

CURRICULUM VITAE

PERSONAL DATA

Name: Mona Soliman Al-Wahaibi
Academic Rank: Professor of Plant Molecular Taxonomy
Nationality: Saudi Arabia
Languages: Arabic and English
Address: King Saud University, College of Science,
 Botany and Microbiology Department,
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ACADEMIC QUALIFICATIONS

1. Ph.D. in Science, 2013, Botany and Microbiology Department, King Saud University, College of Sciences, Saudi Arabia, Molecular Plant Taxonomy. Thesis title "The genetic diversity of populations of *Heliotropium digynum* in the central region of the Kingdom of Saudi Arabia by using some Molecular and non- Molecular aspects".
2. M.Sc. in Science, 2008, Botany and Microbiology Department, King Saud University, College of Sciences, Saudi Arabia, Molecular Plant Taxonomy. Thesis title "Systematic Studies on the Species of the Genus *Heliotropium* (Boraginaceae) in Saudi Arabia".
3. B.Sc. in Science 1996, Botany and Microbiology Department, King Saud University, College of Sciences, Saudi Arabia.

EMPLOYMENT HISTORY

- 1- Professor 26-2-2022, Botany and Microbiology Department, King Saud University, College of Sciences, Saudi Arabia
- 2- Associate Professor 20-1-2018, Botany and Microbiology Department, King Saud University, College of Sciences, Saudi Arabia
- 3- Assistant Professor 29-6-2013, Botany and Microbiology Department, King Saud University, College of Sciences, Saudi Arabia.
- 4- Lecturer, Botany and Microbiology Department

ASSOCIATION'S MEMBERSHIP:

1. Saudi Society for Applied Sciences Council Member (PNU)
2. Saudi Biological Society (KSU)
3. Botanical Society of America

ADMINISTRATIVE TASKS AND COMMITTEES

Leadership Roles and Academic Program Management

- 2025 – Head, *Mawhiba Academic Enrichment Program*, King Saud University (June 29 – July 17, 2025).
- 2024 – Head, *Mawhiba Academic Enrichment Program*, King Saud University (June 30 – July 18, 2024).
- 2022 – Scientific Deputy, *Mawhiba Academic Enrichment Program*, King Saud University (July 29 – August 17, 2022).
- 2021 – Scientific Deputy, *Mawhiba Academic Enrichment Program*, King Saud University (July 31 – August 18, 2021).
- 2015 – 2017 – Head, *Mawhiba Summer Talent Program*, King Abdulaziz and His Companions Foundation for Giftedness and Creativity.

Administrative Roles and Committee Memberships

- 2025 – Rapporteur, Academic Accreditation and Evaluation Committee – B.Sc. Botany Program.
- 2020 – Member, Specialized Committee for Preparing Science, Math, and Technology Teachers – King Saud University.
- 2018 – 2019 – Reporter, Laboratories Unit, College of Science (Female Students Campus).
- 2012 – 2016 – Graduate Coordinator, Department of Botany and Microbiology.
- 2011 – 2013 – Rapporteur, Purchasing and Equipment Committee, Botany and Microbiology Department.
- 2009 – 2010 – Member, National Center for Testing and Evaluation Board.
- 2013 – 2018 – Head Deputy, Department of Botany and Microbiology, College of Science, King Saud University.
- 2013 – 2018 – Program Coordinator, Botany Program, Department of Botany and Microbiology.
- 2019 – 2021 – Acting Assistant Vice Dean for Academic Affairs.

National Awards and Environmental Program Judging

- 2025 – Preliminary Judge, *King Faisal Prize in Science and Medicine*.
- 2024 – Judge, *Second Environmental Excellence Award*, Ha'il Region, Saudi Arabia.
- 2023 – Judge, *First Environmental Excellence Award*, Ha'il Region, Saudi Arabia.
- 2015 – Chair, *National Center for Measurement and Evaluation (Qiyas)* Committee – Ministry of Civil Service.

World Wide Web Sites

- Web of Science ResearcherID M-7398-2019
- Orchid  <https://orcid.org/0000-0002-3420-1164>

RESEARCH INTERESTS

1. Plant identification and classification using both classical taxonomy and modern molecular approaches.
2. Green synthesis of nanoparticles from medicinal plants and evaluation of their antimicrobial and anticancer activities.
3. Applications of biotechnology in supporting environmental sustainability and achieving sustainable development goals.

PUBLICATIONS

Naseem, I., Khan, M. A., Habib, U., Rana, R. M., Qasim, M., [Alwahibi, M. S.](#), ... & Iqbal, R. (2025).

