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PERSONAL BIODATA

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GOOGLE SCHOLAR PROFILE

	All	Since 2021
Citations	1282	1094
h-index	19	17
i10-index	32	28

EDUCATION

Ph.D (Doctor of Philosophy) in Botany with area of specialization in Pharmacognosy (2019).

Department of Botany; University of Peshawar, Peshawar, Pakistan.

—Pharmacognostic standardization, bioinspired synthesis, characterization and biological application of gold/silver nanoparticles of *Euphorbia wallichii* Hook.¶

TEACHING EXPERIENCE

Assistant Professor, Department of Botany University of Peshawar; from June 17, 2014 till to date.

Lecturer, Department of Botany University of Peshawar; September 28, 2007 to June 16, 2014.

GRANTS AND SCHOLARSHIPS;

Research grant from University own resources, University of Peshawar (Rs=540000/-) for the project —**Pharmacognostic, phytochemical and pharmacological evaluation of Euphorbia helioscopia L. and Euphorbia hirta L.**

Research grant (Rs: 1,000,000) under the STFS project of Pakistan Science Foundation (2017-18)

SOME SIGNIFICANT PUBLICATIONS

1. Tauheed ul Haq, **Rehman Ullah**, Muhammad Nauman Khan, Sana Wahab, Baber Ali, Alevcan Kaplan, Muhammad Ammar Javed. 2024. Phyto-drug (Silymarin)-Encapsulated Cerium Oxide Nanoparticles (S-CeONPs) for *In-Vitro* Release, Ameliorating Antimicrobial, Anticancer, Anti-inflammatory and Antioxidant Potential. **BioNanoSci.** **14**, 973–987 (2024). <https://doi.org/10.1007/s12668-023-01295-8> (**Category X**)
2. Sahir Hameed Khattak, Sajid Ali Khan Bangash, Imdad Kaleem, Sania Begum, Saima Noor, Ghulam Muhammad Ali, Aqsa Hafeez, Baber Ali, Muhammad Nauman Khan, Alevcan Kaplan, Majid Iqbal, Riaz Ullah, Akhtar Zaman, **Rehman Ullah**, Fathia A Soudy. 2024. Diversity Analysis for Wheat Genotypes Against Rust Resistant Genes. **Polish Journal of Environmental Studies.** 33 (3). 2129-2140. DOI: 10.15244/pjoes/173096 (**Category W**).
3. Anum Farrukh, Sahir Hameed Khattak, Imdad Kaleem, Shahid Basheer, Sajid Ali Khan Bangash, Ghulam Muhammad Ali, Muhammad Nauman Khan, Mohammad Abul Farah, Khalid Mashay Al-Anazi, Alevcan Kaplan, **Rehman Ullah**, Muhammad Adnan, Muhammad Ammar

Javed Baber Ali, Sarah Abdul Razak. 2024. Piperacillin-Tazobactam against Multi-Drug Resistant *Pseudomonas aeruginosa* and MCF-7 and HepG2 Cell Lines. *Pol. J. Environ. Stud.* 2024;33(1):619-629. DOI: <https://doi.org/10.15244/pjoes/172081>. (Category W).

4. Ali Yar, **Rehman Ullah**, Muhammad Nauman Khan, Majid Iqbal, Sezai Ercisli, Alevcan Kaplan, Diriba Dereje Olana, Muhammad Ammar Javed, ELsiddig Idriss Mohamed, Souad Baowidan, Steve Harakeh, Mohammed Moulay. 2024. Unveiling the germination patterns of *Alternaria porri* (Ellis) by using regression analysis and hydrothermal time modeling. *Scientific Reports*. 14, 25694 (2024). <https://doi.org/10.1038/s41598-024-76050-4> (Category W)

5. Umbreen Khattak, Samin Jan, **Rehman Ullah**, Tauheed ul Haq, Muhammad Nauman Khan, Majid Iqbal, Alevcan Kaplan, Abdul Rehman, Mohamed Farouk Elsadek, Mohammad Ajmal Ali. 2024. Green synthesis and physical characterization of zinc oxide nanoparticles (ZnO NPs) derived from the methanol extract of *Euphorbia dracunculoides* Lam. (Euphorbiaceae) with enhanced biosafe applications" *Green Processing and Synthesis*, vol. 13, no. 1, 2024, pp. 20240119. <https://doi.org/10.1515/gps-2024-0119> (Category W)

