

CURRICULUM VITAE

Dr. Salman Zafar

Associate Professor (Tenured)

Institute of Chemical Sciences, University of Peshawar,

Peshawar-25120, Khyber Pakhtunkhwa, Pakistan

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PERSONAL INFORMATION

FATHER'S NAME: Mr. Zafar Ullah Khan

NATIONALITY: Pakistani

POSTAL ADDRESS: Institute of Chemical Sciences, University of Peshawar, Peshawar-25120, Khyber Pakhtunkhwa, Pakistan

CURRENT POSITION: Associate Professor (Tenured)

ORGANIZATION: University of Peshawar, Pakistan

QUALIFICATION: **Post Doctorate (Talented Young Scientist Program)** (2017-18)
School of Pharmacy, Hunan University of Traditional Chinese Medicine, Changsha, Hunan, P. R. China
Project: "Phytochemical and Biological Studies on Tujia Ethnomedicine, *Swertia punicea* Hemsl."

Ph. D. (Organic Chemistry) (2012)
H. E. J. Research Institute of Chemistry, I. C. C. B. S., University of Karachi, Karachi, Pakistan
Thesis Title: "Study of Biotransformation of Most Common Drugs by Microbial and Plant Cell Cultures"

M. Sc. (Organic Chemistry) (A grade) (2006)
University of Peshawar, Peshawar, Pakistan
Thesis Title: "Phytochemical investigation of the bark of *Bauhinia variegata*"

B. Sc. (Chemistry, Zoology, Geography) (A grade) (2003)
University of Peshawar, Peshawar, Pakistan

H. S. S. C. (Chemistry, Biology, Physics) (A grade) (2001)
Federal Board of Intermediate and Secondary Education, Islamabad.

S. S. C. (Chemistry, Biology, Physics, Math) (A grade) 1999
Federal Board of Intermediate and Secondary Education, Islamabad.

PROFESSIONAL SKILLS:

- ❖ Hand on experience on LC-MSMS, GC-MS, EI-MS, UV, IR, NMR, HPLC, and HPTLC
- ❖ Interpretation of UV, IR, Mass and NMR, XRD, TGA, SEM, and TEM data for structure elucidation of organic molecules and characterization of materials
- ❖ Qualitative analysis with preparative HPLC
- ❖ Quantitative analysis with HPLC and HPTLC
- ❖ Biocatalysis/biotransformation protocols
- ❖ Sterilization techniques
- ❖ Preparation and maintenance of microbial cell cultures.
- ❖ Synthesis and characterization of metal nanoparticles
- ❖ Synthetic manipulation of organic molecules.

AWARDS/HONORS

- ❖ Postdoctoral Fellowship (One year), Talented Young Scientist Program, P. R. China (2017)
- ❖ Indigenous PhD Scholarship, Higher Education Commission, Pakistan (2007)

ACADEMIC ACHEIVEMENTS:

- ❖ GRE Subject (Chemistry)
- ❖ 1st Div throughout academic career

PROFESSIONAL EXPERIENCE (Chronological):

- ❖ **Quality Control Analyst:** Bryon Pharmaceuticals Ltd. Peshawar (October 2005-January 2006)
- ❖ **Assistant Professor (Contract):** Department of Chemistry, Abdul Wali Khan University (AWKUM), Mardan-23200, Pakistan (June 07, 2012-June 06, 2013)
- ❖ **Assistant Professor:** Department of Chemistry, Sarhad University of Science and Information Technology (SUIT), Peshawar, Pakistan (September 4, 2013- January 12, 2015)
- ❖ **Assistant Professor (TTS):** Institute of Chemical Sciences, University of Peshawar, Peshawar-25120, Pakistan (January 03, 2015- February 08, 2021)
- ❖ **Post-doctoral researcher:** School of Pharmacy, Hunan University of Chinese Medicine, Changsha, P.R. China (June 01, 2017-May 31, 2018)
- ❖ **Associate Professor (Tenured):** Institute of Chemical Sciences, University of Peshawar, Peshawar-25120, Pakistan (February 09, 2021-Till date)

