

MOHEMMED FARAZ KHAN, PhD

📍 A-44, Bagh Dil Kusha, Bhopal, M.P., India -462023 📞 +91 – 9806144786 ✉ faraz91khan@gmail.com

SUMMARY

- Computational Medicinal Chemist with expertise in organic synthesis and Computer-Aided Drug Design.
- Expertise in small molecule design and multi-step synthesis, compound purification, analysis and characterization techniques like NMR, FT-IR, column chromatography, flash chromatography.
- Preparing and conducting lectures, tutorials, and seminars for undergraduate and postgraduate students.
- Expertise in a wide range of CADD tools and techniques, including Molecular Docking, Pharmacophore and QSAR, Cheminformatics and Multiple Sequence Alignment.
- Using Python programming and data analytics to find novel therapeutically active small molecules, and for the development and automation of software workflows and pipelines.
- Developed an automated unified interface software platform called DataPype, that wraps different drug design software to search for potential drugs using specialist software of user's choice.
- Well experienced in working with interdisciplinary team and making cross-functional collaborations.
- Extensive experience in conceptualizing, structuring, drafting, and editing manuscripts for peer-reviewed publications with 35+ published research and review articles in journals of high repute.

TEACHING & RESEARCH EXPERIENCE

- **Associate Professor (Grade-II)**, Faculty of Pharmacy, Integral University, Lucknow, India (March 2023 – Present)
 - Preparing and conducting lectures, tutorials, and seminars for undergraduate and postgraduate students.
 - Experienced in designing assessment processes and conducting theory and practical examinations.
 - Participating in departmental meetings.
 - Good knowledge of modern online and blended teaching methods.
 - Engagement in research work along with publications and writing research funding proposals.
 - Engaging in collaborative work with external researchers.
 - Guiding and mentoring postgraduate students in their research projects.
 - Good understanding of different QA and feedback techniques to assess self-teaching capabilities.
- **IRC Postdoctoral Research Fellow**, Trinity College Dublin, Ireland (Oct 2020 – Sep 2022)
Project Title: *Enabling faster drug discovery – development of a unified software platform for computer-aided drug design*
 - Streamline sourcing of data from different databases and automate the processing/cleaning of data into a form usable by multiple CADD software.
 - Apply multiple CADD tools in parallel against the protein target to identify hit compounds and allow self-optimization.
 - Develop a python-based wrapper and GUI around the CADD tools to create a single interface to distribute calculations over multiple CPU/GPU cores.
 - Validation of software by physically hit-to-lead optimizing novel molecules targeting the androgen receptor (AR) protein.
- **Research Assistant** (PhD Program, Pharmaceutical Chemistry), Jamia Hamdard, New Delhi, India (Jan 2016 – Jan 2020)
Project Title: *Synthesis and biological evaluation of novel pyrazole-4-acrylic acid analogues as potential anticancer and anti-inflammatory agents*
 - Worked on research project for synthesis of novel pyrazole-based compounds

- Utilized analytical techniques and approaches to analyze newly synthesized pyrazole compounds
 - Therapeutically evaluated the novel compounds for efficacy against cancer and inflammatory diseases
 - Utilized several computational studies like molecular docking, QSAR, in-silico ADME prediction in designing of molecules.
 - Drafted several manuscripts based on own and collaborative research projects
 - Drafted and submitted grant applications to different national funding authorities – on behalf of the supervisor
 - Actively published (30+ publications) in peer-reviewed international journals, particularly on computational chemistry based techniques.
 - Presented (oral and poster) in national and international conferences
 - Mentored and supervised junior laboratory members and associates.
 - Peer-reviewed around a dozen manuscripts under the mentorship of my supervisor.
- **Project Assistant** (M. Pharm, Pharmaceutical Chemistry), Jamia Hamdard, New Delhi, India (Jul 2013 – May 2015)
Project Title: *Synthesis and in vitro antimalarial evaluation of pyrazole and 1,3,4-oxadiazole based hybrid compounds*
 - Synthesis of pyrazole and oxadiazole based compounds and their characterization based on IR, NMR, HPLC, and Mass Spectrometry.
 - Antimalarial evaluation of synthesized compounds.
 - Molecular Docking, QSAR, and in-silico ADME prediction of synthesized molecules.
 - Organized 10 national conferences with my Supervisors during my Master's and Doctoral studies.