6. Ishaq Ali Shah, Haroon Khan, Zahir Muhammad, **Rehman Ullah**, Shahid Iqbal, Hiba-Allah Nafidi, Mohammed Bourhia, Ahmad Mohammad Salamatullah (2024) Evaluation of climate change impact on plants and hydrology. *Front. Environ. Sci.* 12:1328808. doi: 10.3389/fenvs.2024.1328808 (Category W)

7. Ghulam Mustafa Afridi, Naseem Ullah, Sami Ullah, Muhammad Nafees, Abid Khan, Raheem Shahzad, **Rehman Ullah**, Rashid Jawad, Muhammad Adnan, Ke Liu, Matthew Tom Harrison, Shah Saud, Shah Hassan, Muhammad Hamzah Saleem, Durri Shahwar, Taufiq Nawaz, Khaled El-Kahtany, Shah Fahad. 2024. Corrigendum to " Modulation of salt stress through application of citrate capped silver nanoparticles and indole acetic acid in maize" *Plant Physiol. Biochem.* 201 (2023) 107914. doi: 10.1016/j.plaphy.2023.107985. (Category W)

8. Mujeeb ur Rahman, Zahir Muhammad, **Rehman Ullah**, Wisal Muhammad Khan Hazrat Ali, Tahseen Ullah Ghulam Jelani and Khushbu Zaman. 2023. SPATIAL PATTERNS AND THE TRADITIONAL USES OF THE FLORA OF ZAINI PASS, HINDUKUSH RANGE CHITRAL, PAKISTAN. *Journal of Xi'an Shiyou University, Natural Science Edition*. 19, (01) 1606-1629. (Category X)

9. Tahseen Ullah, Zahir Muhammad, **Rehman Ullah**, Ghulam Jelani, Mujeeb Ur Rahman, Abdul Majeed Hazrat Ali and Khushbu Zaman. 2023. VEGETATION STRUCTURE AND SPECIES DIVERSITY OF THE HERBACEOUS LAYER IN DIFFERENT PHYTOSOCIOLOGICAL HABITATS OF DAUDZAI, Peshawar. *Journal of Xi'an Shiyou University, Natural Science Edition*. 19, (02),155-178. (Category X)

10. Ishaq Ali Shah, Zahir Muhammad, Haroon Khan, **Rehman Ullah**, Atta-ur Rahman. 2023. Spatiotemporal variation in the vegetation cover of Peshawar Basin in response to climate change. *Environmental Monitoring and Assessment*. 195, 1474. <https://doi.org/10.1007/s10661-023-12094-9> (Category W)