CONFERENCES/SYMPOSIA:

- ❖ 11th International Symposium on Natural Product Chemistry (H.E.J.R.I.C., Karachi, 2008)
- ❖ 12th International Symposium on Natural Product Chemistry (H.E.J.R.I.C., Karachi, 2010)
- ❖ 2nd Sao Paulo Advanced School on Bioorganic Chemistry (Faculty of Pharmaceutical Sciences, UNESP, Araraquara, Brazil, 2013)
- ❖ Sao Paulo School of Advance Science on “Neglected Diseases”(SPSAS-ND3, CNPEM, Campinas, Brazil, 2015)
- ❖ The 3rd Hunan International Forum for Innovation and Development of Biomedicine and Chinese Medicine (Changsha, P. R. China, 2017)
- ❖ International Meeting on the Traditional Chinese Medicine (Guiyang, P. R. China, 2017)
- ❖ 30th National and 17th International Chemistry Conference (University of Peshawar, Pakistan, 2018)
- ❖ 19th International and 31st National Conference on Emerging Trends in Chemistry (University of Management and Technology, Lahore, Pakistan 2021)
- ❖ 1st International Conference on Innovations in Chemistry and Physics, ICP 2022 (University of Education, Faisalabad, Pakistan, 2022)
- ❖ International Conference on Research Advancements in Chemistry, ICRAC-2022 (National University of Science and Technology, Islamabad, Pakistan, 2022)
- ❖ First International Conference on Advances in Functional Materials, ICAFM-2023 (University of the Punjab, Lahore, Pakistan, 2023)

- ❖ International Conference on Food and Applied Sciences, ICFAS-2024 (S. B. B. Women University, Peshawar, Nathia Gali, 2024)
- ❖ 3rd International Chemistry Conference on Emerging Trends in Chemistry, 3rd CCUMT-2025 (University of Management and Technology, Lahore, Pakistan, 2025)
- ❖ 4th International Conference of Sciences on “Revamped Scientific Outlook of 21st Century, 2025 (Women University, Rawalpindi, Pakistan, 2025)

WORKSHOPS / TRAININGS:

- ❖ Media Workshop/Press Conference on Creating Awareness About the Role of Biotechnology in Sustainable National Development (H.E.J.R.I.C., Karachi, 2009)
- ❖ Tribute to the father of green revolution Nobel Peace Laureate Prof. Dr. Norman Borlaug & Launching of ISAAA Brief 41/ Press Conference (H.E.J.R.I.C., Karachi, 2010)
- ❖ 2-Days Workshop on “Micro-Teaching” (Abdul Wali Khan University, Mardan, 2013)
- ❖ 2-Days Training program on Communication Skills (Sarhad University of S & IT, Peshawar, 2014)
- ❖ 3-Days Workshop on “Teaching as Profession and Micro-Teaching” (Sarhad University of Science and IT, Peshawar, 2014)
- ❖ NASIC Workshop on “Spectroscopic Techniques and Their Applications in Structure Determination” (H.E.J.R.I.C., Karachi 2014)

ORAL PRESENTATIONS

- ❖ Chemo-enzymatic Synthesis of Structurally Diverse Bioactive Molecules (2017, Guiyang, P.R. China)
- ❖ Biotransformation: A tool for Synthesis of New and Potent Molecules (2017, Changsha, P.R. Chia)
- ❖ Exploring the Therapeutic Potential of *Olea ferruginea* (2021, Lahore, Pakistan)
- ❖ Enzyme catalyzed Synthesis of New and Bioactive Molecules (2022, Faisalabad, Pakistan)
- ❖ Magnetic Gum *acacia* nanocomposite-mediated removal of carcinogenic dyes from water (2023, Lahore, Pakistan)
- ❖ Biotransformation: A Combinatorial Synthetic Approach for Synthesizing New Molecules (2024, Nathia Gali, Pakistan)
- ❖ Microbial Systems as Mimics for *in vivo* Drug Metabolism (2025, Lahore, Pakistan)
- ❖ Selective Butyryl-cholinesterase Inhibitors from Biotransformation of Dihydrotestosterone (2025, Rawalpindi, Pakistan)

