

CURRICULUM VITAE

PERSONAL DATA

Name: Mona Soliman Al-Wahaibi
Academic Rank: Professor
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* (Boragineaceae) 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. Member of the Saudi Society for Applied Sciences Council at Princess Nourah Bint Abdulrahman University.
2. Saudi Biological Society
3. Botanical Society of America

ADMINISTRATIVE TASKS AND COMMITTEES

- 1- A scientific deputy in the Mawhiba Academic Enrichment Program for the summer of 2021, held at King Saud University during the period from 1-20/1/1444
- 2- A scientific deputy in the Mawhiba Academic Enrichment Program for the summer of 2022, held at King Saud University during the period from 22/12/1442 - 11/1/1443.
- 3- Member of the Specialized Committee for Preparing the Teacher of Higher Grades for the Primary Stage in One Major (Mathematics, Science, Technology) - King Saud University 2020.
- 4- Assistant Vice Dean for Academic Affairs Vice, from 11/09/1440 -6/9/1442.
- 5- Head, Botany and Microbiology Department, King Saud University, College of Sciences, Saudi Arabia, from 05/07/1434 until 07/05/1439.
- 6- Coordinator of Botany program in the department of Botany and Microbiology, from 05/07/1434 until 07/05/1439.
- 7- Supervisor of external training for outstanding female students for the years 2016-2017 respectively.

- 8- Laboratories Unit reporter, College of Science in the University City for Female Students during the period 2018-1440 AH.
- 9- Purchases and equipment Committee Rapporteur of Botany and Microbiology department 2008-2013.
- 10- Graduate coordinator in the Department of Botany and Microbiology 2012-2016.
- 11- Member of the National Examination and Evaluation Centre Board for the year 2009, 2010.
- 12- Quality residing supervisor in the affiliation testing Centre developed at Imam Muhammad bin Saud Islamic University in the period 26/6 / 1434-8 / 7/1434 AH.
- 13- Consultant in the Environmental Education Program of the Aramco Program, during the period 26/6 / 1434-8 / 7/1435 AH.
- 14- Chairman of the National Centre for Measurement and Evaluation Committee (Qiyas) at the Ministry of Civil Service for the year 1436 AH.
- 15- Arbitrator in the Talent and Creativity Olympiad - Scientific Program - 06-7 February 2015.
- 16- Arbitrator in the Talent and Creativity Olympiad - Scientific Program - - 25-26 March 2016.
- 17- Arbitrator in the seventh conference for research - King Saud University - 7/2/1437 AH.
- 18- Head of the Summer Talent Program” Mawhiba” (King Abdulaziz and His Companions Foundation for Giftedness and Creativity) 2015, 2016 and 2017, respectively.

World Wide Web Sites

- Web of Science ResearcherID [M-7398-2019](#)
- ORCID  <https://orcid.org/0000-0002-3420-1164>

RESEARCH INTERESTS

1. Identification and characterization of different plants using classical and modern taxonomic evidence.
2. Biosynthesis of nanoparticles from medicinal plants and their role as antibiotics for pathogenic microbes and cancer lines.
3. Biotechnology and its use in sustainable development

PUBLICATIONS

1. **Alwahibi** and Bukhary (2013). Anatomical study of four species of *Heliotropium* L. (Boraginaceae) from Saudi Arabia. *African Journal of Plant Science* Vol. 7(1), pp. 35-42.
2. **Alwahibi** and Bukhary (2013). Morphological variation in *Heliotropium digynum* growing in four locations of the central region of Saudi Arabia. *African Journal of Plant Science* Vol. 7(3), pp. 85-92.
3. Najat A. Bokhari, Kahkashan Perveen, Iffat Siddiqui, Iram Siddique, **Mona S. Wahibi** and Dina A. W. Soliman (2013). Antifungal Activity of *Citrullus colocynthis* against *Fusarium oxysporum*, *Alternaria alternata*, *Macrophomina phaseolina* and *Colletotrichum musae*. *Journal of Pure and Applied Microbiology* ISSN 0973-7510. Vol. 7(4), pp. 2981-2986.
4. Zohra H Messaitfa, Afaf I Shehata, Fahad El Quraini , Amal A Al Hazzani, Humaira Rizwana and **Mona S El wahabi** (2014). Proteomics analysis of salt stressed Sunflower (*Helianthus annuus*) Int. J. Pure App.Biosci . www.ijpab.com
5. Zohra H Messaitfa, Afaf I Shehata, Fahad El Quraini , Humaira Rizwana, Amal A Al Hazzani and **Mona S El wahabi** (2014): Genotypic of salt stressed sunflower (*Helianthus annuus*) Int. J. Pure App. Biosci. www.ijpab.com
6. Najat A. Bokhari, Iffat Siddiqui, Kahkashan Perveen, Iram Siddique, **Mona S. Alwahibi**, Dina W.A. Soliman and Moodi Al-Subeie (2014). Potential of Different Parts of Neem (*Azadirachta indica*) Extracts in Controlling *Rhizoctonia solani* Infestation, *International Journal of Agriculture & Biology* ISSN 1560–8530, Vol. 16(3):639–643.
7. Iffat Siddiqui, Najat A. Bokhari, Kahkashan Perveen and **Mona S. Alwahibi** (2014). Phytochemicals of *Melia azedarach* Inhibiting the Growth of

