

Curriculum vitae

Dr. Mohammad Faheem

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RESEARCH EXPERIENCE

Dec 2021 - Till:	Assistant Professor; School of Life & Allied Health Sciences, Glocal University, Saharanpur (UP), India
July 2019 - Nov 2021	Research Associate; Biotechnology, Indian Institute of Technology, Roorkee, India
Nov 2017 - Nov 2018	Research Fellow; Jawaharlal Nehru University (JNU), New Delhi, India
June 2015 - Sep 2017	Post-Doctoral Fellow; Western University of Health Sciences, California - USA.

ACADEMIC DETAILS

2015	Ph.D. (Biotechnology); Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh, India.
2011	Ph.D. Course work; Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh, India.
2008	M.Sc. (Biochemistry); Department of Biochemistry (67.44%), Bundelkhand University, Jhansi -India.
2002	B.Sc. (Zoology, Botany Chemistry); MJP Rohilkhand University, Bareilly

RESEACH INTEREST

Microbiology, Molecular Biology, drug molecule screening and Antibiotic Drug Resistance and Enzymology.

TECHNIQUES & METHODS

Microbiology Techniques, Antimicrobial Susceptibility, Animal handling, PCR, RT-PCR, DNA Sequencing data Analysis, Molecular Cloning, Recombinant Protein Expression, Protein Purification (by GE-AKTA systems: ion exchange, size exclusion, Affinity chromatography), Enzyme kinetics, Circular Dichroism (CD), Isoelectric Focusing (IEF), 2D Gel Electrophoresis (2DE), Western Blotting.

PUBLICATIONS

1. Danishuddin, Vikas Kumar, **Mohammad Faheem**, and Keun Woo Lee. A decade of machine learning-based predictive models for human pharmacokinetics: advances and challenges. *Drug discovery today*, <https://doi.org/10.1016/j.drudis.2021.09.013>, IF 7.321
2. **Mohammad Faheem**, Catharina Zeil, Charles J. Zhang, Monica N. Morris, Juergen Pleiss, Peter Oelschlaeger, The role of synonymous 1 mutations in the evolution of TEM β -lactamase genes. *Antimicrobial Agents Chemotherapy* doi:10.1128/AAC.00018-21. IF 4.904
3. Charles J Zhang, **Mohammad Faheem**, Paulie Dang, Monica N Morris, Pooja Kumar, Peter Oelschlaeger, Mutation S115T in IMP-Type Metallo- β -Lactamases Compensates for Decreased Expression Levels Caused by Mutation S119G. *Biomolecules* 2019, 9, 724; doi:10.3390/biom9110724. IF 4.879
4. Divakar Sharma, Manju Lata, **Mohammad Faheem**, Asad Ullah Khan, Beenu Joshi, Krishnamurthy Venkatesan, Sangeeta Shukla, Deepa Bisht, Role of M. tuberculosis protein Rv2005c in the aminoglycosides resistance, *Microbial pathogenesis* 132, 150-155 doi.org/10.1016/j.micpath.2019.05.001. IF 3.663
5. Naidu Subbarao, **Mohammad Faheem**, Shahper Nazeer Khan, Polycomb repressive complex 2 inhibitors: emerging epigenetic modulators, *Drug discovery today* 24 (1), 179-188. doi.org/10.1016/j.drudis.2018.07.002. IF 7.321
6. Joon S. Kang, Antonia L. Zhang, **Mohammad Faheem**, Charles J. Zhang, Ni Ai, John D. Buynak, William J. Welsh and Peter Oelschlaeger. Virtual Screening and Experimental Testing of B1 Metallo- β -lactamase Inhibitors. *Journal of chemical information and modeling* 58 (9), 1902-1914. IF 4.956
7. Arbab Khan, Divakar Sharma, **Mohammad Faheem**, Deepa Bisht & Asad U. Khan. Proteomic analysis of a carbapenem-resistant *Klebsiellapneumoniae* strain in response to meropenem stress. *Journal of Global Antimicrobial Resistance* 8 (2017) 172–178. IF 4.035
8. Divakar Sharma, ManjuLata, **Mohammad Faheem**, Asad Ullah Khan, Beenu Joshi, Krishnamurthy Venkatesan, Sangeeta Shukla, Deepa Bisht. *M. tuberculosis* ferritin (Rv3841): Potential involvement in Amikacin (AK) & Kanamycin (KM) resistance. *BBRC* 2016.08.049. IF 3.575
9. Divakar Sharma, Manju Lata, **Mohammad Faheem**, Asad Ullah Khan, Beenu Joshi, Krishnamurthy Venkatesan, Sangeeta Shukla and Deepa Bisht. Cloning, Expression and

Correlation of Rv0148 to Amikacin & Kanamycin Resistance. **Current Proteomics** **12** (2), 96-100. [IF 0.837](#)

