

**SOORAM BANESH**

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**Supervisors**

**Dr. Vishal Trivedi**

Associate Professor, Malaria Research Group,  
Indian Institute of Technology-Guwahati

**Dr. Vibin Ramakrishnan**

Associate Professor, Molecular Informatics and Design,  
Indian Institute of Technology-Guwahati

**ACADEMICS:**

Degree	Institute/ University/ Board	Year	%/CGPA
<b>Ph.D</b>	Dept. of BSBE, IIT Guwahati, Assam India	Pursuing	
<b>Master of Technology (Pharmaceutical Technology Biotechnology)</b>	National Institute of Pharmaceutical Education and Research (NIPER), Mohali	2013-2015	8.11/10
<b>Bachelor of Pharmacy</b>	Kakatiya University, Warangal	2009-2013	82.2
<b>Senior Secondary School</b>	BIE, Andhra Pradesh	2008	90.3
<b>High School</b>	SSC, Andhra Pradesh	2006	89.6

**ACCOMPLISHMENTS:**

Secured **AIR-822 in GPAT** and **AIR-349 in NIPER-JEE** in year 2013

**RESRACH INTERESTS:**

- Scavenger receptor role in immuno-dysfunction during cerebral malaria
- Chemoenzymatic synthesis of aromatase inhibitors as a therapeutic alternatives for breast cancer treatment
- Synthesis and coupling of nanoparticles with protoporphyrins

**PUBLICATIONS:**

1. Ghosh, S., Bhaumik, J., Banoth, L., **Banesh, S.** and Banerjee, U.C., 2016. Chemoenzymatic Route for the Synthesis of (S)-Moprolol, a Potential  $\beta$ -Blocker. *Chirality*, 28(4), pp.313-318.
2. Sawant, G., Ghosh, S., **Banesh, S.**, Bhaumik, J. and Banerjee, U.C., 2016. In silico approach towards lipase mediated chemoenzymatic synthesis of (S)-ranolazine, as an anti-anginal drug. *RSC Advances*, 6(54), pp.49150-49157.
3. Thakur, N.S., Bhaumik, J., **Sooram, B.**, Banoth, L. and Banerjee, U.C., 2016. Synthesis of Enantiopure Drugs and Drug Intermediates Using In Silico Generated Archetype Biocatalyst: A Case Study Using Alprenolol as a Model Drug. *ChemistrySelect*, 1(4), pp.871-876.

## CONFERENCES:

- Attended 11<sup>th</sup> International conference of ISHR on: **Changing Trends on Cardiovascular Drug Discovery and Development**
- **Presented poster in 26<sup>th</sup> National parasitology Congress on “Addressing New Challenges and Emerging Issues In Parasitology and Disease Biology”** held at BHU, Varanasi between 21<sup>st</sup> to 23<sup>rd</sup> January, 2016
- Presented poster in **Research conclave 2016** an annual conglomeration of scientific community organized by Indian Institute of Technology-Guwahati held during 17<sup>th</sup> to 20<sup>th</sup> March 2016
- Presented poster entitles **“Biochemical and molecular modeling study to understand CD36-PS interaction: potentials in downstream applications”** in the scientific session in the **“85<sup>th</sup> Annual Meeting of Society of Biological chemists (India)”** held during 21<sup>st</sup> to 24<sup>th</sup> November, 2016 at CSIR-CFTRI, Mysuru, India.
- Presented poster entitles **“Probing the interactions of phosphatidylserine with scavenger receptor CD36 using in-silico tools and it's implications in understanding the non- opsonic phagocytosis mechanism”** in **Research Conclave 2017**, organized by Indian Institute of Technology-Guwahati held during 16<sup>th</sup>-19<sup>th</sup> March 2017
- Participated in the International conference on Drug Design, held during 7-9 April, 2017 organized by Schrodinger

## PERSONAL SKILLS:

### Technical Skills

Good knowledge of:

- Biocatalysis and downstream processing
- Cell culture techniques and biochemical characterization of
- microorganisms extraction and separation of organic compounds
- Multistep organic synthesis
- Molecular biology techniques: Agarose gel electrophoresis, SDS-PAGE, Plasmid extraction, PCR, Ni-NTA column chromatography
- Instrument handling: Double beam UV-Vis spectrometer, High speed refrigerated ultracentrifuge, HPLC (Shimadzu, Waters), FPLC, Chiral HPLC and Rotavapor, BioRad GelDoc
- Analytical knowledge of GCMS, HRMS, FTIR, 1H-NMR, 13C-NMR, Polarimetry and CD data

### Computer Proficiency:

- MS-Word, MS-Excel, MS-PowerPoint
- ChemDraw, Reference Management Software (EndNote™), SigmaPlot
- Scientific data retrieval from various internet portals like SciFinder, ScienceDirect, PubMed, NCBI, PDB, IPAT, LibGen and Google Scholar etc.
- Glide docking and maestro analysis tool, ACS<sup>1</sup> H<sup>13</sup> C analysis tool