CURRICULUM VITAE

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Education

Degree	Year	Subject	Institution
Ph.D.	2011	Organic Chemistry	Univ. of Agriculture, Faisalabad.
M.Sc.	2000	Organic Chemistry	Univ. of Agriculture, Faisalabad.
B.Sc.	1997	Chem. Geography. Bot.	Govt. College for Women, Madina Town, Faisalabad
F.Sc.	1995	Pre-Medical	Govt. College for Women, Madina Town, Faisalabad
Matric	1992	Pre Medical	Lab. Girls High School UAF

Teaching & Research Experience

Post held	Duration	Where Employed
Lecturer	6-5-2003-15-7-2012	Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad
Assistant professor	16-7-2012- 30-8-2019	Department of Chemistry, University of Agriculture, Faisalabad
Associate Professor	31-8-2019 to 11-10-24	Department of Chemistry, University of Agriculture, Faisalabad
Professor	11-10-24 to dated	Department of Chemistry, University of Agriculture, Faisalabad

Research Conducted

Sr. No.	**Degree**	**Title of Research conducted**
1	M.Sc.	Diuretic activity of *Achyranthus aspera* (Chirchitta in Goats)
2	Ph.D.	Correlation of polyphenolic contents of indigenous medicinal plants with their bioactivities

Research Projects:

1. **Project Title; "**Green Nano-Pesticides: a novel approach for pest control" funded by Endowment Fund Secretariat. (**PI). Total Cost:** 1.981 million (Ongoing)
2. **Project Title;** "Improving nitrogen use efficiency in agriculture using urease enzyme inhibitors" **Funded by** PARB, **PI of one Component**. **Total cost:** 17.016/- Million. (Ongoing)1
3. **Project Title; "**Formulation and Characterization of Phytosomes and Nanosuspensions of Phytotherapeutics with Better ACE Inhibition and Antioxidant Potential" **Funded by** HEC, **(PI). Total cost:** 2.05 million (Ongoing)
4. **Project Title;** "Discovery of Innovative Gemmomodified Herbal Combnation for Menagments of Cardiac Diseases" **Funded by** HEC. (**PI**). **Total cost** 0.4991 million (Completed).
5. **Project Title; "**Demonstration of Technology of Silymarin Extraction from Milk Thistle" **Funded by** Endowment Fund Secretariat, University of Agriculture Faisalabad. **(Co-PI**). **Total cost:** 1.827 million (Completed).
6. **Project Title;** "Green combination: blockade for hypertension and cardiac dysrhythmia**" Funded by** Pakistan Academy of Sciences. **(Co-PI). Total cost:** 3.496 million **(**Completed).
7. **Project Title; "**Raising Hepatitis Awareness among School and College children for Healthier Future", under Social integration outreach program. **Funded by** HEC and UAF. (**Co-PI). Total cost:** 1.00 million **(**Completed).

Salient Research Achievements:

1.Formulation of Ecofriendly nanobiopesticides

In my current research project Iam working on formulation of ecofriendly green nanobiopesticides. The method for the green synthesis of metal nanoparticles like silver, ZnO and FeO3 were optimized through response surface methodology. **Indigenously developed Nano pesticides have some highly desirable characters, such as enhanced saturation solubility, wettability, penetration, adhesion to the surface of crop leaves and targeted insects, and biological activity due to the effect of their small size and high surface area.** The various plants indiginous plats posessing pesticidal potential were selected for the formulation of nanobiopesticides in the form of nanosuspensions. Nano-silver and ZnO acts as an effective agent in pest management that is nontoxic, safe and an improved tool to fight against pests. Results of particle size confirmed that all biopesticides and metal formulated sucessfully with nano meter size with in range of 35-200nm.

After the formulation of nanopesticides, these formulations were tested against phytopathogentic bacterial (*Clavibacter michiganensis* and *Pseudomonas syringae*) and fungal stains such as *Aspergillus niger*, *Aspergillus flavus*, and *Aspergillus sojae*, *Fusarium oxysporum, and Rhizopus stolonifera*. Nanobiopesticeds proved effective against the tested strains. These strains are responsible for many diseases in fruits, vegetables and plants. **So these innovative green nano biopesticides may be used more effectively against problems caused by tested strains. Nanosization of plant extract and preparation of their formulations is an innovative approach for ecofriendly pest management which significantly enhanced the potential of conventional biopesticides.**

2. Formation of Slow-Release Urea Fertilizer

The second project is formation of slow-release urea fertilizer. We blended the fertilizer with nitrate and urea inhibitors. A major portion of urea applied for enhancing crop yield and quality is lost every year in the form of NH_3, N_2O and NO_3 and contaminating air and water. These losses increase the economic burdens on farmers. The reduction in N losses in the form of ammonia volatilization into the air and NO_3 leaching in water are necessary for the safety of the environment throughout the world. **Out of such multiple strategies, the urease and nitrate inhibitor technology seems to be potent, safe and economical to improve the N use efficiency and keep the environment clean.** Urease and nitrification inhibitors are the chemicals that inhibit the conversion of urea into ammonia and decrease the efficiency of nitrifying bacteria and provide N as NH_3 and NH_4^+ to the soil for a longer time for the consumption of plant only. **After completing**

field trial with AARI, Soil Science department and Fatima Industries we get very good results. We finalize two urease and nitrate inhibitors and report to PARB for further commercialization.

3.Formulation of Cardio Protective and Hypotensive Nanosuspensions

The Inhibition of ACE enzyme is important therapeutic target for making new drugs to treat hypertension and other associated diseases. Synthetic ACE inhibitors have been used to control high blood pressure. However, these synthetic drugs have undesirable side effects with high rate. Therefore, green ACE inhibitors derived from natural sources may be safer and more reliable for the regulation of high blood pressure than synthetic drugs. I identified many bioactive compounds present in Medicinal plants and foods responsible for the treatment of hypertension with known mechanism of action as angiotensin-converting enzyme (ACE) inhibitors. **Notwithstanding the undenied pharmaceutical potential of medicinal plants, their therapeutic potential can be strengthened through nanotechnology. I took the initiative to formulate nanosuspensions as novel drug delivery system of medicinal plants with better cardio protective and hypotensive potential.**

4: Technology Development

Silybum marinum is an important medicinal plant which is a source of silymarin, a hepatoprotective flavonoid. Neither the said plant is grown with business point of view nor is indigenously extracted silymarin available in the market. Agronomic aspects of the plant have been studied and indigenous technology for extraction of silymarin has also been developed. This technology as a chapter has been included in 101 Innovative Catalog, Technologies for Commercialization (2016) published by UAF.

5: Formulation of Cardio and Hepato Protective Herbal Products

Cardiac and hepatic disorders have become a real threat and menace for population of Pakistan. Concurrently the availability of medicinal plants, being an alternative source of green medicines, is a hope for such sufferers. I have exploited the fortitude of this green source and formulated novel combinations for the management of cardiac and hepatic disorders.

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6): Formulation of antiglycemic and Cardio-Protective Phytosomes

Diabetes Mellitus is one of the most prevalent non-communicable diseases worldwide with continuously increasing incidence. It has emerged as a great socioeconomic burden for the developing world and is a major contributor to the escalating healthcare cost worldwide**. I have successfully formulated Phytosomes and Nanosuspensions of recently introduced medicinal plant, Banaba, which have shown an excellent *in vitro* and *in vivo* antiglycemic potential.**

List of Publication

1. Tanawish1 · **Nazish Jahan1** · Kousar Rasheed1 · Maria Iqbal · Muhammad Atif. Exploring the Advanced Synthesis Strategies and Biomedical Applications of Iron Oxide-Based Nanozymes:2024. A Comprehensive Review. Journal of Cluster Sciencehttps://doi.org/10.1007/s10876-024-02690-1
2. Fareeha Kousar1**, Nazish Jahan,** Khalil-Ur-Rahman2 and Bushra Sultana**.2024.** Optimization of parameters for the formulation of *Moringa oleifera* nanosuspension with enhanced hepatoprotective potential. *Pak. J. Agri. Sci., Vol. 61(1),116-127; 2024*
3. Atizaz Rasool a, Shumaila Kiran , Shazia Abrar a, Sarosh Iqbal a, Tahir Farooq **, Nazish Jahan,** Bushra Munir c, Mohd Yusuf d, Naila Mukhtar.2024. Synthesis and characterization of bio-fabricated silver nanoparticles as green catalysts for mitigation of synthetic dyes: A sustainable environmental remedial approach. Journal of Molecular Liquids 396 (2024) 124061.
4. **Nazish Jahan,** Nida Hussain 1, Syeeda Iram Touqeer 1, Khalil-Ur-Rahman 2, Huma Shamshad and Naseem Abbas**.** Formulation of Mentha piperita-Based Nanobiopesticides and Assessment of the Pesticidal and Antimicrobial Potential. Life **2024**, 14, 144. https://doi.org/10.3390/life14010144.
5. Usama Saeed a, R. Bousbih b, Ahmed Mahal c, Hasan Majdi d, **Nazish Jahan** ,**, Majid S. Jabir e, Mohamed S. Soliman f, Ali Raza Ayub, Nadia H. Elsayed h, Sajjad Ali a, Rasheed Ahmad Khera, Muhammad Waqas.2024. Engineering of asymmetric A1-D1-A2-D2-A1 type non-fullerene acceptors of 4T2CSi–4F derivatives to enhance photovoltaic properties: A DFT study. Journal of Physics and Chemistry of Solids 192 (2024) 112094

6. Fakhar Abbas · R. Bousbih · Ali Raza Ayub · Saba Zahid · Mohammed Aljohani4 · Mohammed A. Amin. Muhammad Waqas1 · Mohamed S. Soliman · Rasheed Ahmad Khera · **Nazish Jahan.**2024**.** A Theoretical Investigation for Exploring the Potential Performance of Non-Fullerene Organic Solar Cells Through Side-Chain Engineering Having Diphenylamino Groups to Enhance Photovoltaic Properties. Journal of Fluorescence https://doi.org/10.1007/s10895-024-03805-7
7. Iqbal H. N. Jahan, S. Ali · A. Shahzad · R. Iqbal. 2023. Formulation of Moringa oleifera nanobiopesticides and their evaluation against Tribolium castaneum and Rhyzopertha dominica. Journal of Plant Diseases and Protection https://doi.org/10.1007/s41348-023-00802-z. (Impact factor 2.0)