11. **Rehman Ullah**, Sakina Bibi, Muhammad Nauman Khan, Amal M. Al Mohaimeed, Qirat Naz, and Asif Kamal. 2023. "Application of Bio-Inspired Gold Nanoparticles as Advanced Nanomaterial in Halt Nociceptive Pathway and Hepatotoxicity via Triggering Antioxidation System" *Catalysts* 13, (4): 786. <https://doi.org/10.3390/catal13040786>. (Category W)
12. Sakina Bibi, **Rehman Ullah**, Tanvir Burni, Zakir Ullah, and Mohsin Kazi. 2023. Impact of Resorcinol and Biochar Application on the Growth Attributes, Metabolite Contents, and Antioxidant Systems of Tomato (*Lycopersicon esculentum* Mill.). *ACS Omega* Article ASAP. DOI: 10.1021/acsomega.3c06233. (Category W)
13. Maham Ajmal, **Rehman Ullah**, Zahir Muhammad, Muhammad Nauman Khan, Hussain Ahmad Kakar, Alevcan Kaplan, Mohammad K. Okla, Ibrahim A. Saleh, Asif Kamal, Abdullah Abdullah, and et al. 2023. "Kinetin Capped Zinc Oxide Nanoparticles Improve Plant Growth and Ameliorate Resistivity to Polyethylene Glycol (PEG)-Induced Drought Stress in *Vigna radiata* (L.) R. Wilczek (Mung Bean)" *Molecules* 28, no. 13: 5059. <https://doi.org/10.3390/molecules28135059> (Category W)
14. Tauheed Ul Haq, **Rehman Ullah**, Muhammad Nauman Khan, Moona Nazish, Saeedah Musaed Almutairi, and Rabab Ahmed Rasheed. 2023. "Seed Priming with Glutamic-Acid-Functionalized Iron Nanoparticles Modulating Response of *Vigna radiata* (L.) R. Wilczek (Mung Bean) to Induce Osmotic Stress" *Micromachines* 14, no. 4: 736. <https://doi.org/10.3390/mi14040736> (Category W)
15. Tanvir Burni, Farrukh Hussain, Sakina Bibi, **Rehman Ullah**, Gul Lalay. 2023. The salutary impacts of AMF species, rock phosphates (RP), and organic matter (FYM) fertilizers on the development and chemical behavior of *Mentha arvensis* L., *Acta Ecologica Sinica*, 43, (5): 835-841. doi.org/10.1016/j.chnaes.2022.12.003. (Category X)
16. **Rehman Ullah**, Zakir Ullah, Javed Iqbal, Wadie Chalgham, and Ajaz Ahmad. 2023. "Aspartic Acid-Based Nano-Copper Induces Resilience in *Zea mays* to Applied Lead Stress Via Conserving Photosynthetic Pigments and Triggering the Antioxidant Biosystem" *Sustainability* 15, no. 16: 12186. <https://doi.org/10.3390/su151612186> (Category W)
17. Hussain Ahmad Kakar, Sami Ullah, Wadood Shah, Baber Ali, Sanam Zarif Satti, **Rehman Ullah**, Zahir Muhammad, Sayed M. Eldin, Iftikhar Ali, Mona S. Alwahibi, Mohamed S. Elshikh, and Sezai Ercisli. 2023. Seed Priming Modulates Physiological and Agronomic Attributes of Maize (*Zea mays* L.) under Induced Polyethylene Glycol Osmotic Stress. *ACS Omega*. 8 (25), 22788-22808 .DOI: 10.1021/acsomega.3c01715. (Category W)
18. **Rehman Ullah**, Saiqa Afriq Jan, Muhammad Nauman Khan, Moona Nazish, Asif Kamal, Alevcan Kaplan, Hany M. Yehia, Khaloud Mohammed Alarjani, Rashad Alkasir, and Wajid Zaman. 2023. "*Euphorbia royleana* Boiss Derived Silver Nanoparticles and Their Applications as a Nanotherapeutic Agent to Control Microbial and Oxidative Stress-Originated Diseases" *Pharmaceuticals* 16, no. 10: 1413. <https://doi.org/10.3390/ph16101413> (Category W)

