

## Mohsin Kazi, PhD, MBA

Professor

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Visiting academic: Monash University, Australia



### Education

- ❖ BSc (Hons) in Chemistry-*Aligarh Muslim University, India*
- ❖ B. Pharm (Hons) - *Monash University, Australia*
- ❖ PhD in Pharmacy - *Monash University, Australia*
- ❖ Grad. Dip. in Research Commercialization Plan - *Monash University, Australia*
- ❖ MBA - *Victoria University, Australia*

### General Research Interest

- ❖ Formulation of medicines
- ❖ Lipid based drug delivery (self-nanoemulsifying systems) and drug absorption
- ❖ Conversion of liquid into solid dosage form
- ❖ Spray drying and fluid bed coating techniques
- ❖ Predictive modeling using AI and machine learning for advanced drug manufacturing
- ❖ FDM 3D designed printed dosage form
- ❖ Respirable particulate carriers for pulmonary drug delivery systems

### Biography

Dr. Mohsin Kazi is a Professor at the College of Pharmacy, King Saud University in Saudi Arabia. With a strong academic and industry background, he has made significant contributions to pharmacy through his research in advanced drug delivery systems. Prior to joining King Saud University, he served as a post-doctoral research fellow at Monash University in Australia and gained industry experience at Abbott Laboratories in Chicago, USA. Dr. Kazi holds a Bachelor of Pharmacy with Honors (B. Pharm Hons), a PhD in Pharmacy, Graduate Diploma in research commercialization from Monash University, and an MBA from Victoria University, Australia. His research expertise includes oral lipid-based nanoformulation systems, drug absorption of poorly-soluble drugs, conversion of liquid medications to solid dosage forms, and FDM 3D printing in pharmaceuticals. He has authored more than **292 scientific publications** and delivered many presentations in international pharmaceutical conferences. He has research collaboration with various universities such as California Health Science Institute, Coppin state university, University of Maryland, USA, Monash Institute of Pharmaceutical Science, Australia, Bengkulu University, Indonesia, University of Malaya (Malaysia), National center for Physics (Quaid-e-Azam University, Islamabad, Pakistan), North South University, and Dhaka university, Bangladesh. He has secured funding for numerous research projects, with total grants exceeding 7 million Saudi Riyals, approved by RDIA, KACST, NPST-KSU, and the European Union. Dr. Mohsin is currently leading a lipid research group and advisor to several PhD & M.Sc. students. He is currently ranked in the top 2% of the world's most cited scientists, according to Elsevier's database. Dr Mohsin is the current academic visitor & mentor of Monash Institute of Pharmaceutical Science, Monash University, Australia

### Patents

1. Apparatus for Targeted Delivery of Anti-Inflammatory Compounds for the Treatment of Neurodegenerative Diseases: 12<sup>th</sup> November 2025, Reg No: 202025105729, IPC: A61M 37/00, German patent & trademark Office, Germany.
2. Apparatus for Smart Composition for the Treatment of Diabetes and Alzheimer's Disease Using Turmeric-Derived Phytochemicals, date of registration: 11<sup>th</sup> November 2025, Reg No: 202025105727, IPC: A61K 36/9066, German patent & trademark Office, Germany.

3. Targeted delivery system for microbial therapeutics, date of registration: 24<sup>th</sup> June 2025, Reg No: 202025102755, IPC: A61K 9/48, German patent & trademark Office, Germany.
  4. System for Rapid Detection of Viral Infections in Blood Samples, date of registration: 4<sup>th</sup> June 2025, Reg No: 202025102754, IPC: G01N 33/53, German patent & trademark Office, Germany.
  5. 5-BROMO-2-HYDROXY-N'-[(1E)-1-(PYRIDIN-2-YL) ETHYLIDENE]BENZOHYDRAZIDE AS AN ANTI-CANCER AND ANTIMICROBIAL AGENT: Sept 11, 2025, Pub. No. US 2025/0282726 A1. US Patent & Trademark Office
  6. Advanced design of cinnarizine single-layer self-nanoemulsifying pellets using fluid bed coating technique, Patent application filed-117380327
  7. Bio-S-SNEDDS of Curcumin and Lansoprazole combined dosage form for the fast treatment of peptic ulcers, Patent application filed-121420462
  8. Automated System for Performing the Deposition of Thin Films Using Successive Ionic Layer Adsorption and Reaction (SILAR)- Docket No. 33092.67S-filed
  9. Self-nanoemulsifying drug delivery systems” (SNEDDS) for intravenous delivery of propofol Book chapters- Docket No. 33092.44-filed
  10. Novel Compound with Outstanding Anti-Proliferative Effects on Liver and Lung Cancer Cells - Docket 33092.51S-filed
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#### **Book (Editor)**