1. Jamil, S., S. R. Khan, S. Bibi, N. Jahan, N. Mushtaq, F. Rafaqat, R.A. Khan, W. A. Gill and M. R. S. A. Janjua.2023. Recent advances in synthesis and characterization of iron–nickel bimetallic nanoparticles and their applications as photo-catalyst and fuel additive, RSC Advances, 13, 29632 DOI: 10.1039/d3ra04293f (Impact factor 3.9)
2. Janan. N., F. Kousar, Khalil Ur Rahman, S. I. Touqeer and N. Abbas. 2023. Development of Nanosuspension of Artemisia absinthium Extract as Novel Drug Delivery System to Enhance Its Bioavailability and Hepatoprotective Potential. J. Funct. Biomater. 2023, 14(8), 433; https://doi.org/10.3390/jfb14080433(Impact factor 4.8)
3. Jahan N., K. Rasheed, Khalil-Ur- Rahman , A. Hazafa , A. Saleem, S. Alamri , M. Omer Iqbal and M A. Rahman.2023. Green inspired synthesis of zinc oxide nanoparticles using Silybum marianum (milk thistle) extract and evaluation of their potential pesticidal and phytopathogens activities. PeerJ 11:e15743 DOI 10.7717/peerj.15743.(impact factor 3.06)
4. Liaqat, N., N. Jahan, Rahman, K., I. Tahseen., T Anwar and H. Quershi. 2023. Investigation of phytotherapeutic potential of herbal mixtures and their effects on salbutamol induced cardiotoxicity and hyperlipidemia in rabbits. Bot Stud 64: 23. https://doi.org/10.1186/s40529-023-00394-9 (Impact Factor 2.67)
5. Irshad, I. R. Munir, G. Albasher, A. Muneer, M. Yaseen, M. Zahid, R. Nadeem, N. Jahan, M. I. Jilani, F. Younas and S. Noreen. (2023). Synthesis of metal doped nano-ferrites Co0.5Zn0.25M0.25Fe2O4 by co-precipitation method and application as adsorbent and photocatalyst for removal of direct orange-108 acid dye: equilibrium, kinetic and

thermodynamic studies, Journal of Dispersion Science and Technology, DOI: 10.1080/01932691.2023.2269229. (Impact factor 2.25)

6. Maqsood, A., R. Munir, G. Albasher, M. Sayed, R. Nadeem, N. Jahan, A. Muneer, M. Yaseen, M. Zahid, F. Younas and Saima Noreen .2023. Synthesis of hybrid layered double hydroxides (HLDH) and application as adsorbent for removal of direct sky-blue dye, Chemical Engineering Communications, DOI: 10.1080/00986445.2023.2276140. (Impact factor 2.5).
7. Jamil, S., A. Rahat A., S. Bibi, N. Jahan, S. A. Raza Naqvi, S. R. Khan, K. M. Zia, M.R.S. A. Janjua. 2023. Synthesis, characterization, and applications of cobalt bismuth layered double hydroxide nanoparticles: Physical insights towards a potential material as fuel additive and photocatalyst. Journal of Physical Organic Chemistry, 6, (7) e4500, https://doi.org/10.1002/poc.4500 (Impact factor 1.8).
8. Mujtaba, F., N. Jahan, A. Jamal, S. Abrar, S. Kiran, A. Rasool, Md B. Hossain, F. S. Bahwerth, I. Nomani, K. Javed Iqbal, 2022."Biologically Synthesized Peptides Show Remarkable Inhibition Activity against Angiotensin-Converting Enzyme: A Promising Approach for Peptide Development against Autoimmune Diseases", BioMed Research International, vol. 2022, Article ID 2396192. https://doi.org/10.1155/2022/2396192 (Impact Factor 3.2)
9. Cheema, H,. I. A. Bhatti· R.R. Srivastava · N. Jahan · M. A. Zia.2022. Dissolution of molybdenite roasting fue dust in sulfuric acid: kinetics and mechanism for molybdenum and rhenium leaching Humma. Chemical Papers https://doi.org/10.1007/s11696-022-02145-9 (Impact factor 2.14)
10. Jahan N., F. Hussian, A. R. Ayub, M. Ilyas, M. A. Khan, R. Manzoor. W.A. Khan.2022 Isolation and characterization of flavonoids from roots of Rauvolfa serpentina and evaluation of their hypotensive potential through angiotensin converting enzyme (ACE) inhibition mode of action. Chemical Papers https://doi.org/10.1007/s11696-022-02238-5 (Impact factor 2.14)
11. Touqeer S. I., N. Jahan, N. Abbas, and A. Ali. 2022. Formulation and Process Optimization of Rauvolfia serpentina Nanosuspension by HPMC and In Vitro Evaluation of ACE Inhibitory Potential. J. Funct. Biomater. 13(4), 268; https://doi.org/10.3390/jfb13040268 (Impact factor 4.96)

12. Iqbal, H., N. Jahan, Khalil-ur-Rahman & S. Jamil .2022.Formulation and characterization of Azadirachta indica nano biopesticides for ecofriendly control of wheat pest Tribolium castaneum and Rhyzopertha dominica, Journal of Microencapsulation, DOI: 10.1080/02652048.2022.2149870 (Impact factor 4.23)
13. Liaqat N, Jahan N, Khalil-ur-Rahman, Anwar T and Qureshi H (2022), Green synthesized silver nanoparticles: Optimization, characterization, antimicrobial activity, and cytotoxicity study by hemolysis assay. Front. Chem. 10:952006. doi: 10.3389/fchem.2022.952006 (impact Factor 5.45)
14. Zafar F. N. Jahan, S. Ali, S. Jamil, R. Hussain , S. Aslam . 2022. Enhancing pharmaceutical potential and oral bioavailability of Allium cepa nanosuspension in male albino rats using response surface methodology. Asian Pacific Journal of Tropical Biomedicine 2022; 12(1): 26-38 DOI: 10.4103/2221-1691.331792 (Impact factor 1.5).
15. Mujtaba1 N., N. Jahan, S. A.R. Naqvi, S. K. , B. Sultana and M. A. Zia.2022. Isolation and characterization of novel antihypertensive bioactive peptides from brassica napus and angiotensin-converting enzyme (ACE) inhibition potential doi.org/10.36721/PJPS.2022.35.2.P.627-632.1 Pak. J. Pharm. Sci., 35(2):627-632 627 (Impact factor 0.68)
16. Kousar, F., N. Jahan, B. Sultana1, Khalil-Ur-Rahman. 2022.Optimization of process parameters by response surface methodology to develop a more bioefficacious nanosuspension of Silybum marianum seed extract. Tropical Journal of Pharmaceutical Research; 21 (7): 1365-1375. DOI: 10.4314/tjpr.v21i7.2 (Impact factor 0.553)
17. AbuHazafa, **N. Jahan** M. A. Zia. Khalil-Ur-Rahman, M. Sagheer, M. Naeemd. 2022 Evaluation and optimization of nanosuspensions of Chrysanthemum coronarium and Azadirachta indica using Response Surface Methodology for pest management. Chemosphere Volume 292, , 133411 (Impact Factor 7)
18. Zafar F. **N. Jahan** , S. Ali , S. Jamil, R. Hussain , S. Aslam . 2022. Enhancing pharmaceutical potential and oral bioavailability of Allium cepa nanosuspension in male albino rats using response surface methodology. Asian Pacific Journal of Tropical Biomedicine 2022; 12(1): 26-38 (Impact Factor 3).
19. Nosheen M., **N.Jahan** , B. Sultana , M. A. Zia2. 2021.Isolation and characterization of antihypertensive peptides from soy bean protein. Braz. J. Pharm. Sci. 2021;57: e19061

20. Asim Hussain , **N. Jahan** · Zara Jabeen · Khalil Ur Rehman · Hamza Rafeeq · Muhammad Bilal · Hafz M. N. Iqbal 2021. Synergistic Efect of Urease and Nitrifcation Inhibitors in the Reduction of Ammonia Volatilization. Water Air Soil Pollut (2021) 232:303
21. Rakha1,A., K. Rehman2, M. Shahid2, **N. Jahan**, M. Babar Imran4. 2021 Salivary flow rate and radioactivity in saliva, blood and serum of benign and malignant thyroid patients after 131I therapy. Int. J. Radiat. Res.,; 19(1): 197-203
22. Bibi S., M. Khan, Shafiq ur-Rehman, Muhammad Yaseen, Shabbir Muhammad, Raziya Nadeem, **N. Jahan**, Saima Bashir.2021. Misbah Investigation analysis of optoelectronic and structural properties of cis- and trans-structures of azo dyes: density functional theory study. J Phys Org Chem. 2021;e4183
23. Aamna Ashfaq , Razyia Nadeem , Shamsa Bibi , Umer Rashid , Asif Hanif , **N. Jahan** , Zeeshan Ashfaq , Zubair Ahmed , Muhammad Adil and Maleeha Naz.2021 Efficient Adsorption of Lead Ions from Synthetic Wastewater Using Agrowaste-Based Mixed Biomass (Potato Peels and Banana Peels. Water 2021, 13, 3344. https://doi.org/10.3390/w13233344
24. Aslam, S., N. Jahan, Khalil-Ur-Rehman, and S. Alia.2020. Development of sodium lauryl sulphate stabilized nanosuspension of Coriandrum sativum to enhance its oral bioavailability. Journal of Drug Delivery Science and Technology 60 ,101957. (Impact factor 2.73)
25. Hazafa A., Khalil ur-Rahmana, I.-ul- Haqa, N. Jahan, M. Mumtazb ,M. Farman, H. Naeemd, F. Abbasb, M. Naeeme ,S. Sadiqab and S.Banob. 2020. The broad-spectrum antiviral recommendations for drug discovery against COVID-19. Drug Metabolism Reviews. (Impact factor 3.95)
26. Zahra J., Khalil-ur-Rahman, M.A. Zia and N. Jahan. 2020. Effect of explants and growth hormones on direct regeneration of Silybum marianum In vitro. Journal of Biological Regulators and Homeostatic. 34(1), 163 – 166(Impact factor 1.5)
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28. Bibi, Z., N. Jahan, Khalil-ur-Rehman and Zill-e-Huma.2020. Synthesis and biological evaluation of Ellettaria cardamomum (Cardamom) Phytosomes. Pak. J. Pharm. Sci., 33(.5):2121-2129. (Impact factor 0.596)
29. Aslam, S., N. Jahan, Khalil-Ur-Rehman, and S. Alia.2019. Formulation, optimisation and in-vitro, in-vivo evaluation of surfactant stabilised nanosuspension of Ginkgo biloba. Journal of Microencapsulation 36(6), 576–590. (Impact factor 2.287)
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31. Habiba U., Khalil-ur-Rahman, N. Jahan, and M. Shahid. 2019. Starring role of acetylcholinesterase from medicinal plants on Lactate dehydrogenase production in cytotoxic hepatic cells. Journal of Biological Regulators and Homeostatic Agents.33(6);1797-1801. (Impact factor 1.5).
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34. Zafar F., **N. Jahan**, Khalil-ur-Rahman and H. N. Bahtti. 2018. Increased bioavailability of piperine from optimized *Piper nigrum* nanosuspension. Planta Medica Doi10.1055/a-0759-2208 **(Impact factor 2.48)**
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37. Janjua, M. R. S. A, S. Jamil, **N. Jahan**, S. Rauf Khan and S. Mirza. 2017. Morphologically controlled synthesis of ferric oxide nano/micro particles and their catalytic application in

dry and wet media: a new approach. Chemistry Central Journal. 11:49, DOI 10.1186/s13065-017-0278-0. **(**Impact factor 2.**442**)

