

Faculty Profile	Dr. Indrani Datta
Designation	Assistant Professor
Associated with NIMHANS as faculty since (Month and Year)	31 st October 2014
Awards, Fellowships and Recognitions, Memberships	<ul style="list-style-type: none"> • 2013-2014 – Awarded the Innovative Young Biotechnologist Award by DBT, in the subject area of ‘Stem cells and Neuroscience’. • 2010 - Awarded Fast Track Scheme For Young Scientists from Department of Science and Technology, Government of India. • 2008 – Travel grant award from International society of stem cell and research, (ISSCR), Philadelphia, USA. • 2004 – Dr. N. N. Saha award for best oral presentation, Cellular and Molecular Biophysics Symposium and Indian Biophysical Society Conference. • 2004 – Senior Research Fellowship, Lady Tata Memorial Trust Scholarship. • 2003 – Dr. S. S. Parmar award for best paper presentation, International Neuroscience Conference jointly conducted by Indian Academy of Neurosciences & FAONS. • 2000 – Ph.D scholarship from NIMHANS. • 2000 – Dr. Ram Murthy Award – University Rank in M.Phil Examination. • 1998 – M.Phil scholarship from NIMHANS. • 1998 - Gold Medal award – University Rank in M.Sc Examination.
Areas of Research Interest	Cell-cell (neuron-astrocyte, astrocyte-astrocyte) interactions, Neurobiology of Parkinson’s disease and diabetic neuropathy through <i>in vitro</i> and <i>in vivo</i> models, Molecular imaging and flow cytometry in stem cell and neuron-glia biology, Generation of induced pluripotent stem cells from patients of Indian ethnicity for disease etiology and drug screening, Neuro-protective potential of mesenchymal stromal cells isolated from human fetal and adult tissues (umbilical cord matrix, dental pulp), Signalling mechanisms underlying phenotypic plasticity.
Contact Information	Tel: 080-26995106 Fax: 080-26564830 Email: indranidatta.nimhans@gmail.com

Institutional Research –

Research Projects –

1. Assessment of extracellular alpha synuclein on midbrain astrocytes implications in the pathophysiology of Parkinson's disease. PI – Dr. Indrani Datta (Sanctioned – Funding by DBT)
2. Role of alpha-synuclein phosphorylation in dopaminergic neuron dysfunction. PI – Dr. Indrani Datta (sanctioned – SERB, DST).
3. Development of an *in vitro* model to assess the role of endogenous astrocytes and adult stem cell derived supportive cells on the survival of midbrain dopaminergic neurons. PI - Dr. Indrani Datta (Completed-Funding by DBT for IYBA award).
4. Establishing link between 6-hydroxydopamine, α -synuclein and vesicular dopamine release in an *in vitro* Parkinson's disease model to evaluate the protective effect of human dental pulp stem cells. PI - Dr. Indrani Datta (Completed - Funding by ICMR).
5. Development and assessment of human embryonic stem cell derived neural progenitors as a model for hypoxic-ischemic like injury – Implications for Hypoxic Ischemic Encephalopathy. PI – Dr. Indrani Datta (Completed - Funding by CSIR).
6. Generation of Induced pluripotent stem cells from blood cells of Schizophrenia patients – a cell source for neural progenitors. Investigators – Dr. Indrani Datta, Dr. G. Venkatasubramanian (Completed - Funding by NIMHANS Seed Money Grant).