



PROF. LEONORA BUZANSKA

Director of the Mossakowski Medical Research
Institute, Polish Academy of Sciences
is pleased to invite you to

INTERNATIONAL SYMPOSIUM

Emerging tools to investigate nervous
system: from gene editing through
targeting stem cells to modeling
pathology with brain organoids

24 JUNE 2022

12.30 – 15.00

Free admission!

 **IMDiK PAN Warszawa,
Pawińskiego 5**



PROF. IN-HYUN PARK



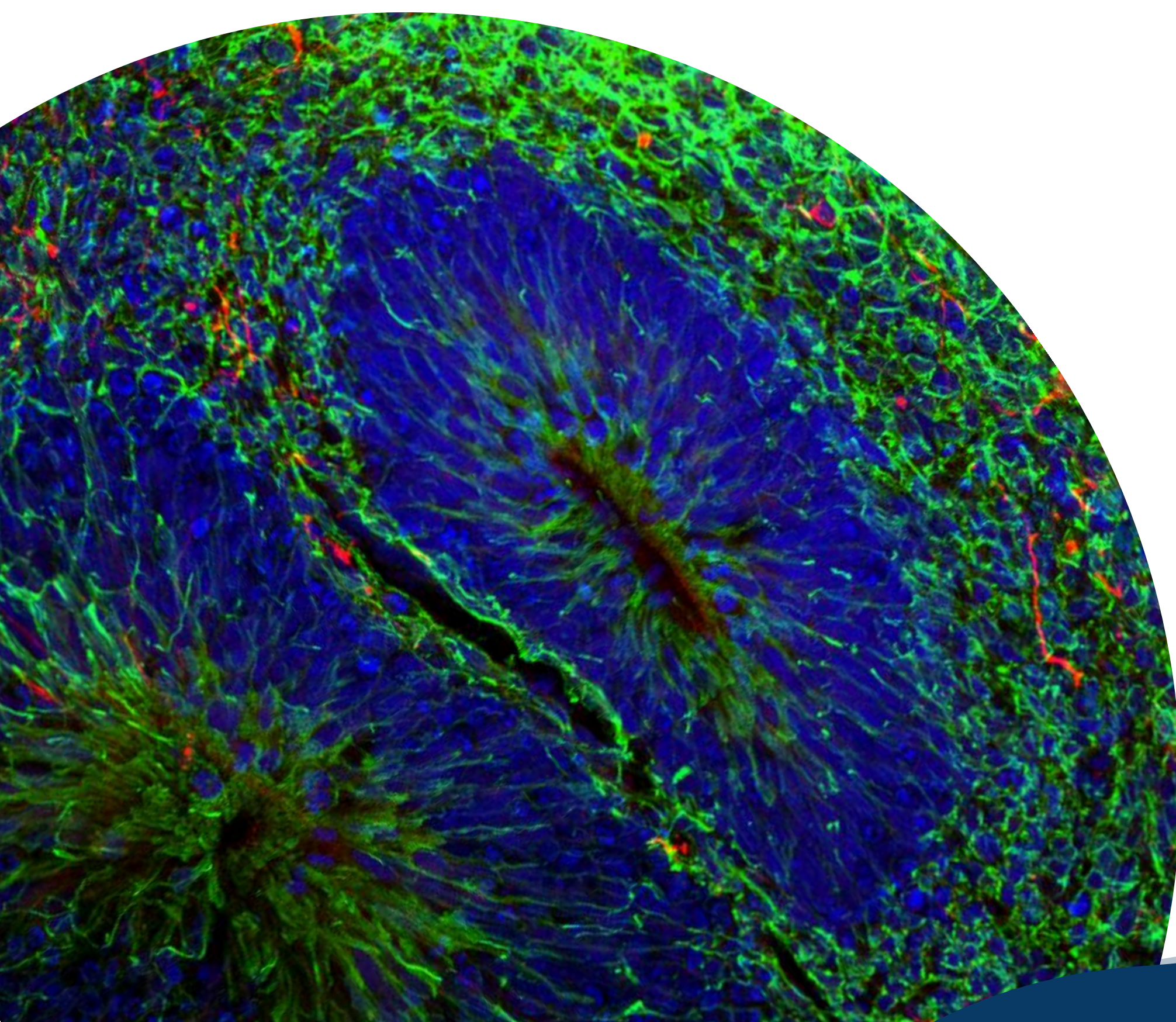
PROF. HIROAKI TANIGUCHI



PROF. YANG D. TENG

AGENDA

- 12.30 - 12:40** ***Opening and Guest Speaker introduction***
Prof. Leonora Bużańska
- 12.40 - 13.30** ***"Development of the integrated brain organoids***
Prof. In-Hyun Park
- 13.20 - 13.30** ***Questions & Discussion***
- 13.30 - 14.00** ***"Analysis of the molecular mechanism of phosphorylated***
 α -synuclein and ubiquitinated protein accumulation caused
by dopaminergic neuron-specific NFE2L1 gene knockout "
Prof. Hiroaki Taniguchi
- 14.00 - 14.10** ***Questions & Discussion***
- 14.10 - 15.00** ***"Controlled Drug Release for Treating SCI: Targeting***
Recovery Neurobiology Mechanisms"
Prof. Yang D. Teng
- 15.00 - 15.10** ***Questions & Discussion***
- Refreshments**



ORGANIZATOR



SPONSOR



GUEST SPEAKERS



IN-HYUN PARK, PHD

Associate Professor, Department of Genetics, Yale Stem Cell Center; Child Study Center, Yale Center for Clinical Investigation, Yale University School of Medicine

Doctor Park received his B.S and M.S. from Seoul National University at Korea, and Ph.D from University of Illinois at Urbana-Champaign in the field of Cell and Structural Biology. During his Ph.D training with Dr. Jie Chen, he studied mTOR pathways regulating cell growth, and myogenic differentiation. He continued his research as a Post-doc fellow in Dr. George Daley's lab in Children's Hospital Boston, where he isolated one of the first human induced pluripotent stem cells (iPSCs) and investigated the epigenetic change during reprogramming process. He started his own lab at Yale University from 2009, and is now an Associate Professor of Genetics, Yale Stem Cell Center, and Child Study Center. As an independent investigator, he investigates human neurodevelopment and related disorders using human iPSCs and brain organoids with genetics and genomics tools.



HIROAKI TANIGUCHI, PHD, DSC

