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Research Interest

Stroke is the most debilitating among all neurological disorders and the predominant cause of adult morbidity with limited treatment option. We seek to understand how perturbations in protein expression and post-translational modifications such as *phosphorylation* mediate neurovascular dysfunction in brain injury and repair. In the pursuit, our laboratory uses a combination of biochemical, flow cytometric, proteomics, bioinformatics, and molecular biological tools on various pre-clinical models and comparable clinical samples. The overarching aim is to discover potential therapeutic targets and biomarkers for ischemic stroke using a systems biological approach.

Professional Experience

Teaching

11/19 – Present M.Sc. Bioscience, Course: BS201 – Biochemistry, BS205 – Toxicology

Research

05/15 – 09/19 Visiting Fellow, National Institutes of Health, Bethesda, USA
06/13 – 02/15 Post-doctoral Research Fellow, Sch. of Bio. Sciences, Nanyang Technological University, Singapore
03/12 – 06/13 Post-doctoral Research Associate, YLL School of Medicine, National University of Singapore, Singapore

Pharmaceutical R&D

02/06 – 12/07 Scientist II, Discovery Pharmacology, Torrent Research Centre, Torrent Pharmaceuticals Ltd., India
07/05 – 12/05 Research Associate, Formulation and Development, Rubicon Research Pvt. Ltd., Mumbai, India

Education

2008-11 **Ph.D.**, Sch. of Biol. Sciences, Nanyang Tech. University, Singapore; Course work: GPA 5/5; **Awarded: Feb, 2013**
2005 M.Pharm., **Major: Pharmacology**; Class/ Division: First; Score: 82.2%, **Rank: First**; Jadavpur University, India
2003 B. Pharm., Class/ Division: First (Hons); Score: 78.9%, **Rank: Second**; Jadavpur University, India

Awards [Top 3, out of 10]

10/17 Outstanding Poster Presentation, 4th Annual Meeting-American Physiol. Society, Washington DC, USA
12/05 **University Gold Medal**, Master of Pharmacy Examination, Jadavpur University, India
04/03 **Merit Medal** for academic excellence, Alumni Association of Jadavpur University, India (Bachelor's Program)

US Patent

03/2015 Plasma Microvesicle Biomarkers for Ischemic Stroke; International Publication Number: WO 2015/038065 A1
Inventors: Siu Kwan Sze, Christopher Chen, **Arnab Datta**, Palau Xavier Ramon Gallart; Role: Lead Researcher

Publications [Top 5, out of 18, Ref: [Google Scholar](#)]

- Datta A et al.** PKA-Independent Vasopressin Signaling in Renal Collecting Duct. *FASEB J* **2020**, doi: 10.1096/fj.201902982R. (IF: 5.4)
- Datta A et al.** An iTRAQ-based proteomic analysis reveals dysregulation of neocortical SYNPO in Lewy body Dementias. *Molecular Brain* **2017**, 10(1):36. (IF: 3.5) [*First and co-corresponding author]
- Datta A et al.** Discovery of prognostic biomarker candidates of Lacunar Infarction by quantitative proteomics of microvesicles enriched plasma. *PLoS ONE* **2014**, 9 (4), e94663 (IF: 3.2)
- Datta A et al.** Quantitative neuroproteomics of an in vivo rodent model of focal cerebral ischemia/reperfusion injury reveals a temporal regulation of novel pathophysiological molecular markers. *Journal of Proteome Research* **2011**;10:5199-213. (IF: 5.1)
- Datta A et al.** Phenotyping of an in vitro model of ischemic penumbra by iTRAQ-based shotgun quantitative proteomics. *Journal of Proteome Research* **2010**; 9:472-84. (IF: 5.5)