EDUCATION

- **Postdoctoral Fellow**, Trinity College Dublin, Ireland. Oct 2020 – Sep 2022
- **PhD (Pharmaceutical Chemistry)**, Jamia Hamdard, New Delhi, India. Jan 2016 – Jan 2020
- **M. Pharm (Pharmaceutical Chemistry)**, Jamia Hamdard, New Delhi, India. Jul 2013 – May 2015
- **B. Pharm**, Rajiv Gandhi Praudyogiki Vishwavidyalaya, Bhopal, India. Sep 2009 – May 2013

RESEARCH INTERESTS & SCIENTIFIC EXPERTISE

- **Organic Synthesis and Analytical Techniques:**
 - **Skills & Specialties:**
Advanced understanding in medicinal chemistry, small molecule design and multi-step synthesis, microwave synthesis. Expertise in compound purification, analysis and characterization techniques like NMR, HPLC, LCMS, FT-IR, column chromatography, flash chromatography.
- **Molecular Modelling & Programing:**
 - **Interests:**
Computational Chemistry, Computer-Aided Drug Design (CADD), Drug Discovery, Cheminformatics, Bioinformatics
 - **Skills & Specialties:**
Virtual Screening, Molecular docking, Homology Modelling, Pharmacophore Modelling, 3D-QSAR, Molecular Dynamics Simulations, Structure and Ligand based Drug Design, *In-Silico ADME* Prediction, High Performance Computing, Parallel Computing, Multiple Sequence Alignment
 - **Software:**
Molecular Docking: Glide (Schrödinger), FRED & Hybrid (OpenEye), Autodock Vina, SMINA, iDock, DOCK6, QuickVina
Pharmacophore & QSAR: Phase (Schrödinger), Pharmacophore (MOE)
Molecular Dynamics: Gromacs, Desmond (Schrödinger)
Protein Modelling/Visualization: Modeller, PyMol, ChimeraX
Databases: PubChem, ChEMBL, RCSB, NCBI, GISAID, ZINC
Workflow Management and Automation: Pipeline Pilot, KNIME
Cheminformatics: OpenBabel, RDKit, OpenEye, Chemdraw, ChemsSketch, Molinspiration
Multiple Sequence Alignment: Clustal-Omega, Kalign, MAFFT, T-Coffee and MUSCLE

- **Programming language:**
Python.

COURSES & CERTIFICATION

- Completed **Professional Skills for Research Leaders (PSRL) programme** (from January 2021 – August 2021) developed by Epigium in consultation with a number of leading Universities worldwide.
- Finished Udemy's online **Complete Python Bootcamp From Zero to Hero in Python** course.
- Completed an online-course **Programming for Everybody (Getting started with Python)** authorized by University of Michigan and offered through Coursera.
- Completed an online-course **Programming Data Structures** authorized by University of Michigan and offered through Coursera.

PUBLICATIONS: (38)