**Stem Cell Innovation in Health and Disease: The Nervous System**, VOLUME 5, Elsevier Academic Press (AP), Copyright © 2025 Elsevier Inc.

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#### **Book Chapters**

1. Role of OMICS-Based Technologies in Plant Sciences, Shumaila Ijaz, Javed Iqbal, Banzeer A Abbasi, Tabassum Yaseen, Shazia Rehman, **Mohsin Kazi**, Lubna Ansari, Tariq Mahmood, Publisher- John Wiley & Sons; published: 29 March 2024 <https://doi.org/10.1002/9781394209156.ch3>
  2. Technological Innovations for Abiotic Stress Resistance in Horticultural Crops, Yumna Ahmad, Zubaria Haakim, Javed Iqbal, Banzeer A Abbasi, Tariq Mahmood, **Mohsin Kazi**, Publisher- John Wiley & Sons; published: 29 March 2024 <https://doi.org/10.1002/9781394209156.ch12>
  3. Phospholipid Based Nano Drug Delivery Systems of Phytoconstituents, Mohammad Hossain Shariare and Mohsin Kazi, “Smart Drug Delivery”, publisher IntechOpen, DOI: 10.5772/intechopen.101040, published 2021
  4. Lipid-Based Nano-Delivery for Oral Administration of Poorly Water Soluble Drugs (PWSDs): Design, Optimization and in vitro Assessment, Mohsin Kazi, “Advanced technology for delivering therapeutics”, IntechOpen, DOI: 10.5772/65710, published 2017
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#### **List of recent Conferences/Seminars (speaker)**

1. CRS (Controlled release Society) annual meeting & exposition held in Philadelphia, Pennsylvania, USA during 14-18<sup>th</sup> July 2025
2. 1st International Clinical Pharmacy Conference (ICPC 2025), hosted by the University of Health Sciences, Lahore, during 11-12 August, 2025. [Keynote speaker]
3. Health care Innovation Bootcamp (Mesh Core Riyadh 2025), Saudi Arabia, 14-15 April 2025.
4. Seminar on Functional food and personalized nutrition for improvement of sustainable health, Mawlana Bhasani Science and Technology University (MBSTU), Tangail, Bangladesh, February 2025
5. AUASAP, University of Malaya, Kuala Lumpur, Malaysia, June 2024
6. AAPS PharmSci 360 held in Orlando, Florida, USA during 22-25<sup>th</sup> Oct 2023
7. Nanoscience Technology Centre, University of Central Florida, Florida, USA on 26<sup>th</sup> Oct 2023
8. Department of natural Science and Engineering, University of Bengkulu (UNIB), Republic of Indonesia during 22-27 Sept, 2023
9. Riyadh global medical biotechnology summit by KAIMRC, held in Riyadh, KSA on 25<sup>th</sup> Jan 2023
10. The International Conference and Exhibition for Science (ICES2023) held in Riyadh, USA on 6<sup>th</sup> Feb 2023
11. 2nd International Symposium on Nanotechnology (ISN2022) held in Dhaka, Bangladesh on 22th January 2022

12. AAPS PharmSci 360 held in Boston, MA, USA during 16-19<sup>th</sup> Oct 2022
  13. 2nd Gulf oncology health economics summit held in Riyadh, KSA on 25<sup>th</sup> May 2022
  14. 2021 AAPS PharmSci 360 held in Philadelphia, PA, USA during 17-20<sup>th</sup> Oct 2021
  15. Seminar Talk on “Nano formulation of Medicine” held in Coppin State University, Maryland, USA on 22<sup>th</sup> Oct 2021
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