Rhizoctonia solani. *Journal of Pure and Applied Microbiology* ISSN 0973-7510. Vol. 8 (2) 9, pp. 1603-1609.

8. Kahkashan Perveen, Najat A. Bokhari, Iffat Siddiqui and [Mona S. Alwahibi](#) (2014). In vitro antimicrobial activity of some medicinal plants found in Saudi Arabia. *Journal of Pure and Applied Microbiology* ISSN 0973-7510. Vol. 8 (4), 2129-2134.
9. Najat A. Bokhari, Iram Siddique, K. Perveen, I. Siddiqui and [M. S. Alwahibi](#) (2014). Synthetic Seed Production and Physio-Biochemical Studies in *Cassia angustifolia* vahl. - a medicinal plant. *Acta Biologica Hungarica* ISSN 0236-5383, Vol. 65 (3), 355–367
10. [Mona S. Alwhibi](#) and Dina A. Soliman (2014). Evaluating the Antibacterial Activity of Fenugreek (*Trigonella foenum-graecum*) Seed Extract against A Selection of Different Pathogenic Bacteria. *Journal Of Pure & Applied Microbiology*, Vol. 8(Spl. Edn. 2), p. 817-821
11. Hashem Abeer; Abd Allah Alqarawi; El didamony G; [Alwhibi Mona S](#), Egamberdieva A D and Ahmad P. (2014). Alleviation of adverse impact of salinity on Faba Bean (*Vicia faba* L.) by arbuscular mycorrhizal fungi. *Pak. J. Bot.*, 46(6): 4003-2011
12. Hashem Abeer; Abd Allah FF; Alqarawi AA; [Alwhibi Mona S](#); Alenazi M.M; Egamberdieva A D and Ahmad P (2015). Arbuscular mycorrhizal fungi mitigates NaCl induced adverse effects on *Solanum lycopersicum* L. *Pak. J. Bot.*, 47(1): 327-340
13. Elsayed Fathi Abd_Allah, Abeer Hashem, Abdulaziz Abdullah Alqarawi, Ali Hassan Bahkali, [Mona S. Alwhibi](#) (2015). Enhancing growth performance and systemic acquired resistance of medicinal plant *Sesbania sesban* (L.) Merr using arbuscular mycorrhizal fungi under salt stress. *Saudi Journal of Biological Sciences*, Volume 22, Issue 3, May 2015, Pages 274–283.
14. Manzer H. Siddiqui a,, Mutahhar Y. Al-Khaishany a , Mohammed A. Al-Qutami a , Mohamed H. Al-Whaibi a , Anil Grover b , Hayssam M. Ali a , [Mona Suliman AlWahibi](#) (2015): Morphological and physiological characterization of different genotypes of *faba bean* under heat stress. *Saudi Journal of Biological Sciences*, 22, 656–663.
15. Manzer H. Siddiqui, Mutahhar Y. Al-Khaishany 1, Mohammed A. Al-Qutami 1, Mohamed H. Al-Whaibi 1, Anil Grover 2, Hayssam M. Ali, [Mona S. Al-Wahibi](#) and Najat A. Bukhari (2015). Response of different genotypes of faba bean plant to drought stress. *International Journal of Molecular Sciences*, 16(5), 10214-10227.

