

Abnormal Excitability as Determinant of Nervous System Disease

February 16, 2017; 8:00 am - 7:00 pm

Free and open to the public. **Entry requires pre-registration** Inquire at: info@brain.harvard.edu or visit brain.harvard.edu

Armenise Amphitheatre

Harvard Medical School 200 Longwood Avenue, Boston, MA

Co-Chairs and Moderators

Bruce Bean, PhD, Robert Winthrop Professor of Neurobiology Harvard Medical School

Kevin Eggan, PhD, Professor, Department of Stem Cell and Regenerative Biology, Harvard University. Clifford Woolf, MD, PhD, Professor of Neurology and Director, FM Kirby Neurobiology Center, Boston Children's Hospital and Harvard Medical School

PRESENTATIONS

Panelists will include leaders from academic and industry labs as well as venture capital firms.

INTRODUCTION:

Abnormal excitability and its impact on disease

Clifford Woolf, MD, PhD, Harvard and Min Li, PhD, GlaxoSmithKline

Neurodevelopmental disorders

Takao Hensch, PhD, Professor, Molecular & Cellular Biology and Neurology

Children's Hospital Boston and Center for Brain Science at Harvard University

Psychiatric disorders

Beth Stevens, PhD, Assistant Professor of Neurology

Harvard Medical School, F.M. Kirby Neurobiology Center at Boston Children's Hospital

Alzheimer's

Doo Yeon Kim, PhD, Assistant Professor of Neurology

Harvard Medical School, Massachusetts General Hospital

Autism & Epilepsy

Mustafa Sahin, MD, PhD, Professor of Neurology

Harvard Medical School, FM Kirby Neurobiology Center, Boston Children's Hospital

ALS

Brian J. Wainger, MD, PhD, Assistant Professor of Neurology and Anesthesiology

Harvard Medical School, Harvard Stem Cell Institute, Massachusetts General Hospital

Striatal circuits

Bernardo Sabatini, PhD, MD, Alice and Rodman W. Moorhead III Professor of Neurobiology, Harvard Medical School

PANEL DISCUSSION

Abnormal excitability: mechanisms; diagnosis; treatment; personalized medicine

Channelopathies and Channels

Sodium

Stephen George Waxman, MD, PhD, Bridget M. Flaherty Professor of Neurology; Director, Center for Neuroscience and Regeneration Research, Yale University

Potassium

Edward C Cooper, MD, PhD, Associate Professor, Neuroscience, Neurology, Molecular & Human Genetics, Baylor College of Medicine

Calcium

Diane Lipscombe, PhD, Professor of Neuroscience and Director, Brown Institute for Brain Science (BIBS), Brown University

PANEL DISCUSSION

Channels as Drug Targets

Excitability Screens - New Technologies

High Content

Kasper Roet, PhD, Fellow, Woolf Lab, FM Kirby Neurobiology Center, Boston Children's Hospital

Optical Readouts

Adam Cohen, PhD, Professor of Chemistry and Chemistry Biology and of Physics, Harvard University

PANEL DISCUSSION

Abnormal Excitability – Translational Opportunities



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