
Curriculum Vitae



SYED BABAR JAMAL BACHA

ADDRESS:

P#70, street#1, Sector G, Sheikh Maltoon Town Mardan
Khyber PukhtoonKhwa, Pakistan.

Mobile: +92-333-4022094

Email: Syedbabar.jamal@gmail.com
babar.msbi1@iiu.edu.pk

EDUCATION PROFILE

International Islamic University, Islamabad, Pakistan
MS Bioinformatics (18 years education)

GC University Faisalabad, Punjab, Pakistan
BS(hons) Bioinformatics (16 years education)

PROFESSIONAL EXPERIENCE

Research Scholar
Computational Medicinal Laboratory
UCS Shankar, *Abdul Wali Khan University, KPK, Pakistan*

February 2012 – Present

Research Internee
Genetic diseases
Center of Excellence in Molecular Biology (*CEMB*), *Punjab University Lahore*

April 2010 – October 2010

RESEARCH EXPERIENCE AND TRAININGS

- Protein-Ligand Interaction (**Molecular Docking**), Structural Modeling (**Homology Modeling of proteins**), **Molecular Dynamic Simulation**, **QSAR study** at UCS Shankar, *Abdul Wali Khan University, KPK, Pakistan*
- **Phylogenetic analysis training** at **International Islamic University Islamabad**.
- **Virtual Training of Bioinformatics** at **Center of Excellence in Molecular Biology (CEMB)**, *Punjab University Lahore*.

- *Six months research experience of Molecular biology and Biotechnology at Center of Excellence in Molecular Biology (CEMB), Punjab University Lahore.*

HONORS AND AWARDS

- **Certified** for Organizing Tech-fair 2008 at *GC University Faisalabad (Pakistan).*
- **First Position** in DNA poster exhibition held in *GC University Faisalabad (Pakistan).*
- **Certified** for warmly participating in different national and international conferences in different cities of Pakistan.
- **Certified** for Organizing 2nd Annual Computational Sciences/Computational Biology Conference 2013 at *International Islamic University, Islamabad (Pakistan).*

TEACHING EXPERIENCE

*Teacher assistant at Department of Bioinformatics and Biotechnology
(International Islamic University, Islamabad, Pakistan)*

*Visiting Lecturer at Department of Biochemistry
(UCS Shankar, Abdul Wali Khan University, Mardan, Pakistan)*

TECHNICAL SKILLS AND EXPERIENCE

Molecular Biology Techniques:

- DNA extraction, DND extraction reagents preparation, SDS PAGE, Gel Electrophoresis, Polymerase Chain Reaction (PCR), Tissue Culture (Micro propagation) and Data analysis using softwares.

Computer:

- Microsoft Office Suite.
- Proficient with Windows and Linux Operating Systems
- Statistical software packages: R, Excel, MATLAB, SPSS

Bioinformatics:

- Data mining, Sequence Alignment, Gene Finding, Protein Structure Alignment, Protein Structure Prediction, Protein-Protein Docking, Protein-Ligand Docking, QSAR Modeling, Computational Evolutionary Biology (phlogenetics), Pharmacophore Design, Virtual Screening, Molecular Dynamic simulation.

PROFESSIONAL MEMBERSHIPS

- Member of Regional Student Group of Pakistan for International Society for Computational Biology (*ISCB-RSG-Pakistan*)
- Member of the *National Academy for Young Scientists* Pakistan (2009 - 2011)
- Member of the *International Society for Computational Biology (ISCB)* USA
- Member of *World Association of Young Scientists (WAYS)*

Publications:

1. Wadood A, Riaz M, **Jamal SB**, Shah M, Lodhi MA. "Molecular Docking study of p4 Benzoxaborol ligands as inhibitor of HCV NS3/4A Protease". *Bioinformation*. 2013; 9(6): 309-314.

2. Sehgal SA, Waqar M, **Jamal SB**. Haplotype analysis for DFNB2/USH1B locus in consanguineous family of Punjab origin (Pakistan). *J. Med. & Allied Health Sciences* 2013; 2(1): 09-15.
3. **Jamal SB**, Anwar Z, Khan RU, Jamil T, Iram A, Mir A, Waqar M, Khattak JZK. "Haplotype Analysis for DFNB4/PDS Locus in Hearing Impaired Families of Punjab (Pakistan)". *Curr. Res. Journal of Bio. Sci.* 2012; 4(4): 407-413.
4. Wadood A, Riaz M, **Jamal SB**. Interactions of ketoamide inhibitors on HCV NS3/4A protease target: Molecular Docking Studies, *Molecular Biology Report*, (Accepted)
5. Wadood A, **Jamal SB**, Riaz M, Shah M, Mir A. Computational analysis of Benzofuran-2-carboxylic acid as potent Pim-1 kinase inhibitor. *Pharm. Bio.* (Under review).
6. Wadood A, Junaid M, Shah M, Riaz M, **Jamal SB**, and Haq Z. Structural Modeling and Molecular Dynamics Simulation Studies of Camel Milk Kappa Casein protein. *BMC Structural Biology* (Submitted).
7. Wadood A, **Jamal SB**, Riaz M, Shams S, Azam SS, Mir A. Analysis of the Pim-1 kinase inhibitory activity of 3H-Benzo[4,5]thieno[3,2-d]primidin-4-one derivatives based on their molecular features: a computational study. *Arab. J. Chem.* (Submitted).

Languages:

- English
- Urdu
- Punjabi
- Pushto