

EDUCATION AND TRAINING

- 1999-02 BSc (Honours), Physiology, Presidency College, Calcutta, India
 2002-04 MSc, Neuroscience, International Max Planck Research School, Göttingen, Germany
Mentors: Christian Rosenmund, PhD and Erwin Neher, PhD
 2004-07 PhD, Neuroscience, Baylor College of Medicine, Houston, USA
Mentor: Christian Rosenmund, PhD
 2007-14 Post-doctoral Training, Department of Neuroscience, Columbia University, New York, USA
Mentor: Steven A. Siegelbaum, PhD

POSITIONS AND HONORS**Positions and Employment**

- 2007-09 Research Associate, Howard Hughes Medical Institute, Columbia University, New York, USA
 2010- Associate Research Scientist, Dept. of Neuroscience, Columbia University, New York, USA

Teaching-related

- 2005 Teaching Assistant, *Analysis of Neuronal Function*, Baylor College of Medicine, Houston
 2011 Lecturer, *Neuroscience, Science Honors Program (Fall)*, Columbia University, New York
 2012 Lecturer, *Neuroscience, Science Honors Program (Spring)*, Columbia University, New York

Honors and Awards

- 2000 Ila Mukhopadhyay Medal for Best Human Quality, Presidency College, Calcutta, India
 2001 Best Speaker, Inter College Debate Competition on Nutrition.
 National Nutrition Monitoring Bureau, Indian Council of Medical Research, India
 2001 1st Prize in Prof. A.K.Mukherjee Memorial Student Lecture, India.
 2002 Industrial Stipend Award, Vossius & Partner, Munich, Germany.
 2002 Max Planck Stipend, International Max Planck Research School, Göttingen, Germany
 2003 Best Lab Rotation Seminar, Neurosciences MSc-PhD Program, International Max Planck Research School, European Neuroscience Institute, Göttingen, Germany
 2006 Course Stipend Award, Immunocytochemistry, In Situ Hybridization and Live Cell Imaging Course, Cold Spring Harbor Laboratory, New York, USA
 2005 Paper of the Year, Dept. of Molecular Human & Genetics, Baylor College of Medicine, Houston
for Basu, et. al. 2005, Nature Structural and Molecular Biology.
 2010 NARSAD Young Investigator Award
 2010 Travel Award, Young Investigators Meeting, India.
 2010 Poster Prize, Horizons in Molecular Biology International Symposium, Germany
 2012 Anuradha Rao Memorial SFN Travel Award, Neuron

Professional Societies

- Society for Neuroscience
 New York Academy of Sciences

PUBLICATIONS

- 1) **Basu, J.**, Shen, N., Dulubova, I., Lu, J., Guan, R., Guryev, O., Grishin, N. V., Rosenmund, C., and Rizo, J. (2005) A minimal domain responsible for Munc13 activity. *Nature Structural Molecular Biology* **12**, 1017-1018 . F1000 Reviewed
- 2) Kalla, S., Stern, M., **Basu, J.**, Varoqueaux, F., Reim, K., Rosenmund, C., Ziv, N. E., and Brose, N. (2006) Molecular dynamics of a presynaptic active zone protein studied in Munc13-1-enhanced yellow fluorescent protein knock-in mutant mice. *Journal of Neuroscience* **26**, 13054-13066
- 3) Schluter, O. M., **Basu, J.**, Sudhof, T. C., and Rosenmund, C. (2006) Rab3 superprimes synaptic vesicles for release: implications for short-term synaptic plasticity. *Journal of Neuroscience* **26**, 1239-1246
- 4) **Basu, J.**, Betz, A., Brose, N., and Rosenmund, C. (2007) Munc13-1 C1 domain activation lowers the energy barrier for synaptic vesicle fusion. *Journal of Neuroscience* **27**, 1200-1210
- 5) **Basu, J.**, Srinivas K. V., Cheung, S.K., Taniguchi, H., Huang, Z. J., and Siegelbaum, S.A. (2013) A cortico-hippocampal learning rule enhances information flow through the hippocampal circuit by shaping local inhibitory microcircuit activity. *Neuron* **79** (6) 1208-1221. *Cover Illustration. F1000 reviewed*
- 6) Kupferman, J., **Basu, J.**, Russo, M. J., Guevarra, J.D., and Siegelbaum, S.A. (2014) Reelin Signaling is Required for the Enrichment of Ion Channels in Pyramidal Neuron Distal Tuft Dendrites. *Cell*, 2014 (07) 035 Sept 4.