POSTER PRESENTATIONS:

- ❖ *In vitro* Models for Mammalian Drug Metabolism: 12th International Symposium on National Product Chemistry (2010, Karachi, Pakistan).
- ❖ Enzyme Inhibitors from Microbial Transformation of Dihydrotestosterone (2013, UNESP, Araraquara, Brazil)
- ❖ Protecting Skin Lesions from Bacterial Superinfection: Anti-bacterial Potential of *Acacia modesta* (2015, Campinas, Brazil)
- ❖ Targeting Epilepsy: Biotransformation of Neuroactive Steroids for Discovery of Anti-epileptic Molecules (2016, Peshawar, Pakistan)

PROJECTS/GRANTS:

- ❖ National Research Program for Universities (NRPU) grant from Higher Education Commission, Pakistan worth 6.0555 million PKR-**Biotransformation**
- ❖ Start-up research grant from Higher Education Commission, Pakistan worth 0.5 million PKR-**Natural Product Chemistry**
- ❖ Start-up research grant from Higher Education Commission, Pakistan worth 0.32 million PKR-**Organic Synthesis**
- ❖ Co-PI in National Research Program for Universities (NRPU) grant from Higher Education Commission, Pakistan worth 4.121 million PKR-**Organic Synthesis**

MEMBERSHIPS:

- ❖ Life-time Member, Chemical Society of Pakistan
- ❖ Member of the Council for Innovation and Development of Traditional Chinese Medicine of Hunan province, P. R. China (2018-2022)

INTERNATIONAL LINKAGES:

- ❖ Natural and Medical Sciences Research Center, University of Nizwa, P.O. Box 33, Birkat Al Mauz, Nizwa 616, Sultanate of Oman
- ❖ School of Pharmacy, Hunan University of Chinese Medicine, Changsha, Hunan, P. R. China

LIST OF PUBLICATIONS:

PATENTS

1. **Salman Zafar**, Amna Ilyas, et al., “A system for synthesizing core-shell magnetic nanocomposites for tyrosinase inhibition”, 2025, German patents (20 2025 100 802.5).

BOOKS / CHAPTERS

1. Chapter in “**Pharmaceutical Biocatalysis: Chemoenzymatic Synthesis of Active Pharmaceutical Ingredients**”, Edited by Peter Grunwald, 2019, Jenny Stanford Publishing.

RESEARCH ARTICLES

2026

1. Waris Z., Khan, M., Shafqatullah, Jamal, Q., Uddin M., **Zafar S.*** Plant-mediated Fabrication and Enhanced Anti-microbial and Leishmanicidal activities of bimetallic CuO/ZnO nanocomposites. *Journal of Inorganic and Organometallic Polymers and Materials*, 2026, (Just Accepted).
2. Topal, Y., Mohsin, A. H., Khan, R., **Zafar, S.**, Bibi, A., Rafiq, M., Huma, Ali, G., Aluner E. E. Synthesis of β -Lactam Conjugates of Thiadiazine Thiones as A New Class of Anti-Nociceptive Agents. *Iranian Journal of Chemistry and Chemical Engineering*, 2026, (Just Accepted).

2025

3. Bibi A., Azmat A., **Zafar S.*** Green-synthesized cyclophosphamide-loaded magnetite nanocomposites for *in vitro* anti-cancer activity against U-87 glioblastoma cells. *Results in Chemistry*, 2025, 16:102513.
4. Wisal A., Asad Ullah, Khan B., Sucak Y., Ozturk M., Muhammad A., Anwar W., Begum S., **Zafar S.**, et al. The cytotoxic, antioxidant, and anticholinesterase activity of steviol and

isosteviol analogues, together with structure-activity relationships and molecular docking studies. *Journal of Molecular Structure*, 2025, 1345:143049.