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48. Hassan, M.H., B. Sultana, N. Jahan, I. Iqbal. 2016. Evaluation of Phenolic Profile and Antioxidant Potential of Medicinal Plants. Oxidation Communication, 39, No 3-I, 2222–2236 (Impact factor 0.489).
49. Zafar F., N. Jahan, Khalil-ur-Rahman. 2016. Synergetic Free Radical Scavenging Potential of Polyphenolic Phytotherapeutics in Various Plant Combinations. Oxidation Communication, 39: 39, No 3-I, 2213–2221 (Impact factor 0.489).
50. **Jahan N**., S. Aslam, K. Rahman. T. Fazal, F. Anwara and R. Saher. 2015. Formulation and characterization of nanosuspension of herbal extracts for enhanced antiradical potential. Journal of Experimental Nanoscience., DOI:10.1080/17458080.2015.1025303 **impact factor 1.03**
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52. Aslam S., **N. Jahan**, K. Rahman and K.M. Khan. 2015. Efficacy of herbal mixture for the treatment of salbutamol induced myocardial necrosis in rabbits. Pak Vet J, 35(3): 355-359. **(Impact factor 0.822)**
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56. Zafar, F., **N. Jahan**, Khalil-Ur-Rahman, W. Zafar and S. Aslam. 2014. Comparative Evaluation of Phytochemical, Mineral And Vitamin Contents of Gemmomodified Extracts And Leaves of Two Indigenous Medicinal Plants. Int. J. Agric. Biol., 16: 911–916. (**Impact factor 0.902)**
57. Fatima, S., **N. Jahan**, Khalil-ur-Rahman, S. Nosheen and S. Aslam. 2014. Comparative Antioxidant Potential and Total Polyphenolic Contents Of Different Parts Of *Datura Stramonium.*. Pak J. Agri. Sci., Vol. 51(2). (**Impact factor 1.054**
58. **Jahan, N**., Khalil-Ur-Rahman, S. Ali and M. R. Asi. 2013. Phenolic Acid And Flavonol Contents Of Gemmo-Modified And Native Extracts of Some Indigenous Medicinal Plants. Pak. J. Bot., 45(3): 1515-1519. **(Impact factor 1.207)**
59. Ayesha, **N. Jahan**, Khalil-ur-Rahman and S. Nosheen. 2013 Gemmomodification: An emerging source of natural antioxidants from *Silybum marianum. Pak. J. Pharm. Sci.,* 26(3):585-591 **(Impact factor 0.947**)
60. Afsheen N, Khalil-ur-Rahman and **N. Jahan**, 2013. Attenuation of Chemically Induced Diabetes in Rabbits with Herbal Mixture (*Citrullus colocynthis and Cicer arietinum*). *Pak. Vet. J.*, 33(1): 41-44**. (Impact factor 1.365**)
61. Anwar, S. **N. Jahan**, Khalil-ur-Rahman, S. Ali and S. Aslam. 2013. Microwave-Assisted Extraction and Nitric oxide and Superoxide Attenuation Potential of Polyphenolics from *Bauhinia variegate. Asian J. Chem.,* 25(13) 7125-7130 (**Impact factor 0.253**)
62. Kousar, F., S. Nosheen, S. N. Zahra, S. Kousar and **N. Jahan**. 2013. Synthesis and Biological Activity of Important Phenolic Mannich Bases. *Asian J. Chem*., 25 (1):59-62**. (Impact factor 0.253)**
63. Jahan, N., Khalil-ur-Rahman, S. Ali and M. Rafiq Asi. 2013. Phenolic Acid And Flavonol Contents Of Gemmo-Modified And Native Extracts of Some Indigenous Medicinal Plants. *Pak .J. Bot*. 45(3): 1515-1519, (**Impact factor 0.872)**
64. Hamid, M., Khalil-ur-Rahman and **N. Jahan**. 2013. Cardioprotective and Antilipidemic Effect of Gemmotherapeutically Treated *Glycyrrhiza glabra* against Isoproterenol Induced Myocardial Injury. *Europ J. Med. Plants*, 3(3): 405-421

65. **Jahan, N**., K. Rahman, S. Ali, M. R. Asi, and A. Akhtar. 2012 Cardioprotective potential of gemmomodified extract of *Terminalia arjuna* against chemically induced myocardial injury in rabbits. Pak Vet J., 32(2): 255-259. (**Impact factor 1.25).**
66. **Jahan, N.,** K. Rehman, S. Ali and I. A. Bhatti. 2012. Cardioprotective and Antilipidemic Potential of *Cyperus rotundus* in Chemically Induced Cardiotoxicity. Int. J. Agric. Biol., 14: 989–992 (**Impact factor 0.948)**
67. Aslam, S., **N. Jahan**, S. Ali and Khalil-ur-Rahman. 2012. An Innovative Microwave Assisted Extraction and Antioxidant Potential of Polyphenol from Different Parts of *Ocimum sanctum*. J Med Plant Res., 6(11); 2150-2159
68. Kousar, F., **N. Jahan**, K. Rehman and S. Nosheen. 2012. Cardioprotective Potential of *Coriandrum sativum.* Bioscience Research, 1(1): 1-6.
69. M. Meraj1, Khalil-ur-Rahman, A. Jamil, M. Ashraf, M. I. Rajoka, S. Javed and **N. Jahan**. 2012. *Bacillus subtilis* Improvement through Uv and Chemical Mutagenesis for Indigenously Hyper produced Urate Oxidase. Pak. J. life soc. Sci., 10(2): 123-129. (HEC Recognize)
70. **N. Jahan,** K. Rehman, S. Ali and I. A. Bhatti. 2011. Antioxidant activity of gemmotherapeutically treated indigenous medicinal plants. Asian Journal of Chemistry, 23(8);3461-3470.**(Impact Factor 0.23)**
71. **Jahan, N.,** K. Rehman, S. Ali and I. A. Bhatti. 2011. Antimicrobial activity of gemmomodified extracts of *Terminalia arjuna and Euphorbia tirucalli*. Int. J. Agric. Biol., 13(6): 1001–1005. **(Impact factor 0.948).**
72. Hina S, K Rehman, Z. H Dogar, **N. Jahan**, M. Hameed, Z. I Khan, K. Ahmad, K. Mukhtar and E. E Valeem. 2010. Cardioprotective effect of gemmotherapeutically treated *withania somnifera* against chemically induced myocardial injury. Pak. J. Bot., 42(2): 1487-1499. **(Impact Factor 0.947)**
73. Aslam K., M, K, Khosa, **N. Jahan** and S. Nosheen. 2010. Synthesis and applications of coumarin. Pak. J. Pharm. Sci., 23, (4); 449-454 **(Impact Factor 1.13)**
74. N. Zahra, **N. Jahan,** S. Nosheen and K. Rehman. 2011. Antimicrobial activity of aqueous, ethanolic extracts and crude extracted phytoconstituents of *Nigella sativa* seeds. 8(1): 19-25; Bioscience Research,8(1): 19-25

75. Kousar, S., N**. Jahan**, K. Rehman and S. Nosheen. 2011. Antilipidemic activity of *Coriandrum Sativum.* Bioscience Research, 8(1): 8-14.
76. Kiran, S. **N. Jahan**, S. Nosheen, and K. Rehman. 2005. Mineral profile *of Fennel vulgare and Eugenia caryophyllus*. Indus J. of Biol. Sci. 2(2):246-349
77. Akhtar,S., **N. Jahan**, R. Nadeem. 2005. Mineral composition of Coriander and cardamom. Indus J. of Biol. Sci. 1(2):69-73
78. Amjad, A. **N. Jahan** and S. Nosheen. 2004. Detremination of Mineral Composition (Na, K, Ca Mg ,N S ,Cl) of Zira, Sonth And Kalwangi. Indus J. of Biol. Sci.1 (2):93-96.
79. Majeed, H., **N. Jahan**, F. Hussain, and M. Usman. 2004. Diuretic activity of *Fumairia Officinalis* (Shahtara) and *Foeniculum Vulgare* in goats. Indus J. of Biol. Sci.1(2):89-95
80. Rehman, K. **N. Jahan**, M. A. Zia and N. Farah. 2002. Physiochemical Characteristics of drinking water of Faisalabad. Indus journal plant Sci.1(4):364-366
81. **Jahan N**., R. Ahmad and F. Hussain. 2002. Evaluation of diuretic activity of *Achyranthes aspera* in goats. Pakistan Vet. J. 23(3): 124-127.

Book Chapters

1. Nazish Jahan and Khalil-ur-Rahman. 2020. Cold Pressed Oils Green Technology, Bioactive Compounds, Functionality, and Applications. Cold pressed capia pepper (Capsicum annuum L.) seed oil. ISBN 978-0-12-818188-1 Pages 439-447. Elsevier Inc
2. Nazish Jahan. 2023. Handbook of Coriander (Coriandrum sativum), Chemistry, Functionality and Applications. Pharmaceutical Application of Coriander. ISBN 97810032069333. DOI. 10.1201/9781003204626. Pages 187-191.CRC Press Tylor and Francics group.
3. Nazish Jahan. Applied Chemistry, pp. 126-148. 2017. The Caravan Book House, Lahore, Pakistan. Editor, Dr. Haq Nawaz Bhatti
4. Nazish Jahan. Advanced Organic Chemistry, pp. 167-263. 2014. The Caravan Book House, Lahore, Pakistan. Editor, Dr. Haq Nawaz Bhatti.
5. Khali-ur-Rahman and Nazish Jahan. Development of Silymarin Extraction Technology, from Milk Thistle. pp. 357-360. 2014. 101 Innovative Catalog, Technologies for Commercialization (2016). University of Agriculture, Faisalabad. Editor; Prof. Dr. Iqrar Ahmad Khan. ISBN: 978-969-7705-16-0.

Other Scholarly Activities

i): Reviewer of Research Papers:

i. Journal of Alternative and Complementary Medicines
ii. Pharmaceutical Biology
iii. Natural Product Research
iv. International Journal of Agricultural Policy and Research
v. British Journal of Pharmaceutical Research
vi. Molecule

ii): Outreach Activity:

Actively involved in the Capacity Building Program of Complementary and Alternative Medical Practitioners.

iii): Demonstration:

Demonstration of production technology of milk thistle to farmers and complementary and alternative medical practitioners and extraction of silymarin from milk thistle seed to herbal pharmaceutical manufacturer through seminars/ workshop at spot was made many times.

iv): Award

Received an "Innovation award, 2015 for Natural Product for Hepatitis"

v): Short Course:

Taught classes to the participants of Lab. Technicians and Lab. Attendants short courses, offered by department of Chemistry and Biochemistry

Advisory and Administrative Services

1. Coordinator; evening program of the Department (2014-2018)
2. Secretary; staff meeting of the Department (2016-2018)
3. Member; Faculty board, faculty of Sciences (2014-2017)
4. Student Advisor of the Department of Chemistry (2015-2017)
5. Member; Chemical Society of Pakistan

6. Time table incharge of the Department

Workshops/Training Courses Organized

1. Participated as Member organizing Committee Two days symposium on "Writing Science and Leveraging Scientific research" held on 2-3 March 2022, at Department of Chemistry, University of Agriculture Faisalabad.
2. Participated as Member organizing Committee "Frontier in Computational Chemistry "held on 4-5 July 2022, at Department of Chemistry, University of Agriculture Faisalabad.
3. Member organizing committee of awareness seminar about Dengue held on 10th November 2022. Ripah International university Faisalabad
4. Organized as Organizing secretory International Conference of "Chemistry, Materials & Technology" (CMT-2023) held on 15-16 March 2023 at Department of Chemistry University of Agriculture, Faisalabad, Pakistan
5. Organized 11th National Seminar for Capacity Building of CAM Practitioners entitled "Green Combination: blockade for Hypertension & Cardiac dysrhythmia" held on 10th October, 2017 at Department of Biochemistry, University of Agriculture, Faisalabad.
6. Organizing team in "Space Education & Awareness Program" held under World Space Week 2017, organized by SUPARCO with collaboration of University of Agriculture, Faisalabad.
7. Member organizing committee in 2nd Workshop on "Advanced chemical techniques in Natural and Applied Sciences" held on 18-20 September, 2017 organized by Department of Chemistry, University of Agriculture Faisalabad.
8. Member organizing committee of Two day's workshop on "Advanced spectroscopic techniques for characterization of organic compounds" held on 15-16th August 2017 at Department of Chemistry & Central Hi-Tech Laboratory, University of Agriculture, Faisalabad-Pakistan.
9. Member, organizing committee of seminar on "Tibb Nature & Sciences" held on 21st August, 2016 at University of Agriculture, Faisalabad
10. Member organizing committee in "International Conference of Biochemistry, Biotechnology and Biomaterials." held on 22-24th February 2016 at Department of Biochemistry, University of Agriculture, Faisalabad.

