Rohit Suratekar

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Date of Birth: October 16, 1989
Nationality: Indian
Languages: English, Marathi, Hindi

Current position

Research Scholar, National Centre for Biological Sciences, Bangalore

Areas of specialization

Computational Cell Biology

Education

2012 - present **Doctor of Philosophy** in Computational Cell Biology
National Centre for Biological Sciences, Bangalore, India
Thesis topic: Understanding the structure and dynamics of *Drosophila* PIP_2 cycle with mathematical modelling

2007 - 2011 **Bachelor of Technology** in Biotechnology
Motilal Nehru National Institute of Technology, Allahabad, India
Thesis topic : Indirect and Direct Effect of Turbulence on Bacterial growth

2005 - 2007 **Higher Secondary School Certificate**
Vivekanand College, Kolhapur, India

Research Projects

2013-present **Regulation of lipid signaling pathway in *Drosophila melanogaster***
Supervisors : Dr. Sandeep Krishna and Prof. Raghu Padinjat
National Centre for Biological Sciences, Bangalore.

2013-present **Searching potential feedback links in existing signaling pathway**
Supervisors : Dr. Sandeep Krishna and Prof. Raghu Padinjat
National Centre for Biological Sciences, Bangalore.

2014-present **Understanding lipid transfer across membranes**
Supervisors : Dr. Sandeep Krishna and Prof. Raghu Padinjat
National Centre for Biological Sciences, Bangalore.

2013 **Modeling of Phosphatidic Acid turnover in *Drosophila melanogaster***
Supervisors : Prof. Raghu Padinjat and Dr. Sandeep Krishna
National Centre for Biological Sciences, Bangalore.

2012 **Exploring connections between protein content, codon bias and GC content**
Supervisor : Dr. Mukund Thattai
National Centre for Biological Sciences, Bangalore.

2010-2011 **Indirect and Direct Effect of Turbulence on Bacterial growth**
Supervisor : Dr. Shivesh Sharma
Motilal Nehru National Institute of Technology, Allahabad.

Publications and Talks

2018 Suratekar R, Panda A, Padinjat R, Krishna S (2018). Evidence of sinks and sources in the phospholipase C activated PIP_2 cycle. *FEBS Lett*. 2018 Mar ; 592(6):962-972. PubMed PMID: 29427502. doi: 10.1002/1873-3468.12998

Research talks

2018 *2^{nd} International FishMed Conference on Zebrafish Research, FishMed2018*, Warsaw, Poland
Evidence of sinks and sources in the PLC activated PIP_2 cycle (March 25–27 2018)

2018 *Aspects of Gene and Cellular Regulation*, Chennai, India
Evidence of sinks and sources in the PLC activated PIP_2 cycle (January 12–13 2018)

2017 *Physical Concepts in Stem Cell Biology*, Tisvildeleje, Denmark
Evidence of sinks and sources in the PLC activated PIP_2 cycle (August 6–10 2017)

2015 *NCBS-RIKEN joint meeting for theoretical approaches in biology*, Wako, Japan
Speeding up $PI(4,5)P_2$ recovery with top gear (April 7–10 2015)

Posters

2018 Evidence of sinks and sources in the PLC activated PIP_2 cycle EMBL Symposium: Tissue Self-Organisation, March 11–14 2018 Heidelberg, Germany

2018 **Evidence of sinks and sources in the PLC activated PIP_2 cycle** 2^{nd} International FishMed Conference on Zebrafish Research, FishMed2018, March 25–27 2018 Warsaw, Poland

2018 **Evidence of sinks and sources in the PLC activated PIP_2 cycle** Celebrating Diversity in Biology - NCBS Annual Talks, January 3–5 2018 Bangalore, India

2017 **The Hitchhiker's Guide to The Regulation of PI(4,5)P2 Cycle During Drosophila melanogaster Phototransduction,** Futures in Biology - NCBS Annual Talks, January 11–14 2017 Bangalore, India

2015 **Regulation of levels of PI(4,5)P2 on the plasma membrane,** Biology across scale - NCBS Annual Talks, January 5–8 2015 Bangalore, India

2014 **$PI(4,5)P_2$ dynamics during *Drosophila melagogaster* phototransduction,** Aspects of gene regulation, December 16 2014 Chennai, India

2014 **$PI(4,5)P_2$ dynamics during *Drosophila melagogaster* phototransduction,** NCBS Annual Talks, January 15–17 2014 Bangalore, India

Fellowships and Awards

2018 Young FishMed Speaker and Travel Grant, FishMed, Poland
2018 Best Poster and Travel Award, NCBS Annual Talks, India
2012 - 2018 NCBS-TIFR graduate fellowship, India
2012 Graduate Aptitude Test in Engineering (GATE) fellowship, India

Minimum Skill Set

Experimental Biology

Average: Molecular biology techniques, Protein purification
Basic: Fly pushing, Optical Microscopy, Electro-physiology (ERG)

Computational Biology

Above average: Ordinary Differential Equations, Monte Carlo simulations, Diffusion reactions, Dynamical Systems, Parameter sensitivity analysis
Average: Optimization techniques, Stochastic Calculus
Basic: Partial Differential equations, Bayesian Analysis

Programming languages

Above average: Python 3, Java, Matlab, LaTeX
Average: C++, Perl, Javascript/Typescript
Basic: Actionscript, CSS, C#, AngularJS 2, SQL/Non-SQL database

References

Dr. Sandeep Krishna (NCBS, Bangalore), email: sandeep@ncbs.res.in
Prof. Raghu Padinjat (NCBS, Bangalore), email: praghu@ncbs.res.in

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