5. Sheema, **Zafar S.***, Khan S., Jamal Q., Uzair M., Akbar S., Moeen Uddin, Abbas M., Ali A., Ali H. Green Synthesis, biological potential, and semiconducting properties of MnO:ZnO bimetallic nanocomposites. *Journal of Inorganic and Organometallic Polymers and Materials*, 2025, 35:6688-6708.
6. Ahmed N.; Wang Y.; Choudhary M. I.; Sheema; Khan R.; **Zafar S.*** Potent bioactive metabolites from *Olea ferruginea*. *Natural Product Research*, 2025, 39:2795-2803.
7. Sheema; Akbar S.; Jamal Q.; **Zafar S.*** Leishmanicidal and anti-Microbial effects of MgO–ZnO bimetallic nanocomposites, fabricated with *Curcuma zedoaria* oil. *Journal of Inorganic and Organometallic Polymers and Materials*, 2025, 35:2174-2185.

2024

8. Wang M.; Jiang S.; Deng Y.; Tian T.; **Zafar S.**; Xie, Q.; Yuan H.; Jian Y.; Wang W. Nine new nor-3,4-*seco*-dammarane triterpenoids from the leaves of *Cyclocarya paliurus* and their hypoglycemic activity, *Bioorganic Chemistry*, 2024, 152:107763.
9. Khan A. R.; Aziz Z.; Iqbal A.; Sheema; Khan A. R.; **Zafar S.*** Biotransformation of hydrocortisone succinate with whole cell cultures of *Monascus purpureus* and *Cunninghamella echinulata*, *Steroids*, 2024, 209:109466.
10. Gul A.; Halim S. A.; Khan A.; Khan R.; Xian-Dao P.; **Zafar S.**; Akbar N.; Jan A.; et. Al. One pot synthesis of 5-hydroxyalkylated thiadiazine thiones: Implication in pain management and bactericidal properties, *Heliyon*, 2024, 10:E30435.
11. Sheema; Jamal Q.; U-din M.; Khan A. R.; **Zafar S.*** *Malvastrum coromandelianum* mediated bio-fabrication of MgO:ZnO nanocomposites and their biological potential, *Journal of Inorganic and Organometallic Polymers and Materials*, 2024, 34:5636-5650.

2023

12. Azmat A.; and **Zafar S.*** *Trigonella foenum-graecum*-based facile one-pot green synthesis, characterization, and biological activities of silver/copper bimetallic nanoparticles. *Nanotechnology for Environmental Engineering*, 2023, 8:733-744.
13. Sheema; **Zafar S.***; Ghias Uddin. A comprehensive review on the ethnobotanical, phytochemical, and pharmacological aspects of the genus *Malvastrum*. *Fitoterapia*, 2023, 171:105666.
14. Sheema; **Zafar S.***; Ullah N.; Khan I.; Uddin G. Phytochemical and *in vitro* biological evaluation of roots of *Malvastrum coromandelianum* (L.) Garcke. *Journal of the Chemical Society of Pakistan*, 2023, 45:568-575.
15. Chu L.; Li B.; Wu J.; Jiang L.; Zhou X.; Sheng W.; Peng C.; **Zafar S.**; Liu P.; Wang W. Research progress on *Rodgersia* and predictive analysis on its quality markers. *World Journal of Traditional Chinese Medicine*, 2023, 9(3):243-257.
16. Pan Y.; Bin L.; **Zafar S.**; Ali S.; Wen-Bing S.; Yu M.; Fang Z.; et al., Three new constituents from the Tujia ethnomedicine *Swertia punicea*. *Natural Products Research*, 2023, 37:1444-1455.

