

Dr. Parisa Rahimzadeh Karvansara

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Work Experience

11/2024 – now

Associate scientist, Institute of Microbiology, Czech Academy of Sciences, Centrum ALGATECH, Trebon, **Czech Republic**.

7/2023- 11/2024

Associate researcher, Center for Plant Genome Engineering, Heinrich-Heine-Universität Düsseldorf, Düsseldorf, **Germany**

4/2020 – 7/2023

Postdoctoral researcher, Institute of Microbiology, Czech Academy of Sciences, Centrum ALGATECH, Trebon, **Czech Republic**.

7/2018 - 1/2020

Postdoctoral researcher, Institute for Plant Sciences, University of Cologne, Cologne, **Germany**

4/2011-6/2015

Associate tutor, Kanoon Farhangi Amoozesh Ghalamchi, Urmia, **Iran**

4/2007- 9/2008

Research Assistant, DFS Deutsche Forstservice GmbH, IRAN - Alborz Integrated Land and Water Management Project (AILWMP), Sari, **Iran**.

Academic Education

2015-2019

Ph.D. in Plant Physiology, University Of Mohaghegh Ardabili, **Iran**

2009-2011

MSc in Plant Physiology, Islamic Azad University, Marand, **Iran**

2003-2007

BSc in Plant Physiology, Urmia University, Urmia, **Iran**

Honours and Awards

- **2015, Ranked fifth nationwide in the PhD entrance exam,** Outperforming thousands of candidates.
- **2018, Sabbatical Fellowship,** Ministry of Science, Research and Technology, Iran

Professional Memberships

CEPLAS, Cluster of Excellence on Plant Sciences, 7/2023-11/2024

<https://www.ceplas.eu/en/research/dr-parisa-rahimzadeh-karvansara>

- Actively participating in CEPLAS events, conferences, and workshops.
- Attending regular meetings and networking events to expand professional connections and knowledge

Language skills

- English (proficient)
- Turkish (proficient)
- Czech (basic)
- German (basic)
- Persian (native)
- Azerbaijani (native)

Hobbies

- A committed abstract artist



- Volunteer at the animal shelter
- Sports: table tennis, running and outdoors

List of Publications

1. Kopriva S, Rahimzadeh Karvansara P, Takahashi H (2024) Adaptive Modifications in plant Sulfur Metabolism over Evolutionary Time. *Journal of Experimental Botany*, accepted.
2. Rahimzadeh Karvansara P, Komenda J, Kopriva S (2024) Sulfur metabolism in cyanobacteria. In *Progress in Biochemistry and Biotechnology, Cyanobacteria*, Academic Press.
3. Rahimzadeh Karvansara P, Kelly C, Krone R, Zenzen I, Ristova D, Silz E, Jobe T.O, Kopriva S (2022) Unique features of regulation of sulfate assimilation in monocots. *Journal of Experimental Botany*.
4. Rahimzadeh Karvansara P, Pascual-Aznar G, Bečková M, Komenda J (2022) Psb34 protein modulates binding of high-light-inducible proteins to CP47-containing photosystem II assembly intermediates in the cyanobacterium *Synechocystis* sp. PCC 6803. *Photosynthesis Research*.
5. Jobe T O, Rahimzadeh Karvansara P, Zenzen I , Kopriva S (2020) Ensuring nutritious food under elevated CO₂ conditions: A Case for improved C₄ crops. *Frontiers in Plant Science*.
6. Jobe T O, Zenzen I, Rahimzadeh Karvansara P, Kopriva S (2019) Integration of sulfate assimilation with carbon and nitrogen metabolism in transition from C3 to C4 photosynthesis. *Journal of Experimental Botany*.
7. Rahimzadeh-Karvansara P, Razavi SM (2019) Physiological and biochemical responses of sugar beet (*Beta vulgaris* L) to ultraviolet-B radiation. *PeerJ*.
8. Rahimzadeh-Karvansara P, Razavi SM (2019) Sugar beet (*Beta vulgaris* L) phytochemical alternations in response to Ultraviolet-B radiation. *Journal of Sugar Beet*.
9. Rahimzadeh-Karvansara P, Shalizar Jalali A (2018) Betalains: multifunctional medicinal bio-pigments. *Journal of Natural and Ayurvedic Medicine*, 2(3): 000129.
10. Shalizar Jalali A, Rahimzadeh-Karvansara P (2017) Endoplasmic reticulum stress and ovarian failure. *Obstetrics and Gynecology International Journal*, 8(1): 00279.
11. Shalizar Jalali A, Rahimzadeh P (2016) Yarrow as a new weapon against hypertension. *Insights in Blood Pressure*, 2(1): 9.
12. Shalizar Jalali A, Najafi G, Rahimzadeh P (2015) Summer savory (*Satureja hortensis*) can reduce spermatotoxic effects of doxorubicin in rats. *Caspian Journal of Reproductive Medicine*, 1(1): 2-7.
13. Rahimzadeh P, Hosseini S, Dilmaghani K (2011) Effects of UV-A and UV-C radiation on some morphological and physiological parameters in savory (*Satureja hortensis* L.). *Annals of Biological Research*, 2 (5): 164-171.