- **Impact Factor:**

Total Impact Factor : **121.5**

Average Impact Factor : **3.38**

- **Citations (Google Scholar):**

Citations : **1466**

h-index : **17**

*i*₁₀ : **20**

*i*₁₀₀ : **4**

1. Mohemmed Faraz Khan, Shubhangi Kandwal, Darren Fayne (2023) DataPype: A Fully Automated Unified Software Platform for Computer-Aided Drug Design, *ACS Omega*, <https://doi.org/10.1021/acsomega.3c05207>. (Impact Factor: **4.1**)
2. Mohd Ishaq, **Mohemmed Faraz Khan**, Garima Verma, Akshoo Rathi, Mohammad Adil, Mohammad Faizan, Abul Kalam Najmi, Mohd Akhtar, Omkulthom Al kamaly, Samar Zuhair Alshawwa, Abdelaaty A. Shahat, Abdulsalam Alhalmi (2023) Curcumin Nanoemulsion: Unveiling Cardioprotective Effects via ACE Inhibition and Antioxidant Properties in Hypertensive Rats, *Medicina*, 59(10), 1748. (Impact Factor: **2.6**)
3. M. Shaquiquzzaman, Sumit Kumar Kaushik, Mymoona Akhter, **Mohemmed Faraz Khan**, Fatima Arshad, Akranth Marella, Tarique Anwer, Wasim Akhtar, Shaista Amin and Mohammad Mumtaz Alam (2022) An Acumen into Anticancer Efficacy of Imidazole Derivatives: A Review, *World Journal of Pharmaceutical Research*, 11(15), 474-530.
4. Azizah M. Malebari, Gabriela Duffy Morales, Brendan Twamley, Darren Fayne, **Mohemmed Faraz Khan**, Eavan C McLoughlin, Niamh M O'Boyle, Daniela M Zisterer, Mary J Meegan (2022) Synthesis, Characterisation and Mechanism of Action of Anticancer 3-Fluoroazetid-2-ones, *Pharmaceuticals*, 15 (9), 1044. (Impact Factor: **4.6**)
5. Azizah M. Malebari, Shu Wang, Thomas F. Greene, Niamh M. O'Boyle, Darren Fayne, **Mohemmed Faraz Khan**, Seema M. Nathwani, Brendan Twamley, Thomas McCabe, Daniela M. Zisterer and Mary J. Meegan (2021) Synthesis and Antiproliferative Evaluation of 3-Chloroazetid-2-ones with Antimitotic Activity: Heterocyclic Bridged Analogues of Combretastatin A-4, *Pharmaceuticals*, 14 (11), 1119. (Impact Factor: **4.6**)
6. Wasim Akhtar, Akranth Marella, Mohammad Mumtaz Alam, **Mohemmed Faraz Khan**, Mymoona Akhtar, Tariq Anwer, Farah Khan, Md. Naematullah, Faizul Azam, Moshahid A. Rizvi, Mohammad Shaquiquzzaman (2021) Design and synthesis of pyrazole-pyrazoline hybrids as cancer-associated selective COX-2 inhibitors, *Archiv der Pharmazie*, 354:e2000116. (Impact Factor: **5.1**)
7. Wasim Akhtar, Lalit Mohan Nainwal, **Mohemmed Faraz Khan**, Garima Verma, Gousia Chashoo, Md. Afroz Bakht, Muzaffar Iqbal, Mymoona Akhtar, Mohammad Shaquiquzzaman, Mohammad Mumtaz Alam (2020) Synthesis, COX-2 inhibition and Metabolic Stability Studies of 6-(4-fluorophenyl)-pyrimidine-5-carbonitrile derivatives as Anticancer and Anti-inflammatory agents, *Journal of Fluorine Chemistry*, 236, 109579. (Impact Factor: **1.9**)
8. **Mohemmed Faraz Khan**, Garima Verma, Perwez Alam, Mymoona Akhter, Md Afroz Bakht, Syed Misbahul Hasan, Mohammad Shaquiquzzaman, Mohammad Mumtaz Alam (2019) Dibenzepinones, dibenzoxepines and benzosuberones based p38 α MAP kinase inhibitors: Their pharmacophore modelling, 3D-QSAR and docking studies, *Computers in Biology and Medicine*, 110, 175-185. (Impact Factor: **7.7**)