16. Manzer H. Siddiqui, Mutahhar Y. Al-Khaishany, Mohammed A. Al-Qutami 1, Mohamed H. Al-Whaibi, Anil Grover, Hayssam M. Ali 1, [Mona S. AlWahibi](#) and Najat A. Bukhari (2015). Response of Different Genotypes of *Faba Bean* Plant to Drought Stress. *International Journal of Molecular Sciences*, 16(5),10214-10227

17. Hediat M. H. Salama and [Mona S. Al Whibi](#) (2016). Allelopathic effects of *Mesembryanthemum forsskalii* Hochst. ex Boiss. on seed germination and seedling growth of *Malva parviflora* L. and *Plantago ovata* Forssk. *European Journal of Biological Research*. 6 (2): 119-126.

18. Humaira Rizwana, [Mona S. Alwhibi](#) and Dina A. Soliman (2016). Antimicrobial Activity and Chemical Composition of Flowers of *Matricaria aurea* a Native Herb of Saudi Arabia. *International Journal of Pharmacology*, 12 (6): 576-586.

19. [Mona S. Alwhibi](#) (2016). Characterization of seed storage protein patterns of *Heliotropium digynum*. *Saudi Journal of Biological Sciences*

20. Manzer H. Siddiqui, Saud A. Alamri, Mutahhar Y.Y. Al-Khaishany, Mohammed A. Al-Qutami, Hayssam M. Ali a, Mohamed H. Al-Whaibi am [Mona S. Al-Wahibi](#), Hesham F. Alharby (2016). Mitigation of adverse effects of heat stress on *Vicia faba* by exogenous application of magnesium. *Saudi Journal of Biological Sciences*. 25(7), 1393-1401.

21. [Mona S. Alwhibi](#), MahmoudI.M. Khalil, MohamedM.Ibrahim, GehanA.El-Gaaly, and AhmedS.Sultan (2017). Otential Antitumor Activity and Apoptosis Induction of *Glossostemon bruguieri* Root Extract against Hepatocellular Carcinoma Cells. *Hindawi Evidence-Based Complementary and Alternative Medicine*. Vol 2017(14p)

22. [Mona S. Alwhibi](#); aAbeer Hashemab; Elsayed Fathi; Abd_Allah cAbdulaziz A.Alqaraw; Dina WafiK Soliman; Stephan Wirth; Dilfuza Egamberdieva. (2017). Increased resistance of drought by *Trichoderma harzianum* fungal treatment correlates with increased secondary metabolites and proline content. *Journal of Integrative Agriculture*. [Volume 16, Issue 8](#), , Pages 1751-1757.

23. [Mona Suliman Alwahibi](#), Kahkashan Perveen (2017). Chemical analysis by GC-MS and in vitro antibacterial activity of *Alkanna tinctoria* extracts against skin infection causing bacteria. *Biomedical Research*; 28 (18): 7946-7949.

24. H. Rizwana; [Mona S. Alwhibi](#); F. Khan and D. A. Soliman (2018). Chemical composition and antimicrobial activity of *Eruca sativa* seeds against pathogenic bacteria and fungi. *The Journal of Animal & Plant Sciences*, 26(6): 1859-1871.