Oral presentations / conferences

1. Rahimzadeh Karvansara P, Armbruster U, Komenda J. Slr1470 is involved in the early steps of Photosystem II assembly in the cyanobacterium *Synechocystis* sp. PCC 6803. Poster presentation at MBP2024, March 4-7, 2024, Hennef-Germany
2. Rahimzadeh Karvansara P, Komenda J, Kopriva S. Sulfur metabolism in Cyanobacteria. Invited speaker at Symposium on “Current Perspectives in Algal and Cyanobacterial Biology (CPACB-2023). February 20-21, 2023, Varanasi-India.
3. Rahimzadeh Karvansara P, Pascual-Aznar G, Bečková M, Komenda J. Psb34 protein modulates binding of high-light-inducible proteins to photosystem II assembly intermediates in the cyanobacterium *Synechocystis* sp. PCC 6803. Poster presentation at Cyano2022 - 7th Early Career Researcher Symposium on Cyanobacteri. Sept 26-28, 2022, Leipzig-Germany.
4. Rahimzadeh Karvansara P, Timothy OJ, Zenzen I, Kopriva S. C3 and C4 Sulfur metabolism regulation, Similarities and differences. Oral presentation at Plant Developmental and Production Biology under Global Climate Change. Sept 09-11, 2019, Brno-Czech Republic.
5. Rahimzadeh Karvansara P, Razavi SM. Sugar beet (*Beta vulgaris* L) phytochemical alternations in response to ultraviolet-B radiation. Poster presentation at 1th Cologne Conference on Food for Future. Sept 05-07, 2018, Cologne-Germany.
6. Raheli N, Razavi SM, Rahimzadeh P. *Mentha sylvestris* germination stimulation in response to different concentrations of gibberellin hormone. Poster presentation at 2nd National Congress of Iran Dryland Medicinal Plants, July 11-12, 2017, Urmia-Iran.
7. Raheli N, Razavi SM, Rahimzadeh P. Effect of different treatments on *Mentha sylvestris* seed dormancy-breaking and germination stimulation. Poster presentation at 2nd National Congress of Iran Dryland Medicinal Plants, July 11-12, 2017, Urmia-Iran.
8. Shalizar Jalali A, Najafi G, Rahimzadeh P, Rasuolian MH, Besharatifard V. Summer savory effectively combats with anti-androgenic activities of doxorubicin in rats. Poster presentation at 3rd International Congress on Reproduction (ISERB 2017), May 20-22, 2017, Tehran-Iran (J. Reprod. Infertil., 2017; 18(Suppl. 2): 219-220).
9. Shalizar Jalali A, Najafi G, Rahimzadeh P, Koohestani M, Nourian A. Hypoglycemic effect of *Citrullus colocynthis* pulp extract in doxorubicin-exposed male mice. Poster presentation at 13th Iranian International Congress of Toxicology, May 22-24, 2015, Urmia-Iran.
10. Shalizar Jalali A, Najafi G, Rahimzadeh P, Yarahmadi E. *Satureja hortensis* hydroalcoholic extract ameliorates doxorubicin-evoked teratozoospermia in rat. Poster presentation at 4th National Congress on Medicinal Plants, May 12-13, 2015, Tehran-Iran (Iran. J. Pharm. Res., 2015; 14 (Suppl. 2): 771).
11. Shalizar Jalali A, Najafi G, Rahimzadeh P, Yarahmadi E. Summer savory (*Satureja hortensis* L.) can reduce the spermatotoxic effects of doxorubicin in rats. Poster presentation at 4th National Congress on Medicinal Plants, May 12-13, 2015, Tehran-Iran (Iran. J. Pharm. Res., 2015; 14 (Suppl. 2): 738)..

12. Rahimzadeh P, Dilmaghani K, Hosseini S. UV- induced appearance modifications in savory (*Satureja hortensis* L.). Poster presentation at 3th National Seminar on Biological Diversity and its Impact on Agriculture and the Environment, August 7, 2014, Urmia-Iran.
13. Rahimzadeh P, Dilmaghani K, Hosseini S. UV-induced structures and ultra-structures modifications in plant cells. Poster presentation at 3rd National Seminar on Biological Diversity and its Impact on Agriculture and the Environment, August 7, 2014, Urmia-Iran
14. Rahimzadeh P, Dilmaghani K, Hosseini S. Effects of ultraviolet radiation on malondialdehyde content and some antioxidant enzymes in savory (*Satureja hortensis* L.). Poster presentation at The 1st Internal Congress on Biology, March 1, 2014, Urmia-Iran.
15. Rahimzadeh P, Dilmaghani K, Hosseini S. Effects of ultraviolet radiation on some physiological parameters in savory (*Satureja hortensis* L.). Poster presentation at The 2th National Biology Congress of Researchers, February 13-17, 2011, Tehran-Iran.
16. Rahimzadeh P, Dilmaghani K, Hosseini S. Effects of ultraviolet radiation on some growth parameters and UV absorbing compounds in savory (*Satureja hortensis* L.). Poster presentation at The 2th National Biology Congress of Researchers, February 13-17, 2011, Tehran-Iran.