11. Organized one day Seminar "Importance and cultivation of medicinal plants" on 23th November 2015 at University of Agriculture Faisalabad.
12. Member organizing committee in "Training Workshop on Advanced chemical techniques in natural and applied Sciences" on 10-12th September 2015. Organized by Department of Chemistry, University of Agriculture Faisalabad
13. Organized one day National Seminar on "Capacity Building of Complementary and Alternative Medical Practitioners and Demonstration Activity of Silymarin Extraction" on 27 February, 2015 at University of Agriculture, Faisalabad.
14. Member organizing committee for holding "International conference of biochemical and Chemical Sciences (ICBCS)" held on 24-26, February, 2014 at Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad.
15. Organized as coordinator "5th One day national seminar on Capacity Building of Alternative and Medical Practitioners" in Dept. of Chemistry and Biochemistry, University of Agriculture, Faisalabad on 29 December, 2012.
16. Member, organizing committee in the Workshop on "Imparting Practical Training in Molecular and Biochemical Techniques". Organized by Department of Chemistry and Biochemistry, University of Agriculture Faisalabad. 27 November to1 December 2012.
17. Organized one-day National Seminar on Capacity building of Alternative Medical Practitioners. 11 June 2011.

Participation in Seminars/ Conferences/ Workshops

1. Participated as Guest Speaker "Role of Biochemical techniques in applied and Allied Sciences" held on 30August -15 September 2021, at Riffah International University Faisalabad Campus
2. Participated as Keynote speaker in Workshop on "Discovering the innovative progressions in catalysis" Held on 20th December 2021, at Department of Chemistry, University of Agriculture Faisalabad.
3. Poster presentation in "Innovation in Chemistry and Physics" held on 14-15 March 2022. Department of Chemistry University of Education Faisalabad.
4. Poster presentation in "International conference on interdisciplinary Research innovation" held on 26-28-October. 2022. at UAF community College PARS.

5. Participated in training on “effective pedagogical strategies for lecturers and assistant professor” being organized by QEC UAF From 17-1-23to18-1-23.
6. Participated as Speaker “21st International 1st Inter-Islamic 23rd National Chemistry Conference on Chemical Sciences Technology, Innovation, and Sustainability” held on 23-25, October 2023, at Department of Chemistry Quid I-Azam University Islamabad Pakistan.
7. Participated in Nano-Tech Meeting on waste water treatment held on May 3rd 2019 at University of Agriculture, Faisalabad.
8. Participated one day Symposium on “Nanomedicine Current Scenario and Future perspective. “August 6, 2019 at University of Agriculture, Faisalabad.
9. Participated in international Symposium on “New Frontiers of Physics” October, 19 2018 at University of Agriculture, Faisalabad.
10. Participated in 2nd t national conference on bioactivity of phytochemicals (NCBP) held on 13-15th November 2018, IMBB/CRiMM, UoL, Lahore
11. Participated in International conference on natural sciences at the interface of climate Change, Food security and Sustainability (NSICFSS) held on 24-26th October, 2018 in Uok AJ&K Pakistan
12. Participated in 29th National and 17th International Chemistry Conference held on 6-8 September 2018 in University of Peshawar
13. Attended international Symposium on “New frontiers of Physics” held on 19th October 2018 in Department of physics University of Agriculture Faisalaabad.
14. Participated in 2nd international Conference of Biochemistry, Biotechnology and Biomaterial held on 9-11 december 2018 in Department of Biochemistry, University of Agriculture Faisalabad
15. Participated, in National Workshop entitled “Value added food products: issues and opportunities for entrepreneurs” held on 19 January 2018 at University of Agriculture, Faisalabad
16. Member, organizing committee and Resource person in National Workshop entitled “Advanced chemical techniques in natural and applied sciences” held on 18-20 September 2017 at University of Agriculture, Faisalabad.

17. Participated, in National Conference for poster presentation on "Formulation and Biological Evaluation of *Silymarin marianum* Phytosome as novel drug delivery system" in "Bioactivity of Phytochemicals (NCBP)" held on 4-6 October, 2017, organized by The University of Lahore, Lahore.
18. Participated, in National Workshop entitled "Statistical methods for researchers using R" held on 9-11th August 2017 at University of Agriculture, Faisalabad.
19. Member, organizing committee in "International Conference of Biochemistry, Biotechnology and Biomaterials." held on 22-24th February 2016 at Department of Biochemistry, University of Agriculture, Faisalabad
20. Participated in National Workshop entitled "Organic Food and Health" held on 29 August, 2016 at University of Management Lahore.
21. Attended course "Crystal Structure Determination by X-Ray Crystallography" Organized by Department of Chemistry, University of Agriculture, Faisalabad, held on 6 November to 2 December 2016.
22. Member, organizing committee in "Training Workshop on Advanced Chemical Techniques in Natural and Applied Sciences" on 10-12th September 2015. Organized by Department of Chemistry, University of Agriculture, Faisalabad
23. Participated in "International conference of Biochemical and Chemical Sciences (ICBCS)" held on 24-26, February 2014 at Department of Chemistry and Biochemistry, University of Agriculture Faisalabad
24. Attended two days' work Shop on "Lead to Success" held on 7th to 8th March, 2014 at University of Agriculture Faisalabad
25. Attended one week Training on "Writing Technical Proposal for Grants under ALP" on 2nd to 6th June 2014 at University of Agriculture Faisalabad.
26. Attended one day workshop on "developing industry driven technologies" held on 27th September, 2014 at University of Agriculture Faisalabad.
27. Attended international workshop on "Renewable energy technologies in Pakistan" held on 16-18 December, 2014 at University of Agriculture Faisalabad
28. Participated in 12th International and 24th Nation Chemistry conference held on 28-30 October 2013 in Institute of Chemical sciences Bahaudin Zakariya University Multan.

29. Attended one day international seminar on “Polyamines in Cell Proliferation and Its Use as Possible Marker in The Diagnosis of Cancer” held on 30th March 2013 in new senate hall University of Agriculture Faisalabad
30. Participated as Resource Person in 10- Days Farmer Training on Agriculture &Live stock at University of Agriculture Faisalabad. June 5-14, 2012.
31. Participated as Resource Person in 5th One day National Seminar on Capacity Building of Complementary and Alternative Medical Practitioners, Dept. Of Chemistry and Biochemistry, University of Agriculture Faisalabad. 29 Dec 2012.
32. One day workshop on Self-Assessment. Organized by Quality Enhancement Cell, University of Agriculture Faisalabad. 8 Dec 2012
33. Participated in two day Workshop on Biodiesel Technology Organized by Dept. Of Chemistry, Sargodha University. Nov 5-6 2012.
34. 8th international and 20th National Chemistry conference held on Feb 15-12, 2010 in Department of Chemistry and Biochemistry Quaid –i-Azam University Islamabad
35. 2nd International Seminar on Medicinal plants. January 14-16, 2010 in Lahore College for women Lahore
36. Recent trends in Chemistry held on January, 14-16 2010 in Lahore College for women Lahore
37. Workshop on implementation of biosafety products, held on May 14, 2011in CABB, University of Agriculture Faisalabad
38. A six Day workshop on Molecular and Biochemical Techniques held on June 8-14, 2011 in Dept. of Chem and Biochem, University of Agriculture Faisalabad
39. One day National Seminar on Capacity Building of Complementary and Alternative Medical Practitioners held on June, 11 in 2011 Dept. of Chem and Biochem, University of Agriculture Faisalabad
40. One day seminar on Chemistry for the wellbeing of Mankind held on June 15, 2011 in Dept. of Chem and Biochem, University of Agriculture Faisalabad
41. One day Seminar on Abuse of Narcotics among Young Generation held on April 20, 2011 in PARS Sub Campus University of Agriculture Faisalabad
42. 22nd national and 10th international chemistry conference held on Nov 21-23 2011 in Department of Chemistry and Biochemistry University of Agriculture Faisalabad

43. 1st International Chemistry Conference on Recent Challenges in Chemistry. Held on 1-3 November 2006 in Department of Chemistry, Government College University Faisalabad
44. International Chemistry conference on Recent Advances in Chemistry. 2-3Nov 2007. Lahore College for women Lahore.
45. International Seminar on Medicinal plants Isolation and Application. May 21-23 2008. Lahore College for women Lahore.
46. International seminar on integrated medicines. August 6 2008. University of Agriculture Faisalabad.

Participation in Trainings

1. Participated and Qualified in research orientation program on "Research Methodologies and Analytical Techniques" held on 15-6-2004 to 30-6-2004 in University of Agriculture Faisalabad."
2. Participated and Qualified in 33rd Postgraduate Training Course on Nuclear and other Advanced Techniques in Agriculture and Biology", held on 5-12-2005 to16-12-2005 in Nuclear Institute of Agriculture and Biology, Faisalabad.
3. Participated and Qualified the Staff development Course under National Academy of Higher Education commission held on 9-5-2005 to 4-6-2005 in University of Agriculture Faisalabad.