25. [Mona S. Alwhibi](#); Bashaer Al Otaibi; Sarah Al Harbi; Aljwahrah Aljulefi, Alaa Aldosari (2018). Plant Diversity in the King Saud University Female Campus. *International Journal of Science and Research (IJSR)*. p 1066-1072.
26. [Alwhibi, M. S.](#), Soliman, D. A., Awad, M. A., Rizwana, H.; Marraiki, N. A. (2018). Biosynthesis of Silver Nanoparticles Using Fenugreek Seed Extract and Evaluation of Their Antifungal and Antibacterial Activities. *Journal of Computational and Theoretical Nanoscience*, 15(4), 1255-1260.
 - A. Khalofah, N.A. Bokhari, H.M. Migdadi, [M. S. Alwahibi](#) (2019). Antioxidant responses and the role of Moringa oleifera leaf extract for mitigation of cadmium stressed *Lepidium sativum* L. *South African Journal of Botan*, , 129, 341-346.
27. Luluah M. Al Masoudi, Najat A. Bukhari and [Mona Al Wahibi](#) (2019). Pollen Morphological Study on Som Species of *Kickxia*, *Scrophularia* in Relation to *Plantago* from Saudi Arabia. *Arabian Journal for Science and Engineering*. ISSN 2193-567X, DOI 10.1007/s13369-019-04147-4.
28. Salmen, S. H. [Alwhibi, M. S.](#) – Alharbi, S. A. (2019). Characterization and antibacterial activity of silver nanoparticles biosynthesized using (*Indigofera oblongifolia*) leaves extract. *Applied ecology and environmental research*: 17(6):12869-12876.
29. Alawaadh, A. A., Dewir, Y. H., [Alwhibi, M. S.](#), Aldubai, A. A., El-Hendawy, S., & Naidoo, Y. (2020). Micropropagation of Lacy Tree Philodendron (*Philodendron bipinnatifidum* Schott ex Endl.). *HortScience*, 55(3), 294-299.
30. Zainab, B., Ayaz, Z., [Alwhibi, M. S.](#), Khan, S., Rizwana, H., Soliman, D. W., Abbasi, A. M. (2020). In-silico elucidation of *Moringa oleifera* phytochemicals against Diabetes Mellitus. *Saudi Journal of Biological Sciences*.
31. Albasher, G., Al Kahtani, S., [Alwahibi, M. S.](#), Almeer, R. (2020). Effect of *Moringa oleifera* Lam. methanolic extract on lead-induced oxidative stress-mediated hepatic damage and inflammation in rats. *Environmental Science and Pollution Research*, 1-11.
32. [Mona S. Alawhibi](#), Moodi S. AlSubeie, Najat A. Bukhari, Dina A. Soliman (2020). Molecular Characterization of *Haloxylon salicornicum* Moq. in Saudi Arabia. *Saudi Journal of Biological Sciences*.
33. Jabir, Majid., Usama I Sahib, Zainab Taqi1, Ali Taha, Ghassan Sulaiman, Salim Albukhaty, Ahmed Al-Shammari, [Mona Alwahibi](#), Dina Soliman, Yaser Hassan Dewir, Humaira Rizwana (2020). Linalool-Loaded Glutathione-Modified Gold Nanoparticles Conjugated with CALNN Peptide as Apoptosis Inducer and NF-κB Translocation Inhibitor in SKOV-3 Cell Line. *International Journal of Nanomedicine*, 15, 9025.
34. Alonazi, Mona, Habib Horchani., [Mona Alwhibi.](#), Abir Ben Bacha. (2020). Cytotoxic, Antioxidant, and Metabolic Enzyme Inhibitory Activities of

- Euphorbia cyparissias Extracts. *Oxidative Medicine and Cellular Longevity*, 2020.
35. Hongtao Liu, SiMin Zheng, HongFei Xiong, [Mona S Alwahibi](#), Xiaoli Niu (2020) Biosynthesis of copperoxide nanoparticles using Abies spectabilis plant extract and analyzing its antinociceptive and anti-inflammatory potency in various mice models. *Arabian Journal of Chemistry*, 13(9), 6995-7006.
 36. [Mona S. Alwhibi](#), Dina A. Soliman, Hala al khaldy, Aljohara Alonaizan, Najat Abdulhaq Marraiki, Mohamed El-Zaidy, Moodi S. AlSubeie (2020). Green biosynthesis of silver nanoparticle using Commiphora myrrh extract and evaluation of their antimicrobial activity and colon cancer cells viability. *Journal of King Saud University-Science*.
 37. [Mona S. Alwahibi](#) (2020) A Review on Anti-cancer and Antioxidant Potentials of Plants with Mode of Action. *Pakistan Journal of Medical and Health Sciences*: Vol. 14, NO. 3.
 38. Padmini, R., V. Uma Maheshwari, P. Saravanan, Keun Woo Lee, M. Razia, [Mona S. Alwahibi](#), B. Ravindran, Mohamed Soliman Elshikh, Young Ock Kim, Hyungsuk Kim, Hak-Jae Kim (2020). Identification of novel bioactive molecules from garlic bulbs: A special effort to determine the anticancer potential against lung cancer with targeted drugs. *Saudi Journal of Biological Sciences*.
 39. Amanullah, Inamullah, [Mona S. Alwahibi](#), Mohamed Soliman Elshikh, Jawaher Alkahtani, Asim Muhammad, Shah Khalid, Imran, Manzoor Ahmad, Nangial Khan, Saif Ullah and Izhar Ali (2020). Phosphorus and Zinc Fertilization Improve Zinc Biofortification in Grains and Straw of Coarse vs. Fine Rice Genotypes. *Agronomy*, 10(8), 1155.
 40. Heba M.I. Abdallah, Naglaa M. Ammar, Mohamed F. Abdelhameed Abd El-Nasser G. El Gendy, Tamer I. M. Ragab, Ahmed M. Abd-ElGawad, Mohamed A. Farag, [Mona S. Alwahibi](#) and Abdelsamed. Elshamy (2020). Protective Mechanism of *Acacia saligna* Butanol Extract and Its Nano-Formulations against Ulcerative Colitis in Rats as Revealed via Biochemical and Metabolomic Assays. *Biology*, 9(8), 195.
 41. Salim Albukhaty, Sharafaldin Al-Musawi, Salih Abdul Mahdi, Ghassan M. Sulaiman, [Mona S. Alwahibi](#), Yaser Hassan Dewir, Dina A. Soliman and Humaira Rizwana (2020) Investigation of Dextran-Coated Superparamagnetic Nanoparticles for Targeted Vinblastine Controlled Release, Delivery, Apoptosis Induction, and Gene Expression in Pancreatic Cancer Cells. *Molecules*, 25(20), 4721.
 42. Tasawar Abbas, Zahir Ahmad Zahir, Muhammad Naveed, Sana Abbas, [Mona S. Alwahibi](#), Mohamed Soliman Elshikh and Adnan Mustafa (2020). Large Scale Screening of Rhizospheric Allelopathic Bacteria and Their Potential for the Biocontrol of Wheat-Associated Weeds. *Agronomy*, 10(10), 1469.

