

# Dr.(*rer.nat.*)Kashif Jilani

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## Personal Information:

**Date of Birth:** 01-01-1984

**Nationality:** Pakistani

**Field of Specialization:** Cellular Biochemistry with specialization in apoptosis (eryptosis), Cancer biology, Clinical biochemistry, Nano particle synthesis, Biodegradation Technologies.

**Research Group:** **Group Leader** Cellular Biochemistry Research Group

**Establishment of Lab:** Established **Cellular Biochemistry Research Lab.** in Dept. of Biochemistry, UAF with high quality research facilities for research on apoptosis/eryptosis related compounds and pathways.

## Education:

|         |      |                                                  |                                                                                   |
|---------|------|--------------------------------------------------|-----------------------------------------------------------------------------------|
| Ph.D.   | 2014 | Eberhard Karls University of Tuebingen, Germany. | Major <b>Biochemistry</b> with research in Cellular Biochemistry.                 |
| M.Phil. | 2009 | University of Agriculture, Faisalabad, Pakistan. | Major <b>Biochemistry</b> with research in Molecular Biochemistry.                |
| M.Sc.   | 2007 | University of Agriculture, Faisalabad, Pakistan. | Major <b>Biochemistry</b> with research in Industrial Biotechnology.              |
| B.Sc.   | 2004 | University of Punjab, Lahore, Pakistan.          | <b>Medical Laboratory Technology</b> with specialization in Exfoliative Cytology. |

## Professional Experience:

- Associate Professor (Tenured) of Biochemistry (TTS), Dept. of Biochemistry, UAF (December 2023 **to** date)
- Assistant Professor of Biochemistry (TTS), Dept. of Biochemistry, UAF (February 2015 **to** December 2023)
- Assistant Professor of Biochemistry (IPFP), Dept. of Biochemistry, UAF (July 2014 to February 2015).
- Research Associate, Industrial Biotechnology Lab. Dpt. of Biochemistry, University of Agriculture, Faisalabad, Pakistan (2008).

## Salient Achievements and Honors:

- Ranked No. 1 scientist in the PCST (Pakistan Council for Science and Technology) ranking for productive scientists (Biological Sciences) under 40 years of age for the years 2016, 2017, and 2018.
- Ph.D. awarded with Magna Cum Laude (Distinction).
- Received Ph.D. Funding from the Deutsche Forschungsgemeinschaft (DFG), Germany.
- Highly cited researcher in German universities for 2016: ranked 11th in physiology and 25th in biology.
- Best Poster Presentation Award, International Congress on Hydration & Cell Volume Regulation, Tübingen, *Germany*, 2011
- Appointed as Assistant Professor (TTS) in the department of biochemistry, university of agriculture Faisalabad (UAF), with four additional salary increments in recognition of academic excellence.

## Technical Expertise

- **In Vitro:** Flow-cytometry (single/multicolor), mammalian cell culture, ELISA, western blotting, confocal microscopy, spectrophotometry, agarose gel electrophoresis, PCR/gene amplification, quantification of ceramide, glutathione, ATP, and hemolysis in erythrocytes and cancer cell lines.
- **In Vivo:** Handling, breeding, and genotyping of wild-type, transgenic, and knockout mice; drug administration (oral, IV, IP, SC); organ/tissue isolation for histopathology; in vivo clearance studies using labeled cells.
- **Analytical & Lab Management:** GLP-compliant documentation and reporting, statistical analysis (GraphPad, SPSS), SOP preparation, data interpretation, manuscript/grant writing, and interdisciplinary collaboration.

## Research Projects:

(Principal Investigator)

- Project entitled 'Protection of erythrocytes from oxidative stress induced eryptosis by using different medicinally important plant extracts'. HEC funded project (Rs. 0.5 million).
- Inhibition of enhanced eryptosis in diabetes mellitus and chronic kidney disease patients by plant based novel compounds. (1.5 Million). (Industry Academia Linkage).

## Research Metrics: (to date)

- h-index: **39**
- i10-index: **71**
- Total Published Research Articles: **99**
- Total Journal Impact Factor: **332.9**
- Citations: **4841**
- Submitted/ under Review: **03**

## Research Profile Links:

- **Google Scholar:** <https://scholar.google.com/citations?hl=en&authuser=2&user=1SpqpOwAAAAJ>
- **ORCID:** <https://orcid.org/0000-0002-1761-4100>
- **Pub Med:** [https://pubmed.ncbi.nlm.nih.gov/?show\\_snippets=off&term=Jilani+K&cauthor\\_id=32863802](https://pubmed.ncbi.nlm.nih.gov/?show_snippets=off&term=Jilani+K&cauthor_id=32863802)
- **Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=42761571900>
- **Web of Science:** <https://www.webofscience.com/wos/author/record/D-6151-2015>
- **Scholar GPS:** <https://scholargps.com/scholars/87805743236094/kashif-jilani>

