability of *Pyrus boissieriana* Buhse: Implications for conservation and breeding*. *Scientia Horticulturae*, 03/2019; 247: 1-8.

Simin Azoush, Seyed Kamal Kazemitabar, **Parviz Heidari**: *Polyploidy induction in Iranian Borage (*Echium amoenum* L.) by colchicine treatment*. *Biharean Biologist* 12/2014; 8(2):87-89.

Mostafa Ahmadizadeh, **Parviz Heidari**: *Bioinformatics study of transcription factors involved in cold stress*. *Biharean Biologist* 09/2014; 8(2):83-86.

Hamid Najafi-Zarrini, **Parviz Heidari**: *Identification of Transport Proteins in Arabidopsis leaf plasma membrane by 2DLC-MALDI-TOF*. *Biharean Biologist* 06/2014; 8(1):16-20.

Parviz Heidari, Ali Ashraf Mehrabi, Ali Asghar, Nasrolah Nezhad Ghomi: *Cytogenetic diversity of Iranian balm (*Melissa officinalis*) landraces and genetic relationship within and between them using ITS markers*. *Biharean Biologist* 12/2013; 7(2).

Mohammad Zaeifizadeh, Sattar Tahmasebi Enferadi, Amir Mousavi, **Parviz Heidari**, Mostafa Ahmadizadeh: *Quick method for screening of tolerant sunflower (*Helianthus annuus* L.) genotypes to *Sclerotinia sclerotiorum* at seedling stage*. *Biharean Biologist* 06/2013; 7(1):29-32.