Morphological profiling and DNA barcoding revealed genetic diversity and phylogeny of *Mentha* species cultivated in Pakistan. *Genetic Resources and Crop Evolution*, 72(3), 2977-2995.

Shah, H., Ahmad, M., Zafar, M., Ullah, A., Ahmad, S., [Alwahibi, M. S.](#), ... & Elshikh, M. S. (2025). First report of ultra-sculpturing and taxonomic implications of seed morphology of selected genus *Euphorbia* L. *Genetic Resources and Crop Evolution*, 72(3), 3357-3381.

Mohsin, M., Hassan, M., Vitasović-Kosić, I., [Alwahibi, M. S.](#), Wali, S., Oxunjonovich, Q. D. Z., ... & Abbasi, A. M. (2025). An overview of ethnobotanical investigations for primary healthcare: a case study from Mardan district, Pakistan. *Plant Biosystems-An International Journal Dealing with all Aspects of Plant Biology*, 1-14.

Gull, S., Haider, Z., Gu, H., Uddin, S., Qasim, M., Khan, R. A. R., [Alwahibi, M. S.](#) ... & Liang, G. (2025). Exploring environmentally stable and novel genetic factors influencing rice grain shape and yield attributes. *Euphytica*, 221(2), 17.

Naz, T., Ul Ain, N., Iqbal, M. M., Mubeen, M. A., Ditta, A., Iqbal, R., [Alwahibi, M. S.](#) ... & Elshikh, M. S. (2025). Exploring the Potential of Silicon and Salicylic Acid in the Alleviation of Water Deficit Stress in Quinoa (*Chenopodium quinoa*). *Polish Journal of Environmental Studies*, 34(3).

Murtaza, G., Ahmed, Z., Deng, G., Akhtar, S., Rizwan, M., Usman, M., [Alwahibi, M. S.](#) ... & Zulfiqar, F. (2025). Selenium mitigates boron toxicity in *Nicotiana tabacum* via altering root anatomy, accumulation of boron, biochemical and physiological aspects. *Plant Biosystems-An International Journal Dealing with all Aspects of Plant Biology*, 1-15.

Haider, M. W., Abbas, S. M., Hussain, T., Akram, M. T., Farooq, U., [Alwahibi, M. S.](#), ... & Iqbal, R. (2025). Assessment of salicylic acid and potassium nitrate to mitigate frost stress in autumn-sown potato crop cv. Sutlej. *Scientific Reports*, 15(1), 1942.

Naz, T., Ul Ain, N., Iqbal, M. M., Mubeen, M. A., Ditta, A., Iqbal, R., [Alwahibi, M. S.](#) ... & Elshikh, M. S. (2025). Exploring the Potential of Silicon and Salicylic Acid in the Alleviation of Water Deficit Stress in Quinoa (*Chenopodium quinoa*). *Polish Journal of Environmental Studies*, 34(3).

Fahad, S., Muhammad, I., Zhang, S., [Alwahibi, M. S.](#), Elshikh, M. S., & Wang, J. (2025). Impact of Melatonin Application on Wheat Agronomic Traits Under Abiotic Stress: A Meta-Analysis. *Journal of Agronomy and Crop Science*, 211(1), e70016.

Elshikh, [M. S.](#), [Alwahibi, M. S.](#), Malik, Z., Ali, A., Mehmood, H., Ahmad, H. T., ... & Dugalic, B. (2025). Enhancing Wheat Productivity and Reducing Lead Uptake Through Biochar, Bentonite, and Rock Phosphate Integration. *Sustainability*, 17(8), 3491.

Albediwi, A. S., Ali, M. A., Alwahibi, M. S., Ahmed, S. S., Rahman, M. O., Kim, S. Y., ... & Alsuhaimi, N. M. (2024). Unveiling the complete chloroplast genome of *Tribulus macropterus* var. *Arabicus* (hosni) al-hemaid & j. Thomas: genome structure, comparative analysis, and phylogeny. *Bangladesh Journal of Plant Taxonomy*, 31(1), 1-14.

Al-Fakeh, M. S., Alsikhan, M. A., Alnawmasi, J. S., Alluhayb, A. H., & [Al-Wahibi, M. S.](#) (2024). New Nanosized V (III), Fe (III), and Ni (II) Complexes Comprising Schiff Base and 2-Amino-4-Methyl Pyrimidine: Synthesis, Properties, and Biological Activity. *International Journal of Biomaterials*, 2024(1), 9198129.

Murtaza, G., Usman, M., Ahmed, Z., Hyder, S., [Alwahibi, M. S.](#), Rizwana, H., ... & Zeng, Y. (2024). Improving wheat physio-biochemical attributes in ciprofloxacin-polluted saline soil using nZVI-modified biochar. *Ecotoxicology and Environmental Safety*, 286, 117202.