## Research Publication Details:

1. Bibi, I., Ashraf, A., Kamal, S., Taj, B., Umair, H. M., Jilani, K., ... & Iqbal, M. (2026). MgO-doped ZnCo<sub>2</sub>O<sub>4</sub>/graphene nanocomposites with double Z-scheme charge transfer for solar-light-induced photocatalysis. INORGANIC CHEMISTRY COMMUNICATIONS, 183. (IF:5.9)
2. Sikandar M, Fatima M, **Jilani K** and Xing L (2026) Isoniazid subverting erythrocyte homeostasis: implications for tuberculosis therapy. Front. Pharmacol. 17:1721617. doi: 10.3389/fphar.2026.172161. (IF:4.8)
3. Khan, M. A. B., **Jilani, K.**, Mushtaq, Z., & Nawaz, H. (2026). Allicin based inhibition of eryptosis: A novel therapeutic approach against hyperosmolarity triggered anemia. Pakistan journal of pharmaceutical sciences, 39(5), 1413-1422. (IF:0.6)
4. Shabbir, F., Ghaffar, M., Fatima, R., Anwar, A., Komal, A., Fatima, M., & **Jilani, K.** (2026). Anti-eryptotic role of quercetin: A novel therapeutic approach to attenuates hyperosmolarity-induced oxidative damage in erythrocytes. The Research of Medical Science Review, 4(3). <https://doi.org/10.5281/zenodo.18871616>.
5. Bibi, I., Ashraf, A., Kamal, S., Taj, B., Umair, H. M., **Jilani, K.**, ... & Iqbal, M. (2026). MgO-doped ZnCo<sub>2</sub>O<sub>4</sub>/graphene nanocomposites with double Z-scheme charge transfer for solar-light-induced photocatalysis. INORGANIC CHEMISTRY COMMUNICATIONS, 183. (IF:5.4)
6. Tkachenko, A., Alfhili, M.A., Alsughayyir, J., Attanzio, A., Al Mamun Bhuyan, A., Bukowska, B., Cilla, A., Quintanar-Escorza, M.A., Föller, M., Havranek, O. and **Jilani, K.**, 2025. Current understanding of eryptosis: mechanisms, physiological functions, role in disease, pharmacological applications, and nomenclature recommendations. Cell Death & Disease, 16(1), p.467. (IF:9.6)
7. Fatima, I., Haider, M., Sadiq, M. J., Shahid, M., Ahmad, S. W., Abid, F., ... & **Jilani, K.** (2025). Determination of the Role of Chrysin in Erythrocytes Survival. Indus Journal of Bioscience Research, 3(8), 386-394. (IF:1.2)
8. Butt, N., Nasir, S., Ahmad, U., Haider, M., Haider, I., Murtaza, A., ... & **Jilani, K.** (2025). Curcumin Attenuates Hippuric Acid-Induced Eryptosis by Enhancing Antioxidant Enzyme Activity. Indus Journal of Bioscience Research, 3(8), 139-147. (IF:1.2)