2022

17. Raziq N.; Saeed M.; Ali M. S.; **Zafar S.*** Muricazine, a new hydrazine derivative from *Ranunculus muricatus* with antioxidant, lipoxxygenase and urease inhibitory activities. *Natural Product Research*, 2022, 36(4):961-966.
18. Wang M.; Jiang S.; Hussain N.; **Zafar S.**; Xie Q.; Huag F.; Mao L.; Li B.; Jian Y.; Wang W. Anti-FAFLS triterpenoids and hepatoprotective lignans from the leaves of Tujia ethnomedicine *Kadsura heteroclita* (Xuetong). *Frontiers in Chemistry*, 2022, 10:878811.
19. Jiang S.; Wang M.; **Zafar S.**; et al., Phytochemistry, pharmacology, and clinical applications of traditional Chinese herb *Pseudobulbus cremastrae* seu *Pleiones* (Shancigu): A review. *Arabian Journal of Chemistry*, 2022, 15:104090.

20. Jiang S.; Wang M.; **Zafar S.**; Xie Q.; Jian Y.; Yuan H.; Li B.; Peng C.; Chen W.; Liu B.; Liu S.; Yang Y.; Wang W. Structural elucidation, antioxidant and hepatoprotective activities of chemical composition from Jinsi Huangju (*Chrysanthemum morifolium*) flowers. *Arabian Journal of Chemistry*, 2022, 15:104292.
- 2021**
21. Jian S.; Wang M.; Jiang Z.; **Zafar S.**; Xie Q.; Yang Y.; Liu Y.; Yuan H.; Jian Y.; Wang W. Chemistry and Pharmacological activity of sesquiterpenoids from the *Chrysanthemum* genus. *Molecules*, 2021, 26 (10): 3038.
22. Jiang S.; Wang M.; Jiang L.; Xie Q.; Yuan H.; Yang Y.; **Zafar S.**; Liu Y.; Jian Y.; Li B.; Wang W. The medicinal uses of the genus *Bletilla* in traditional Chinese medicine: A phytochemical and pharmacological review. *Journal of Ethnopharmacology*, 2021, 280:114263.
23. Raziq N.; Saeed M.; Ali M. S.; Lateef M.; Shahid M.; Akbar S.; **Zafar S.*** Muriolide, a novel antioxidant lactone from *Ranunculus muricatus*. *Natural Product Research*, 2021, 35:4994-5000.
24. Wang M.; Jiang S.; Yuan H.; **Zafar S.**; Hussain N.; Jian Y.; Li B.; Gong L.; Peng C.; Liu C.; Wang W. A review of the phytochemistry and pharmacology of *Kadsura heteroclita*, an important plant in Tujia ethnomedicine. *Journal of Ethnopharmacology*, 2021, 268:113567.
- 2020**
25. Nisar M.; Khan S. A.; Gul M.; Rauf A.; **Zafar S.**; Ramadan M. F. Synthesis, characterization, and antimicrobial properties of sparfloxacin-mediated noble metal nanoparticles. *Journal of Pure and Applied Microbiology*, 2020, 14:1789-1800.
26. **Zafar S.***; Sier F.; Samiullah, Ayoub G. Spectrophotometric Estimation of Iron (III) in Iron Polysaccharide Complex Capsule Formulation and Accelerated Stability. *Journal of the Chemical Society of Pakistan*, 2020, 42:17-22.
- 2019**
27. Khan, M.; Ahad, G.; Manaf, A.; Naz, R.; Hussain, S. R.; Deeba, F.; Shah, S.; Khan, A.; Ali, M.; Zaman, K.; **Zafar, S.**; Salar, U.; Hameed, A.; Khan, K. M. Synthesis, *in vitro* urease inhibitory activity, and molecular docking studies of (perfluorophenyl)hydrazine derivatives. *Medicinal Chemistry Research*, 2019, 28:873-883.
28. Rahim F.; Tariq S.; Taha M.; Ullah H.; Zaman K.; Uddin I.; Wadood A.; Khan A. A.; Rehman A.; Uddin N.; **Zafar S.**; Shah S. A. A. New triazinoidole bearing thiazole/oxazole analogues: Synthesis, α -amylase inhibitory potential and molecular docking study. *Bioorganic Chemistry*, 2019, 92:103284.
29. **Zafar S.***, Rahman I. U.; Khan A. Adsorption of organic dyes on non-conventional and inexpensive adsorbent. *Journal of Ongoing Chemical Research*, 2019, 4:20-23.
30. **Zafar S.**; Jian Y.; Bin L.; Peng C-Y.; Choudhary M. I.; Atta-ur-Rahman, Wang W. Antioxidant nature adds further therapeutic value: An updated review on natural xanthone glycosides. *Digital Chinese Medicine*, 2019, 2:166-192.
- 2018**
31. **Zafar S.***; Faiz -Ur-Rehman, Shah Z. A.; Rauf A.; Khan A.; Khan M. H.; Rahman K. U.; Khan S.; Ullah A.; Shaheen F. Potent leishmanicidal and anti-bacterial metabolites from *Olea ferruginea*. *Journal of Asian Natural Products Research*, 2018, 21:679-687.
32. **Zafar S.**; Wang W. Exploring the Complex Phytochemical and Pharmacological Value of *Swertia punicea* Hemsl. *Current Traditional Medicine*, 2018, 4:238-248.
33. Tang Y., Zeng T., **Zafar S.**, Yuan H., Bin L., Peng C-Y., Wang S., Jian Y., Qin Y., Choudhary M. I. Wang W. *Lonicerae* flos: A Review of Chemical Constituents and Biological Activities. *Digital Chinese Medicine*, 2018, 1:173-188.
- 2017**