Abstract/Paper in the scientific Proceedings and Seminars

1. Nazish Jahan, Kousar Rasheed, and Riffat Fatima. Lantana camara mediated synthesis of zinc oxide nanoparticles and assessment of its pesticidal and antibacterial activity. International conference on interdisciplinary Research innovation" held on 26-28-October. 2022. at UAF community College PARS

2. Kousar Rasheed, Nazish Jahan. Environmentally Friendly Green Approach for The Synthesis of Zinc Oxide Nanoparticles Using Seeds Extract of Silybum marianum and Evaluation of Its Biological Activities. International Conference of "Chemistry, Materials & Technology"

(CMT-2023) held on 15-16 March 2023 at Department of Chemistry University of Agriculture, Faisalabad, Pakistan

3. Nazish Jahan, Huma shamshad, Arooj Fatima. Formulation and Characterization of Nanosuspension of Mentha piperita (mint) and Evaluation of its Pesticidal potential. International Conference of "Chemistry, Materials & Technology" (CMT-2023) held on 15-16 March 2023 at Department of Chemistry University of Agriculture, Faisalabad, Pakistan.
4. Nazish Jahan. Nano formulation of capsicum frutescens extract with enhanced anti-microbial and pesticidal potential. 21st International 1st Inter-Islamic 23rd National Chemistry Conference on Chemical Sciences Technology, Innovation, and Sustainability" held on 23-25, October 2023, at Department of Chemistry Quid I-Azam University Islamabad Pakistan.

5. Sultana B., S. Yaqoob, **N**. **Jahan,** S. Jamil and S. Khan. 29th National and 17th International Chemistry Conference "Chemical Sciences for Sustainable Development" held on 6-8 September 2018 in Institute of Chemical Sciences University of Peshawar, Pakistan.
6. Touqeer ,I. S, **N. Jahan**, Khalil-ur-Rahaman and S. Jamil 2018 Formulation characterization and invitro biological evaluation of Raualvolfia serpentine Nano suspension. 2nd t national conference on bioactivity of phytochemicals (NCBP) held on 13-15th November 2018, IMBB/CRiMM, UoL, Lahore.
7. Asif, M., **N. Jahan**, Khalil-Ur-Rahman, Zill-e-Huma and Z. Khadim.2018. Evaluation of nitrification inhibition potential of Thiourea, 1,2,4-triazole and acetohydroxamic acid in wheat and rice crop. Abstracts Book ICBBB-2018, December 09-11, 2018, University of Agriculture, Faisalabad, Pakistan.
8. Munaza, **N. Jahan**. 2018 Formulation of *Amomum subulatum* Nanosuspension and Evaluation of Angiotensin Converting Enzyme (ACE) Inhibition Potential. Abstracts Book ICBBB-2018, December 09-11, 2018, University of Agriculture, Faisalabad, Pakistan.
9. Sajid, S., **N. Jahan**, Khalil-Ur-Rahman, R. Ahmad and Zill-e-Huma. Synthesis, characterization and biological evaluation of quercetin-copper (ii) complex. 1st National conference on bioactivity of phytochemicals (NCBP) 4-6 October, 2017 at Institute of

Molecular Biology and Biotechnology (IMBB)/ Center for Research in Molecular Medicine (CRiMM), The University of Lahore, Lahore.

10. Zill-e-Huma, **N. J**ahan, Khalil-Ur-Rahman and F. Kousar. Formulation and Biological Evaluation of *Silymarin marianum* Phytosome as novel drug delivery system. 1st National conference on bioactivity of phytochemicals (NCBP) 4-6 October, 2017 at Institute of Molecular Biology and Biotechnology (IMBB)/ Center for Research in Molecular Medicine (CRiMM), The University of Lahore, Lahore.
11. Jabeen, Z., Khalil-Ur-Rehman, B. Sadia, **N. Jahan**, S. Hina and Umm-e-Habiba. Screening of in vitro cultures of *Moringa oleifera* for hyper-production of peroxidase under salt stress. First National Conference on Emerging Trends in Bioinformatics and Biosciences held on July 20-22, 2017 at Department of Bioinformatics, Hazara University, Mansehra KP.
12. Babar, Z., Khalil-Ur-Rehman, H. Zafar and **N. Jahan**. Protective effect of *Silybum marianum* seeds against gentamicin induced nephrotoxicity in rabbits. First National Conference on Emerging Trends in Bioinformatics and Biosciences held on July 20-22, 2017 at Department of Bioinformatics, Hazara University, Mansehra KP.
13. Hina, S., Khalil-Ur-Rehman, **N. Jahan**, N. Afsheen, Z. Jabeen and Umm-e-Habiba. In vitro antioxidant and hepatoprotective potential of *Moringa oleifera* using liver slice culture. First National Conference on Emerging Trends in Bioinformatics and Biosciences held on July 20-22, 2017 at Department of Bioinformatics, Hazara University, Mansehra KP.
14. Afsheen, N., Khalil-Ur- Rehman, **N. Jahan**, Zill-e-Huma and S. Hina. In vitro and in vivo screening of natural angiotensin converting enzyme (ACE) inhibitors for treatment and management of hypertension. First National Conference on Emerging Trends in Bioinformatics and Biosciences held on July 20-22, 2017 at Department of Bioinformatics, Hazara University, Mansehra KP.
15. **Jahan, N**. Umm-e-Habiba and Khalil-ur-Rahman. Protective effect of *Silybum marianum* and Aleo Barbadenin against gentamicin induced nephrotoxicity. 26th National and 14th International Chemistry Conference held on October 5-8, 2015 in Department of Chemistry, Islamia University Bahawalpur.
16. Amna, A, **N. Jahan** and Khalil-Ur Rahman. Formulation and Physical Characterization of Silymarin Emulsions and Suspensions. "International Conference of Biochemistry,

Biotechnology and Biomaterials." held on 22-24th February 2016 at Department of Biochemistry, University of Agriculture, Faisalabad

17. Sahar. M., **N. Jahan** and. Khalil-ur-Rahman. Comparative Antimicrobial and Antibiofilm Activity of Fresh Rose Petals and their Waste. "International Conference of Biochemistry, Biotechnology and Biomaterials." held on 22-24th February 2016 at Department of Biochemistry, University of Agriculture, Faisalabad.
18. S. Aslam, **N. Jahan**, Khalil-Ur-Rahman and F. Zafar. Antioxidant activity of fifteen combinations from four medicinal plants. Poster presented in "International conference of biochemical and Chemical Sciences (ICBCS)" held on 24-26, February 2014 at Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad.
19. **N. Jahan**, F. Kousar, Khalil-Ur-Rahman and Nazia. 2014 Cardioprotective potential of *Cassia fistula* against chemically induced cardiac injury. Poster presented in "International conference of biochemical and Chemical Sciences (ICBCS)" held on 24-26, February 2014 at Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad.
20. F. Zafar, **N. Jahan** Khalil-Ur-Rahman and S. Aslam. Cardio-Protective Potential of Herbal Combination on Salbutamol Induced Cardiotoxicity in Rabbits. Presented in "International conference of biochemical and Chemical Sciences (ICBCS)" held on 24-26, February 2014 at Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad.
21. Zafar F., **N. Jahan**, Khalil-ur-Rahman. 2013. Synergetic antioxidant potential of Herbal mixture. 12th International and 24th Nation Chemistry conference held on 28-30 October 2013 in Institute of Chemical sciences Bahaudin Zakariya University Multan.
22. Aslam S., **N. Jahan**, Khalil-ur-Rahman. Cardioprotective effect of herbal combination against salbutamole induced cardiotoxicity. 12th International and 24th Nation Chemistry conference, held on 28-30 October 2013 in Institute of Chemical sciences Bahaudin Zakariya University Multan.
23. **Jahan, N.** and K. Rahman. 2012. Gemmotherapy; Emerging Therapy for Immunomodulators and Infectious Diseases. The First International Biology Congress in Kyrgyzstan. 24-26 September 2012. Kyrgyzstan-Turkey Manas University.
24. **Jahan, N**. and Khalil-ur-Rahman. Gemmotherapy: A New Way to Treat Cardiac Disease. 23nd national and 11th international chemistry conference held on October 15-17, 2012 in National Center of Excellence in Physical Chemistry University of Peshawar.

25. Rasool, M., **N. Jahan**, F. Zafar, K. Rahman and S. Aslam. Investigation of Phytoconstituents and Mineral Contents of Gemmomodified and Native Part of Two Medicinal Plants. 23nd National and 11th International chemistry conference held on October 15-17, 2012 in National Center of Excellence in Physical Chemistry University of Peshawar
26. Maqbool, S., **N. Jahan**, and S. Aslam, K. Rahman and F. Zafar. 2012. Evaluation of Free Radical Scavenging Potential of Different Extracts of *Lipidium sativum* by Employing Different Solvents and Techniques. 23nd National and 11th International Chemistry Conference held on October 15-17, 2012 in National Center of Excellence in Physical Chemistry University of Peshawar.
27. **Jahan, N.**, K. Rehman, S. Ali and I. A. Bhatti. 2011. Immunomodulatory and cardioprotective potential of polyphenols rich gemmomodified extract of *Terminalia arjuna*. Presented in 22nd national and 10th international chemistry conference held on Nov 21-23, 2011 in Department of Chemistry and Biochemistry University of Agriculture Faisalabad
28. Sharif, T., S. Nosheen, **N. Jahan** and K. Rehman. 2011. Antioxidant and free radical scavenging activity of gemmomodified *Mentha arvensis*. Presented in 22nd national and 10th international chemistry conference held on Nov 21-23 2011 in Department of Chemistry and Biochemistry University of Agriculture Faisalabad
29. Aslam, S., **N. Jahan**, S. Ali and K. Rehman. 2011. Application of improved technique for better extraction of polyphenols and assessment of antioxidant potential. Presented in 22nd National and 10th International chemistry conference held on Nov 21-23 2011 in Department of Chemistry and Biochemistry University of Agriculture Faisalabad
30. Hina, S., K. Rehman, **N. Jahan** and M. Shahid. 2011. Evaluation of cardioprotective activity of gemmomodified herbal mixture against chemically induced myocardial injury. Presented in 22nd national and 10th international chemistry conference held on 21-23Nov 2011 in Department of Chemistry and Biochemistry University of Agriculture Faisalabad

List of Poster Presentations

1 Sajid, S., N. Jahan, Khalil-Ur Rahman, R. Ahmad and Zill-e-Huma. Synthesis, characterization and biological evaluation of Quercetin copper(ii) complex. 1st national conference on bioactivity of phytochemicals (NCBP) held on 04-06 october 2017, IMBB/CRiMM, UoL, Lahore.

2 Zill-e-Huma, N. Jahan, Khalil-Ur Rahman and F. Kousar. Formulation and biological evaluation of Silymarin marianum phytosomes as novel drug delivery system. 1st national conference on bioactivity of phytochemicals (NCBP) held on 04-06 october 2017, IMBB/CRiMM, UoL, Lahore

3 Zafar, F., **N. Jahan**, K. Rehman, W. I. Zafar and F. Fatima. Comparative evaluation of phytochemicals, minerals and vitamin contents of gemmomodified and natively used extracts of two indigenous medicinal plants. Presented in 22nd national and 10th international chemistry conference held on 21-23 Nov 2011 in Department of Chemistry and Biochemistry University of Agriculture Faisalabad

4 Anwar, S., **N. Jahan**, K. Rehman and S. Ali. Comparison of different techniques for extraction of polyphenols and evaluation of antioxidant activity in *Bauhinia variegate.* Presented in 22nd national and 10th international chemistry conference held on 21-23Nov 2011 in Department of Chemistry and Biochemistry University of Agriculture Faisalabad

5 Akhter, A., K. Rehman, **N. Jahan,** F. Khursheed and M. Wahid. *Evaluation* of anthropometric indicators with Hb levels, blood glucose levels ESR and BMR as risk factors for CVD onset. Presented in 22nd national and 10th international chemistry conference held on 21-23Nov 2011 in Department of Chemistry and Biochemistry UAF

6 Wahid, M., K. Rehman, **N. Jahan,** F. Khursheed and A. Akhter. The effect of hydroquinone on soil urease activity in rice crop. Presented in 22nd National and 10th international chemistry conference held on 21-23 Nov 2011 in Department of Chemistry and Biochemistry University of Agriculture Faisalabad.