Ayoub, L., Yaqoob, M., Kanth, R. H., Wani, F. J., Shah, Z. A., Dar, E. A., ... & [Alwahibi, M. S.](#) (2024). Exposure to organophosphate insecticides induces behavioral changes and acetylcholinesterase inhibition in *Apis mellifera*. *Ecotoxicology and Environmental Safety*, 287, 117279.

[Alwahibi, M. S.](#), Elshikh, M. S., Makhkamov, T., Yuldashev, A., Islamov, S., Sotiboldiyeva, D., ... AL-MUTERI, J. S., [ALWAHIBI, M. S.](#), & DEWIR, Y. H. (2024). MICROMORPHOLOGICAL CHARACTERISTICS OF POLLEN GRAINS OF *RUELLIA* L.(ACANTHACEAE) IN SAUDI

ARABIA. Pak. J. Bot, 56(2), 591-595.

Murtaza, G., Usman, M., Eldin, S. M., Valipour, M., Rizwan, M., Iqbal, Ahmed, A Majeed, A Munir, [MS Alwahibi](#), MS Elshikh, A Ditta. (2024). Effectiveness of corn stalk biochar in amending the contaminated soil attributes and enhancing the sustainable grass growth. *Global Nest Journal*, 26(1).

Sana Noreen, Tabussam Tufail, Huma Ain, Waseem Khalid, Asif Hanif, Baber Ali, Muhammad Khan, Rashid Iqbal, [Mona Alwahibi](#), Sezai ERCİŞLİ, Mohamed Elshikh, Amany Abeed (2024). Assessment of Antioxidant Activities of Flaxseed (*Linum usitatissimum* L.) and Fennel Seed (*Foeniculum vulgare* Mill.) Extracts. *Polish Journal of Environmental Studies*, 33(3).

Bahadar Zeb, Allah Ditta, Khan Alam, Armin Sorooshian, Badshah Ud Din, Rashid Iqbal, Muhammed Habib ur Rahman, Ahsan Raza, [Mona S Alwahibi](#), Mohamed S Elshikh (2024). Wintertime investigation of PM10 concentrations, sources, and relationship with different meteorological parameters. *Scientific Reports*, 14(1), 154.

Zhao, S., Kamran, M., Rizwan, M., Ali, S., Yan, L., [Alwahibi, M. S.](#), ... & Riaz, M. (2023). Regulation of proline metabolism, AsA-GSH cycle, cadmium uptake and subcellular distribution in *Brassica napus* L. under the effect of nano-silicon. *Environmental Pollution*, 335, 122321.

Gaga, Y., Mehdaoui, I., Kara, M., Assouguem, A., Al-Hashimi, A., Ragab AbdelGawwad, Mohamed S. Elshikh, El Mokhtar Saoudi Hassani, [Mona S. Alwahibi](#), Jamila Bahhou, Mustapha Taleb and Zakia Rais (2023). Elaboration and Characterization of a Biochar from Wastewater Sludge and Olive Mill Wastewater. *Sustainability*, 15(3), 2409.

Dewir, Y. H., Habib, M. M., Alaizari, A. A., Malik, J. A., Al-Ali, A. M., Al-Qarawi, A. A., & [Alwahibi, M. S.](#) (2023). Promising Application of Automated Liquid Culture System and Arbuscular Mycorrhizal Fungi for Large-Scale Micropropagation of Red Dragon Fruit. *Plants*, 12(5), 1037.

Badshah, H., Nisa, S. U., Ali, M. A., [Alwahibi, M. S.](#), Kamal, A., Kaleem, M., ... & Mumtaz, A. S. (2023). Bio-Concentration and Influence of Environmental Factors on Accumulation of Heavy Metals in Edible Autumn Morel (*Morchella galilaea*) of Low Elevation. *Metals*, 13(3), 472.

Dewir, Y. H., Habib, M. M., AlQarawi, A. A., Alshahrani, T. S., Alaizari, A. A., Malik, J. Ahmed Ali Alaizari 1, Jahangir A. Malik, [Mona S. Alwahibi](#) and Hosakatte Niranjana Murthy (2023). Mycorrhization Enhances Vegetative Growth, Leaf Gas Exchange, and Root Development of Micropropagated *Philodendron bipinnatifidum* Schott ex Endl. Plantlets during Acclimatization. *Horticulturae*, 9(2), 276.