19. Tauheed ul Haq and **Rehman Ullah**. 2022. Green Synthesis and Characterization of Gold Nanoparticles (Au-NPs) using Stem Extract of *Euphorbia nerifolia* L. and Evaluation of Their Antibacterial and Antifungal Potential. *International Journal of Nanoscience*. 21, (01), 2250008. doi/abs/10.1142/S0219581X22500089. **(Category W)**
20. Sana Faryal, **Rehman Ullah**, Muhammad Nouman Khan, Baber Ali, Aqsa Hafiz, Mariusz Jaremko and Kamal Ahmad Qureshi. 2022. Thiourea-Capped nanoapatite amplify osmotic stress tolerance in Zea mays L. by conserving photosynthetic pigments, osmolytes biosynthesis and antioxidation biosystem. *Molecules*. 2022, 57, 5744. **(Category W)**
21. Sumaira Shah, Sajjad Ali Shah, Shah Faisal, Adnan Khan, **Rehman Ullah**, Nisar Ali, Muhammad Bilal. **2021**. Engineering novel gold nanoparticles using *Sageretia thea* leaf extract and evaluation of their biological activities. *Journal of Nanostructure in Chemistry*. DOI: 10.1007/s40097-021-00407-8. **(Category W)**
22. **Rehman Ullah**, Safia Sher, Zahir Muhammad, Saiqa Afriq Jan, Muhammad Nafees. **2021**. Modulating response of sunflower (*Helianthus annuus*) to induced salinity stress through application of engineered urea functionalized hydroxyapatite nanoparticles. *Microsc Res Tech*; 85:244–252. **(Category W)**
23. **Rehman Ullah**, Sumaira Shah, Zahir Muhammad, Sajjad Ali Shah, Shah Faisal, Umbreen Khattak, Tauheed ul Haq, and Muhammad Taj Akbar. **2021**. In vitro and in vivo applications of Euphorbia wallichii shoot extract-mediated gold nanospheres. *Green Processing and Synthesis* 10: 101–111. **(Category W)**
24. Mujeeb Ur Rahman, Zahir Muhammad, **Rehman Ullah**, Wisal Muhammad Khan, Asad Ullah, Tahseen Ullah, Hazrat Ali, Ghulam Jelani and Ishaq Ali Shah. 2021. FLORISTIC COMPOSITION, ALTITUDINAL DISTRIBUTION, SEASONALITY AND BIOLOGICAL SPECTRUM OF THE VASCULAR FLORA OF ZAINI PASS, DISTRICT CHITRAL, PAKISTAN. *MITTEILUNGEN KLOSTERNEUBURG*. 71(2021) 5. **(Category W)**
25. Mujeeb Ur Rahman, Zahir Muhammad, Asad Ullah, **Rehman Ullah**, Tehseen Ullah, Ghulam Jelani, Sayed Ghayas Ali and & Hazrat Ali (2020), "Phytogeographical and Ecological Studies of the Endemic Flora of Zaini Valley Chitral, Hindukush Range, Pakistan" *Wulfenia* , 27 (10) , 02-10.
26. Zahir Muhammad, Adnan Khan, Asad Ullah, **Rehman Ullah**, Ghulam Jelani, Syed Ghias Ali, Tahseen Ullah, Mujeeb Ur Rahman1 and Abdul Majeed. 2020 FLORISTIC COMPOSITION AND ECOLOGICAL CHARACTERISTICS (LIFE FORM, LEAF SIZE AND PLANT HABIT) OF THE VASCULAR FLORA OF GOKAND VALLEY, DISTRICT BUNER, KHYBER PAKHTUNKHWA PAKISTAN. *MITTEILUNGEN KLOSTERNEUBURG*. 70(2020) 9. **(Category W)**
27. Tahseen Ullah, Zahir Muhammad, Asad Ullah, **Rehman Ullah**, Mujeeb Ur Rahman, Ghulam Jelani, Syed Ghias Ali, Naila Inayat, Hazrat Ali. 2020. FLORISTIC COMPOSITION AND ECOLOGICAL CHARACTERISTICS (LIFE FORM, LEAF SIZE AND PLANT HABIT) OF THE VASCULAR FLORA OF GOKAND VALLEY, DISTRICT BUNER, KHYBER PAKHTUNKHWA, PAKISTAN. *MITTEILUNGEN KLOSTERNEUBURG*. 70(2020) 10. **(Category W)**

28. Saleha Saeed , Sami Ullah, Muhammad Nafees, Fatima Bibi and **Rehman Ullah**. 2020. Morphological assessment of glutamate zerovalent iron nanoparticles by scanning electron microscopy and its combined effect with indole acetic acid on amelioration of lead toxicity in maize (*Zea mays* L.). *Microsc Res Tech*. 83:1499 –1506. (Category W)

29. Abdul Majeed, Zahir Muhammad, Habib Ahmad, **Rehman Ullah**, Sardar Sikandar Hayat, Naila Inayat, Saira Siyyar. 2020. *Nigella sativa* L.: Uses in traditional and contemporary medicines—An overview. *Acta Ecologica Sinica*, <https://doi.org/10.1016/j.chnaes.2020.02.001>. (Category X)

30. Naila Inayat, Zahir Muhammad, **Rehman Ullah** and Abdul Majeed. 2020. Phytochemical screening and allelopathic evaluation of aqueous and methanolic leaf extracts of *Populus nigra* L. *Pure Appl. Biol.*, 9(1): 1242-1249.

