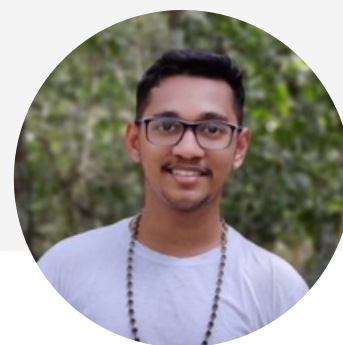


AKSHAY RAUL

COMPCHEM RESEARCHER



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Aspiring for a job which enables me to showcase my technical and professional knowledge and to contribute to drive the standard, quality and value of the organization in the endeavour to promote health care system.

EDUCATION

M.S. in Medicinal Chemistry, 2020

National Institute of Pharmaceutical Education and Research (NIPER),
S.A.S Nagar, India

- Graded 8.6/10 CGPA
- Thesis submission "Design and Synthesis of Phenyl linked quinazolinone amidines as trypanothion reductase inhibitors."

Bachelore of Pharmacy, 2018

KLE College of Pharmacy, Belagavi,
Karnataka, India

- Graduated with Percentage: 72.64%

PUBLICATION

- Review article "Biguanides: Species with versatile therapeutic applications" in European Journal of Medicinal Chemistry.

DOI: [10.1016/j.ejmech.2021.113378](https://doi.org/10.1016/j.ejmech.2021.113378)

AREAS OF EXPERTISE

- Structure and ligand-based drug design, virtual screening,
- Molecular docking (Rigid, IFD and covalent docking) ,Free energy calculation (MMGBSA/PBSA)
- Scaffold hopping, shape-based screening and bioisosteric replacement
- Pharmacophore modeling, Similarity/Near neighbor search/Clustering
- Homology modeling, Molecular dynamics simulation.
- PROTAC design
- De-novo Drug design and Fragment based drug design
- Basic quantum mechanics and Energy calculations (DFT/HF)
- Library Enumeration, calculating molecular properties

Software exposure: Schrodinger suits, ICM Molsoft, Knime workflows, Cresset's Flare and Spark, Guassian, RDkit, Gromacs,
Programming languages known: C++ and Basic Python

EXPERIENCE

- Senior Research Associate Syngene International Ltd | Oct 2020 - Present
- Supporting Medchem projects, CADD projects, Database curation and handling

CO-CURRICULAR

- Poster presentation (Title: Green chemistry: Solvents and Catalysts a Greener Approach) In APPI-17 National seminar on "Environmental Physiology- High Altitude and Space"

LANGUAGES KNOWN

- English
- Hindi
- Kannad
- Marathi

HOBBIES

- Trekking and Travelling
- Yoga
- Numismatics

REFERENCE

Prof. P.V. Bharatam

Professor & Head

Dept. of Medicinal Chemistry,
NIPER, Sector-67, SAS Nagar
(Mohali), Punjab, IN - 160062

Ph: +91-172-2292018

pvbharatam@niper.ac.in

ACADEMIC ACHIVEMENTS

- Qualified NIPER Ph.D-JEE, 2022 (For Ph.D in Pharmacoinformatics) - All India Rank 2
- NIPER masters entrance exam 2018 with - All India Rank 173
- Qualified AICTE - Graduate Pharmacy Aptitude Test (GPAT), 2018
- Awarded NIPER fellowship for 2 years by Ministry of Chemicals and Fertilizers, Govt. of India, to pursue M.S. (Pharm.) in Medicinal Chemistry
- Awarded with Sir Ratan Tata Scholarship for being meritorious in 2nd and 3rd year B.Pharm respectively
- Honored with Best Student Award in Bachelor of Pharmacy, 2018

EXTRA-CURRICULAR

- Active member of National Service Scheme (NSS) in KLE College of Pharmacy and NIPER, Mohali: Responsible for various volunteering social activities like blood donation camp, cleanliness campaigns, awareness events in nearby elementary and middle schools
- Placement Coordinator of the Department of Medicinal Chemistry, 2019-20: Responsible for organizing placement drives and acts as an interface between the employing organization and the students