9. **Mohammed Faraz Khan**, Garima Verma, Wasim Akhtar, Mohammad Shaquiquzzaman, Mymoona Akhter, Moshahid Alam Rizvi, Mohammad Mumtaz Alam (2019) Pharmacophore Modeling, 3D-QSAR, Docking Study and ADME Prediction of Acyl 1,3,4-thiadiazole amides and Sulfonamides as Antitubulin Agents, *Arabian Journal of Chemistry*, 12, 5000-5018. (Impact Factor: **6.0**)
10. **Mohammed Faraz Khan**, Tarique Anwer, Afroz Bakht, Garima Verma, Wasim Akhtar, M. Mumtaz Alam, Moshahid Alam Rizvi, Mymoona Akhter, Mohammad Shaquiquzzaman (2019) Unveiling novel diphenyl-1H-pyrazole based acrylates tethered to 1,2,3-triazole as promising apoptosis inducing cytotoxic and anti-inflammatory agents, *Bioorganic Chemistry*, 87, 667-678. (Impact Factor: **5.1**)
11. Garima Verma, **Mohammed Faraz Khan**, Wasim Akhtar, Mohammad Mumtaz Alam, Ozair Alam, Syed Misbahul Hasan, Mohammad Shaquiquzzaman (2019) Pharmacophore Modeling, 3D-QSAR, Docking and ADME Prediction of Quinazoline based EGFR Inhibitors, *Arabian Journal of Chemistry*, 12, 4815 - 4839. (Impact Factor: **6.0**)
12. Garima Verma, **Mohammed Faraz Khan**, Lalit Mohan Nainwal, Mohd Ishaq, Mymoona Akhter, Afroz Bakht, Tariq Anwer, Farhat Afrin, Mohammad Islamuddin, Ibraheem Husain, Mohammad Mumtaz Alam, Mohammad Shaquiquzzaman (2019) Targeting malaria and leishmaniasis: Synthesis and pharmacological evaluation of novel pyrazole-1,3,4-oxadiazole hybrids. Part II, *Bioorganic Chemistry*, 89, 102986. (Impact Factor: **5.1**)
13. Fatima Arshad, **Mohammed Faraz Khan**, Wasim Akhtar, Mohammad Mumtaz Alam, Lalit Mohan Nainwal, Sumit Kumar Kaushik, Mymoona Akhter, Suhel Parvez, Syed Misbahul Hasan, Mohammad Shaquiquzzaman (2019) Revealing quinquennial anticancer journey of morpholine: A SAR based review, *European Journal of Medicinal Chemistry*, 167, 324-356. (Impact Factor: **6.7**)
14. Garima Verma, **Mohammed Faraz Khan**, Wasim Akhtar, Mohammad Mumtaz Alam, Mymoona Akhter, Mohammad Shaquiquzzaman (2019) A Review Exploring Therapeutic Worth of 1,3,4-Oxadiazole Tailored Compounds, *Mini-Reviews in Medicinal Chemistry*, 19, 477-509. (Impact Factor: **3.8**)
15. Akranth Marella, Garima Verma, Md. Shaquiquzzaman, **Mohammed Faraz Khan**, Wasim Akhtar and Md. Mumtaz Alam (2019) Malaria Hybrids: A Chronological Evolution, *Mini-Reviews in Medicinal Chemistry*, 19(14), 1144 - 1177. (Impact Factor: **3.8**)