31. Umbreen Khattak, **Rehman Ullah**, Shafqat Ali Khan, Saiqa Afriq Jan, Abdur Rauf, Mohamed Fawzy Ramadan. 2019. Synthesis, characteristics and biological activities of silver nanoparticles from *Euphorbia dracunculoides*. *Eurasian Journal of Biosciences*, 13 (2): 2249-2260.

32. Tauheed ul Haq, Sami Ullah and **Rehman Ullah**. 2019. Beneficial Effects of Several Nanoparticles on the Growth of Different Plants Species. *Current nanoscience*. 15 (5): 460 – 470. (Category W)

33. Athar Javaid, Sami Ullah, Muhammad Younas and **Rehman Ullah**. 2019. Moderation of water deficit stress-induced damages by the application of silver nano particles and indole butyric acid foliar spray in maize. *International Journal of Botany Studies*. 4 (6): 43-50

34. Naila Inayat, Zahir Muhammad, Rasool Khan, **Rehman Ullah** & Abdul Majeed. (2019). Suppressive effect of *Populus nigra* L. leaves on germination and growth competence of *Triticum aestivum* L. *Pakistan Journal of Botany*. 51(4): 1323-1330, (Category W)

35. Zahir Muhammad, Naila Inayat, **Rehman ullah**, Wisal Muhammad Khan and Abdul Majeed. 2019. Allelopathic potential of *Cassia fistula* against *Lactuca sativa*, *Setaria italica* and *Pennisetum americanum* *Pure Appl. Biol.*, 8(1): 187-198,

36. Izaz Khuram, Zahir Muhammad, Nadeem Ahmad, **Rehman Ullah**, & Barinova, Sophia. (2019). Green and Charophyte Algae In Bioindication of Water Quality of The Shah Alam River (District Peshawar, Pakistan). *Transylv. Rev. Syst. Ecol. Res.* 21.1 (2019), "The Wetlands Diversity" (Category X)

37. Abdul Majeed, Zahir Muhammad, **Rehman Ullah**, Zubeda Chaudhry and Irfanul Haq. 2019. Comparative assessment of detached leaflet and tuber disc assays for studying the aggressiveness of different isolates of *Phytophthora infestans*. *Pak J Bot*. DOI:10.30848/PJB2019-2(35). (Category W)