34. Barkatullah, Ibrar M.; Muhammad N.; Khan A.; Khan S. A.; **Zafar S.**, Jan S.; Riaz N.; Ullah Z.; Farooq U.; and Hussain J. Pharmacognostic and phytochemical studies of *Zanthoxylum armatum* DC. *Pakistan Journal of Pharmaceutical Sciences*, 2017, 30:2:429-438.
35. Raziq N.; Saeed M.; Ali M S.; **Zafar S.**; Shahid M.; Lateef M. A new glycosidic antioxidant from *Ranunculus muricatus* L. (Ranunculaceae) exhibited lipooxygenase and xanthine oxidase inhibition properties. *Natural Product Research*, 2017, 31:1251-1257.
36. Saeed M.; Gul F.; **Zafar S.**; Khalid M. K.; Achyut A. Antimicrobial and antioxidant activities of a new metabolite from *Quercus incana*. *Natural Product Research*, 2017, 31:1901-1909.
- 2016**
37. Farooq M. U.; Yousuf S.; **Zafar S.**; Choudhary M. I.; Ahmed M. Transferred multipolar atom model for 10 β ,17 β -dihydroxy-17 α -methylestr-4-en-3-one dehydrate obtained from the biotransformation of methyloestrenolone. *Acta Cryst C: Structural Chemistry*, 2016, C-72, 1-7.
38. Ahmed M.S.; **Zafar S.**; Yousuf S.; Wahab A.T.; Atta-ur-Rahman; Choudhary M.I. Biotransformation of 6-Dehydroprogesterone *Aspergillus niger* and *Gibberella fujikuroi*. *Steroids*, 2016, 112:62-67.
39. Hussain Z.; Dastagir N.; Hussain S.; Jabeen A.; **Zafar S.**; Malik R.; Bano S.; Wajid A.; Choudhary M.I. *Aspergillus niger*-mediated biotransformation of methenolone enanthate, and immunomodulatory activity of its transformed products. *Steroids*, 2016, 112:68-73.
40. **Zafar S.***; Ahmad R.; Khan R. Biotransformation: A green and efficient way of antioxidant synthesis. *Free Radical Research*, 2016, 50:939-948.
- 2015**
41. Raziq N.; Saeed M.; Ali M. S.; **Zafar S.**; Ali M. I. *In vitro* Anti-oxidant Potential of New Metabolites from *Hypericum oblongifolium* (Guttiferae). *Natural Product Research*, 2015, 29:2265-2270.
- 2014**
42. Ahmed M. S.; **Zafar S.**; Bibi M.; Bano S.; Atia-tul-Wahab; Atta-ur-Rahman; Choudhary M. I.. Biotransformation of Androgenic Steroid Mesterolone with *Cunninghamella blakesleeana* and *Macrophomina phaseolina*. *Steroids*, 2014, 82:53-59.
43. Choudhary M. I.; Khan N. T.; **Zafar S.**; Noreen S.; Al-Majid A. M.; Al-Resayes S. I.; and Atta-ur-Rahman. Biotransformation of dianabol with the filamentous fungi and β -glucuronidase inhibitory activity of transformed products. *Steroids*, 2014, 85:65-72.
44. **Zafar S.***; Khan A.; Khan M.; Parveen Z.; and Khan K. *In vitro* Evaluation of Anti-Microbial Potential of the Leaf Extracts of *Acacia modesta*. *Journal of the Chemical Society of Pakistan*, 2014, 36:1105-1108.
- 2013**
45. **Zafar S.**; Bibi M.; Yousuf S.; and Choudhary M. I. New metabolites from fungal biotransformation of an oral contraceptive agent: Methyloestrenolone. *Steroids*, 2013, 78. 418-425.
46. **Zafar S.**; Choudhary M. I.; Dalvandi K.; Mahmood, U.; and Zaheer-ul-Haq. Molecular Docking Simulation Studies on Potent Butyrylcholinesterase Inhibitors Obtained from Microbial Transformation of Dihydrotestosterone. *Chemistry Central Journal*, 2013, 7:164.
- 2012**
47. Choudhary, M. I.; **Zafar S.**; Khan N. T.; Ahmed S.; Noreen S.; Marasini B.; Al-Khedhairi A. A. and Atta-ur-Rahman Biotransformation of dehydroepiandrosterone with *Macrophomina phaseolina* and β -glucuronidase inhibitory activity of transformed products. *J. Enz. Inhib. Med. Chem.*, 2012, 27, 348-355.