16. Lalit Mohan Nainwal, Sharba Tasneem, Wasim Akhtar, Garima Verma, **Mohammed Faraz Khan**, Suhel Parvez, Mohammad Shaquiquzzaman, Mymoona Akhter, Mohammad Mumtaz Alam (2019) Green recipes to quinoline: A review, *European Journal of Medicinal Chemistry*, 164, 121-170. (Impact Factor: **6.7**)
17. Shikha Sharma, Shahzad Ahmad, **Mohammed Faraz Khan**, Suhel Parvez, Sheikh Raisuddin (2018) In silico molecular interaction of bisphenol analogues with human nuclear receptors reveals their stronger affinity vs. classical bisphenol A, *Toxicology Mechanisms and Methods*, 28(9), 1537-6524. (Impact Factor: **3.2**)
18. Garima Verma, Gousia Chashoo, Asif Ali, **Mohammed Faraz Khan**, Wasim Akhtar, Israr Ali, Mymoona Akhtar, Mohammad Mumtaz Alam, Mohammad Shaquiquzzaman (2018) Synthesis of pyrazole acrylic acid based oxadiazole and amide derivatives as antimalarial and anticancer agents, *Bioorganic Chemistry*, 77, 705-753. (Impact Factor: **5.1**)
19. Akranth Marella, Md. Shaquiquzzaman, Garima Verma, **Mohammed Faraz Khan**, Md. Mumtaz Alam (2018) Three-dimensional quantitative structure activity relationship studies of amino pyrazolines and their Schiff base derivatives, *Journal of Pharmacy Research*, 12(3), 346-350.
20. **Mohammed Faraz Khan**, M. Mumtaz Alam, Garima Verma, Wasim Akhtar, Moshahid A Rizvi, Asif Ali, Mymoona Akhter, M. Shaquiquzzaman (2017) Molecular Interactions of Dioxins and DLCs with the Ketosteroid Receptors: An *in silico* Risk Assessment Approach, *Toxicology Mechanisms and Methods*, 27(2), 151-163. (Impact Factor: **3.2**)
21. Shahzad Ahmad, **Mohammed Faraz Khan**, Suhel Parvez, Mohammad Akhtar, Sheikh Raisuddin (2017) Molecular docking reveals the potential of phthalate esters to inhibit the enzymes of the glucocorticoid biosynthesis pathway, *Journal of Applied Toxicology*, 37, 265-277. (Impact Factor: **3.3**)
22. Garima Verma, **Mohammed Faraz Khan**, Mohammad Shaquiquzzaman, Wasim Akhtar, Mymoona Akhter, Syed Misbahul Hasan, Mohammad Mumtaz Alam (2017) Molecular interactions of dioxins and DLCs with the xenosensors (PXR and CAR): an *in silico* risk assessment approach, *Journal of Molecular Recognition*, 30(12), 1-9. (Impact Factor: **2.7**)
23. Garima Verma, **Mohammed Faraz Khan**, Wasim Akhtar, Mohammad Mumtaz Alam, Mymoona Akhter, Mohammad Shaquiquzzaman (2017) Molecular interactions of bisphenols and analogs with