38. Zahir Muhammad, **Rehman Ullah**, Naila Inayat, Abdul Majeed. 2018. Allelopathic Effect of Ficus Benjamina Leaf Extract, Litter, And Mulch On Germination And Growth Of Sunflower. *Cercetări Agronomice în Moldova*. Vol. LI , No. 4 (176) / 2018: 36-46
39. **Rehman Ullah**, Siraj ud Din , Zahir Muhammad, Sumaira Shah and Saiqa Afriq Jan. 2018. Biological efficacy of phyto-synthetic silver nanoparticles using ethanol extract of Euphorbia wallichii Hook Rhizome as bio-reductant and surfactant. *Trop J Pharm Res* 2018; **17(10)**:1903-1909
40. Abdul Majeed, Zahir Muhammad, **Rehman Ullah** and Saif ul Islam. (2018). Allelopathic Management of Some Noxious Weeds By The Aqueous Extracts Of *Parthenium Hysterophorus* and *Carthamus Oxyacantha*. *Polish Journal of Natural Science*. 33. 223-231.
41. Muhammad Ali, Zahir Muhammad **Rehman Ullah** & Abdul Majeed. (2018). Floristic Inventory And Ecological Attributes Of Plant Resources Of Hazar Nao Hills, District Malakand Pakistan. *Journal of Weed Science Research*. 24. 241-255. 10.28941/24-3(2018)-6.
42. Zahir Muhammad, **Rehman Ullah**, Naila Inayat, Abdul Majeed. 2018. Allelopathic Effect Of Ficus Benjamina Leaf Extract, Litter, And Mulch On Germination And Growth Of Sunflower. *Cercetări Agronomice în Moldova*. Vol. LI , No. 4 (176) / 2018: 36-46
43. Hazrat Ali, Zahir Muhammad, Rehman Ullah, Abdul Majeed, Inayat, Naila. (2018). Effect Of Gamma Irradiation on Flax Germination, Growth and Yield Performance of Flax (*Linum Usitatissimum* L.) Under Gamma Irradiation Stress. *Cercetari Agronomica in Moldova*; Vol. LI , No. 2 (174) / 2018: 17-26.
44. Abdul Majeed, Zahir Muhammad, **Rehman Ullah** and Hazrat Ali. 2018. Gamma Irradiation I: Effect On Germination and General Growth Characteristics of Plants–A Review. *Pak. J. Bot.*, 50(6): 2449-2453. **(Category W)**
45. Abdur Rahim Khan, Ihsan Ullah, Muhammad Waqas, Gun-Seok Park, Abdul Latif Khan, Sung-Jun Hong, **Rehman Ullah**, Byung Kwon Jung, Chung Eon Park, Shafiq-ur-Rehman, In-Jung Lee and Jae-Ho Shin. 2017. Host plant growth promotion and cadmium detoxification in *Solinum nigrum*, mediated by endophytic fungi. *Ecotoxicology and Environmental Safety*, 138: 180-188. **(Category W)**
46. Sumaira Shah, Siraj ud Din, Adnan Khan, **Rehman ullah** and Sajjad Ali Shah. 2017. Green Synthesis and Antioxidant Study of Silver Nanoparticles of Root Extract of *Sageretia thea* and Its Role in Oxidation Protection Technology, *Journal of Polymers and the Environment*, 2017. DOI 10.1007/s10924-017-1129-8. **(Category W)**
47. **Rehman Ullah**, Ishfaq Hameed, Muhammad Ibrar and Farrukh Hussain. 2016. Pharmacognostic and Pharmacological evaluation of *Ruvellia tuberosa* L. *Pakistan Journal of Pharmaceutical sciences*. 29 (6): 20199-2102. **(Category W)**
48. Zahir Muhammad, Farrukh Hussain, **Rehman Ullah** and Abdul Majeed. 2015. Effect Of Halopriming On The Induction Of NaCl Salt Tolerance In Different Wheat Genotypes. *Pak. J. Bot.*, 47(5): 1613-1620. **(Category W)**