48. **Zafar S.**; Yousuf S.; Kayani H. A.; Saifullah; Khan S.; Al-Majid A. M.; and Choudhary M. I. Biotransformation of oral contraceptive ethynodiol diacetate with microbial and plant cell cultures. *Chemistry Central Journal*, 2012, 6, 109.

2010

49. Yousuf S.; **Zafar S.**; Choudhary M. I.; Ng S. W. 17β -Hydroxy- 17α -(hydroxymethyl)estr-4-en-3-one. *Acta Cryst.*, 2010, E66, o2894.

RESEARCH SUPERVISION

Ph. D. THESES SUPERVISED/CO-SUPERVISED

S.NO.	STUDENT	SUPERVISION	YEAR COMPLETED
Four theses in progress			

MS/M. PHIL. THESES SUPERVISED/CO-SUPERVISED

S.NO.	STUDENT	SUPERVISION	YEAR COMPLETED
1	Irum Zaman	Co-supervised	2016
2	Saima Rehman	Co-supervised	2017
3	Sheema	Co-supervised	2018
4	Farrukh Sier	Supervised	2019
5	Samina Yasmeen	Supervised	2020
6	Afsana Rashid Khan	Supervised	2020
7	Abdul Haseeb Mohsin	Supervised	2021
8	Nisar Ahmad	Supervised	2021
9	Abdur Rahman	Supervised	2021
10	Kiren Bibi	Supervised	2023
11	Shanza Imtiaz	Supervised	2023
12	Amir Iqbal	Supervised	2023
13	Zenub	Supervised	2023
14	Palwasha	Supervised	2024
15	Ayesha Bibi	Supervised	2024
16	Muneeba	Supervised	2024
17	Rabiya Fareed	Supervised	2025