Yousaf, M. I., Hussain, Q., [Alwahibi, M. S.](#), Aslam, M. Z., Khalid, M. Z., Hussain, S., ... & Elshikh, M. S. (2023). Impact of heat stress on agro-morphological, physio-chemical and fiber related parameters in upland cotton (*Gossypium hirsutum* L.) genotypes. *Journal of King Saud University-Science*, 35(1), 102379.

Radhakrishnan, N., Karthi, S., Raghuraman, P., Ganesan, R., Srinivasan, K., Edwin, E. S., [Alwahini, M. S.](#) & Elshikh, M. S. (2023). Chemical screening and mosquitocidal activity of essential oil derived from *Mikania scandens* (L.) Willd. Against *Anopheles gambiae* Giles and their non-toxicity on mosquito predators. *All Life*, 16(1), 2169959.

Chau, T. P., Hung Tran, V., [Alwahibi, M. S.](#), Ali, M. A., & Shanmuganathan, R. (2023). Phytochemical profiling and GC–MS analysis of *Vitis rotundifolia* pulp extract (*Jumbo muscadine*). *Applied Nanoscience*, 13(1), 685-692.

Safdar, M. E., Qamar, R., Javed, A., Nadeem, M. A., Javeed, H. M. R., Farooq, Aleksandra Głowacka, Sławomir Michałek , [Mona S. Alwahibi](#) , Mohamed S. Elshikh and Mohamed A. A. AhmedA. (2023). Combined application of boron and zinc improves seed and oil yields and oil quality of oilseed rape (*Brassica napus* L.). *Agronomy*, 13(8),

Humaira Rizwana and Mona S. Alwhibi (2022) Sunlight-Mediated Green Synthesis of Silver Nanoparticles Using the Berries of *Ribes rubrum* (Red Currants): Characterisation and Evaluation of Their Antifungal and Antibacterial Activities. *Molecules*, 27(7), 2186.

Alwadai, A. S., Perveen, K., & [Alwahibi, M.](#) (2022). The Isolation and Characterization of Antagonist *Trichoderma* spp. from the Soil of Abha, Saudi Arabia, *Molecules*, 27(8), 2525.

[Alwhibi, M. S.](#), Ortashi, K. M., Hendi, A. A., Awad, M. A., Soliman, D. A., & El-Zaidy, M. (2022). Green synthesis, characterization and biomedical potential of Ag@ Au core-shell noble metal nanoparticles. *Journal of King Saud University-Science*, 34(4), 102000.

Rizwana, H., [Alwhibi, M. S.](#), Al-Judaie, R. A., Aldehaish, H. A., & Alsaggabi, N. S. (2022). Sunlight-mediated green synthesis of silver nanoparticles using the berries of *Ribes rubrum* (red currants): characterisation and evaluation of their antifungal and antibacterial activities. *Molecules*, 27(7), 2186.

Manal A. Alshaqhaa, [Mona S Al wahibi](#), Hussein M Migdadi, Dina A Soliman (2022). Morphological characterization of four invasive species of Solanaceae in the southern region of Saudi Arabia. *International Journal of Botany Studies*, Volume 7, Issue 1, 2022, Page No. 330-336.

Rani, M., Ullah, R., [Alwahibi, M. S.](#), Elshikh, M. S., AbdelGawwad, M. R., & Mahmood, A. (2022). Health risk assessment by toxic metals in little egrets (*Egretta garzetta*) and food chain contaminations. *Saudi journal of biological sciences*, 29(1), 366-370.

Rizwana, H., [Alwhibi, M. S.](#), Al-Judaie, R. A., Aldehaish, H. A., & Alsaggabi, N. S. (2022). Sunlight-mediated green synthesis of silver nanoparticles using the berries of *Ribes rubrum* (red currants): Characterisation and evaluation of their antifungal and antibacterial activities. *Molecules*, 27(7), 2186.

Dewir, Y. H., Al-Ali, A. M., Rihan, H. Z., Alshahrani, T., [Alwahibi, M. S.](#), Almutairi, K. F., ... & Fuller, M. P. (2022). Effects of Artificial Light Spectra and Sucrose on the Leaf Pigments, Growth, and Rooting of Blackberry (*Rubus fruticosus*) Microshoots. *Agronomy*, 13(1), 89.

Rizwana, H., Alzahrani, T., [Alwahibi, M. S.](#), Aljowaie, R. M., Aldehaish, H. A., Alsaggabi, N. S., & Ramadan, R. (2022). Phytofabrication of Silver Nanoparticles and Their Potent Antifungal Activity against Phytopathogenic Fungi. *Processes*, 10(12), 2558.