9. Hassan, M. N., Rasheed, M., Butt, N., Anwar, N., Shahab, A., Ashiq, M., Ali, W. H., & **Jilani, K.** (2025). Mineral Pitch Attenuates Oxidative Stress-Induced Eryptosis in Human Erythrocytes via Antioxidants and Calcium-Modulatory Mechanism. *Indus Journal of Bioscience Research*, 3(6), 520–529. <https://doi.org/10.70749/ijbr.v3i6.1690>. (IF:1.2)
10. Kamran, J. A., Bibi, I., Ghafoor, A., Majid, F., Kamal, S., **Jilani, K.**, ... & Iqbal, M. (2025). MgFe<sub>2</sub>O<sub>4</sub>/MnO<sub>2</sub> heterojunction with the synergistic effect of magnetic reparability and visible light-responsive photocatalytic material. *Journal of the Korean Ceramic Society*, 1-14. (IF:3.8)
11. Sikandar, M., Khan, M. A. B., **Jilani, K.**, & Xing, L. (2025). Effects of Fluconazole on Oxidative Stress and Cellular Well-being in Erythrocytes. *Biochemical and Biophysical Research Communications*, 152006. (IF:2.2)
12. Bibi, I., Ashraf, A., Kamal, S., Taj, B., Umair, H. M., **Jilani, K.**, Nazar, N., Alsaif, N. A. M., Nazir, A., & Iqbal, M. (2026). MgO-doped ZnCo<sub>2</sub>O<sub>4</sub>/graphene nanocomposites with double Z-scheme charge transfer for solar-light-induced photocatalysis. *Inorganic Chemistry Communications*, 183, 112375. (IF:5.4)
13. Bibi, I., Majid, F., Raza, Q., Kamal, S., **Jilani, K.**, Nouren, S., . . . Iqbal, M. (2025). Co-doped Strontium Hexaferrite (SrCo<sub>x</sub>Fe<sub>12-x</sub>O<sub>19</sub>) Nanoparticles for Photocatalytic Degradation of Methyl Red Dye Degradation. *Semiconductors*, 59(4), 391-403. doi: 10.1134/S1063782624602905. (IF:0.6)
14. Naz, A., Bibi, I., Majid, F., Dahshan, A., **Jilani, K.**, Taj, B., Ghafoor, A., Nazeer, Z., Alzahrani, F.M., Iqbal, M. (2024). Cu and Fe doped NiCo<sub>2</sub>O<sub>4</sub>/g-C<sub>3</sub>N<sub>4</sub> nanocomposite ferroelectric, magnetic, dielectric and optical properties: Visible light-driven photocatalytic degradation of RhB and CR dyes. *Diamond and Related Materials*, 141. (IF:5.1)
15. Raza, Q., Bibi, I., Majid, F., Dahshan, A., Kamal, S., **Jilani, K.**, Fatima, G., Taj, B., Alwadai, N., Iqbal, M. (2024). Dielectric, ferroelectric, optical and photocatalytic properties of Al and Ag-doped strontium hexaferrite (SrFe<sub>12</sub>O<sub>19</sub>) synthesized via facile micro-emulsion approach. *Journal of Alloys and Compounds*, 985. (IF:6.3)
16. Bibi, I., Majid, F., **Jilani, K.**, Kamal, S., Taj, B., Nazeer, Z., Abbas, M., Mnif, W., Iqbal, M., Nazir, A., Alwadai, N. (2024). Dielectric, ferroelectric, optical and photocatalytic properties of Zn-doped SrFe<sub>12-x</sub>Zn<sub>x</sub>O<sub>19</sub> synthesized via a microemulsion route. *Journal of the Indian Chemical Society*, 101(9). (IF:3.4)
17. Aslam, H.M., Sohail, A., Shahid, A., Khan, M.A.B., Sharif, M.U., Kausar, R., Nawab, S., Farooq, W., **Jilani, K.**, Rasheed, M. (2024). Levofloxacin induces erythrocyte contraction leading to red cell death. *Drug Target Insights*, 18(1), 78-83. (IF:3.3)
18. Riaz, R., Bibi, I., Majid, F., Kamal, S., Huwayz, M.A., **Jilani, K.**, Ghafoor, A., Raza, Q., Alwadai, N., Iqbal, M. (2024). NiFe<sub>2</sub>O<sub>4</sub>/CuO heterostructures optical, magnetic and photocatalytic properties: Methylene blue dye degradation under solar light irradiation. *Journal of Molecular Structure*, 1309. (IF:4.7)
19. Amjad, M., Bibi, I., Majid, F., **Jilani, K.**, Sultan, M., Raza, Q., Ghafoor, A., Alwadai, N., Nazir, A., Iqbal, M. (2024). NiO/MnFe<sub>2</sub>O<sub>4</sub> Nanocomposite Photoluminescence, Structural, Morphological, Magnetic, and Optical Properties: Photocatalytic Removal of Cresol Red under Visible Light Irradiation. *ACS Omega*, 9(19), 20876-20890. (IF:4.3)
20. Mujtaba, S., Bibi, I., Majid, F., Dahshan, A., Kamal, S., **Jilani, K.**, Nouren, S., Rahman, J., Alzahrani, F.M., Alsaieri, N.S., Iqbal, M. (2024). Optical, dielectric and photocatalytic properties of Ag-doped Sr<sub>1-x</sub>Ag<sub>x</sub>Fe<sub>12</sub>O<sub>19</sub> and CV dye degradation under visible light irradiation. *Journal of Alloys and Compounds*, 972. (IF:6.3)
21. Umair, H.M., Bibi, I., Majid, F., Dahshan, A., Kamal, S., **Jilani, K.**, Nouren, S., Nazer, Z., Iqbal, M., Alwadai, N. (2024). Synthesis of Dy-doped calcium hexaferrite (CaDy<sub>x</sub>Fe<sub>12-x</sub>O<sub>19</sub>) nanoparticles and their ferroelectric, dielectric, magnetic and photocatalytic properties under solar light irradiation. *Journal of Alloys and Compounds*, 999. (IF:6.3)
22. Naqvi, S., **Jilani, K.**, Ruby, T., Khan, M. N., Azam, S. M., Imtiaz, A., Ameer, F., Malik, A., Arshad, M., Khan, A., Hussain, M., Ali, H., & Liaqat, M. (2024). Evaluation of oxidative effects of clarithromycin on liver, kidney and gills of *Oreochromis niloticus*. *Journal of Population Therapeutics and Clinical Pharmacology*, 31(2), 879–889. <https://doi.org/10.53555/jptcp.v31i2.4266>.
23. Ghafoor, A., Bibi, I., Majid, F., Kamal, S., **Jilani, K.**, Sultan, M., Alwadai, N., Ali, A., Ali, A., Nazir, A., Iqbal, M. (2023). Electrochemical, ferroelectric and dielectric properties of Gd, Fe and Mn doped nickel perovskite with robust photocatalytic activity under visible light. *Materials Science in Semiconductor Processing*, 160. (IF:4.6)

