



Online School – National Brain Research Centre, India

- Title and Theme of School:**
Title: Modelling Brain Disorders
Theme: Recent advances in models for understanding brain function and disease
- Place and date of proposed School:**
Place: Online mode; National Brain Research Centre (NBRC), Manesar, India.
NBRC – www.nbrc.ac.in
Date: December 22, 2022
- Name of body organizing the School and names of the organizing committee members:**

Organizers:

Asian-Pacific Society for Neurochemistry (APSN)

Organizing committee:

Name: Prof Pankaj Seth (APSN Council Member, Chair - APSN Oct 2022 Online Seminar)

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2nd Online School of APSN - Modelling Brain Disorders

Time (New Delhi)	Event
09:00 - 09:15	Welcome address Ying-Shing Chan, Hong Kong SAR China: Mission of APSN / ISN Krishanu Ray, India: Mission of NBRC Pankaj Seth, India: Theme & Purpose of the 2nd Online School of APSN
Session - 1: Stem Cell Based Models for Brain Disorders	
09:15 – 09:35	<i>Neurodevelopmental aberrations in hiPSC-derived Alzheimer's disease models</i> Michael Ling, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Selangor, Malaysia
09:35 – 09:55	<i>From Petri Dish to Personalized Medicine: The Potential of Ethnicity-Specific iPSCs in Parkinson's Disease</i> Indrani Datta, National Institute of Mental Health and Neurosciences (NIMHANS) Bangalore, India
09:55 – 10:15	<i>Early onset Parkinson's disease-patient derived stem cells and neural derivatives to study calcium signalling changes</i> Renjitha Gopurapilly, National Center for Biological Sciences, Bangalore, India
10:15 – 10:35	<i>Human neural stem cells as in vitro models for virus induced neurodegeneration.</i> Pankaj Seth, National Brain Research Centre, Manesar Gurgaon, India
10:35 – 10:50	<i>Q & A – Discussion Session</i> Discussion Moderator - Kwok-On Lai, Hong Kong SAR, China
10:50 – 11:00	<i>Break</i>
Session - 2: Animal Models for Neurodegenerative Disorders	
11:00 -11:20	<i>Evolution of the animal models of Parkinson's disease</i> Poonam Thakur, Indian Institute of Science Education and Research, Trivandrum, India
11:20 – 11:40	<i>A novel polygenic mouse model for Alzheimer's Disease</i> Eyleen Goh, Nanyang Technological University, Singapore
11:40 – 12:00	<i>Glutamate receptor signaling and trafficking: Implications in the normal and diseased brain.</i> Samarjit Bhattacharya – Indian Institute of Science Education and Research, Mohali, India
12:00 – 12:20	<i>Understanding the neural basis eating disorders: insights from animal models.</i>

	Aurnab Ghose, Indian Institute of Science Education and Research (IISER) Pune, India
12:20 – 12:35	<i>Q & A – Discussion Session</i> Discussion Moderator – Prof. Akio Wanaka, Japan
12:35 - 13:20	<i>Lunch Break</i>
Session - 3: Cellular and Molecular Basis of Neurodegeneration	
13:20 - 13:40	<i>Developing a self-assembling molecular medicine for ischemic stroke.</i> Itsuki Ajioka, Tokyo Medical and Dental University, Japan
13:40 – 14:00	<i>Conformational diversity of the alpha synuclein amyloid fibrils: “Pathomechanisms of Parkinson’s disease and related disorders and the disease specific fibril polymorphisms”.</i> Kensuke Ikenaka, Osaka University Graduate School of Medicine, Osaka, Japan
14:00 - 14:20	<i>Multi-scale dynamic field model: A computational microscope to explore the role of neurotransmitter kinetics onto macroscopic brain dynamics</i> Arpan Banerjee, National Brain Research Centre, Manesar Gurgaon, India
14:20 – 14:40	<i>Long non-coding RNAs in synaptic plasticity and memory disorder</i> Sourav Banerjee, National Brain Research Centre, Manesar, India
14:40 – 15:00	<i>Q & A – Discussion Session</i> Discussion Moderator – Dan Ohtan Wang, Japan
15:00 – 15:05	<i>Break</i>
15:05 – 16:05	Brief presentations by students (5 min each) Aurnab Ghosh, Sourav Banerjee, Indrani Dutta and WoongSun*, Itsuki Ajioka* * Discussion facilitators Manas Ranjan Sahu, Jawaharlal Nehru University, New Delhi, India Faizan Ahmad, Jamia Islamia University, New Delhi, India Ruth Naomi Manuel, Malaysia Hou Shengquin, RIKEN BDR, Japan Sarosh Farooq Khan, University of Karachi, Pakistan Caroline Amaral Machado, Institute of Biological Sciences, Brazil Sabrine Ben Slimen, Faculty of Sciences of Sfax, Tunisia

16:05 - 17:05	Mentor-Mentee relationships Aurnab Ghosh, Sourav Banerjee, Indrani Dutta and WoongSun*, Itsuki Ajioka* * Discussion facilitators
17:05 - 17:15	Closing remarks (Ying-Shing Chan, President APSN, Univ of Hong Kong (Hong Kong SAR, China))