Al-Balawi, S. M., [Alwahibi, M.](#), Al-Harbi, N. A., Al-Qahtani, S. M., & Alaklabi, A. (2022). The Effect Of Soil Physical And Chemical Properties On The Invasion Of Wild Plants To Farms In Tabuk Region, Ksa. *Applied Ecology and Environmental Research*, 20(6), 4913-4924.

Khan, Z. I., Muhammad, F. G., Ahmad, K., Akhtar, S., Sohail, M., Nadeem, M., [Alwahibi, M. S.](#) & Hussain, M. I. (2022). Effects of diverse irrigation with wastewater in soil and plants: assessing the risk of metal to the animal food chain. *Environmental Science and Pollution Research*, 1-10.

Qamar, R., Altaf, M. M., [Alwahibi, M. S.](#), Al-Yahyai, R., & Hussain, M. (2022). Phosphorus and potassium application improves fodder yield and quality of sorghum in Aridisol under diverse climatic conditions. *Agriculture*, 12(5), 593.

Abeer A Alshammari, [Mona S Alwahibi](#) and Shikhah K Alnemar (2022). Molecular analyses of genetic diversity in the population of *Calligonum Comosum* L. 'Her in Hail region in the Kingdom of Saudi Arabia. *Global Journal of Ecology*. 7(2): 035-039. DOI

Al-Zahrani, S. A., Bhat, R. S., Al-Onazi, M. A., [Alwhibi, M. S.](#), Soliman, D. A., Aljebrin, N. A., ... & Al Daihan, S. (2022). Anticancer potential of biogenic silver nanoparticles using the stem extract

of *Commiphora gileadensis* against human colon cancer cells. *Green Processing and Synthesis*, 11(1), 435-444.

Li, C., Wang, E., Elshikh, M. S., [Alwahibi, M. S.](#), Wang, W., Wu, G., ... & Shan, S. (2021). Extraction and purification of total flavonoids from *Gnaphalium affine* D. Don and their evaluation for free radicals' scavenging and oxidative damage inhabitation potential in mice liver. *Arabian Journal of Chemistry*, 14(3), 103006.

Jabir, M. S., Saleh, Y. M., Sulaiman, G. M., Yaseen, N. Y., Sahib, U. I., Dewir, Y. H., [Alwahibi M. S.](#) and Soliman, D. A. (2021). Green Synthesis of Silver Nanoparticles Using *Annona muricata* Extract as an Inducer of Apoptosis in Cancer Cells and Inhibitor for NLRP3 Inflammasome via Enhanced Autophagy. *Nanomaterials*, 11(2), 384.

Khadim Dawar, Hammad Khan, Mohammad Zaman, Christoph Muller, Syed Sartaj Alam, Shah Fahad, [Mona S. Alwahibi](#), Jawaher Alkahtani, Beena Saeed, Shah Saud, Hafiz Mohkum Hammad & Wajid Nasim (2021). The effect of biochar and nitrogen inhibitor on ammonia and nitrous oxide emissions and wheat productivity. *Journal of Plant Growth Regulation*, 1-11.

Rathika, R., Srinivasan, P., Alkahtani, J., Al-Humaid, L. A., [Alwahibi, M. S.](#), Mythili, R., & Selvakumar, T. (2021). Influence of biochar and EDTA on enhanced phytoremediation of lead contaminated soil by *Brassica juncea*. *Chemosphere*, 271, 129513.

Al-Kaabi, W. J., Albukhaty, S., Al-Fartosy, A. J., Al-Karagoly, H. K., Al-Musawi, S., Sulaiman, G. [Mona S. Alwahibi](#) & Soliman, D. A. (2021). Development of *Inula graveolens* (L.) Plant Extract Electrospun/Polycaprolactone Nanofibers: A Novel Material for Biomedical Application. *Applied Sciences*, 11(2), 828.

Bashir, S., Gulshan, A. B., Iqbal, J., Husain, A., [Alwahibi, M. S.](#), Alkahtani, J., ... & Diao, Z. H. (2021). Comparative role of animal manure and vegetable waste induced compost for polluted soil restoration and maize growth. *Saudi Journal of Biological Sciences*, 28(4), 2534-2539.

Arif, M., Atta, S., Bashir, M. A., Khan, M. I., Hussain, A., Shahjahan, [Mona S. Alwahibi](#) & Elshikh, M. S. (2021). The impact of Fosetyl-Aluminium application timing on Karnal bunt suppression and economic returns of bread wheat (*Triticum aestivum* L.). *Plos one*, 16(1), e0244931.