43. Hasnain Alam, Jabar Z. K. Khattak, Taoufik S. Ksiksi, Muhammad H. Saleem, Shah Fahad, Hamza Sohail, Qasim Ali, Muhammad Zamin, Mohamed A. El-Esawi, Shah Saud, Xue Jiang, [Mona S. Alwahibi](#), Jawaher Alkahtani (2020). Negative impact of long-term exposure of salinity and drought stress on native *Tetraena mandavillei* L. *Physiologia Plantarum*.
44. Abd El-Zaher M.A.Mustafa, Jawaher A. lkahtani, Mohamed Soliman Elshikh, Manal M. Al Shaqhaa, [Mona S. Alwahibi](#) (2021). Enhanced uptake of di-(2-ethylhexyl) phthalate by the influence of citric acid in *Helianthus annuus* cultivated in artificially contaminated soil. *Chemosphere*, 2021, 264: 128485.
45. Sharafaldin Al-Musawi, Salim Albukhaty, Hassan Al-Karagoly, Ghassan M. Sulaiman, [Mona S. Alwahibi](#), Yaser Hassan Dewir, Dina A. Soliman and Humaira Rizwana (2020). Antibacterial Activity of Honey/Chitosan Nanofibers Loaded with Capsaicin and Gold Nanoparticles for Wound Dressing. *Molecules*, 25(20), 4770.
46. Muhammad Mudassar Maqbool, Shazia Naz, Tasneem Ahmad, Muhammad Shahid Nisar, Hassan Mehmood, [Mona S. Alwahibi](#), Jawaher Alkahtani (2020). The impact of seed burial depths and post-emergence herbicides on seedling emergence and biomass production of wild oat (*Avena fatua* L.): Implications for management. *Plos one*, 15 (10), e0240944.
47. Hina bbasia, Munir Hussain Shahb, Muhammad Mohiuddina, Mohamed Soliman Elshikh, Zahid Hussaind, Jawaher A lkahtani, Waheed Ullaha, [Mona S. Alwahibi](#), Arshad Mehmood Abbasia (2020). Quantification of heavy metals and health risk assessment in processed fruits' products. *Arabian Journal of Chemistry*.
48. Nandni Sharma, Kanika Khanna, Rajesh Kumari Manhas, Renu Bhardwaj, Puja Ohri, Jawaher Alkahtani, [Mona S. Alwahibi](#) and Parvaiz Ahmad (2020). Insights into the Role of *Streptomyces hydrogenans* as the Plant Growth Promoter, Photosynthetic Pigment Enhancer and Biocontrol Agent against *Meloidogyne incognita* in *Solanum lycopersicum* Seedlings. *Plants*, 9(9), 1109.
49. Sajib Rudra, Afroza Tahamina, Nazim Uddin Emon, Md. Adnan, Mohammad Shakil, Md. Helal Uddin Chowdhury, James W. Barlow, [Mona S. Alwahibi](#), Mohamed Soliman Elshikh, Mohammad Omar Faruque and Shaikh Bokhtear Uddin (2020). Evaluation of Various Solvent Extracts of *Tetragium leucostaphylum* (Dennst.) Alston Leaves, a Bangladeshi Traditional Medicine Used for the Treatment of Diarrhea. *Molecules*, 25(21), 4994.
50. Musarrat Ramzan, Sadia Sarwar, Naheed Kauser, Rabia SabaIqtidar Hussain, Anis Ali, Shah Muhammad, Naveed Aslam, Jawaher Alkahtani, [Mona S. Alwahibi](#) (2020). Assessment of Inter simple sequence repeat (ISSR) and simple sequence repeat (SSR) markers to reveal genetic diversity among *Tamarix* ecotypes. *Journal of King Saud University-Science*, 32(8), 3437-3446.