24. Rafiq, M.A., Shahid, M., **Jilani, K.**, Aslam, M.A. (2022). Antibacterial, Antibiofilm, and Anti-Quorum Sensing Potential of Novel Synthetic Compounds Against Pathogenic Bacteria Isolated From Chronic Sinusitis Patients. *Dose-Response*, 20(4). (IF:2.6)
25. Ahmad, G., Javed, Y., Jamil, Y., **Jilani, K.** (2022). Efficient label-free detection of chloramphenicol by iron-doped cadmium sulfide nanomaterials. *Journal of Materials Science: Materials in Electronics*, 33(15), 12295-12309. (IF:2.5)
26. Misbah, Bibi, I., Majid, F., Kamal, S., **Jilani, K.**, Taj, B., Nazeer, Z., Iqbal, M. (2022). Enhanced visible light-driven photocatalytic degradation of crystal violet dye using Cr doped BaFe<sub>12</sub>O<sub>19</sub> prepared via facile micro-emulsion route. *Journal of Saudi Chemical Society*, 26(6). (IF:5.6)
27. Bibi, I., Ghulam, T., Kamal, S., **Jilani, K.**, Alwadai, N., Iqbal, M. (2022). Green synthesis of iron nanoparticles and photocatalytic activity evaluation for the degradation of methylene blue dye. *Zeitschrift fur Physikalische Chemie*, 236(9), 1191-1201. (IF:2.973)
28. Sattar, T., **Jilani, K.**, Parveen, K., Mushataq, Z., Nawaz, H., Khan, M.A.B. (2022). Induction of Erythrocyte Membrane Blebbing by Methotrexate-Induced Oxidative Stress. *Dose-Response*, 20(2). (IF:2.6)
29. Tanveer, A., Akhtar, B., Sharif, A., Saleem, U., Rasul, A., Ahmad, A., **Jilani, K.** (2022). Pathogenic role of cytokines in COVID-19, its association with contributing co-morbidities and possible therapeutic regimens. *Inflammopharmacology*, 30(5), 1503-1516. (IF:5.8)
30. Mukhtar, F., **Jilani, K.**, Bibi, I., Mushataq, Z., Bari Khan, M.A., Fatima, M. (2022). Stimulation of Erythrocyte Membrane Blebbing by Bifenthrin Induced Oxidative Stress. *Dose-Response*, 20(1). (IF:2.6)
31. Abbas, M., Hussain, T., Iqbal, J., Rehman, A.U., Zaman, M.A., **Jilani, K.**, Masood, N., Al-Mijalli, S.H., Iqbal, M., Nazir, A. (2022). Synthesis of Silver Nanoparticle from *Allium sativum* as an Eco-Benign Agent for Biological Applications. *Polish Journal of Environmental Studies*, 31(1), 533-538. (IF:1.8)
32. Iqbal, S., Bibi, I., Majid, F., **Jilani, K.**, Kamal, S., Iqbal, M., Ata, S., Nazar, N., Albalawi, H., & Alwadai, N. (2022). The electrochemical, dielectric, and ferroelectric properties of Gd and Fe doped LaNiO<sub>3</sub> with an efficient solar-light driven catalytic activity to oxidize malachite green dye. *Journal of colloid and interface science*, 607(Pt 1), 568–583. <https://doi.org/10.1016/j.jcis.2021.08.209>. (IF:9.9)
33. Nargis, H.F., Nawaz, H., Bhatti, H.N., **Jilani, K.**, Saleem, M. (2021). Comparison of surface enhanced Raman spectroscopy and Raman spectroscopy for the detection of breast cancer based on serum samples. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, 246. (IF:4.4)
34. Aamir, M., Bibi, I., Ata, S., **Jilani, K.**, Majid, F., Kamal, S., Alwadai, N., Raza, M.A.S., Bashir, M., Iqbal, S., Aadil, M., Iqbal, M. (2021). Ferroelectric, dielectric, magnetic, structural and photocatalytic properties of Co and Fe doped LaCrO<sub>3</sub> perovskite synthesized via micro-emulsion route. *Ceramics International*, 47(12), 16696-16707. (IF:5.532)
35. Ata, S., Shaheen, I., Majid, F., Bibi, I., Ijaz-Ul-Mohsin, **Jilani, K.**, Slimani, Y., Iqbal, M. (2021). Hydrothermal route for the synthesis of manganese ferrite nanoparticles and photocatalytic activity evaluation for the degradation of methylene blue dye. *Zeitschrift fur Physikalische Chemie*, 235(11), 1433-1445. (IF:2.953)
36. Bibi, I., Kamal, S., Abbas, Z., Atta, S., Majid, F., **Jilani, K.**, Hussain, A.I., Kamal, A., Nouren, S., Abbas, A. (2020). A new approach of photocatalytic degradation of remazol brilliant blue by environment friendly fabricated zinc oxide nanoparticle. *International Journal of Environmental Science and Technology*, 17(3), 1765-1772. (IF:2.86)
37. Naveed, A., **Jilani, K.**, Siddique, A.B., Akbar, M., Riaz, M., Mushtaq, Z., Sikandar, M., Ilyas, S., Bibi, I., Asghar, A., Rasool, G., Irfan, M. (2020). Induction of Erythrocyte Shrinkage by Omeprazole. *Dose-Response*, 18(3). (IF:2.6)
38. Abbas, S., Bibi, I., Majid, F., Ata, S., Ibrahim, S.M., Kamal, S., Sultan, M., **Jilani, K.**, Iqbal, S., Iqbal, M. (2020). Micro-emulsion synthesis of La<sub>1-x</sub>Cr<sub>x</sub>FeO<sub>3</sub> nanoparticles: Effect of Cr doping on ferroelectric, dielectric and photocatalytic properties. *International Journal of Chemical Reactor Engineering*, 18(10-11). (IF:0.473)
39. Ilyas, S., **Jilani, K.**, Sikandar, M., Siddiq, S., Riaz, M., Naveed, A., Bibi, I., Nawaz, H., Irfan, M., Asghar, A. (2020). Stimulation of Erythrocyte Membrane Blebbing by Naproxen Sodium. *Dose-Response*, 18(1). (IF:2.6)

