

Faculty Details

Name: Dr. Insaf Ahmed Qureshi

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Area Of Research: Protein Biochemistry and Structural Biology

Faculty Details

Dr. Qureshi's laboratory at UoH is working on to understand the role of various proteins involved in phosphorylation and protein degradation in leishmaniasis through structural and functional approaches and further translate these findings towards the development of novel therapeutics to treat neglected disease like kala-azar.

Dr. Qureshi has published more than 75 research papers in international and national journals, and his group has received extramural research grants from various funding agencies like SERB, ICMR, CSIR etc. Notably, his two PhD students have received the prestigious Prime Minister's Research Fellowship (PMRF). He has been the recipient of several awards and fellowships including ICMR Award (2010), Indo-US Raman Fellowship (2014), ICMR International Fellowship (2018) etc. He has been elected as Fellow, Telangana Academy of Sciences, and is also conferred with the life membership by National Academy of Sciences, India (NASI) and National Academy of Medical Sciences (NAMS).

Notice Board

No Records Available

Students And Project Trainees

Students/Projects Trainees

Name	Joined As	Mail	Contact
J. Pranay	PhD Scholar-PMRF	pranay.jakkula179@gmail.com	---
Janish Kumar	PhD Scholar	janishkumarsvc@gmail.com	---
Jyotisha	PhD Scholar-PMRF	joyti.94@gmail.com	---
Fouzia Nasim	PhD Scholar	16ltpm02@uohyd.ac.in	---

Former Students/Projects Trainees

Name	Joined As	Working
Santhosh Gatreddi	PhD Scholar	Postdoctoral Fellow in Michigan State University, USA

Sayanna Are PhD Scholar Postdoctoral Fellow in University of California, Irvine, USA

Saleem Yousuf Bhat PhD Scholar Postdoctoral Fellow in USA

B. Narsimulu PhD Scholar Postdoctoral Fellow in University of California, Riverside, USA

Publications

59 Nasim F, Kumar MS, Alvala M, Qureshi IA. (2024) , Unraveling the peculiarities of leishmanial arginyl-tRNA synthetase and development of its novel inhibitors. , FEBS Journal, ,,, IF - 5.6.

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55 Sardar S, Jyotisha, Amin SA, Khatun S, Qureshi IA, Patil UK, Jha T, Gayen S. (2023) , Identification of structural fingerprints among natural inhibitors of HDAC1 to accelerate nature-inspired drug discovery in cancer epigenetics. , Journal of Biomolecular Structure and Dynamics, ,,, IF - 4.4.

54 Jyotisha, Qureshi R, Qureshi IA . (2023) , Development of a multi-epitope vaccine candidate for leishmanial parasites applying immunoinformatics and in vitro approaches. , Frontiers in Immunology, ,14,1269774, IF - 7.3.

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50 Amin SA, Kumar J, Khatun S, Das S, Qureshi IA, Jha T, Gayen S. (2022) , Binary Quantitative activity-activity relationship (QAAR) studies to explore selective HDAC8 inhibitors: In light of mathematical models, DFT-based calculation and molecular dynamic simulation studies. , Journal of Molecular Structure , ,1260,132833, IF - 3.841.

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- 48 Singh S, Qureshi IA . (2022) , Identification of potent inhibitors against Chorismate synthase of *Toxoplasma gondii* using molecular dynamics simulations. , *Journal of Molecular Graphics and Modelling*, ,114,108183, IF - 2.942.
- 47 Saini M, Are S, Qureshi IA. (2022) , Pyridoxal kinase of disease-causing human parasites: structural and functional insights to understand its role in drug discovery. , *Current Protein* , ,,, IF - 3.183.
- 46 Nasim F, Qureshi IA (2022) , Role of Structural Biology Methods in Drug Discovery , *Advances in Protein Molecular and Structural Biology Methods*, Elsevier,,,
- 45 Sethi A, Sasikala K, Jakkula P, Gadde D, Sanam S, Qureshi IA, Talla V, Alvala M (2021) , Design, synthesis and computational studies involving Indole-Coumarin hybrids as galectin-1 inhibitors. , *Chemical Papers*, ,75,,2791-2805 IF - 2.097.
- 44 Bhat SY, Bhandari S, Thacker PS, Arifuddin M, Qureshi IA. (2021) , Development of quinoline-based hybrid as inhibitor of methionine aminopeptidase 1 from *Leishmania donovani*. , *Chemical Biology and Drug Design*, ,97,,315-324 IF - 2.817.
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- 18 Peddireddy V, Doddam SN, Qureshi IA, Yerra P, Ahmed N. (2016) , A putative nitroreductase from the DosR regulon of *Mycobacterium tuberculosis* induces pro-inflammatory cytokine expression via TLR2 signaling pathway. , *Scientific Reports* , ,6,24535, IF - 4.996.
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- 2 Qureshi IA, Dash P, Srivastava PS, Koundal KR (2006) , Purification and characterization of an N-acetyl-D-galactosamine-specific lectin from seeds of chickpea (*Cicer arietinum* L.) , *Phytochemical Analysis* , ,17,5,350-356.
- 1 Qureshi IA, Sethi DK, Salunke DM (2006) , Purification, identification and preliminary crystallographic studies of an allergenic protein from *Lathyrus sativus*. , *Acta Crystallography F* , ,62,,869-872.

Projects

Title	Year	Duration	Amount(In Lakhs)	PI/I
Comprehensive proteomics approach to characterize the leishmanial proteins as targets for novel therapeutics	2023	3	5900000	Insaf Ahmed Qureshi

Evaluation of M32 metalloproteinases for the development of therapeutics against leishmanial parasites	2021	3	4950000	Insaf Ahmed Qureshi
In vivo validation of membrane acid phosphatase as a vaccine candidate against leishmanial parasites	2020	3	3050000	Insaf Ahmed Qureshi
Structural and functional studies of glucose 6-phosphate dehydrogenase and 6-phosphogluconate dehydrogenase to understand their role in leishmaniasis	2018	3	4030000	Insaf Ahmed Qureshi
Understanding the role of aminopeptidases in leishmaniasis through structural and functional studies	2017	3	200000	Insaf Ahmed Qureshi
Elucidate the biochemical role of Protein-Protein interaction in the post-transcriptional regulations	2015	1	3500000	Insaf Ahmed Qureshi
Expression, purification and crystallographic studies of protein kinases from Plasmodium falciparum	2012	3	2490000	Insaf Ahmed Qureshi
Identification, purification and characterization of protein phosphatases PP1 from Leishmania donovani	2012	3	740000	Insaf Ahmed Qureshi
Crystallographic study of casein kinase as structural-based target against malaria	2012	1	300000	Insaf Ahmed Qureshi