

Dana, Saswati



PhD Institution and Year : Indian Institute of Science, Bangalore, 2011 (2006-2011)

Date of Joining IISc : January 2015 (as a postdoc)

Area(s) of Research : Mathematical and Computational Science

Name of the Post-doctoral Fellowship : Centre (CeNSE Postdoc)

Laboratory where currently working : Complex Systmes & Molecular Sensors (Cosmos Group with Dr. Manoj Varma)

Department : Centre for Nano Science and Engineering

Email address and Telephone number : saswatidana@gmail.com, 9483709910

Topic(s) of Research : Synchronization phenomena of biological species.

Research Publications in IISc :

- *Saswati Dana and Manoj M. Varma, Gas-selective Signal Amplification in Fluctuation based Graphene FET Sensors*, IEEE Sensors Journal, vol. 16, pp. 6533-6536, Sep 2016, doi: 10.1109/JSEN.2016.2585739.
- *Saswati Dana, Soumyendu Raha, A Positivity Preserving Numerical Method for Integrating Chemical Langevin Equations. Physically Consistent Simulation of Mesoscale Chemical Kinetics: the Non-Negative FIS- α Method*, Journal of Computational Physics. vol. 230, pp. 8813-8834, 2011, doi:10.1016/j.jcp.2011.07.032.
- *Saswati Dana, Takashi Nakakuki, Mariko Hatakeyama, Shuhei Kimura and Soumyendu Raha, Computation of restoration of ligand response in the random kinetics of a prostate cancer cell signaling pathway*, Computer Methods and Programs in Biomedicine. vol. 101, pp. 1-22, 2011, doi:10.1016/j.cmpb.2010.04.001 .
- *Tapan Kumar Nayak, Saswati Dana, Sujit Kumar Sikdar and Soumyendu Raha, Activator induced dynamic disorder and molecular memory in human two-pore domain hTREK1 K⁺ channel*, Journal of Chemical Biology, vol. 4, Number 2, pp. 69-84, Feb 2011, doi: 10.1007/s12154-010-0053-3.

Other accomplishments and recognition while in IISc : -

What information will be useful to post-docs if it is available on the post-doc page on the IISc Website ? List the items.

- i)** Post-docs can see what are the various diverse topics people are working in each labs in IISc.
- ii)** If any postdoc wants to work collaboratively with other post doc they can directly contact.

A tweet about your post-doctoral experience in IISc : It is a great experience working at IISc.