40. Maqsood, M., Mushtaq, Z., **Jilani, K.**, Khan, U. (2019). Active fractions from e. Coli atcc 35218 with antimicrobial and antioxidant properties. *Journal of Animal and Plant Sciences*, 29(5), 1433-1441. (IF:0.6)
41. Rana, R.B., **Jilani, K.**, Shahid, M., Riaz, M., Ranjha, M.H., Bibi, I., Asghar, A., Irfan, M. (2019). Atorvastatin Induced Erythrocytes Membrane Blebbing. *Dose-Response*, 17(3). (IF:2.6)
42. Bibi, I., Javed, S., Ata, S., Majid, F., Kamal, S., Sultan, M., **Jilani, K.**, Umair, M., Khan, M.I., Iqbal, M. (2019). Biodegradation of synthetic orange G dye by *Pleurotus sojar-caju* with *Punica granatum* peel as natural mediator. *Biocatalysis and Agricultural Biotechnology*, 22. (IF:3.4)
43. Ajmal, S., Bibi, I., Majid, F., Ata, S., Kamran, K., **Jilani, K.**, Nouren, S., Kamal, S., Ali, A., Iqbal, M. (2019). Effect of Fe and Bi doping on LaCoO<sub>3</sub> structural, magnetic, electric and catalytic properties. *Journal of Materials Research and Technology*, 8(5), 4831-4842. (IF:6.6)
44. Bibi, I., Nazar, N., Ata, S., Sultan, M., Ali, A., Abbas, A., **Jilani, K.**, Kamal, S., Sarim, F.M., Khan, M.I., Jalal, F., Iqbal, M. (2019). Green synthesis of iron oxide nanoparticles using pomegranate seeds extract and photocatalytic activity evaluation for the degradation of textile dye. *Journal of Materials Research and Technology*, 8(6), 6115-6124. (IF:6.6)
45. Nargis, H.F., Nawaz, H., Ditta, A., Mahmood, T., Majeed, M.I., Rashid, N., Muddassar, M., Bhatti, H.N., Saleem, M., **Jilani, K.**, Bonnier, F., Byrne, H.J. (2019). Raman spectroscopy of blood plasma samples from breast cancer patients at different stages. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, 222. (IF:4.3)
46. Shabir, K., **Jilani, K.**, Zbidah, M., Ammar, A., Riaz, M., Amjad, S.M., Bibi, I., Irfan, M., Asghar, A., Akbar, M. (2019). Triggering of erythrocyte membrane blebbing by ciprofloxacin. *Acta Poloniae Pharmaceutica - Drug Research*, 76(5), 901-906. (IF:0.4)
47. Nazar, N., Bibi, I., Kamal, S., Iqbal, M., Nouren, S., **Jilani, K.**, Umair, M., Ata, S. (2018). Cu nanoparticles synthesis using biological molecule of *P. granatum* seeds extract as reducing and capping agent: Growth mechanism and photocatalytic activity. *International Journal of Biological Macromolecules*, 106, 1203-1210. (IF:4.784)
48. Awais, H., Mushtaq, Z., Amer Jamil, M. J., & **Jilani, K.** (2018). Isolation of a Papain like Cysteine Proteases (PLCP) Gene Sequence from the Genomic DNA of Local Carica Papaya Plant. *Journal of Chemical and Pharmaceutical Research*, 10(2), 72-76.
49. Bibi, I., Nazar, N., Iqbal, M., Kamal, S., Nawaz, H., Nouren, S., Safa, Y., **Jilani, K.**, Sultan, M., Ata, S., Rehman, F., Abbas, M. (2017). Green and eco-friendly synthesis of cobalt-oxide nanoparticle: Characterization and photo-catalytic activity. *Advanced Powder Technology*, 28(9), 2035-2043. (IF:4.2)
50. Bibi, I., Kamal, S., Ahmed, A., Iqbal, M., Nouren, S., **Jilani, K.**, Nazar, N., Amir, M., Abbas, A., Ata, S., Majid, F. (2017). Nickel nanoparticle synthesis using *Camellia Sinensis* as reducing and capping agent: Growth mechanism and photo-catalytic activity evaluation. *International Journal of Biological Macromolecules*, 103, 783-790. (IF:4.784)
51. Bibi, I., Sultan, A., Kamal, S., Nouren, S., Safa, Y., **Jilani, K.**, ... & Rehman, F. (2017). Extraction and quantification of phenolic compounds from *Prunus armeniaca* seed and their role in biotransformation of xenobiotic compounds. *Korean Journal of Chemical Engineering*, 34, 392-399. (IF:0.559)
52. Lang, E., Bissinger, R., Fajol, A., Salker, M.S., Singh, Y., Zelenak, C., Ghashghaeinia, M., Gu, S., **Jilani, K.**, Lupescu, A., Reyskens, K.M.S.E., Ackermann, T.F., Fajol, A. (2015). Accelerated apoptotic death and in vivo turnover of erythrocytes in mice lacking functional mitogen- and stress-activated kinase MSK1/2. *Scientific Reports*, 5. (IF:5.578)
53. Calabrò S, Alzoubi K, Bissinger R, **Jilani K**, Faggio C, Lang F. Enhanced eryptosis following juglone exposure. *Basic Clin Pharmacol Toxicol*. 2015 Jun;116(6):460-7. doi: 10.1111/bcpt.12340. Epub 2014 Nov 21. PMID: 25348830. (IF:3.176)
54. Bibi, I., Nawaz, H., Kamal, S., **Jilani, K.**, Ruby, T., Warsi, F., Nouren, S. (2015). Investigation of catalytic properties of Manganese peroxidase (MnP) produced from *Agaricus bisporus* A21 and its potential application in the biotransformation of xenobiotic compound. *Journal of the Chemical Society of Pakistan*, 37(5), 859-868. (IF:0.6)

