



Mahnoor Zulfiqar

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Title PhD Project: Integrative analysis of metabolomic and transcriptomic data to assess the biosynthetic capacity of organisms in microbial communities

Main Research Interests

- Integration of Multi-omics data to infer metabolic space microbial consortia
- Designing novel Proteins for exploitation of Bio-analytics and Synthetic biology
- Drug Repositioning with Machine Learning

Methodological Experiences

- Tools on Cheminformatics and Computer Aided Drug Design
- Programming on R, Python, Java and SQL for algorithmic solutions, data analysis and data management
- Natural Products as Novel Inhibitors against Phosphodiesterases through Pharmacophore Modeling, Virtual Screening and Docking (Masters Thesis)

Curriculum Vitae

- Bachelors in Biochemistry and Molecular Biology from University of Gujrat (UOG), Gujrat, Pakistan (2012-2016)
- Masters in Bioinformatics from COMSATS University Islamabad (CUI), Islamabad, Pakistan under the supervision of Dr. Abdul Rauf Siddiqi (2017-2019)
- Workshop on Machine Learning

Publications

Peer-reviewed original paper(s):

- Sadiq,I., **Zulfiqar,M.**, Maryam,A., Rehman,K., Noreen,S., Mursalin,M., Abdul,R.S., Amjad,S., Siddiqi,A.R. (2018). **In-silico studies of CBL-CIPK signaling in rice: Response against hypoxia is triggered by interaction of CBL10 with CIPK15.** *Pakistan Journal of Botany*, 50. 1407 - 1413.