Tahoora B. Zargar

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EDUCATION

Master of Science in Botany *Specialization: Plant physiology* Grade: Excellent	Aligarh Muslim University	2017-2019
Bachelor of Science *Specialization: Plant physiology* Grade: Excellent	University of Jammu	2014-2017
Higher Secondary School Grade: Excellent	J&K Board of School Education	2012-2014

RESEARCH EXPERIENCE

Stipendium Hungaricum Scholar	University of Debrecen	Aug. 2020 - current

PROJECTS

M.Sc. Dissertation

Title: *EFFECT OF MELATONIN ON MUSTARD IN THE PRESENCE OF CADMIUM*.

Survival of plants under polluted environments largely depends on plants' ability to sequester and/or detoxify toxic pollutants such as Cd. This study showed that both exogenous MEL could alter physiological and biochemical traits which were reflected as improved growth and photosynthesis. The toxic level of Cd in *Brassica juncea* plants were alleviated through improved antioxidant system and proline accumulation. Even though, exogenous melatonin had minimal effect on root Cd content, it significantly decreased leaf Cd content, indicating its potential role in regulating Cd translocation. Therefore, these findings can be implicated for developing new strategies to produce safe food in an eco-friendly manner particularly in marginal areas where Cd contamination is a limiting factor for crop production.

Supervisor: Prof. Shamsul Hayat

Publication: T. B. Zargar, A. R. Mir, P. Alam, and S. Hayat. "Melatonin Alleviates Cadmium-Induced Toxicity by Modulating Antioxidant Defence Mechanisms, Growth and Photosynthesis in *Brassica juncea".* Accepted in Russian Journal of Plant Physiology.

Minor Project

Title: *Effect of microwave-radiation stress on contents of chlorophyll, carotenoid, phenol, and photochemical quenching in the leaves of datura innoxia l.*

Supervisor: Prof. M. Masroor Akhtar Khan.

Publication: Under Review

Project in work

Title: “Role of plant protective agents in alleviating various abiotic stresses in crop plants”.

SKILLS

- Strong motivation and leadership skills. Participated and organised various seminars, social and cultural events during college.
- Strong motivation and eager to learn new things.
- Willingness to accept challenge irrespective of its complexity. Hard working, responsible and energetic.
- Having basic experience about handing common experimental equipment like spectrometer, SPAD, Porometer, Centrifuge etc. and some about statistical software like Sigma Plot & SPSS.

OTHER ACTIVITIES

- First position in the intercollege quiz competition organized by Guidance and Counselling Cell Govt. Degree College Kishtwar_2016.
- Participated in Bio-spark- 2018 (a National life Science Fest, held in Aligarh Muslim University). Poster presentation on 2D gel electrophoresis at Bio-spark science test.
- Participated in various events like essay writing (3rd position), Science quiz (First position) at Science Awareness Mela-2013 organized by National Council for Urban & Rural Dev Society, Jammu.
- Attended various Webinar in 2020, recently attended, "International webinar on Advances in Resilience of Sustainable Crop Production" organised by Department of Botany, Aligarh Muslim University.
- Poster presentation at National Conference on Recent Advances in Biological Sciences, "NCBRS-2020", on micro-wave radiation stress.
- Participated in “International Virtual Conference on Frontiers in Biological Research” from Feb 15th to 21st, 2021 organised by Department of Botany, St. Joseph’s College, Tiruchirappalli and The Biomics, Bengaluru.
- Short presentation on “PEG-induced drought stress in Spinach, germination parameters”, “Comparison between *Oscimum basilicum* L. and *Cucurbita pepo* L. germinating parameters under drought stress” and “Effects of eustress and distress applied at different growth stages to *Brassica oleracea* var. *Italica.*” at “ The 18th Wellmann International Scientific Conference”.
- Oral presentation on, “Comparison between various germination parameters of pumpkin and spinach under peg-induced drought stress” at The PhD Conference, “STUDENTS OF THE FUTURE-THE FUTURE OF RURAL AREAS” Online Conference 1th of December 2021.

- Poster presentation on, “The effects of light quality and mild drought stress on H_2O-treated Spinach” at The 19th Wellmann International Scientific Conference.

Publications

- Shahnawaz M#*, Dar RA#, Jeelani SM#, Zargar TB#, Azhar MM#, Ahmad S#, Ali S#, Chouhan R#, Gulfam S#, Gupta P#, Nautiyal AK#, Sangale MK#, and Ade AB*# (2021) Botany, distribution, phytoconstituent phytopharmaceutical potential of Rheum emodi Wall. Ex Meissn: An Overview, In: Phytopharmaceuticals Potential and Therapetic Application, Chauhan and Shah (Eds.), pp. 331-348, Volume 1, Scrivener Publishing LLC, MA, USA (#authors contributed equally and are all first authors)
- Ashraf, Faiza, Tahoora Batool Zargar, and Szilvia Veres. 2021. “COMPARISON BETWEEN GERMINATING PARAMETERS OF BASILS (OCIMUM BASILICUM L.) AND PUMPKIN (CUCURBITA PEPO L.) UNDER DROUGHT STRESS CONDITIONS.”. Review on Agriculture and Rural Development 10 (1-2), 100-106. https://doi.org/10.14232/rard.2021.1-2.100-106.

- Zargar, Tahoora Batool, Faiza Ashraf, and Szilvia Veres. 2021. “PEG- INDUCED DROUGHT STRESS EFFECTS ON SPINACH GERMINATION PARAMETERS”. Review on Agriculture and Rural Development 10 (1-2), 126-32. https://doi.org/10.14232/rard.2021.1-2.126-132.

- COMPARISON BETWEEN VARIOUS GERMINATION PARAMETERS OF PUMPKIN AND SPINACH UNDER PEG-INDUCED DROUGHT STRESS (under review)
- The effects of light quality and mild drought stress on H_2O_2-treated Spinach(under review)

REFERENCES

- M. Masroor A. Khan- “Department of Botany, Aligarh Muslim University 202002 U.P. Aligarh India.”

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- Tariq Aftab - “Department of Botany, Aligarh Muslim University 202002 U.P. Aligarh India.”

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