55. Malik, A., Bissinger, R., **Jilani, K.**, Lang, F. (2015). Stimulation of erythrocyte cell membrane scrambling by nystatin. *Basic and Clinical Pharmacology and Toxicology*, 116(1), 47-52. (IF:3.176)
56. Hosseinzadeh, Z., Honisch, S., Schmid, E., **Jilani, K.**, Szteyn, K., Bhavsar, S., Singh, Y., Palmada, M., Umbach, A.T., Shumilina, E., Lang, F. (2015). The role of janus kinase 3 in the regulation of Na<sup>+</sup>/K<sup>+</sup> ATPase under energy depletion. *Cellular Physiology and Biochemistry*, 36(2), 727-740. (IF:4.654)
57. Lang, F., **Jilani, K.**, Lang, E. (2015). Therapeutic potential of manipulating suicidal erythrocyte death. *Expert Opinion on Therapeutic Targets*, 19(9), 1219-1227. (IF:4.4)
58. Lang, E., **Jilani, K.**, Bissinger, R., Rexhepaj, R., Zelenak, C., Lupescu, A., Lang, F., Qadri, S.M. (2015). Vitamin D-rich diet in mice modulates erythrocyte survival. *Kidney and Blood Pressure Research*, 40(4), 403-412. (IF:3.16)
59. Malik A, Bissinger R, Calabrò S, Faggio C, **Jilani K**, Lang F. Aristolochic acid induced suicidal erythrocyte death. *Kidney Blood Press Res*. 2014;39(5):408-19. doi: 10.1159/000368454. Epub 2014 Oct 30. PMID: 25412628. (IF:3.16)
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#### Book Chapters: (06)

1. **Jilani, K.**, Ghaffar, M., Shabbir, F., Mehfooz, F., Rana, Z., Fatima, M., & Khan, M. A. B. (2026). Polyphenols and angiogenesis in wound healing. In *Polyphenols in Wound Healing* (pp. 299-321). Academic Press. (Elsevier)
2. Ghaffar, M., Shabbir, F., & **Jilani, K.** (2026). *Pathophysiological role of eryptosis in cardiovascular diseases*. In *Nanobiology, Pathology, and Disease Mechanisms* (Chap. 4). ISPEC Publishing House.
3. Almas, I., Majeed, W., Almas, K., **Jilani, K.**, Ayesha, & Waseem, M. (2026). *Global burden of water-borne diseases and prevention strategies*. In *Global Health and Natural Therapeutics: Contemporary Perspectives*. ISPEC Publishing House. <https://doi.org/10.5281/zenodo.19846056>
4. Nazar, A., Majeed, W., **Jilani, K.**, Saqib, M., & Bajwah, K. (2026). *Antibiotic resistance: Molecular mechanisms, clinical burden, and pharmacological counterstrategies*. In *Biomedical Innovations: Shaping the Future of Therapy*. ISPEC Publishing House. <https://doi.org/10.5281/zenodo.19845953>
5. Waseem, M., Majeed, W., **Jilani, K.**, Ayesha, & Almas, K. (2026). *Pathophysiology of musculoskeletal pain: From acute injury to chronic pain*. In *Modern Healthcare and Pharmaceutical Innovation: AI, Practice, and Professionalism*. ISPEC Publishing House. <https://doi.org/10.5281/zenodo.19846517>
6. **Jilani K**, F Mehfooz, Z Rana, F Shabbir, M Ghaffar, M Fatima, MAB Khan, Z Javaid, 2025. Eryptosis in health and disease. In: *Advances in Animal and Life Sciences* (Sindhu ZuD, M Imran, MA Zafar & S Yousaf, Eds.): FahumSci, Lahore, Pakistan, pp. 23-32. ISBN: 978-627-7745-12-7. <https://doi.org/10.61748/AALS.2025/04>