51. Jesudass Joseph Sahayarayana, Rajangam Udayakumar, Muthukrishnan Arun, Andy Ganapathid, [Mona S. Alwahibi](#), Norah Salim Aldosari, Abubaker M. A. Morganf (2020). Effect of different *Agrobacterium rhizogenes* strains for in-vitro hairy root induction, total phenolic, flavonoids contents, antibacterial and antioxidant activity of (*Cucumis anguria* L.). *Saudi Journal of Biological Sciences*, 27(11), 2972-2979.
52. Gadah Albasher, [Mona Alwahaibi](#), Mohamed M. Abdel-Daim, Saad Alkahtani, Rafa Almeer (2020). Protective effects of *Artemisia judaica* extract compared to metformin against hepatorenal injury in high-fat diet/streptozotocine-induced diabetic rats. *Environmental Science and Pollution Research*, 27(32), 40525-40536.
53. Abbas, T., Zahir, Z. A., Naveed, M., [Alwahibi, M. S.](#), Soliman Elshikh, M., & A El-Esawi, M. (2020). Field Performance of Allelopathic Bacteria for Biological Weed Control in Wheat: Innovative, Sustainable and Eco-Friendly Approach for Enhanced Crop Production. *Sustainability*, 12(21), 8936.
54. Sharma, N., Khanna, K., Manhas, R. K., Bhardwaj, R., Ohri, P., Alkahtani, J., [Mona S. Alwahibi](#) & Ahmad, P. (2020). Insights into the Role of *Streptomyces* hydrogenans as the Plant Growth Promoter, Photosynthetic Pigment Enhancer and Biocontrol Agent against *Meloidogyne incognita* in *Solanum lycopersicum* Seedlings. *Plants*, 9(9), 1109.
55. Al-Ajmi, A. H., [AL-Wahibi, M. S.](#), Mustafa, A. E. Z., Soliman, D. A., & Dewir, Y. H. (2021). Morphological and Molecular Assessment of Genetic Diversity of Seven Species of the Genus *Artemisia* L.(Asteraceae). *Arabian Journal for Science and Engineering*, 1-11.
56. Maqbool, M. M., Naz, S., Ahmad, T., Nisar, M. S., Mehmood, H., [Alwahibi, M. S.](#), & Alkahtani, J. (2020). The impact of seed burial depths and post-emergence herbicides on seedling emergence and biomass production of wild oat (*Avena fatua* L.): Implications for management. *Plos one*, 15(10), e0240944.
57. 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.
58. 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.
59. 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.
60. Rathika, R., Srinivasan, P., Alkahtani, J., Al-Humaid, L. A., [Alwahibi, M. S.](#), Mythili, R., & Selvankumar, T. (2021). Influence of biochar and EDTA on enhanced phytoremediation of lead contaminated soil by *Brassica juncea*. *Chemosphere*, 271, 129513.
 61. 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.
 62. 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.
 63. 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.
 64. 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*.
 65. Alzahib, R. H., Migdadi, H. M., Al Ghamdi, A. A., [Alwahibi, M. S.](#), Ibrahim, A. A., & Al-Selwey, W. A. (2021). Assessment of Morpho-Physiological, Biochemical and Antioxidant Responses of Tomato Landraces to Salinity Stress. *Plants*, 10(4), 696.
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CONFERENCES:

