Curriculum Vitae

Mohammad Wahab Khan

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New Delhi 110025 – India   DOB: 01/01/1984

EDUCATION:

PhD (Bioinformatics)**,** Pondicherry University, Puducherry, India (Aug. 2012-July2018)
   Thesis title: "Computational modelling, inhibition, intrinsic dynamics and protease interaction study of alcohol oxidase from *Candida boidinii*"
MSc (Bioinformatics), Jamia Millia Islamia University, New Delhi, India (2005-2007)
BSc (Zoolgy, Botany, Chemistry), Dr. B. R. Ambedkar University, Agra, India (2000-2003)
Intermediate, State Board-Uttar Pradesh India (1999-2000)
High School, State Board-Uttar Pradesh India (1997-1998)

RESEARCH EXPERIENCE:

National Postdoctoral Research Fellow: (May 2019 -May 2020)
Regional Centre for Biotechnology (under the auspices of UNESCO), Faridabad, India
Project Title: Structural aspects of protein synthesis in *Plasmodium falciparum* mitochondria
Funding Agency: Science and Engineering Research Board, Department of Science and Technology, Government of India

PUBLICATIONS:

1. **Khan, Mohammad Wahab**, and Ayaluru Murali. "Modeling of alcohol oxidase enzyme of *Candida boidinii* and *in silico* analysis of competitive binding of proton ionophores and FAD with enzyme." ***Mol. BioSyst.,*** *2017, 13, 1754-1769*.

2. Borkotoky S, Meena CK, **Khan MW**, Murali A, "Three dimensional electron microscopy and *in silico* tools for macromolecular structure determination". **EXCLI journal** 2013; 12:335-346.

3. **Khan MW**, Alam M. "A survey of application: genomics and genetic programming, a new frontier". **Genomics.** 2012 Aug; 100 (2): 65-71.

FELLOWSHIPS AND AWARDS:

➢   SERB National Post-Doctoral fellowship, DST Govt. of India
➢   UGC-University PhD Fellowship, Pondicherry University
➢   Best paper presentation award (IInd prize) Bharathidasan University

POSTER/ORAL PRESENTATION:

1. **Mohammad Wahab Khan**, Ayaluru Murali, *"Normal mode analysis of alcohol oxidase and comparative study of the intrinsic dynamics of alcohol oxidase enzymes from GMC family"* National Conference on Recent Advances in Plant Science (9-10th March 2017) Bharathidasan University, Tiruchirappalli. (oral presentation)

2. **Mohammad Wahab Khan,** Ayaluru Murali, *"Competitive binding of ionophore and co-factor (FAD) with alcohol oxidase of Candida boidini – An in silico study",* National Symposium On Science And Technology For National Development Indian Science Congress Association Pondicherry Chapter (February 27, 2017). (poster presentation)

EXPERIMENTAL TECHNIQUES:
- Bacterial culture, Bacterial cell transformation, DNA isolation
- Protein expression and purification
- SDS-PAGE
- Column Chromatography, Fast protein liquid chromatography (FPLC)
- Protein Crystallization Screening
- Negative staining of protein sample for cryoEM imaging

COMPUTATIONAL TECHNIQUES:

- Molecular Modelling (I-TASSER, MODELLER, SWISS-MODEL)
- Molecular Docking and virtual screening (Glide-Schrödinger, Autodock)
- MD simulation (Gromacs, NAMD)
- Normal mode analysis (Bio3d and ProDy)
- Phylogenetic analysis (MEGA, Phylip)
- Multiple Sequence Alignment (ClustalX, MUSCLE)
- Sequence analysis

OTHER QUALIFICATION:
- P. G. Diploma in Journalism and Mass Communication, Pondicherry University, Puducherry, India (2014-2015)

REFERENCES:
1. Dr. A. Murali (Assistant Professor)
   Department of Bioinformatics, Pondicherry University, Puducherry 605014 – India
   Email: murali@bicpu.edu.in   Phone:+91-413-2654-949

2. Dr. Naidu Subbarao (Associate Professor)
   School of Computational and Integrative Sciences, Jawaharlal Nehru University, New Delhi, 110067 – India
   Email: nsrao@mail.jnu.ac.in   Phone: +91-011-26704710

3. Dr. S. Mohane Coumar (Assistant Professor)
   Department of Bioinformatics, Pondicherry University, Puducherry 605014 – India
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