

Dr. Zoya KHALID

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0333-5716432

WORK EXPERIENCE

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| Feb 2023- Present | Assistant Professor in Department of Biosciences
Comsats University, Islamabad. |
| FEB 2022- JAN 2023 | Visiting faculty in National center of Bioinformatics (NCB)
Quaid-i-Azam University, QAU Islamabad. |
| SEPT 2018- FEB 2021 | Assistant Professor and Team Lead in Computational Biology Research
Lab (CBRL)
National University of Computer and Emerging Sciences,FAST Islamabad. |
| JUNE 2018-SEP 2018 | <i>Assistant Professor (IPFP)</i>
National University of Medical Sciences (NUMS). |
| DEC 2012-FEB 2013 | <i>Research Associate</i>
Worked as a Research Associate at Comsats Institute of Information Technology (CIIT). |
| JUL-NOV 2012 | Internee at NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY (NUST),
Islamabad
<i>Modelling and Simulations</i>
Implemented Vector Space model for performing multiple alignment of biological se-
quences. |
| JAN 2010-JAN 2011 | Internee at PAKISTAN INSTITUTE OF MEDICAL SCIENCES (PIMS), ISLAMABAD
Implemented a database for storing medical records of Thalesemia Patients |

EDUCATION

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| 2013- 2017 | Doctor of Philosophy Sabancı University , Istanbul, Turkey
Major: Bioinformatics
Thesis: Computational Methods to study Drug Resistance Mechanisms” |
| 2009-2012 | MS Bioinformatics International Islamic University , Islamabad
Thesis: “In Silico Mining of Human Thyroid cancer By the
Evaluation of Expression Data” |
| 2005-2009 | Bs Bioinformatics at International Islamic University , Islamabad |

SCHOLARSHIPS AND CERTIFICATES

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| FEB 2013-FEB 2017 | HEC Scholarship for PhD Studies in Turkey |
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LANGUAGES

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| URDU: | Mother tongue |
| ENGLISH: | Fluent |
| TURKISH: | Beginners Level |

COMPUTER SKILLS

Programming Languages: PHP, MySQL, HTML, Perl, R, Python, \LaTeX
Others: WEKA, Pymol, Chimera, YASARA

PUBLICATIONS

1. Razia Khalid, Hammad Naveed, **Khalid Zoya**. Computational prediction of disease related lncRNAs using machine learning. *Scientific Reports*, 2023.
2. Mushtaq M, Naveed Hammad, **Khalid Zoya**. Computational prediction of lncRNA-protein interactions using Machine Learning, 2021 43rd Annual International Conference of the IEEE Engineering in Medicine Biology Society (EMBC). IEEE, 2021.
3. Moez S, Khalid S, Shaheen S, Khalid M, Zia A, Gul A, Niazi R, **Khalid Z**. Clinically significant findings of high-risk mutations in human SLC29A4 gene associated with diabetes mellitus type 2 in Pakistani population. *Journal of Biomolecular Structure and Dynamics*. 2021 Sep 1:1-4..
4. Malik A, Gul A, Munir F, Amir R, Alipour H, Babar MM, Bakhtiar SM, Paracha RZ, **Khalid Z**, Hayat MQ. Evaluating the cleavage efficacy of CRISPR-Cas9 sgRNAs targeting ineffective regions of Arabidopsis thaliana genome. *PeerJ*. 2021 May 21;9:e11409..
5. Malik A, Gul A, Amir R, Munir F, Babar MM, Bakhtiar SM, Hayat MQ, Paracha RZ, **Khalid Z**, Alipour H. Classification and Computational Analysis of Arabidopsis thaliana Sperm Cell-Specific F-Box Protein Gene 3p. AtFBP113. *Frontiers in genetics*. 2020 Dec 14;11:1559..
6. **Khalid Z**, Almaghrabi O. Effects of Single Nucleotide Polymorphisms in Calmodulin Protein Dependent Protein Kinase Kinase 2 (CAMKK2) : A comprehensive study in Computational and Mathematical methods in Medicine 2020 Oct 6;2020.
7. **Khalid, Zoya**, and Hammad Naveed. "Identification of destabilizing SNPs in SARS-CoV2-ACE2 protein and spike glycoprotein: implications for virus entry mechanisms." *Journal of Biomolecular Structure and Dynamics* (2020): 1-11.
8. **Khalid Z**, Almaghrabi O. Mutational analysis on predicting the impact of high-risk SNPs in human secretory phospholipase A2 receptor (PLA2R1). *Scientific Reports*. 2020 Jul 16;10(1):1-1.
9. **Khalid Z**, Sezerman OU. A comprehensive study on identifying the structural and functional SNPs of human neuronal membrane glycoprotein M6A (GPM6A). *Journal of Biomolecular Structure and Dynamics*. 2020 Apr 17:1-9.
10. **Khalid Z**, Sezerman OU. Computational drug repurposing to predict approved and novel drug-disease associations. *Journal of Molecular Graphics and Modelling*. 2018 Oct 1;85:91-6.
11. **Khalid, Zoya**, and Osman Ugur Sezerman. "ZK DrugResist 2.0: A TextMiner to Extract Semantic Relations of Drug Resistance from PubMed." *Journal of Biomedical Informatics* (2017).
12. **Khalid, Zoya**, and Osman Ugur Sezerman. "Prediction of HIV Drug Resistance by combining Sequence and Structural Properties." *IEEE/ACM Transactions on Computational Biology and Bioinformatics* (2016).
13. **Khalid, Zoya**, and Osman Ugur Sezerman. "ZK DrugResist." (2016).

14. **Khalid, Zoya,** and Ugur Sezerman. "Interpreting the prevalence of regulatory SNPs in cancers and protein-coding SNPs among non-cancer diseases using GWAS association studies." (2014): 95-98.