glucocorticoid biosynthetic pathway enzymes: an *in silico* approach, *Toxicology Mechanisms and Methods*, 28(1), 45-54. (Impact Factor: **3.2**)

24. Yadhu Sharma, Samina Bashir, Ansarullah, **Mohammed Faraz Khan**, Altaf Ahmad, Farah Khan (2017) Inhibition of Src homology 2 domain containing protein tyrosine phosphatase as the possible mechanism of metformin-assisted amelioration of obesity induced insulin resistance in high fat diet fed C57BL/6J mice, *Biochemical and Biophysical Research Communications*, 487, 54-61. (Impact Factor: **3.1**)
25. Wasim Akhtar, **Mohammed Faraz Khan**, Garima Verma, M. Shaquiquzzaman, M.A. Rizvi, Syed Hassan Mehdi, Mymoona Akhter, M. Mumtaz Alam (2017) Therapeutic evolution of benzimidazole derivatives in the last quinquennial period, *European Journal of Medicinal Chemistry*, 126, 705-753. (Impact Factor: **6.7**)
26. Wasim Akhtar, Garima Verma, **Mohammed Faraz Khan**, Mohammad Shaquiquzzaman, Arpana Rana, Tarique Anwer, Mymoona Akhter, M. Mumtaz Alam (2017) Synthesis of Hybrids of Dihydropyrimidine and Pyridazinone as potential anti-Breast Cancer agents, *Mini Reviews in Medicinal Chemistry*, 18(4), 369-379. (Impact Factor: **3.8**)
27. **Mohammed Faraz Khan**, Garima Verma, Wasim Akhtar, Akranth Marella, Mohammad Mumtaz Alam, Mymoona Akhter, Asif Husain, Syed Misbahu Hasan, Mohammad Shaquiquzzaman, Syed Rashiduddin Haider (2017) Synthetic Trends Followed for the Development of 1,2,3-Triazole Derivatives, *International Journal of Drug Development and Research*, 9(2), 22-25.
28. **Mohammed Faraz Khan**, Wasim Akhtar, Mohammad Shaquiquzzaman, Garima Verma, Sarwat Tauhid, Syed Rashiduddin, Mohammad Mumtaz Alam (2017) Chagas Disease: A Neglected Disease, *Global Journal of Pharmacy & Pharmaceutical Science*, 3(3), 555612.
29. Garima Verma, **Mohammed Faraz Khan**, Wasim Akhtar, Mohammad Mumtaz Alam, Mohammad Shaquiquzzaman (2017) Synthetic Trends followed for the Development of 1,3,4-Oxadiazole based Compounds, *International Journal of Pharmaceutical Chemistry and Analysis*, 4(2), 37-42.
30. Garima Verma, **Mohammed Faraz Khan**, Wasim Akhtar, Mohammad Shaquiquzzaman, Mymoona Akhter, Akranth Marella, Tanveer Naved, Suhel Parvez, Harish Kumar, Sarwat Tauhid, Mohammad Mumtaz Alam (2017) Leishmaniasis: A Menace, *International Journal of Pharmaceutical & Biological Archives*, 8(3), 01-07.
31. Sharba Tasneem, Garima Verma, **Mohammed Faraz Khan**, Syed Rashiduddin, Md. Mumtaz Alam, Md. Shaquiquzzaman (2017) EGFR Inhibitors: Role in Cancer Therapy, *European Journal of Pharmaceutical and Medical Research*, 4(10), 174-183.
32. Wasim Akhtar, Garima Verma, **Mohammed Faraz Khan**, Md. Shaquiquzzaman, Mymoona Akhter, Ozair Alam, Mohammad Amir, Sarwat Tauhid, Md. Mumtaz Alam (2017) Flavone's Worth in the Development of Anticancer Agents, *International Journal of Drug Development and Research*, 9(2), 26-32.
33. Shilpa Parmar, Garima Verma, **Mohammed Faraz Khan**, Wasim Akhtar, Syed Rashiduddin Haider, M. Mumtaz Alam, Razia Khatoon, Mymoona Akhter, Tarique Anwer, M. Shaquiquzzaman (2017) Ensuing New Derivatives in Developing Therapeutics for Alzheimer's Disease -A Review, *International Journal of Pharmaceutical Sciences Review and Research*, 45(1), 113-125.
34. Mohammad Shaquiquzzaman, Wasim Akhtar, **Mohammed Faraz Khan**, Garima Verma, Mymoona Akhter, Akranth Marella, Shilpa Parmar, Raziya Khatoon, Mohammad Mumtaz Alam (2017) Coumarin-Pyrazoline Derivatives: Their One-Pot Microwave Assisted Synthesis and Antimalarial Activity, *Journal of Pharmaceutical and Medicinal Chemistry*, 3(1), 5-9.
35. **Mohammed Faraz Khan**, Mohammad Mumtaz Alam, Garima Verma, Wasim Akhtar, Mymoona Akhter, Mohammad Shaquiquzzaman (2016) The Therapeutic Voyage of Pyrazole and Its Analogues: A Review, *European Journal of Medicinal Chemistry*, 120, 170-201. (Impact Factor: **6.7**)
36. Wasim Akhtar, M. Shaquiquzzaman, Mymoona Akhter, Garima Verma, **Mohammed Faraz Khan**, M. Mumtaz Alam, (2016) The therapeutic journey of pyridazinone, *European Journal of Medicinal Chemistry*; 123, 256-281. (Impact Factor: **6.7**)
37. **Mohammed Faraz Khan**, Garima Verma, Wasim Akhter, Mymoona Akhter, Mohammad Mumtaz Alam, Mohammad Shaquiquzzaman (2016) Microwave Assisted Synthesis and Antimalarial Activity of Coumarin- Pyrazoline Hybrids, *Journal of pharmaceutical and medicinal chemistry*, 2(2), 137-140.
38. Mohammad Shaquiquzzaman, Garima Verma, Akranth Marella, Mymoona Akhter, Wasim Akhtar, **Mohammed Faraz Khan**, Sharba Tasneem, Mohammad Mumtaz Alam (2015) Piperazine scaffold: a remarkable tool in generation of diverse pharmacological agents, *European Journal of Medicinal Chemistry*, 102, 487-529. (Impact Factor: **6.7**)