1. Poster Presentation entitled (Cytotoxic and Antibacterial Properties of Nanoparticles Synthesized from Various Brands of Bee Honey) in the 2nd Online International Conference on Traditional and Alternative Medicine August 29-30, 2022, USA.
2. Participation in the Virtual Conference (Research and Emerging Technologies to Face Current Challenges in Building a More Sustainable Agricultural System) May 10-11, 2021, USA.
3. Participation in the Virtual Conference (International Plant Science Conference) Vancouver, Canada, June 17-18, 2020.
4. Poster Presentation entitled (Effective of Some Plant secondary substance extraction on microbial activity) in the International Conference on Plant Sciences and Microbial Ecology. Valencia - Spain 17-19/6/2019.
5. Organizer of the Cultural and Scientific Forum of the Universities of the Cooperation Council for the Arab States of the Gulf, January 18-23, 2015 at King Saud University.
6. Oral Presentations entitled (Characterization of seed storage protein patterns of *Heliotropium digynum*). At the International Conference on Environmental Engineering -ICSEE 2015, Hong Kong.
7. Oral Presentations entitled (Inter-simple sequence repeat (ISSR) analysis to molecular characteristic determination of *Heliotropium digynum* in Saudi Arabia) on the sixth research day for the year 1435, the period 16-17/12/2014 at the Central Laboratory.
8. Oral Presentations entitled (Chemical analysis by GC-MS and in vitro antibacterial activity of *Alkanna tinctoria* extracts against skin infection causing bacteria) at International Conference on Chemical, Environmental and Biological Sciences IICBE-Dubai March 17-18, 2014
9. Poster Presentation entitled (Antibacterial activity of four plant species used in folk medicine against some resistant microbes) at the Conference of the International Federation of Microbiological Societies - Montreal, Canada - July 27-1 August 2014.

10. Oral Presentations entitled (Phenotypic characteristics of *Heliotropium spp* seeds in the Kingdom of Saudi Arabia) at the 24th meeting of the Saudi Society for Life Sciences, under the title "Biotechnology: Reality and Applications". Taibah University – Madinah, KSA. 9/4/2009.
11. Poster Presentation entitled (Anatomical study of four species of *Heliotropium L.* (Boraginaceae) from the Kingdom of Saudi Arabia), in the 5th Saudi Science Conference, “ new vision for the role of basic sciences in development” which was held at Umm Al-Qura University, Makkah, KSU 16-18/4/2012.

TEACHING EXPERIENCE

- 1- 1998-2008 teaching the practical part of the decisions of Botany and Microbiology Department (General Botany, the basics of plant classification, classification workout, plant environmental factors, enzymes and metabolism of the plant, Plant Physiology)
- 2- 2008 until now teaching theoretical courses in the specialty of Botany.

ADMINISTRATIVE TASKS AND COMMITTEES

- 1- 2023 Arbitrator for the King Faisal Prize in Science and Medicine (first phase).
- 2- 2020- Until now, an accredited external reviewer in academic evaluation processes (NCAAA).
- 3- 2018-2021, Assistant Vice Dean for Academic Affairs
- 4- 2014-2018, Vice Head, Botany and Microbiology Department, King Saud University, College of Sciences.
- 5- 2008-2013 Rapporteur of the Committee procurement and devices in the department.
- 6- 2012 -2016, Coordinator of Graduate Department Studies
- 7- 2013- 2018 Coordinator of Botany program department.

- 8- An arbitrator in the creativity Olympiad of the scientific program of the Maowhibah program February 6-7 .2015
- 9- An arbitrator in the creativity Olympiad of the scientific program of the Maowhibah program Mar 25-26 .2016
- 10- An arbitrator in the creativity Olympiad of the scientific program of the Maowhibah program Mar 9-10 .2017
- 11- Chair of the National Center for Assessment in Higher Education Test (Qiyas) in the Ministry of Civil Service in 1435-1436h
- 12- Consultant in the environmental education program of the Aramco since 2012-2015.
- 13- Quality supervisor, a resident at the center of quality tests Affiliation Developer University of Imam Muhammad bin Saud Islamic University. in the period 26/6/1434-8/7/1434.
- 14- Overseer external summer training for students 2016 and 2017.

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 Aablwi	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 Alsaahimi	Supervisor
15.	Genomic Insights Of The Desert Adaptation Of <i>Tribulus Macropterus</i> (Zygophyllaceae) distributed In The Empty quarter of Saudi Arabia	Albatoul Albadaewi	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 ssp 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	Faten Alghadri	Co- Supervisor

	physiological and anatomical characteristics of two <i>Sesamum indicum</i> L. cultivars		
8.	Evaluation of morphological, anatomical and physiological changes of <i>Vicia faba</i> L. under the influence of Melatonin	Nagham Al-Anzi	Co- Supervisor