List of Students Supervised

i) PhD Students under Supervision

Sr. No	Students Name	Topic of research
1.	Nosheen Mujtaba (2002-ag-1952)	Isolation and evaluation of peptides from green resources as ACE inhibitor (Thesis submitted).
2.	Fareeha (2001-ag-622)	Extraction and evaluation of secondary metabolites as green angiotensin converting enzyme (ACE) inhibitor (Completed).
3.	Fatiqa Zafar (2009-ag-1203)	Formulation and characterization of cardioprotective nanosuspesion from indigenous medicinal plants (Completed)
4.	Saba Aslam (2009-ag-1075)	Nano formulation of polyphenolic enriched herbal extracts for the enhancement of bioactivity (Thesis submitted).
5.	Fareeha Kousar (2006-ag-695)	Preparation and characterization of nano herbal extracts with enhanced bioavailability and hepatoprotective activity ((Thesis submitted)).
6.	Humaira (2013-ag-95)	(Synopsis defended and Research in progress)
7.	Lubna Hanif, (2012-ag-989).	Nano formulation of polyphenolic enriched herbal extracts for the enhancement of bioactivity
8.	Arooj Fatima 2018-ag-4031	Preparation and characterizations of phytochemical based green nanoformulation for ecofriendly pest management
9.	Huma Shamshad 2018-ag-4007	Fabrication and characterization of green nanobiopesticides as eco-friendly approach for pest control
10.	Kousar Rasheed 2017-ag-561	Fabrication, characterization, and biological applications of biomimic FexOx+1-graphene/graphene oxide based nanozymes
11.	Amna saleem 2017-ag-517	Synthesis, characterization of biomimic M×O×+1-graphene/graphene oxide based nanozymes and evaluation of pharmaceutical applications

ii) M.Phil./ M.Sc. Students Supervised

Sr.#	Degree	Year	Name of Student	Title of Thesis
1.	M.Sc	2003	Ammara Amjad	Determination of mineral composition (S,Na,K,Ca,Mg) in *Cuminum lynelom(* zira),*Nigella sativum*(Kalwagi) and *Zinger officinalis(sonth)*

2.	M.Sc	2004	Sahnaz Akhtar	Mineral composition of Coriander and cardamom
3.	M.Sc	2004	Shumaila Kiran	Mineral profile *of Fennel vulgare and Eugenia caryophyllus*
4.	M.Sc	2004	Tahir Nadeem	Effect of moderator on the tone of reactive dyes having Cynuric chloride as reactive base
5.	M.Sc	2004	Maria Shar	Level of trace and mineral metal in *cinanamon zeylanicum* and *Allium capa* Collected from different areas from Punjab
6.	M.Sc	2005	Iram Rasool	Effect of Mordant on dying behavior of Accacia Dyes (*Acaccia nilotica*)
7.	M.Sc	2005	Fakhra Jamil	Phytochemival Screening and determination of mineral in zaira siah and dar chini
8.	M.Sc	2005	Marium Maqbool	Phyto-constituents and mineral investigation of medicinal plants *Rheum emodi and Rheum palamatum*
9.	M.Sc	2005	Kalsoom Wahid	Analysis of traditionally used medicinal plants *piper cubba and Zizypus vulgare* for their phytochemical constitutes and mineral composition
10.	M.Sc	2005.	Munazza Akram	Synthesis of reactive red with H-Acid as basic nucleus
11.	M.Sc	2005	Irshad Ahmad	Synthesis and Dyeing performance of mono azo dye based on cyanuric chloride nucleus
12.	M.Sc	2006	Asma Mehboob	Antimicrobial activity of *Albizia lebback*
13.	M.Sc	2006	M. Irfan	Phytochemical screening of *Rheum palamatum*(Revand Khati) and studies on its hepato protective potential
14.	M.Sc	2006	Saira Bano	Synthesis of bi functional reactive dyes
15.	M.Sc	2006	Afsheen Anwar	Antimicrobial activity of *Chenopodium album*
16.	M.Sc	2007	Syeda Nida Zohra	Antimicrobial activity of *Nigella sativa*(Kalwangi)
17.	M.Sc	2007	Raffiqa Fardus	Antimicrobial activity of various extracts of *Elactoria cardamum*
18.	M.Sc	2007	Quart –ul-Ain	Antimicrobial activity of fresh leaves of *corrindar sativum*
19.	M.Sc	2007	Afzal Ashraf	Antimicrobial activity of aqueous and ethanolic extracts of *Fumaria indica*
20.	M.Sc	2007	Shahzad Tariq	Antimicrobial activity of *Banica olecearea* (Band Gobi)
21.	M.Sc	2008	Maria Noreen	Investigation of phytochemicals & antimicrobial activity of *Terminalia bellerica.*
22.	M.sc	2008	Sadaf Manzoor	Study of antimicrobial potential of *Cinnamomum tamal*
23.	M.Sc	2008	Shahzadi Fahmeeda Ashraf	Antimicrobial activity of *Emblica officinalis*
24.	M.Sc	2008	Umara Rahim	Antimicrobial activity of *Euphorbia hirta*(Asthma Herb)
25.	M.Sc	2008	Aneeqa Farooq	Antimicrobial activity & phytochemical activity of *Ocimum Sanctum*
26.	M.Sc	2008	Zill-i-Huma	Determination of phytochemical and mineral composition of *Cyprus rotundus*

27.	M.Sc	2008	M.Asif Javed	Determination of phytochemical and mineral composition of oat
28.	M.Sc	2008	Fareeha Kousar	Phytochemical Screening and cardioprotective potential of *Corriandrum sativum* against chemically induced cardiac injury
29.	M.Sc	2008	Zahid Rasheed	Evaluation of phytochemical and antimicrobial activity of Dill Seeds
30.	M.Sc	2008	Iffat Batool	Phtochemical screening and antimicrobial activity of *Rheum palmatum*
31.	M.Sc	2008	Sumaira Kousar	Antilipidemic activity of *Corriandum sativum*
32.	M.Sc	2008	Tehmina Anjum	Mineral composition and cardioprotective potential of *Cassia fistula*
33.	M.Sc	2008	Kanwal Mustafa	Antimicrobial activity of *Protulaca oleraca*
34.	M.Sc	2009	Ammara Mariam	Effect of various extraction conditions on total polyphenol& their antioxidant activity in Banana peels
35.	M.Sc	2009	Mahwish Tariq	Determination of antifungal activity of Rose
36.	M.Sc	2009	Kinza Aslam	Synthesis and application of Coumarin
37.	M.Sc	2009	Hina Naheed	Evaluation of antioxidant activity of Rose
38.	M.Sc	2009	Anam Sajid	Free redical scavenging activity of geemotherapeutically treated *Terminalia bellerica*
39.	M.Sc	2009	Mohsin Ali	Phytocheimical composition & mineral analysis of *Physeolus aureus*(Dall mung)
40.	M.Sc	2009	Bushra Siddique	Determination of phytochemical & mineral composition of Banana(*Musa paradisisca*)
41.	M.Sc	2009	Arfa Sajid	Free radical scavenging activity of gemmotherapeutically treated *Glycyrrhiza glabra*
42.	M.Sc	2009	Sana Munir	Antimicrobial activity of Banana peels
43.	M.Sc	2009	M.Amir shehzad	Cardioprotectiv effect of polyphenolic fraction of *Terminalia bellerica*
44.	M.Sc	2009	Asifah Aslam	Effect of various extraction condition on the antibacterial activity of *Glycyrrhiza glabra*
45.	M.Sc	2009	Nazia Ahmad Ali	Determination of antifungal activity of *glycyrriza glabra*
46.	M.Sc	2009	Samina Sharif	Determination of antifungal activity of banana peel
47.	M.Sc	2009	Maqsood Ahmad	Antilipidemic activity of *Terminalia Ballerica*
48.	M.Sc	2009	Hira Mahfooz	Synthesis and Application of phenolphthalein
49.	M.Sc	2009	Asifa Aslam	Effect of various extraction condition on the antibacterial activity of *glycyrriza glabra*
50.	M.Sc	2009	Muniba Akbar	Phytochemical activity of *Cassia fistula*
51.	M.Sc	2009	Maria Noreen	Investigation of phytochemical and antimicrobial activity of *Terminalia Ballerica*
52.	M.Sc	2010	Fozia Tabassum	Determination of phytochemicals & mineral profile vit.C potential of carrot.
53.	M.Sc	2010	Shabana Akhtar	Determination of phytochemicals & mineral profile of chick pea

54.	M.Sc	2010	Zunaira Rafiq	Antioxidant potential of gemmo modified plant of *fumaria indica*
55.	M.Sc	2010	Sidra Umbreen	Antioxidant potential of Gemmotherapeutically treated *Foeniculum vulgarc*
56.	M.Sc	2010	Nagina Kanwal	Antilipidemic effect of gemmo modified integrated herbal product
57.	M.Sc	2010	Ayesha	Evaluation of Antioxidant potential of gemmomodified extract of *Silybum marianum*
58.	M.Sc	2011	Saba Aslam	Extraction and antioxidant potential of polyphenols from *Osimum Basilicum*
59.	M.Sc	2011	Shumaila Anwar	Comparative evaluation of polyphenols and antioxidant potentialin different parts of *Bauhinaia variegate*
60.	M.Sc	2011	Fatiqa zafar	Comparative evaluation of phytochemicals , mineral and vitamins contents of gemmomodified and natively used extracts of two indigenous medicinal plants
61.	M.Sc	2011	Madiha Ghulam Rasool	Investigation of phytoconsituents and mineral contents of gemmomodified and natively used parts of two indigenous medicinal plants
62.	M.Sc	2011	Nadeem Arshad	Comparative phytochemical and mineral composition of gemmomodified and natively used parts of *Crinum asiaticum and cardia myxa*
63.	M.Sc	2011	Ambreen	Determination of total polyphenols and antioxidant potential of *Peganum harmala*
64.	M.Sc	2011	Sajida Maqbool	Comparative evaluation of total polyphenol and antioxidant activity in various extract of *Lepidium sativum*
65.	M.Sc	2011	Asad Bashir Noshai	Evaluation of caffeine and tannin contents of tea available in the market of Pakistan
66.	M.Sc	2012	Humaira Bashir 2010-ag-841	Effect of emerging gemmomodification method on polyphenol extraction and antioxidant activity of *Medicago sativa*
67.	M.Sc	2012	Abdul Dayan 2010-ag-1621	Comparative study of polyphenolic contents and antioxidant potential of *Citrullus colocynthis*
68.	M.Sc	2012	Memona Sehar 2010-ag 878	Comparative evaluation of polyphenolic contents and antioxidant potential of conventional and gemmomodified *Barlerica cristate*
69.	M.Sc	2012	Bilal Shafiq 2010-ag-224	Evaluation of caffeine and tannin contents of tea available in the market of Pakistan
70.	M.Sc	2012	Tuba Fazal 2010-ag-788	Assessment of microwave assisted extraction method in term of oxidation inhibitors contents and free radical inhibition capacity in extract prepared from bark and pods of *Accicia nilotica*
71.	M.Sc	2012	Rabia Tabbasum 2010-ag-867	Influence of microwave assisted extraction and conventially used extraction methods on yield and antioxidant potential of polyphenols from *Cinnamon tamala*