CONFERENCES, SEMINARS & WORKSHOPS:

1. Participated as delegate in 6th Bioinformatics Workshop cum Hands-on Training 2014 on "Bioinformatics and Biologicals" jointly organized by Bioinformatics Infrastructure Facility, Jamia Hamdard & NIB, Noida held on **27-28 November 2014**.
2. Participated as a delegate in UGC SAP sponsored National Conference on "Chronic Inflammatory Disorders" organized by Jamia Hamdard as Volunteer held on **13-15 February 2014**.
3. Presented poster in one-day symposium on "Current trends in drug discovery research in India" organized by Shiv Nadar University, India held on **11th April, 2015**
4. Presented poster in one-day symposium on "New Horizons in Drug Discovery & Development" organized by Jamia Hamdard & IPA, New Delhi held on **16th November 2015**.
5. Participated as a delegate in two-day workshop on "Recent Advancements in Molecular Modelling and Drug Design" organized by Jamia Hamdard and Schrodinger held on **21-22 November 2015**.
6. Participated as a delegate in "7th Bioinformatics Symposium cum hands-on on High Performance Bioinformatics and Biomedicine 2015" organized by BIF, Jamia Hamdard held on **8-9 December, 2015**.
7. Participated as a delegate in National Conference on "PAT and QbD- The Enablers of Pharmaceutical Quality" organized by Jamia Hamdard held on **17th March, 2016**.
8. Participated in the National Seminar on "Reassessing the basic elements of quality assurance for pharmaceutical performance using ICH Q10 guidelines" held on **18th March 2016** as a delegate.
9. Participated as a delegate and volunteer in the National Conference on "21st Century challenges in pharma regulatory affairs: Redefining the stratagem for global competition" held at Jamia Hamdard on **21st April 2016**.
10. Participated in Young Scientist's Conclave organized as a part of India International Science Festival 2016 held on **07-11 December 2016**.
11. Participated in International Symposium on "Drafting of National Policy on Medicinal and Aromatic Plants of India" held at **19-20 January 2017**.
12. Participated as delegate and presented a paper in oral session in 1st National Conference of Advanced Institute of Pharmacy (NCAIP-2016) on "Pharmaceutical science research: Drug development, validation and analytical methods" held on **24th December 2016**.
13. Participated in the Workshop, International Conference and presented a poster in International Conference on Drug Design on **07-09 April 2017** organized by Schrödinger at JNU, New Delhi.
14. Participated in the Lecture Organized by Department of Pharmaceutical Chemistry, SPER, Jamia Hamdard on "New Frontiers in Pharmaceutical Technology" held on **5th May 2017** delivered by Mr. Rajesh Agrawal, AGM, Modi-Mundipharma R & D Centre.
15. Presented a poster in 3rd One Day National Seminar on Current Regulations on Herbal Drugs & Food Supplements on **16th May 2017**.
16. Participated and presented a poster at 3rd Kazan Summer School on Chemoinformatics, Kazan, Russia held on **5th-7th July 2017**.
17. Attended 'Open Data for Chemistry' by Royal Society of Chemistry held on **10th - 12th Nov 2020**.
18. Participated in Workshop on Open-Source Tools for Chemistry held on **9th -13th Nov 2020**.
19. Participated in International virtual conference on Computer-Aided Drug Design organized by Department of Pharmacy, Birla Institute of Technology and Science Pilani, Pilani campus, India held on **30th - 31st Oct 2020**.
20. Participated in a Webinar Series on 'Introduction to Computational Drug Design' (Theory - Demo - Hand-on) conducted by Pharmacy Council of India between **21st Sep - 23rd Oct 2020**.
21. Participated in event "Machine Learning Applications in Drug Discovery: Basic to Advanced" organized at Guntur, AP, India (Online) on **17th - 31st May 2021**.
22. Attended a workshop event on 'Introduction to Linux and HPC' by ICHEC, Ireland held on **2nd Mar 2022**.
23. Participated in workshop 'Introduction to HPC Systems' by TCHPC, Trinity College Dublin held on **7th Mar 2022**.
24. Attended a workshop on 'Introduction to Python on Kay' by ICHEC, Ireland held on **16th Mar 2022**.
25. Participated in a workshop on 'Python in HPC' conducted by ICHEC, Ireland held on **11th -13th May 2022**.
26. Co-ordinated an online hands-on workshop on 'SeeSAR - A Drug Design Software' jointly organized by Integral University and Zastra Innovation held on **1st June 2023**.

AWARDS & HONOURS:

- Government of Ireland's Postdoctoral Research Grant by Irish Research Council.
- Best Poster Prize at 3rd Kazan Summer School on Chemoinformatics, Kazan, RUSSIA, 5th-7th July, 2017.
- Travel grant under International Travel Support (ITS) Scheme to attend 3rd Kazan Summer School on Chemoinformatics at Kazan, Russia by SERB, DST, Government of India.
- Master's Scholarship and Research Grant for Qualifying Graduate Pharmacy Aptitude Test (GPAT) – 2013 conducted by AICTE, India.
- Recipient of University Grant Commission-Maulana Azad National Fellowship for Doctoral Studies.
- Won 2nd prize in National-level Essay Competition organized by Bethany Vidyalaya, Durg, (C.G.) and Bahya Kerala Malankara Associations.

REFERENCES:

Prof. Syed Misbahul Hasan

(Dean & Professor, Faculty of Pharmacy)
Integral University,
Kursi Road, Lucknow, U.P., India
(deanphar@iul.ac.in)

Dr. Darren Fayne

(PI & Senior Research Fellow)
Molecular Design Group,
School of Biochemistry and Immunology,
Trinity College Dublin, Ireland
(fayned@yahoo.com; fayned@tcd.ie)

Prof. Mohammad Mumtaz Alam

(Professor)
Drug Design & Medicinal Chemistry Lab
Department of Pharmaceutical Chemistry,
School of Pharmaceutical Education & Research,
Jamia Hamdard, New Delhi, India
(drmmalam@gmail.com)