Rashid, N., Khan, S., Wahid, A., Basra, S. M. A., [Alwahibi, M. S.](#), & Jacobsen, S. E. (2021). Impact of natural and synthetic growth enhancers on the productivity and yield of quinoa (*Chenopodium quinoa* willd.) cultivated under normal and late sown circumstances. *Journal of Agronomy and Crop Science*. 208(4), 552-566

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Yousaf, M., Bashir, S., Raza, H., Shah, A. N., Iqbal, J., Arif, Muhammad Adnan Bukharie, Sadiq Muhammad, Sarfraz Hashim, Jawaher Alkahtanih, [Mona S. Alwahibi](#), Chengxiao Hu (2021). Role of nitrogen and magnesium for growth, yield and nutritional quality of radish. *Saudi Journal of Biological Sciences*. *Saudi Journal of Biological Sciences*, 28(5), 3021-3030

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Malik, K. M., Khan, K. S., Rukh, S., Khan, A., Akbar, S., Billah, [Alwahibi, M. S.](#), ... & Mustafa, A. E. Z. (2021). Immobilization of Cd, Pb and Zn through Organic Amendments in Wastewater Irrigated Soils. *Sustainability*, 13(4), 2392.

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S Taha, R., Seleiman, M. F., Alhammad, B. A., Alkahtani, J., Alwahibi, M. S., & Mahdi, A. H. (2021). Activated Yeast Extract Enhances Growth, Anatomical Structure, and Productivity of *Lupinus termis* L. Plants under Actual Salinity Conditions. *Agronomy*, 11(1), 74.

Agada, R., Thagriki, D., Lydia, D. E., Khusro, A., Alkahtani, J., Al Shaqha, Mona S. Alwahibi, ... & Elshikh, M. S. (2021). Antioxidant and anti-diabetic activities of bioactive fractions of *Carica papaya* seeds extract. *Journal of King Saud University-Science*, 33(2), 101342.

Majid, I., Dar, B. N., Nanda, V., Alwahibi, M. S., Alkahtani, J., Elshikh, M. S., ... & Ansari, M. J. (2021). Rheological behavior and storage studies of sprouted onion pastes from four onion varieties. *Journal of King Saud University-Science*, 33(2), 101271.

Murugesan, R., Vasuki, K., Kaleeswaran, B., Santhanam, P., Ravikumar, S., Alwahibi, M. S., ... & Alkahtani, J. (2021). Insecticidal and repellent activities of *Solanum torvum* (Sw.) leaf extract against stored grain Pest, *Callosobruchus maculatus* (F.) (Coleoptera: Bruchidae). *Journal of King Saud University-Science*, 33(3), 101390.

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Shahbaz Khan; Atif Rasool; Sohail Irshad; Muhammad Bilal Hafeez; Madad Ali; Maham Saddique; Muhammad Asif; Zuhair Hasnain; Samra Naseem; Mona S. Alwahibi and Abdulrahman Al-Hashimi (2021). Potential soil moisture deficit: A useful approach to save water with enhanced growth and productivity of wheat crop. *Journal of Water and Climate Change*, 12(6), 2515-2525.

Bashir, S., Elshikh, M. S., Alwahibi, M. S., Gulshan, A., Iqbal, J., Hussain, A., ... & Danish, S. (2021). Comparative Role of Compost, Press Mud and Moringa Leaf Extract to Eliminate the Stress and Growth of Maize in Cadmium Polluted Soil. <https://doi.org/10.21203/rs.3.rs-142836/v1>

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Conference Presentations and Scientific Participation:

March 13–14, 2024 – Poster presentation titled:

"Sunlight-Mediated Green Synthesis of Silver Nanoparticles Using the Berries of *Ribes rubrum* (Red Currants): Characterization and Evaluation of Their Antifungal and Antibacterial Activities" 11th Global Webinar on Traditional and Integrative Medicine (Online Event).

November 20–22, 2023 – Poster presentation titled:

"Micromorphological Characteristics of Pollen Grains of *Ruellia* L. (Acanthaceae) in Saudi Arabia" First International Forum and Exhibition for Sustainable Agriculture, Riyadh, Saudi Arabia.

August 29–30, 2022 – Poster presentation titled:

"Cytotoxic and Antibacterial Properties of Nanoparticles Synthesized from Various Brands of Bee Honey" 2nd Online International Conference on Traditional and Alternative Medicine, USA.

May 10–11, 2021 – Participation in the Virtual Conference:

"Research and Emerging Technologies to Face Current Challenges in Building a More Sustainable

Agricultural System", USA.

June 17–18, 2020 – Participation in the Virtual Conference:
International Plant Science Conference, Vancouver, Canada.

June 17–19, 2019 – Poster presentation titled:
"Effectiveness of Some Plant Secondary Substance Extracts on Microbial Activity"
International Conference on Plant Sciences and Microbial Ecology, Valencia, Spain.