72.	M.Sc	2012	Tuba Afzal (2010-ag-788).	Assessment of Microwave assisted extraction method in terms of oxidation inhibitors contents and free radical inhibitor capacity in the extracts prepared from bark and pods of *Acacia nilotica*
73.	M.Sc	2012	Muhammad Bilal Shafiq	(2009-ag-224). Evaluation of Caffeine, Tannin and Amino acid contents of Teas available in the market of Pakistan.
74.	M.Sc	2012	Abdul Dayyan Ajmal (2010-ag-1621).	Comparative study of polyphenolic contents and antioxidant potential of *Citrullus colocynthis* extracts prepared with microwave assisted and conventional extraction method.
75.	M.Sc	2012	Humaira Bashir (2010-ag-841).	Effect of emerging modification method on polyphenolic extraction and antioxidant activity of *Medicago Sativa*
76.	M.Sc	2012	Rabbia Tabbsum (2010-ag-867).	Influence of microwave assisted and conventionally use extraction method on yield and antioxidant potential of polyphenol from *Cinnanomomum tamala*
77.	M.Sc	2012	Memona Sahar (2010-ag-878).	Comparative evaluation of polyphenolic contents and antioxidant potential of conventional and gemmo-modified extracts of *Barleria cristata*
78.	M.Phill	2013	Saba Aslam (2009-ag-1075).	Cardioprotective Prospective of Natural Products Against Induced Oxidative Stress In Animal Model
79.	M.Phill	2013	Fatiqa Zafar (2009-ag-1203	). Efficacy of combination of gemmo modified and herbal extract in treatment of chemically induced cardiotoxicity in rabbits
80.	M.Sc	2013	Yasmeen Akhtar (2011-ag-1196).	Studies on green extraction of polyphenols from *Chenopodium album* and their antioxidant potential
81.	M.Sc	2013	Uzma Kiran (2011-ag-536).	Green extraction of polyphenolic compounds from *Albizia lebbeck* and evaluation of its antiradical propective
82.	M.Sc	2013	Tooba fatima (2011-ag-1310).	Green Processes for extraction of polyphenols from *Picrorrhiza kurru* and their potential as oxidation inhibitor
83.	M.Sc	2013	Sabiha Batool (2011-ag-1376).	Evaluation of cardioprotective activity of polyphenol rich herbal combination
84.	M.Sc	2013	Nida Liaquat (2011-ag-782).	Phytochemical profile and Synergetic cardioprotective therapeutic potential of three indigenous medicinal plants
85.	M.Sc	2015	Zill-i-Huma, (2013-ag-92)..	Phytochemical, mineral profile and antihypertensive potential of *Rouwolfia serpentina*
86.	M.Sc	2014	Husnain Ali, (2012-ag-664).	Comparative evaluation of fatty acids composition in three different areas of Punjab.
87.	M.Sc	2014	Muhammad Naveed (2012-ag-1131).	A comparison of mineral contents and proximate composition of milk thistle (*Silybum marianum*) seed grown in three different areas of Punjab.
88.	M.Sc	2015	Humaria Iqbal, (2013-ag-95	Evaluation of half-life of eucalyptus bark as natural dye with reference to textile application.

89.	M.Sc	2015	Raheela Tariq, (2011-ag-825).	Optimization of extraction and dyeing parameters for the natural dye extracted from *Tamarindus indica*
90.	M.Sc	2014	Sidra Sajid, (2012-ag-991)..	Optimization of extraction condition for extraction of flavonolignans (silymarin) from milk thistle
91.	M.Phil	2014	Rubab Saher (2012-ag-534).	Influence of particle size reduction on free radical scavenging activity of *Coriandrum sativum* seed extract
92.	M.Phil	2014	Tuba Fazal, (2010-ag-788).	Effect of size reduction on the activity and solubility of poorly water soluble indigenous silymarin.
93.	M.Phil	2014	Fareeha Anwar, (2012-ag-535).	Impact of particle size reduction on antioxidant potential of *Elettaria cardamomum* fruit extract.
94.	M.Phil	2015	Memona Sahar, (2010-ag-878).	Comparison of Phytochemical Constituents and Antimicrobial Activity of Fresh Rose Petals and Their Residues.
95.	M.Phil	2016	Nida Rehman, (2013-ag-1508).	Polyphenolic Contents, Anti-Arrhythmic and Hypolipidemic Potential of *Coriandrum sativum*
96.	M.Phil	2016	Nagina Kanwal, (2008-ag-689).	Screening Of Secondary Metabolites, Hypolipidemic and Antiarrhythmic Potential of *Rauwolfia Serpentina.*
97.	M.Phil	2016	Tahmina Kausar, (2013-ag-1551).	Phytochemical Investigation, Hypolipidemic and Anti-Tachycardial Potential of Cardamom (*Elettaria Cardamomum*).
98.	M.Phil	2016	Nida Liaqat, (2011-ag-782).	Green Synthesis, Characterization and Antimicrobial Potential of Silver Nanoparticles
99.	M.Phil	2016	Shamsa Shazadi	Phytochemical Screening and Antioxidant Activity of Fresh Rose Petals and Their Residues
100.	M.Phil	2016	Gulnar Bano, (2010-ag-1619).	Green Synthesis of Silver Nanoparticles of *Azadirachta* and *Moringa oleifera* And Their Antimicrobial Activity.
101.	M.Phil	2016	Tahmina Kausar (2013-ag1551)	Phytochemical investigation, hypolipidemic, and anti-tachycardial potential of Cardamom (*Elettaria cardamomum*).
102.	M.Phil	2016	Rubab Saher (2012-ag-534).	Influence of particle size reduction on free radical scavenging activity of *Coriandrum sativum* seed extract.
103.	M.Phil	2016	Tuba Fazal (2010-ag-788).	Effect of size reduction on the activity and solubility of poor water soluble indigenous silymarin.
104.	M.Phil	2016	Fareeha Anwar (2012-ag-535).	Impact of particle size reduction on antioxidant potential of *Elettaria cardamomum* fruit extract.
105.	M.Phil	2016	Arooj Amna (2012-ag-815)	Optimization of Physicochemical Parameters for Green Synthesis of Zinc Oxide Nanoparticles and Their Antimicrobial Activity
106.	M.Phil	2016	Nimra Bari (201-ag-1001).	Plant mediated Synthesis, Characterization and Antimicrobial Potential of Silver Nanoparticles
107.	M.Phil	2016	Ayesha Munsab, (2014-ag-795	Green synthesis, Optimization and Characterization of Silver Metal Nanoparticles by Using *Elettaria*

				cardamomom and *Coriandrum sativum*
108.	M.Phil	2016	Javaria Razzaq (2014-ag-983)	Green Synthesis, Characterization And Antimicrobial Potential of ZnO Nanoparticles from Leaves of *Moringa oleifera* And *Ocimum basilicum* Plants
109.	M.Phil	2016	Misbah Batool, (2014-ag-2918).	Green Synthesis of Iron Nanoparticles using *Terminallia arjuna* And *Eucalyptus camaldulensis* Plants Extract And Their Antimicrobial Potential
110.	M.Phil	2016	Rubab Asghar (2014-ag-8208).	Synthesis, Characterization and Pharmaceutical Potential of Biosynthesized Iron Nanoparticles
111.	M.Phil	2016	Aasma Firdous, (2007-ag-515).	Preparation of Microemulsion by Using Coriander Seed Oil and Evaluation of Antimicrobial and Antioxidant Activities
112.	M.Phil	2016	Sana Fatima (2009-ag-154).	Formulation of microemulsions of *Piper nigrum and* Evaluation of their Antimicrobial and Antioxidant Potential
113.	M.Phil	2016	Sajida Maqbool (2009-ag-153).	Preparation And Physiochemical Properties of Microemulsions of *Glycyrrhiza glabra* and Evaluation of Their Antioxidant And Antimicrobial Activities
114.	M.Phil	2016	Muhammad Adnan Akram (2014-ag-9331)	Evaluation of Urease Inhibition Potential of *Azadirachta indica* (Neem Extract) and Calcium Carbide to Incrase Nitrogen Use Efficiency of Urea Fertilizer
115.	M.Phil	2016	Maroof Ahmad Khan, (2014-ag-9723)	Evaluation of Physiochemical Properties of Soil And Urease Inhibition Potential of Thiourea and Silymarin
116.	M.Phil	2016	Salma Nasir (2014-ag-1792).	Formulation and Characterization of Microemulsions of *Azadirachta indica* (Seed Oil) and Study of Their Antimicrobial and Antioxidant Activities
117.	M.Phil	2016	Arooj Amna, (2012-ag-815)	Optimization of Physicochemical Parameters for Green Synthesis of Zinc Oxide Nanoparticles and Their Antimicrobial Activity
118.	M.Phil	2017	Zahid Abbas (2015-ag-3308)	Optimization of physiochemical parameters for green synthesis of silver nanoparticles by using microorganism and evaluation of their antimicrobial potential.
119.	M.Phil	2017	Abida Kamal (2015-ag-209)	Synthesis of grape (*Vitis vinifera*) seeds extract load phytosomes and their physical and biological characterization.
120.	M.Phil	2017	Salma Nasir (2014-ag-1792)	Formulation and Characterization of Microemulsions of *Azadirachta indica* (Seed Oil) and Study of Their Antimicrobial and Antioxidant Activities
121.	M.Phil	2017	Sidra Sajid, (2012-ag-991)	Synthesis, characterization and biological evaluation of quercetin-copper (II) complex.
122.	M.Phil	2017	Rida Ahmad, (2015-ag-243)	Synthesis, Characterization and Biological Investigation of Curcumin-Zn (II) Complexes.

