

27th June, 2024

IMDix
Polish Academy of Sciences

Polish-American Symposium “Power of stem cells to model embryos and organs”



Organiser, Chair
Prof. Leonora Bużańska
Mossakowski Medical Research
Institute, Polish Academy of Sciences



Chair
Prof. Marek Krawczyk
Dean of the Medical Division,
Polish Academy of Sciences



Chair
Prof. Maria Anna Ciemerych-Litwinienko
Faculty of Biology,
University of Warsaw



Chair
Prof. Dorota Pijanowska
Nalecz Institute of Biocybernetics
and Biomedical Engineering,
Polish Academy of Sciences

Guest Speakers:



Prof. Magdalena Żernicka-Goetz
California Institute of Technology
(CalTech), Pasadena, CA, USA
University of Cambridge, UK



Prof. Tomasz Nowakowski
University of California
San Francisco (UCSF),
San Francisco, CA, USA



Prof. Anirban Dutta
State University of New York
(SUNY), Buffalo, NY, USA
University of Birmingham, UK



Prof. Michał Stachowiak
State University of New York
(SUNY), Buffalo, NY, USA



Prof. Natalia Rozwadowska
Institute of Human
Genetics, PAS
Poznań, Poland



Prof. Maciej Figiel
Institute of Bioorganic
Chemistry, PAS
Poznań, Poland



Valery Zayat, PhD
Mossakowski Medical
Research Institute, PAS
Warsaw, Poland



Michalina Wężyk, PhD
Mossakowski Medical
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Medical Sciences
Division,
Polish Academy
of Sciences

ORGANIZERS



Advisory Board for Stem Cells
and Cellular Therapies
of Medical Sciences Division, PAS

EVENT VENUE

IBiB PAN
Conference Center
Ks. Trojdena 4 Street,
Warsaw

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AGENDA

11:00 Welcome participants by organizer - Prof. Leonora Bużańska

SESSION I:

Chair - Prof. Marek Krawczyk & Prof. Maria Anna Ciemerych-Litwinienko

11:05 *Introduction to stem cells modeling of embryo and organs*
Prof. Leonora Bużańska

11:20 *Modelling development with stem cells: the power of self-organization*
Prof. Magdalena Żernicka-Goetz

11:50 *Developmental strategies of human neural stem cells and their relevance to psychiatric disorders*
Prof. Tomasz Nowakowski

12:20 *Complex systems analysis of neonatal brain and organoids*
Prof. Anirban Dutta

12:50 – 13:50 Lunch

SESSION II:

Chair - Prof. Leonora Bużańska & Prof. Dorota Pijanowska

13:50 *Systems and organoid approach to model schizophrenia*
Prof. Michał Stachowiak

14:20 *Advanced tissue models derived from human iPSC for human heart modeling*
Prof. Natalia Rozwadowska

14:40 *Modeling neurodevelopmental pathogenesis of Huntington Disease with human iPSC lines and brain organoids*
Prof. Maciej Figiel

15:00 *Generation of iPSC lines and forebrain organoids to model Dravet Syndrom*
Valery Zayat, PhD

15:15 *Modeling of pre-symptomatic synaptic disorders in Alzheimer's disease with cortical organoids*
Michalina Wężyk, PhD

15:30 *Stem Cells as a tool to study myogenic differentiation*
Prof. Maria Anna Ciemerych-Litwinienko

15:50 Closing remarks by organizer - Prof. Leonora Bużańska