

# Curriculum Vitae

## Mohammad Kalim Ahmad Khan, Ph.D.

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## Employment History

- Associate Professor (Level II), Department of Bioengineering, December 01, 2017 to date.
- Assistant Professor, Department of Bioengineering, July 01, 2011 to November 30, 2017.
- Lecturer (Grade I), Department of Bioinformatics, July 01, 2009 to June 30, 2011.
- Lecturer (Grade II), Department of Bioinformatics, July 17, 2008 to June 30, 2009.

## Experience

- **Teaching:** 13 Years
- **Research:** 07 Years

## Major area of research

### ❖ *Cancer informatics*

- *Identification, Characterization and Design of Potential Leads against Dibenzo[a,l]pyrene-induced Breast Cancer*
- *Identification, Optimization and In vitro Validation of Drug Leads against Breast cancer via targeting PI3K/AKT pathway*

### ❖ *Tuberculosis informatics*

- *Design and Optimization of Leads for Novel Drug Target against Mycobacterium tuberculosis*
- *Identification and Validation of Potential Natural Compounds against Tuberculosis: An in silico and in vitro approach*

## Major Skills

### ❖ *Biomedical and Health Informatics*

- *Basic knowledge of electronic health record (EHR), electronic medical record (EMR), personal health record (PHR) and Medical Coding.*

### ❖ *Bioinformatics and Computational Biology*

- **Rational Drug Design:** *Virtual screening, de novo design, pharmacophore Modeling, ADMET prediction, Cheminformatics, Molecular docking (Protein-Ligand, Protein-Protein, DNA-Ligand), Conformational Analysis and Binding free energy simulations.*
- **Computational Structural Biology:** *Biomolecular Modeling and Structure Predictions, Computer-Aided Molecular Design (CADD) and Molecular Dynamic (MD) Simulation.*
- **Evolutionary Informatics:** *Sequence Alignments and Phylogenetic Analysis.*

#### Academic Qualification

- **Ph.D. in Bioinformatics**, Integral University Lucknow, India.
- **Master of Science (M.Sc.) in Bioinformatics**, Integral University Lucknow, India.
- **Bachelor of Science (B.Sc.) in Biology**, Dr. RMLAU, Faizabad, India.
- NPTEL (NPTEL17HS02S1500062; <http://nptel.ac.in/noc>), Online Certification course in **Soft Skills**, IIT Roorkee, India.
- NPTEL (NPTEL16BT0718470042; <http://nptel.ac.in/noc>), Online Certification course in **Proteomics**, IIT Bombay, India.

#### Academic Achievements

- Evaluated PhD Thesis of **La Trobe University, Victoria, Australia.**
- CSIR-UGC National Eligibility Test (NET)
- Graduate Aptitude Test in Engineering (GATE; **96.70** percentile).

#### Supervisor/Co-Supervisor of Ph.D. Scholars

1. Ms. Tasneem Bano (Awarded)
2. Mr. Ajizur Rehman (Awarded)
3. Ms. Iffat Azim (Awarded)
4. Ms. Akanksha Sharma (Awarded)
5. Er. Mohammad Umar Azeem (to be submitted)
6. Ms. Shalini Maurya, DBT JRF
7. Urvashi Tiwari

**Publications:** (Total =53) (<https://scholar.google.co.in/citations?user=B-y-JfgAAAAJ&hl=en>)

**Abstracts: 23**

#### Dissertation projects

Guided 32 undergraduate and postgraduate students' projects and dissertations in area of Bioinformatics and Computational Drug Design.

**Book Chapters:** Akhtar, S., **Khan, M. K. A.**, & Osama, K. (2020). Machine Learning Approaches to Rational Drug Design. In *Computer-Aided Drug Design* (pp. 279-306). Springer, Singapore.

## **Professional Memberships/ Invited Reviewer**

- Member of International Association of Engineers (IAENG), Code: 125745, Hong Kong.
- Member of International Association of Computer Science and Information Technology (IACSIT), Code: 80345690, Singapore.
- Member of International Society for Research and Development (ISRD), Code: SR3140900190, London, United Kingdom.
- World journal of Diabetology
- World journal of Gastroenterology
- World of Clinical Cases
- Journal of Biomolecular Structure and Dynamics.
- Interdisciplinary Sciences Computational Life Sciences.
- Bioinformation.
- Journal of Receptors and Signal Transduction.
- Peer J.

## **Colloquiums/FDPs/STCs: 34**

### **Declaration**

I hereby declare that the information given above is true to the best of my knowledge.

**Place:** Lucknow

Mohammad Kalim Ahmad Khan

**Date:** March 29, 2021