January 18–23, 2015 – Organizer,
Cultural and Scientific Forum of the Universities of the Cooperation Council for the Arab States of the Gulf, King Saud University, Riyadh, Saudi Arabia.

December 16–17, 2014 – Oral presentation titled:
"Inter-Simple Sequence Repeat (ISSR) Analysis to Determine the Molecular Characteristics of *Heliotropium digynum* in Saudi Arabia"
Sixth Research Day, Central Laboratory, King Saud University.

July 27 – August 1, 2014 – Poster presentation titled:
"Antibacterial Activity of Four Plant Species Used in Folk Medicine Against Some Resistant Microbes"
Conference of the International Federation of Microbiological Societies, Montreal, Canada.

March 17–18, 2014 – Oral presentation titled:
"Chemical Analysis by GC-MS and In Vitro Antibacterial Activity of *Alkanna tinctoria* Extracts Against Skin Infection-Causing Bacteria"
International Conference on Chemical, Environmental and Biological Sciences (IICBE), Dubai, UAE.

April 16–18, 2012 – Poster presentation titled:
"Anatomical Study of Four Species of *Heliotropium* L. (Boraginaceae) from the Kingdom of Saudi Arabia"
5th Saudi Science Conference, "New Vision for the Role of Basic Sciences in Development", Umm Al-Qura University, Makkah.

April 9, 2009 – Oral presentation titled:
"Phenotypic Characteristics of *Heliotropium* spp. Seeds in the Kingdom of Saudi Arabia"
24th Meeting of the Saudi Society for Life Sciences, "Biotechnology: Reality and Applications", Taibah University, Madinah, Saudi Arabia.

May 5–6, 2015 – Oral presentation titled:
"Characterization of Seed Storage Protein Patterns of *Heliotropium digynum*"
International Conference on Environmental Engineering (ICSEE), Hong Kong.

TEACHING EXPERIENCE

- 1998-2008 teaching the practical part of the decisions of the Botany and Microbiology Department (General Botany, the basics of plant classification, classification workout, plant environmental factors, enzymes and metabolism of the plant, Plant Physiology)
- From 2008 until now, I have taught theoretical courses in Botany.

ADMINISTRATIVE TASKS AND COMMITTEES

- 2023 – *Arbitrator* for the King Faisal Prize in Science and Medicine (Shortlist Phase).
- 2020 – Present – *Accredited External Reviewer* in academic evaluation processes, National Center for Academic Accreditation and Evaluation (NCAAA).
- 2018 – 2020 – *Assistant Vice Dean for Academic Affairs*, College of Science, King Saud University.
- 2016 – 2017 – *Supervisor of External Summer Training* for distinguished students.
- 2016 – 2012 – *Coordinator of Graduate Studies*, Department of Botany and Microbiology.
- 2015 – 2017 – *Arbitrator* in the Creativity Olympiad – Scientific Program (Mawhiba):
 - ← February 6–7, 2015
 - ← March 25–26, 2016
 - ← March 9–10, 2017
- 2014 – 2018 – *Vice Head*, Department of Botany and Microbiology, College of Science, King Saud University.
- 2013 – 2018 – *Coordinator of the Botany Program*, Department of Botany and Microbiology.
- 2013 (May – June) – *Quality Supervisor*, Affiliation Testing Center – Imam Muhammad bin Saud Islamic University.
- 2012 – 2015 – *Consultant* for the Environmental Education Program, Aramco.
- 2011 – 2013 – *Rapporteur*, Procurement and Equipment Committee, Department of Botany and Microbiology.
- 2013 – 2014 (1435–1436H) – *Chairperson*, Qiyas (National Center for Assessment in Higher Education), Ministry of Civil Service.

The students are under my supervision

#	Thesis Title (PhD)	Student name	situation
1.	Analysis of micro-RNA gene expression and antioxidant defense mechanisms as a strategy for acclimatization with abiotic stresses in wheat plant	Amal Algarawi	Co- Supervisor
2.	Taxonomic and Phylogenetic of the species of <i>Kickxia</i> Genus in Saudi Arabia	Lulua Almasaoudi	Co-Supervisor
3.	Physiological and Molecular Strategies of <i>Moringa oleifera</i> Lam to Tolerance of <i>Lepidium Sativum</i> L. Under Cadmium Stress.	Ahlam Khalofah	Co- Supervisor
4.	Composition and distribution of weed species and their relationship to soil factors in olive and palm plantations in Tabuk Saudi Arabia	Seham Aalblwi	Main Supervisor
5.	Characterization and purification of xylanase enzyme produced from fungi isolated from the soil of Jeddah city Saudi Arabia	Amirah Alqahtani	Co- Supervisor
6.	Molecular characterization of <i>Trichoderma spp</i> that promote plant growth in some regions of Saudi Arabia	Aishah Alwadaai	Co- Supervisor
7.	Determination of the taxonomic characteristics by DNA-barcoding of some invasive Solanaceae species of the Southern region in Saudi Arabia	Manal Abdullah Al-Shaqhaa	Supervisor
8.	Morphological and Molecular analyses of genetic diversity in population of <i>Calligonum comosum</i> L. 'Her in Hail region at Kingdom of Saudi Arabia	Abeer Al-Shammari	Supervisor
9.	Identification of the taxonomic characteristics and DNA - barcoding of <i>Ruellia</i> L. (Acanthaceae) in Saudi Arabia	Jawaher Al-Mutairi	Supervisor