#### Student Mentorship:

| Degree  | Produced /Final Thesis Submitted | Currently Under Supervision |
|---------|----------------------------------|-----------------------------|
| PhD     | 01/04                            | 03                          |
| M.Phil. | 120                              | 18                          |
| BS/M.Sc | 86                               | 11                          |



## Invited Talks, Presentations and Event Organization: (Salient)

1. Workshop on Capacity Building of UAF faculty for Artificial –Intelligence- Basics and Applications.(13-22 July 2026).
2. 1st International and 4<sup>th</sup> National Training workshop on Plant Based Drug Discovery: Bridging in Silico and lab Approaches. (February 21-22, 2025)
3. 3<sup>rd</sup> One day National Hands on Training Workshop on Basic Tools of Bioinformatics for Molecular Biology and Biomedical Research. (9<sup>th</sup> and 10<sup>th</sup> April 2025).
4. 2<sup>nd</sup> National seminar on ‘Research Designing, Research Proposal Writing & Drug Designing, (28<sup>th</sup> November 2024)
5. National Training workshop on Basic tools of Bioinformatics for molecular biology and Biomedical Research (12-14 December 2023)
6. National workshop on CRISPR Applications in Biological Systems 30 Nov- 01 Dec 2023)
7. International Symposium on Recent Advances in Life Sciences. (17-18 March, 2023).
8. Attended professional development workshop for young faculty” from 23 to 25 November 2022.
9. Attended webinar expand your spectral flow cytometry knowledge and panel size on 21 October 2021.
10. Delivered a lecture as guest speaker on “scope of biochemistry and scientific writing skills” conducted on 27<sup>th</sup> December 2020 by Online Biochemist Scholars Academy.
11. Attend webinar entitled cell counting and viability: faster results through automation. (10 November, 2020)
12. One day national symposium on Intellectual disabilities and brain health (13 December, 2019)
13. INTERNATIONAL SEMINAR’ NUTRITION OF COMMERCIAL LAYERS AND EGG BRANDING TRENDS ( November 27, 2019)
14. Oral presentation, 2nd NATIONAL CONFERENCE ‘FUTURE MED-2019 (August 22-23, 2019)
15. Poster presentation, ONE DAY SYMPOSIUM ON NANOMEDICINE: CURRENT SCENARIO AND FUTURE PERSPECTIVE (August 6, 2019)
16. NATIONAL CAMEL CONFERENCE -2019 HEALTH,REPRODUCTION, PRODUCTION AND PRODUCTS (June 25, 2019)
17. 6th INTERNATIONAL CONFERENCE ON SUSTAINABLE AGRICULTURE IN CHANGING CLIMATE: STRATEGIES AND MANAGEMENT ( June 19-21, 2019)
18. 2nd INTERNATIONAL CONFERENCE ‘FUTURE MED-2019 ( February 22-24, 2019)
19. INTERNATIONAL SYMPOSIUM ON TECHNOLOGIES AND MATERIALS FOR RENEWABLE ENERGY, ENVIRONMENT & SUSTAINABILITY ( February 6-7, 2019)
20. International Conference on Food Processing and Entrepreneurship (29-30 January, 2019)
21. 2<sup>nd</sup> International Conference of Biochemistry, Biotechnology and Biomaterials” (09-11 December 2018)
22. Workshop/Training on QEC Self Assessment Proforma (20-11-2018)
23. International Seminar FOOD PROCESSING;A NEGLECTED PEARL of FOOD SECTOR ( April 03,2018)
24. Nutrition Mela and Product Development Competition 2018 (22-23 February 2018)
25. One day training workshop on “Bioassays for Exploration of Bioactives” (28, March, 2018)
26. One day seminar on Value Added Food Products: Issues and Opportunities for Entrepreneurs (19 January, 2018)
27. Capacity Building Workshop on BIOSAFETY MEASURES IN AGRICULTURE (20-21, February, 2017)
28. HANDS ON TRAINING ON TURNTIN (30-05-2017)
29. 3 day training program on An Introduction to LATEX, UAF synopsis & thesis (26-28 July, 2017)
30. One day Seminar on Intellectual Property Rights (01 November, 2017)
31. International Conference of Biochemistry, Biotechnology and Biomaterials (ICBBB 2016) February 22-24, 2016, University of Agriculture, Faisalabad (Poster Presentation)
32. Pre-conference National Seminar On Leading Persuasion n Metabolic Disorder,15<sup>th</sup> March, 2016
33. Technical Workshop: From Idea to Peer Reviewed Research; April 21<sup>st</sup>, 2016
34. One Day International Workshop on “Hydrological Modeling” & Hands on Trainings on “Statistical Downscaling Modeling (SDSM)”. University of Agriculture, Faisalabad
35. Tibbi Seminar on Tibb, Nature & Science 21<sup>st</sup> August 2016, University of Agriculture, Faisalabad
36. Symposium and Hands-on Workshop on Modern Strategies in Drug Discovery and Vaccine Design, December 02, 2016. Syed Babar Ali School of Sciences and Engineering, LUMS, Lahore. (Poster Presentation)
37. Participation in one day International workshop on Hydrological Modeling and Hands on training workshop on Statistical Downscaling Modeling (SDSM). April 19, 2016, Faisalabad, Pakistan.
38. Participation in Biosafety Training Workshop for Young Scientists. June 13, 2015, Faisalabad, Pakistan.
39. Participation in Grant Writing Workshop (Competitive Grant Program). June 1, 2015, Faisalabad, Pakistan.
40. Participation in Workshop on Bioactive Peptides/Proteins. March 27-28, 2015, Faisalabad, Pakistan.
41. Delivered lecture in Conference for Clinical Biochemistry short course. February, 2015.
42. Participation in 7<sup>th</sup> National Seminar for Capacity Building of CAM Practitioners. 27<sup>th</sup> Feb. 2015 Faisalabad, Pakistan.
43. Poster Presentation with title ‘Withaferin A induced erythrocyte membrane phospholipid asymmetry’. German Physiology Congress (DPG)-2013, Heidelberg, Germany.
44. Poster Presentation with title ‘p38 MAPK activation and function following osmotic shock of erythrocytes’. German