49. **Rehman Ullah**, Siraj ud Din, Sumaira Shah and Zahir Muhammad. 2014. Pharmacological evaluation of *Euphorbia helioscopia* L. and *Euphorbia hirta* L. *International Journal of Biosciences* (IJB). 4(1):20-26.
50. Sumaira Shah, Siraj ud Din and **Rehman ullah**. 2013. Pharmacognostic standardization and FT-IR analysis of various parts of *Sageretia thea*. *Internationa journal of Biosciences*. 3 (3):108-114.
51. **Rehman Ullah**, Siraj ud Din, Sumaira Shah and Zahir Muhammad. 2014. Pharmacological evaluation of *Euphorbia helioscopia* L. and *Euphorbia hirta* L. *International Journal of Biosciences* (IJB). 4(1):20-26. 26.
52. Sumaira Shah, Siraj ud Din, Zahir Muhammad and **Rehman Ullah**. 2014. Nutritional analysis and nutrients composition of various parts of *Sageretia thea* (Osbeck). *International Journal of Biosciences* (IJB). 4(1), 1-7. 27.
53. Sumaira Shah, Siraj ud Din, **Rehman Ullah** and Qaiser jamal.2013. Pharmacological evaluation of *Ziziphus nummularia* leaves for phytotoxic and molluscicidal bioassays. *African journal of pharmacy and pharmacology*.7(45):2887-289. 28.
54. Sumaira Shah, Siraj ud Din and **Rehman ullah**. 2013. Pharmacognostic standardization and FT-IR analysis of various parts of *Sageretia thea*. *Internationa journal of Biosciences*. 3 (3):108-114. 29.
55. Barkatullah, Muahmmad Ibrar, Niaz Ali, Naveed Muhammad and **Rehman ullah**. 2012. Antispasmodic potential of leaves, barks and fruits of *Zanthoxylum armatum* DC. *African Journal of Pharmacy and pharmacology*. 7(13): 685-693. 30.
56. Barkathullah, Muhammad Ibrar, Ghulam Jelani, **Rehman ullah**, Maryam Ehsan. 2012. Phytosociological and ethnobotanical attributes of *Zantoxylum armatum* DC. *International Journal of Biosciences* (IJB), 2(12): 46-56. 31.
57. Imtiaz Ahmad, Fazal Malik Sarim, Barkatullah, **Rehman ullah** and Sumaira Shah. 2012. Phytotoxic and cytotoxic activities of three species of *Spirogyra*. *Pakistan journal of plant sciences*, 18(1): 69-72. 32.
58. **Rehman ullah**, Muhammad Ibrar, Sumaira Shah and Ishfaq Hameed. 2012. Phytotoxic, Cytotoxic and insecticidal activities of *Calendula arvensis* L. *E3 Journal of Biotechnology and Pharmaceutical Research*. 3 (6):104-111. 33.
59. **Rehman ullah**, Farrukh Hussain, Lal Badshah, Mohib Shah and Ishfaq Hameed. 2011. Phytosociological study of Tehsil Manki Sharif, Nowshera, KPK, Pakistan. *Pak. J. Pl. Sci.*, 17 (1):65-77. 34.
60. Farrukh hussain, Ishfaq Hameed, Mohib Shah, Lal Badshah, **Rehman ullah** and G. Dastagir. 2011. Graveyards reflects reminent vegetation of tehsil Peshawar, Pakistan. *Pak. J. Pl. Sci.*, 17 (1):55-63. 35.
61. Tanvir Burni, M. Ibrar and **Rehman ullah**. 2011. Mycorrhizal status of *Elettaria cardamomum* (L.) Maton. *Hamdard Medicus*. 54 (3): 81-85.

Book Chapter

1. Abdul Majeed, Zahir Muhammad, **Rehmanullah**, Sami Ullah. 2023. Use of Smart Technology in

Agriculture for Energy Management. In: Rakshit, A., Biswas, A., Sarkar, D., Meena, V.S., Datta, R. (eds) Handbook of Energy Management in Agriculture. **Springer, Singapore.** https://doi.org/10.1007/978-981-19-7736-7_35-1

2. **Rehman Ullah**, Muhammad Z., Inayat N., Majeed A. (2020) Application of Nanoparticles in Agriculture as Fertilizers and Pesticides: Challenges and Opportunities. In: Rakshit A., Singh H., Singh A., Singh U., Fraceto L. (eds) New Frontiers in Stress Management for Durable Agriculture. **Springer, Singapore.** https://doi.org/10.1007/978-981-15-1322-0_17
3. Zahir Muhammad, Abdul Majeed, **Rehman Ullah**, Naila Inayat and Saira Siyar. 2020. Effect of Heavy Metal Stress on Growth and Yields of Crop Plants: An Overview. Cellular and Molecular Phytotoxicity of Heavy Metals (Part of the Nanotechnology in the Life Sciences book series (NALIS): **Springer**. pp. 57-67.
4. Abdul Majeed, Zahir Muhammad, **Rehman Ullah**, Habib Ahmad, Naila Inayat and Saira Siyar. 2020. Heavy Metal-Contaminated Soils: Weeds as Potential Phytoremediation Agents—Issues and Prospects. Cellular and Molecular Phytotoxicity of Heavy Metals (Part of the Nanotechnology in the Life Sciences book series (NALIS): **Springer**. pp 179-190.
5. Abdul Majeed, Zahir Muhammad, **Rehman Ullah**, Saira Siyar. (2020). The Role of Ionizing Radiation-Induced Mutations in the Development of Rice Cultivars. In: Rakshit A., Singh H., Singh A., Singh U., Fraceto L. (eds) New Frontiers in Stress Management for Durable Agriculture. **Springer, Singapore.** https://doi.org/10.1007/978-981-15-1322-0_8
6. Abdul Majeed, Zahir Muhammad and **Rehman Ullah**. 2019. Role of Seed Priming and Plant Growth-Promoting Rhizobacteria in Modulating Crops' Responses to Salinity Stress. Priming and Pretreatment of Seeds and Seedlings. Implication in Plant Stress Tolerance and Enhancing Productivity in Crop Plants. **Springer**. Pp. 552-572