10. Arbab Khan, **Mohammad Faheem**, Mohd Danishuddin, Asad U Khan. Evaluation of Inhibition action of novel Non - β - lactam Inhibitor against *Klebsiella pneumonia* Carbapenemase (KPC-2). **PLoS One**. 2014 Sep 29;9(9). [IF 3.240](#)
11. Md Tabish Rehman, **Mohammad Faheem**, Asad U Khan. An insight into the biophysical characterization of different states of cefotaxime hydrolyzing β -lactamase 15 (CTX-M-15). **J Biomol. Struct. Dyn.** 2014 Mar 20, PMID: 24650131. [IF 3.392](#)
12. Md Tabish Rehman, **Mohammad Faheem**, Asad U Khan. Insignificant β -lactamase activity of human serum albumin: no panic to non microbial-based drug resistance. **Lett. Appl. Microbiol.** 2013 Oct; 57(4):325-9. [IF 2.173](#)
13. Mohd Danishuddin, Arbab Khan, **Mohammad Faheem**, Kalaiarasan P, Mohd Hassan Baig, Subbarao N, Asad U Khan. Structure-based screening of inhibitors against KPC-2: designing potential drug candidates against multidrug-resistant bacteria. **J Biomol. Struct. Dyn.** 2014;32(5). [IF 3.392](#)
14. **Mohammad Faheem**, Md Tabish Rehman, Mohd Danishuddin, Asad U Khan. Biochemical characterization of CTX-M-15 from *Enterobacter cloacae* and designing a novel non- β -lactam- β -lactamase inhibitor. **PLoS One**. 2013;8(2). [IF 3.240](#)
15. Vibhor Gupta, Kalaiarasan P, **Mohammad Faheem**, Nishant Singh, Mohd Askandar Iqbal, Bamezai RN. Dominant negative mutations affect oligomerization of human pyruvate kinase M-2 isozyme and promote cellular growth and polyploidy, **J Biol Chem.** 2010 May 28; 285(22). [IF 5.157](#)

AWARDS & ACHIVEMENTS

- Awarded International Travel Grant (2014) by Department of Science and Technology, New Delhi, Govt. of India.
- Awarded Senior Research Fellowship (2013), from Indian Council of Medical Research (ICMR) New Delhi - 20001, India.
- Awarded fellowship SRF, from September 2010-June 2013 to by Department of Biotechnology, Govt. of India.
- Awarded fellowship JRF from January to October 2010 by Department of Biotechnology, Govt. of India.

CONFERENCES&WORKSHOPS

1. 57th International Annual Conference of the Association of Microbiologists of India, at Guwahati University and the Institute of Advanced Study in Science and Technology, Guwahati, India from **November 24-27, 2016**.
2. Presented poster in the joint 55th Interscience Conference on Antimicrobial Agents and Chemotherapy and 28th International Congress of Chemotherapy (ICAA&ICC2015) Meeting, San Diego, **California, USA**, from **Sep 17th-21st, 2015**.
3. Presented poster in the 6th Annual Meeting of Proteomics Society, India (PSI) and International Proteomics Conference “Proteomics from Discovery to Function” to be held at **IIT Bombay**, India, from **Dec 7th - 9th, 2014**
4. Presented poster in the Indo-US International Conference/Workshop on “Recent Advance in Structural Biology & Drug Discovery” (RASBDD-2014) jointly organized by purdue University, USA and Department of Biotechnology, **IIT Roorkee**, India held on **October 9-11, 2014**.
5. Attended 12th Beta-Lactamase Meeting (International Workshop), Gran Canaria, Canary Islands, **Spain**, **28th June -1st July 2014**.
6. Attended “Current trends in Structure Biology in Multi-drug Resistant Bacterial therapeutics and Thrombosis”, organized by Department of Biophysics, AIIMS New Delhi, India, **27-28 Feb, 2014**.
7. Presented poster at National Symposium on “New facets of Biotechnology from Genes to Proteins” sponsored by UGC, DST and DBT, Govt. of India, New Delhi, organized by Biotechnology, AMU, Aligarh, India, **January 15-17, 2014**.
8. Attended “3th Annual meeting of the Indian Academy of Biomedical Sciences & Symposium on Modern Trends in Human Diseases” organized by Department of Biochemistry, JNMC, Aligarh Muslim University, Aligarh, India, **December 14 -15, 2013**.
9. Presented Oral in the 42nd National Seminar on Crystallography and International Workshop on Application of X-ray Diffraction for Drug Discovery jointly organized by AIIMS, JNU, NII and Regional Centre for Biotechnology from **November 21-23, 2013 at New Delhi**, India

10. Attended symposium on “Trends in Biomolecular Interactions” Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh, India. **March 13-14, 2013.**
11. Attended “National Conference on Nanoscience and Nanotechnology organized by the Department of Applied Physics, Aligarh Muslim University, Aligarh, India, **March 10-12, 2012**

PROFESSIONAL MEMBERSHIPS

- Membership; American Society for Microbiology, 1752 N Street, NW/Washington, DC 20036.
- Membership; Proteomics Society of India (Regd. No.286/2009, Registrar of Societies, RR(East)) Dist., A.P., India).
- Membership; Indian crystallography Association (Registration No. 809/2000-2001 dated 16th December 2000) Regd. Off. Molecular Biophysics Unit, IISc, Bangalore, India.

TEACHING AND SUPERVISION EXPERIENCE

- Assisted and Partially Supervised; four M.Sc. Student, two B.Sc. Student and one B.Tech (Biotech) student in their academic Dissertation.

PERSONAL DETAILS

Marital	: Married
DOB	: April 14, 1980
Nationality	: India

ACADEMIC REFERENCES

Dr. Peter Oelschlaeger

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CONTACT DETAILS

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Declaration

I hereby declare that foregoing information is correct and complete to the best of my knowledge and given a chance I will serve my duty with honesty and sincerity.

Mohammad Faheem