123.	M.Phil	2017	Zill-e-Huma, (2013-ag-92)	Formulation, characterization and biological evaluation of *Silybum marimum* (milk thistle) phytosomes.
124.	M.Phil	2017	Kiran Naz, (2015-ag-1146)	Rapid green synthesis and characterization of silver and Zinc oxide nanoparticles using aqueous extract of *Terminalia chebula*.
125.	M.Phil	2017	Noor-ul-Subah Waseem, (2015-ag-1911)	Optimization of physiochemical parameters of green synthesis of silver and Zinc oxide nanoparticles b using *Cassia fistula* and evaluation of their antimicrobial activity.
126.	M.Phil	2017	Madiha Kousar, (2015-ag-1849)	Preparation, characterization and pharmacokinetics studies of Rutin-Cu (II) complexes.
127.	M.Phil.	2017	Iqra Akhtar, (2015-ag-135).	Preparation, characterization and evaluation of curcumin phytosomal complex for the enhanced delivery of phytonutrients.
128.	M.Phil	2017	Hafiza Nabila Batool, (2013-ag-756).	Green synthesis of silver and Zinc oxide nanoparticles using *Allium cepa* and analysis of its antimicrobial activity.
129.	M.Phil	2019	Iqra Akram (2017-ag-3180)	To Enhance the Nitrogen use Efficiency of plants using Two Nitrification Inhibitors in Combination
130.	M.Phil	2019	Anam Azmat (2017-ag-331)	Evaluation of Synergic Effect of Various Combinations of Nitrification Inhibitors in soil of different Districts
131.	M.Phil	2019	Rumsha Tanveer (2017-ag-3253)	Synergic Effect of Nitrification Inhibitors (1,2,4-Triaole;Thiourea and boric acid) on inhibition of Nitrate Leaching
132.	M.Phil	2019	Kiran Dildar (2016-ag-2578)	Isolation and biological activity of bioactive compounds from *caragana conferta*
133.	M.Phil	2019	Ayesha Irfan (2017-ag-5182)	Application of Inhibitors for the Enhancement In Nitrogen Use Efficiency Of Nitrogen Fertilizers
134.	M.Phil	2019	Arifa Murtaza (2015-ag-1035)	Synthesis and Characterization of Piperine Nano-suspension and Evaluation of its In-Vivo Antihypertensive Potential

135.	M.Phil	2019	Sidra Waheed (2017-ag-3209)	Determination of the Nitrification Inhibition Potential of the Hydroquinone and Acetohydroxamic Acid in different Types of soil
136.	M.Phil	2019	Siddiqa Nasim (2015-ag-480)	Optimization of Formulation Parameters of *Hibiscus rosa-sinesis* Nanosuspension by using RSM and Evaluation of its Biological Activities
137.	M.Phil	2019	Jawaad Habib (2015-ag-213)	Antioxidant, Antimicrobial and Angiotensin Converting Enzyme(ACE) Inhibitory Activity of Hibiscus rosa sinesis Linn phytosomes
138.	M.Phil	2019	Sana Mubarak (2017-ag-3183)	Mitigation of the NO3 Leaching by using Combination of Boric Acid and Hydroquinone to increase Nitrogen Use Efficiency of Plants
139.	M.Phil	2019	Ayesha Tanveer (2017-ag-3274)	Formulation and Characterization of Nano-suspension From Flavonoid Rich Fraction of *Crataegus monogyna* and Evaluation of Its Hypotensive Activity
140.	M.Phil	2019	Muhammad Abdul Hafeez (2017-ag-3140)	Synthesis, Chracterization and ACE Inhibition Potential of *Crataegus monogyna* phytosomes
141.	M.Phil	2019	Habib-u-Nisa (2016-ag-1881)	Synthesis and Characterization of *Centella asiatica* Nano-suspension and Evaluation of its Therapeutic Potential
142.	M.Phil	2019	Pariya Naz (2017-ag-3315)	Evaluation the Synergic Effect of Combination of Inhibitors on Nitrate Leaching
143.	M.Phil	2019	Hina Ayub (2017-ag-3227)	Formulation and Characterization of *Rauvolfia serpentina* Nanosuspension and Evaluation of its Antihypertensive Potential
144.	M.Phil	2020	Aimen Noor bajwa (2018-ag-3910)	Formulation and characterisation of nanosuspension from *Citrus sinensis* peel and evaluation of its pesticidal potential
145.	M.Phil	2020	Aqsa Basharat (2018-ag-3926)	Green synthesis of silver nanoparticles using *Eucalyptus camaldulensis* leaves extract and their pesticidal potential

146.	M.Phil	2020	Sara Saman Irshad (2015-ag-1815)	Synthesis, characterization and biological investigation of *Cassia fistula* (amultas) phytosomes
147.	M.Phil	2020	Farasha Nnadeem (2016-ag-963)	Biogenic synthesis of silver nanoparticles using *Zingeiber officinale* extract and their pesticidal potential
148.	M.Phil	2020	M. Mumtaz (2016-ag-2434)	Synthesis, characterization and angiotensin converting enzyme(ace) inhibition potential of *Terminalia arjuna* phytosomes
149.	M.Phil	2020	Naila Hanif (2018-ag-4001)	Synthesis of plant mediated nano zinc oxide with *Allium sativum* and evaluation of its biopesticidal potential
150.	M.Phil	2020	Kainat Shoukat (2018-ag-3919)	Formulation and characterization of nanosuspension of *Silybum marianum* (milk thistle) and evaluation of its pesticidal effect
151.	M.Phil	2020	Adeela Jabeen (2016-ag-3544)	Plant mediated synthesis of silver nanoparticles using bulb extract of *Allium sativum* and evaluation of their biopesticidal activity
152.	M.Phil	2020	Qurat-ul-ain (2018-ag-4723)	Formulation and characterization of *Rosemarinus officinalis* phytosomes and evaluation of its ace inhibition potential
153.	M.Phil	2020	Rida Nawaz (2018-ag-3910)	formulation of *Withania somnifera* nanosuspension and evaluation of its angiotension converting enzyme (ace) inhibition potential
154.	M.Phil	2020	Samra Younas (2016-ag-3118)	Formulation of *Phaseolus vulgaris* nano-suspension and evaluation of its ace antihypertensive potential
155.	M.Phil	2020	Farah Shafiq (2018-ag-3938)	Formulation and characterization of green nano zinc oxide by using *Zingiber officinale* and evaluation of their pesticidal potential
156.	M.Phil	2020	Sania Sadiqa (2015-ag-3244)	Nanosuspension formulation and evaluation of antimicrobial and pesticidal activities of essential oil extracted from the leaves of *Eucalyptus globulus*
157.	M.Phil	2020	Fatima Waseem (2018-ag-4004)	Formulation and characterization of *Zingiber officinale* nanosuspension and evaluation of its pesticidal potential

158.	M.Phil	2020	Faiza (2016-ag-4739)	Formulation and characterization of nanosuspension of *Syzygium aromaticum* essential oil and evaluation of its pesticidal activity
159.	M.Phil	2020	Nazish Riaz (2018-ag-3933)	Development of novel drug delivery system for traditional herbal plant *Withania somnifera* and evaluation of its biological activities
160.	M.Phil	2020	Nimra Javed (2018-ag-3849)	*Azadirachta indica* mediated green synthesis of silver nanoparticles and characterization and evaluation of bio pesticidal potential
161.	M.Phil	2021	Farah 2019-ag-2255	Green synthesis of nano silver using *Cymbopogon citratus* and evaluation of its biopesticidal potential
162.	M.Phil	2021	Moniba 2019-ag-2236	Plant-mediated Synthesis of Zinc oxide nanoparticles from *Chrysanthemum indicum* extract and estimation of their antimicrobial and pesticidal potential
163.	M.Phil	2021	Saeeda Aslam 2016-ag-3594	Formulation and characterization of biopesticide based green synthesized silver nanoparticles and evaluation of their pesticidal potential
164.	M.Phil	2021	Fatima Zafar 2017-ag-5364	Preparation And Characterization Of Green Synthesized Zinc Oxide Based Nanobiopesticides
165.	M.Phil	2021	Kousar Rasheed 2017-ag-561	Green synthesis of zinc oxide nanoparticles using seed extract of *Silybum marianum* (Milk thistle)and their biological evolution
166.	M.Phil	2021	Laraib Fatma 2019-ag-2283	*Ocimum basilicum* Mediated Green Synthesis of Zinc Oxide Nanoparticles and Estimation of their Biopesticidal Potential
167.	M.Phil	2021	Hafsa 2019-ag-2264	Formulation and characterization of green synthesized silver nanoparticles by *Tagetes erecta* (marigold) and evaluation of their antimicrobial and pesticidal potential
168.	M.Phil	2021	Nida Hussain 2017-ag-647	Formulation and characterization of nanosuspension of *Mentha piperita* (mint) and evaluation of its pesticidal effects

169.	M.Phil	2021	Ayesha Aslam 2017-ag-5293	Formulation and characterization of nanosuspension of *Curcuma longa* and evaluation of pesticidal activity
170.	M.Phil	2021	Serish Shoukat	Characterization and Formulation of Nanosuspensions of *Ocimum tenuiflorum* and Evaluation of Pesticidal Activity
171.	M.Phil	2021	Sana Khalid 2019-ag-2233	Formulation of *Trigonella foenum-graecum* (fenugreek) base nano biopesticides and evaluation of pesticidal potential
172.	M.Phil	2021	Amara Dilawar 2019-ag-2205	Formulation and Characterization of Nanosuspension of *Nicotiana tabacum* and Evaluation of its Biopesticidal Potential
173.	M.Phil	2021	Amna Saleem 2017-ag-517	Formulation and characterization of *Chrysanthemum indicum* nanosuspension and evaluation of its biopesticide potential
174.	M.Phil	2022	Haroon Ahmad/2020-ag-1163	Nanotization of *Melia azedarach* based biopesticide; A sustainable solution for pest control
175.	M.Phil	2022	Rabia bibi/2017-ag-4177	Fabrication and characterization of *Citrus limon* peels based nano biopesticides for eco-friendly pest management
176.	M.Phil	2022	Samiah/2020-ag-1166	Optimization of synthesis of nano biopesticides from *Punica granatum* and evaluation of its pesticidal potential
177.	M.Phil	2022	Aqsa Hameed/2018-ag-635	Development and characterization of *Lawsonia inermis* based nano biopesticides with enhanced pesticidal potential
178.	M.Phil	2022	Zainab Bibi/2020-ag-1138	Nano formulation of *Capsicum frutescens* extract with enhanced antimicrobial and pesticidal potential
179.	M.Phil	2022	Muhammad Umer/2018-ag-824	Synthesis and characterization of *Lantana camara* mediated nano biopesticides as an emerging technology for pest control

180.	M.Phil	2022	Laiba/2020-ag-1206	Green synthesis of zinc oxide nanoparticles using aqueous extract of *Capsicum frutescens* and evaluation of its antimicrobial and pesticidal potential
181.	M.Phil	2022	Faiza Jameel/2020-ag-1226	Green synthesis of iron and silver oxide nanoparticles using *Phyllanthus emblica* extract and investigation of their antimicrobial and pesticidal potential
182.	M.Phil	2022	Saman Aslam/2018-ag-759	Development of *Ficus carica* phytosomes and assessment of their antioxidant and anti microbial activity
183.	M.Phil	2022	Syyeda Maimoona Ghayyoor Naqvi/2020-ag-1207	Fabrication of *Aegle marmelos* extract loaded phytosomes and evaluation of their antioxidant and antimicrobial activity
184.	M.Phil	2022	Maria Gulzar/2020-ag-1175	Synthesis of phytophospholipid complexes of *Bauhinia variegata* leaves extract and evaluation of their antimicrobial and antioxidant activity
185.	M.Phil	2022	Riffat Fatima/2020-ag-1211	*Lantana camara* mediated synthesis of zinc oxide nanoparticles and assessment of its pesticidal and antibacterial activity