

BOMED²¹

EMERGING TECHNOLOGY TOWARD PATHWAY-BASED HUMAN BRAIN RESEARCH

29-30 May 2017 | D'Or Institute for Research and Education, Rio de Janeiro

Program

Monday, 29 May 2017

- 12.00 – 13.30 Welcome lunch
- 13.30 – 13.40 Welcome by **Marcia Triunfol** (HSI Brazil Science Advisor)
- 13.40 – 14.00 Toward a human pathway paradigm in health research
Troy Seidle, HSI Director of Research & Toxicology
- 14.00 – 14.30 Organoids: A historical perspective of thinking in three dimensions
Marina Simian, Instituto de Nanosistemas, Universidad Nacional de San Martín, Argentina
- 14.30 – 15.00 New insights about the biology of zika virus infection using iPSC cells
Stevens Rehen, D'Or Institute for Research and Education and Federal University of Rio de Janeiro, Brazil
- 15.00 – 15.30 Mini-brains to study Dravet disease
Fabio Klamt, Universidade Federal do Rio Grande do Sul, Brazil
- 15.30 – 16.00 Coffee break
- 16.00 – 16.30 A human brain microphysiological system derived from iPSC to study neurological diseases, toxicity and infection diseases
David Pamies, Johns Hopkins University, USA
- 16.30 – 17.00 Modeling autism spectrum disorders with human neurons
Patricia Beltrão-Braga, University of São Paulo, Brazil

Cocktail / Dinner (time and place to be announced)



**HUMANE SOCIETY
INTERNATIONAL**

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Tuesday, 30 May 2017

- 09.00 – 09.30 **Breakfast**
- 09.30 – 10.00 The promises and challenges of human brain organoids as models of neuropsychiatric diseases
Georgia Quadrato, Harvard Stem Cell Institute, USA
- 10.00 – 10.30 Human iPS-derived motor neurons for Amyotrophic Lateral Sclerosis
Gerson Chadi, University of São Paulo, Brazil
- 10.30 – 11.00 Combining neuroproteomics and mini-brains to understand psychiatric disorders
Daniel Martins-de-Souza, University of Campinas, Brazil
- 11.00 – 11.30 **Coffee break**
- 11.30 – 12.00 Understanding Parkinson and Alzheimer diseases using patient neurons derived from induced pluripotent stem cells (iPSC) coupled with analytic biochemical techniques
Joseph R Mazzulli, Northwestern University Feinberg School of Medicine, USA
- 12.00 – 13.30 Roundtable discussion: Toward a strategic science agenda for pathway-based human brain research in Brazil
Facilitators: **Troy Seidle** and **Marcia Triunfol**
- 13.30 – 13.40 Wrap-up
- 13.40 **Close of meeting**
Closing lunch