Associate Professor, Team Leader of Genome Editing and Transcriptional Regulation, Department of Experimental Embryology, Institute of Genetics and Animal Biotechnology, Polish Academy of Sciences

Doctor Taniguchi earned his Ph.D. from Laval University (Canada) in 2007, in the field of transcriptional regulatory pathways involved in steroidogenesis and mammalian sex determination. Afterward, he conducted his training at several international Institutes (McGill University, Doshisha University, RIKEN). In 2015-2016, as a project manager, he worked on the commercial use of adipose tissue-derived stem cells at Nihon University (Japan). In 2017, he was employed as a Team Leader in the Laboratory of Genome Editing and Transcriptional Regulation at the Institute of Genetics and Animal Biotechnology of PAS (Poland). His current research is focused on transcriptional regulation of neurogenesis and the role of newly discovered human mutation in liver cancer development. His research has been supported by several Polish national grants (Opus, Preludium Bis, Preludium) as well as a European funding program (Horizon 2020).



YANG D. TENG, PHD, MD

Professor, Director of the Lab. of Spinal Cord Injury, Stem Cell & Recovery Neurobiology Research and Co-Director of Neurotrauma Recovery Research, Department of Physical Medicine & Rehabilitation, Harvard Medical School

Professor Yang D. Teng earned his Ph.D in Cell Biology/Neuroscience at Georgetown University, Washington D.C., investigating secondary injury mechanisms and therapeutic interventions for spinal cord injury (SCI). For postdoctoral training, he studied respiratory neurobiology, stem cell biology and neurodegeneration at Georgetown University, Boston Children's Hospital and Harvard Medical School, respectively. He is Director of the Laboratory of SCI, Stem Cell & Recovery Neurobiology Research and Co-Director of Neurotrauma Recovery Research, Department of Physical Medicine & Rehabilitation (PM&R), Harvard Medical School. His primary academic interest concerns theoretical frameworks of spinal cord neurobiology. Prof. Teng and his team investigate the recovery neurobiology of injured spinal cords and functional multipotency of stem cells through multimodal approaches that integrate strategies of stem cells, chemical engineering, glial biology, neural oncology, and molecular pharmacology.