10.	Evaluation morphological and molecular characteristics of wild <i>Ficus</i> L. species in Saudi Arabia	Abeer Marzan	Co- Supervisor
11.	Plant Diversity and Vegetation Ecology of MajameàAl-Hdb reserve in Wadi Al-Dawasir, Saudi Arabia	Noura Al-Dossary	Co- Supervisor
12.	Morphological and Molecular characterization of <i>Fagonia</i> L. (Zygophyllaceae) in Saudi Arabia	Manar Al-Shehri	Co- Supervisor
13.	Genetic diversity of <i>Pulicaria crispa</i> population in the central region of Saudi Arabia using morphological, anatomical, and molecular evidence.	Mona Al-rasheed	Supervisor
14.	Micromorphological and Plastome analyses based systematic insights on <i>Withania</i> species from high altitudinal dry hills of Saudi Arabia	Nadia Alsahimi	Supervisor
15.	Genomic Insights of The Desert Adaptation of <i>Tribulus Macropterus</i> (Zygophyllaceae) distributed In the Empty quarter of Saudi Arabia	Albatool Albadaewi	Supervisor
16.	Molecular analysis of <i>Aizoon canariense</i> distributed in the desert of Saudi Arabia based on analysis of Next-generation sequencing data	Reem Aloafi	Supervisor
17.	Genomic Insights into the Adaptation of <i>Lycium Shawii</i> in the Kingdom of Saudi Arabia	Manal Asiri	Supervisor
18.	Taxonomic evaluation of <i>Portulaca oleracea</i> L. in Saudi Arabia using anatomical and chemical evidence and DNA barcoding	Yasmin Alwasel	Supervisor
19.	Morphological anatomical and molecular features of <i>Haloxylon persicum</i> populations in AlGhada Park at AlQassim Region Kingdom of Saudi Arabia	Nada Alhalwah	Co- Supervisor

#	Thesis Title (Master)	Degree	situation
1.	Assessment of genetic variation within and among some species of <i>Artemisia</i> L. Asteraceae using morphological cytological and molecular markers	Amal Alajmi	Co- Supervisor
2.	Molecular Characterization and Evaluation of Bioactive Natural Products of Some Medicinal plants in Saudi Arabia	Salma Almansi	Supervisor
3.	Molecular Characterization and Antimicrobial Activity on some Asclepiadaceae species in Saudi Arabia	Alanoud Almoumi	Supervisor
4.	In vitro propagation and genetic fidelity of <i>Philodendron selloum</i>	Asma AL-awadh	Supervisor
5.	Morphological and Molecular characterization of <i>Lavandula</i> L. spp. Lamiaceae in Saudi Arabia	Bouthinah Alrasheed	Supervisor
6.	Ecophysiological Responses of <i>Calligonum comosum</i> L. Herit Exposed to Salinity and alkalinity stresses	Amnah Alshahwan	Co- Supervisor
7.	Comparison the effect of different levels of normal and Nano compound fertilizer NPK on the physiological and anatomical characteristics of two <i>Sesamum indicum</i> L. cultivars	Faten Alghadri	Co- Supervisor
8.	Evaluation of morphological, anatomical and physiological changes of <i>Vicia faba</i> L. under the influence of Melatonin	Nagham Al-Anzi	Co- Supervisor
9.	Anatomical and Chemical structure of some <i>Ocimum</i> spp in kingdom of Saudi Arabia	Taghreed Almutiri	Co- Supervisor
10.	Genetic variations in some <i>Trigonella</i> L. spp using molecular, phytochemical, and morphological markers	Rand Al-khadhiri	Co- Supervisor
11.	Impact of invasive plant species on native plant community structure and environmental sustainability in Thadiq National Park Saudi Arabia	Amani Aoghli	Co- Supervisor