REHMAN ULLAH

THESIS SUPERVISED
MS/MPhil

1. IN-VIVO ANALGESIC, ANTISPASMODIC AND IN-VITRO ANTIOXIDANT AND ANTIMICROBIAL FUNCTIONALITY OF SILVER NANOSPHERES OF EUPHOBIA DRACUNCULIODES (2014-2016).
2. FLORISTIC DIVERSITY, PLANT RESOURCE UTILIZATION AND CONSERVATION STATUS OF SAYYAR DARA, DIR, PAKISTAN.
3. EFFECT OF TRYPTOPHAN CAPPED COPPER NANOPARTICLES ON PHYSIOLOGICAL ATTRIBUTES OF ZEA MAYS GROWN UNDER INDUCED LEAD STRESS.
4. EFFECT OF FUMARIC ACID FUNCTIONALIZED HYDROXYAPATITE NANOPARTICLES IN MODULATING RESPONSE OF ZEA MAYS L. GROWN UNDER INDUCED SALINITY STRESS
5. APPLICATION OF MALIC ACID CAPPED HYDROXYAPATITE

NANOPARTICLES IN MODULATING RESPONSE OF ZEA MAYS L. GROWN UNDER INDUCED SALINITY STRESS

6. EFFECT OF GLUTAMIC ACID CAPPED SILVER NANOPARTICLES AND INDOLE ACETIC ACID ON PHYSIOLOGY OF ZEA MAYS L. UNDER INDUCED SODIUM CHLORIDE (NaCl) STRESS
7. SYNTHESIS AND CHARACTERIZATION OF DIGITOXIN MEDIATED ZINC OXIDE NANOPARTICLES FOR BIOLOGICAL APPLICATIONS.
8. SYNTHESIS AND CHARACTERIZATION OF EPHEDRINE MEDIATED ZINC OXIDE NANOPARTICLES (E-ZnONPs) FOR THEIR BIOLOGICAL APPLICATIONS.
9. ISOLATION AND UTILIZATION OF ENDOPHYTIC BACTERIAL FLORA FROM ZIZIPHUS JUJUBA MILL. AS BIOFERTILIZER AND OSMOREGULATOR
10. EVALUATION OF CAFFEIC ACID CAPPED ZINC OXIDE NANOPARTICLES AS A POTENTIAL CONTROL AGENT AGAINST THE LATE BLIGHT OF POTATO.
11. EFFECT OF GLUTAMIC ACID CAPPED IRON NANOPARTICLES ON AMELIORATION OF RESISTIVITY TO OSMOTIC STRESS IN MUNG BEAN VIGNA RADIATA (L.) R. WILCZEK
12. KINETIN CAPPED ZINC OXIDE NANOPARTICLES AMELIORATES RESISTIVITY TO POLYETHYLENE GLYCOL (PEG) INDUCED DROUGHT STRESS IN MUNG BEAN (VIGNA RADIATA L.)

PhD

1. POPULATION DIVERSITY OF SILYBUM MARIANUM (L.) GAERTN AND PHARMACOLOGICAL EVALUATION OF SILYMARIN BASED CERIUM OXIDE NANOPARTICLES (By Tauheed ul Haq)
 2. THE IMPACT OF ARBUSCULAR MYCORRHIZAL FUNGI AND RESORCINOL FUNCTIONALIZED NANO-BIOCHAR ON THE GROWTH PERFORMANCE OF TOMATO (LYCOPERSICON ESCULENTUM MILL.) (By Sakina Bibi)
 3. PLANT GROWTH PROMOTING ENDOPHYTIC FUNGI AND METHIONINE BASED HYDROXYAPATITE NANOSTRUCTURE IMPART POLYETHYLENE GLYCOL BASED OSMOTIC STRESS TOLERANCE IN ZEA MAYS L. (By Hussain Ahmad Kakar)
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