18	Raheela Aman	Supervised	2025
19	Sania Zeb	Supervised	2025
20	Karishma Bibi	Supervised	2025

BS/M.Sc. THESES SUPERVISED

S.NO.	STUDENT	BS/M.Sc.	YEAR COMPLETED
1.	Aziz Khan	M. Sc.	2013
2.	Noshi Alam	M. Sc.	2013
3.	Muhammad Nabi	M. Sc.	2014
4.	Inam-ur-Rahman	M. Sc.	2014
5.	Aqsa	M. Sc. (Co-supervised)	2015
6.	Abdur Rauf	M. Sc.	2016
7.	Kiran	M. Sc.	2016
8.	Mehwish Batool	M. Sc.	2017
9.	Sabagul	M. Sc.	2017
10.	Areesha Khan	M. Sc.	2017
11.	Naila Khan	M. Sc.	2019
12.	Nagina Aziz	M. Sc.	2019
13.	Aamir Iqbal	M. Sc.	2019
14.	Laiba Shah	M. Sc.	2019
15.	Hadiqa Sufaid	M. Sc.	2019
16.	Areeba Hayat	M. Sc.	2021
17.	Bakhtullah Shah	M. Sc.	2021
18.	Yousuf Khan	M. Sc.	2022
19.	Umat Khan	M. Sc.	2022
20.	Saba Naz	M. Sc.	2022
21.	Gul Ghutai	M. Sc.	2022
22.	Anisa	M. Sc.	2022

23.	Kashif Khattak	M. Sc.	2022
24.	Naqeeb Ullah	M. Sc.	2022
25.	Sumayya Bibi	M. Sc.	2022
26.	Aman Ullah	M. Sc.	2022
27.	Ayesha Azmat	BS	2022
28.	Asif Ullah	BS	2022
29.	Mahnoor	M. Sc.	2023
30.	Asma Bibi	M. Sc.	2023
31.	Gul Jana	M. Sc.	2023
32.	Inayat Ullah	M. Sc.	2023
33.	Nadeem	M. Sc.	2023
34.	Amna Ilyas	BS	2023
35.	Aleena	BS	2023
36.	Muqaddas Imtiaz	BS	2023
37.	Maryam Khan	BS	2023
38.	M. Rafe	BS	2023
39.	Munsif Khan	BS	2023
40.	Junaid Khan	BS	2023
41.	Humaira Khan	BS	2023
42.	Humaira Shabbir	BS	2023
43.	Hudna Jamil	BS	2023
44.	Intikhab Alam	BS	2023
45.	Shahab Ahmed	BS	2023
46.	Muqaddas Khalid	BS	2023
47.	Sumayyah Bibi	BS	2023
48.	Hassan	BS	2023
49.	Amna shah	BS	2023
50.	Mahnoor Siddique	BS	2023

51.	Akhtar Baz	BS	2024
52.	Sardar Khan	BS	2024
53.	Aqsa Mehreen	BS	2024
54.	Faheem Ullah	BS	2024
55.	Shams ul Kareem	BS	2024
56.	Obaid Rahman	BS	2024
57.	Hanzala Khan	BS	2024
58.	Muhammad Bilal	BS	2024
59.	Aqsa Mehreen	BS	2025
60.	Saima Moeen	BS	2025
61.	Muhammad Umar	BS	2025
62.	Wajiha Khan	BS	2025
63.	Maria Aleem	BS	2025
64.	Saman Shahid	BS	2025
65.	Shawana Ijaz	BS	2025

TEACHINGS:

- | | |
|--|---|
| ❖ Basic Organic Chemistry | ❖ Basic Concepts in Organic Chemistry |
| ❖ Basic Inorganic Chemistry | ❖ Reactions involving Alkenes, Carbonyl, and Organometallic compounds |
| ❖ Reaction Mechanism | ❖ Practical Organic Chemistry |
| ❖ Natural Product Chemistry | ❖ Pharmaceutical Chemistry |
| ❖ Retrosynthesis | ❖ Advance Nuclear Magnetic Resonance Spectroscopy |
| ❖ Photochemistry | |
| ❖ Spectral Analysis of Organic Compounds | |
| ❖ Heterocyclic Chemistry | |
| ❖ Stereochemistry | |

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