- Physiology Congress (DPG)-2012, Dresden, Germany.
45. Poster Presentation with title 'Protein kinase CK1a Regulates Erythrocyte Cell Volume and Survival by Conveying Modulation of Channel Activity'. International Congress: Hydration & Cell Volume Regulation -2011, Tuebingen, Germany. (Poster Prize)
  46. Poster Presentation with title 'CORM-2 triggers erythrocyte phospholipid scrambling paralleled with cell swelling'. International Congress: Hydration & Cell Volume Regulation -2011, Tuebingen, Germany.
  47. Poster Presentation with title 'Protein kinase CK1 in the regulation of suicidal erythrocyte death'. German Physiology Congress (DPG) - 2011, Regensburg, Germany.
  48. Poster Presentation with title 'Studies on Biodegradation of Direct Dyes by a White Rot Fungus'. International Conference of Plant Scientists (ICPS)-2008, Faisalabad, Pakistan.

#### Editorial & Peer Review Roles:

- Editorial/Advisory Board Membership of our journal **The Open Toxicology Journal**.
- Associate editor of **Significance of Bioengineering and Biosciences (ISSN: 2637-8078)**, Crimson Publisher.
- Member Editorial board, Journal of **Biological Research Communications (JBRC)**.
- Associate editor of **Journal of Biochemistry, Biotechnology and Biomaterials (JBBS)**.
- Permanent reviewer of journal **Cellular Physiology and Biochemistry**.
- Reviewer of Several international, impact factor journals.

#### Teaching Experience:

- Focused on both foundational concepts and advanced applications in biomedical sciences.
- Designed and taught different Biochemistry courses (Basic, Cellular, Clinical, Molecular, Medical, Blood and Immunochemistry) across Ph.D., M.Phil., MSc, and BS/BSc programs.
- **New courses developed:**
  - i. Biochem-731: Cellular Biochemistry
  - ii. Biochem-700: Concepts of Biochemistry
  - iii. Biochem-304: Biosafety and Ethics

#### Salient Academic Services:

- Member academic council, University of Agriculture, Faisalabad.
- Member Faculty Board, Faculty of Sciences, University of Agriculture, Faisalabad
- Secretary Board of Studies, Department of Biochemistry, University of Agriculture, Faisalabad.
- Coordinator, BS Biochemistry program, University of Agriculture, Faisalabad. (2022-2025)
- Member Admission Scrutiny Committee, University of Agriculture, Faisalabad. (2022-2025)
- Member Undergraduate Admission Committee, University of Agriculture, Faisalabad. (2022-2025)
- Departmental focal person for University ORIC.
- Departmental focal person for outreach activities.
- Departmental focal person for university Directorate of Graduate Studies
- Member Departmental Liaison Committee for Industry Academia Linkages
- Member of committee for Faculty Linkages for Academic Research and Entrepreneurship (FLARE)
- Member Board of Studies, for the degree BS (Hons.) Medical Lab. Technology at College of Allied Health Professionals Govt. College University, Faisalabad.
- In charge of the departmental chemical store.
- Departmental focal person for university website.
- Worked as IBC monitoring officer for several postgraduate research projects at the department of biochemistry.
- Member Departmental SAR Assessment Team.
- Member departmental advisory board.

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