

Coordinating Global Brain Projects

Monday, September 19, 2016

The goal of this meeting is to promote collaboration and cooperation in the emerging large-scale international brain projects, as part of NSF support for the U.S. BRAIN Initiative. The speakers are scientists and administrators who represent public and private projects around the world.

Sponsors

National Science Foundation, The Kavli Foundation, Neurotechnology Center at Columbia University, The Rockefeller University, and Columbia University

Organizers

Cori Bargmann, Ph.D.

Torsten N. Wiesel Professor, Lulu and Anthony Wang
Laboratory of Neural Circuits and Behaviour
Director, Kavli Neural Systems Institute
The Rockefeller University

Rafael Yuste, M.D., Ph.D.

Professor of Biological Sciences and Neuroscience
Director, NeuroTechnology Center
Co-director, Kavli Institute of Brain Science
Columbia University

Agenda

8:00 – 8:30 a.m.

(30 minutes)

Registration and Continental Breakfast

8:30 – 8:35 a.m.

(5 minutes)

Welcome Remarks

Cori Bargmann and Rafael Yuste

8:35 – 8:50 a.m.

(15 minutes)

Introduction and Goals

France A. Córdova, Ph.D.

Director

National Science Foundation

Robert W. Conn, Ph.D.

President and Chief Executive Officer

The Kavli Foundation

Thomas A. Kalil

Deputy Director for Technology and Innovation

White House Office of Science and Technology Policy

8:50 – 9:10 a.m.

(20 minutes)

Keynote Address

LIGO as a Success of Large-scale Science

David H. Shoemaker, Ph.D.

Director, MIT LIGO Laboratory

Massachusetts Institute of Technology

9:10 – 11:30 a.m.

(7 minutes/speaker plus

15 minute break)

International Brain Projects

James L. Olds, Ph.D.

Assistant Director, Directorate for Biological Sciences

National Science Foundation

Walter J. Koroshetz, M.D.

Director, National Institute of Neurological Disorders and Stroke

National Institutes of Health

R. Jacob Vogelstein, Ph.D.

Program Manager, Knowledge Representation in Neural Systems and
Machine Intelligence from Cortical Networks

The Intelligence Advanced Research Projects Activity

Karim Berkouk, Ph.D.
Deputy Head, DG Research & Innovation
European Commission

Christoph Ebell
Executive Director
Human Brain Project

Katrin Amunts, Ph.D.
Scientific Director, Human Brain Project
Professor, C. and O. Vogt Institute for Brain Research
Heinrich Heine Universität Düsseldorf

Minh-hà Pham, Ph.D.
Counselor for Science and Technology
Embassy of France in the United States

Benedikt Grothe, Ph.D.
Professor and Chair, Division of Neurobiology
Ludwig-Maximilians-Universität München

Kathryn Adcock, Ph.D.
Head of Neurosciences and Mental Health
Medical Research Council UK

Ofir Akunis
Israeli Minister of Science, Technology, and Space

Break

Yutaka Hishiyama
Deputy Director
Japan Agency for Medical Research and Development

Shigeo Okabe, M.D., Ph.D.
Professor and Chair, Department of Cellular Neurobiology
The University of Tokyo

Kyungjin Kim, Ph.D.
President
Korea Brain Research Institute

Mu-ming Poo, Ph.D.
Director, Institute of Neuroscience
Chinese Academy of Sciences

Anthony G. Phillips, Ph.D.
Scientific Director, Institute of Neurosciences, Mental Health and Addiction
Canadian Institutes of Health Research

Anthony Murfett
Minister Counselor for Industry, Science and Education
Australian Embassy in the United States

Linda J. Richards, Ph.D.
Professor and Deputy Director, Queensland Brain Institute
The University of Queensland

11:30 a.m. – 12:30 p.m.
(5 minutes/speaker)

Non-Government Partner Brain Projects

Hongkui Zeng, Ph.D.
Executive Director, Structured Science
Allen Institute for Brain Science

Gerald D. Fischbach, M.D.
Chief Scientist and Fellow
Simons Foundation

Karel Svoboda, Ph.D.
Group Leader
Howard Hughes Medical Institute

Miyong Chun, Ph.D.
Executive Vice President of Science Programs
The Kavli Foundation

Anne-Marie Engel, Ph.D.
Director of Research
Lundbeck Foundation

Inez Jabalpurwala, M.B.A.
President and CEO
Brain Canada Foundation

Jeffrey Borenstein, M.D.
President and Chief Executive Officer
Brain Behavior Research Foundation

Viren Jain, Ph.D.
Senior Research Scientist
Google

Kunal Ghosh, Ph.D.
Founder and Chief Executive Officer
Inscopix

12:30 – 1:30 p.m.
(60 minutes)

Lunch

1:30 – 3:30 p.m.
(15 minutes/speaker)

Frontiers in Neuroscience and Neurotechnology

Cell Types:

Evan Macosko, M.D., Ph.D.
Instructor, Harvard Medical School
Stanley Center for Psychiatric Research

Structure:

Tomomi Shimogori, Ph.D.
Team Leader, Laboratory of Molecular Mechanisms of Thalamus Development
RIKEN Brain Science Institute

Animal Imaging:

Raju Tomer, Ph.D.
Assistant Professor, Department of Biological Sciences
Columbia University

Behavior:

Kristin Branson, Ph.D.
Group Leader
Janelia Research Campus

Human Imaging:

Karla Miller, Ph.D.
Professor of Biomedical Engineering, Nuffield Department of Clinical
Neuroscience
University of Oxford

Computation:

Surya Ganguli, Ph.D.
Associate Professor, Laboratory of Neural Dynamics and Computation,
Department of Applied Physics
Stanford University

Translation:

Beth Stevens, Ph.D.
Assistant Professor of Neurology
Harvard University

3:30 – 4:00 p.m.
(30 minutes)

Break

4:00 – 4:10 p.m.
(10 minutes)

Johns Hopkins University/Kavli White Paper

Joshua T. Vogelstein, Ph.D.
Department of Biomedical Engineering and the Institute for Computational
Medicine
Johns Hopkins University

4:10 – 4:40 p.m.
(6 minutes/speaker)

Joint Initiatives

Peter B. Littlewood, Ph.D.
Director
Argonne National Laboratory

Michael Roukes, Ph.D.
Robert M. Abbey Professor of Physics, Applied Physics, and Biological
Engineering
California Institute of Technology

Martha J. Farah, Ph.D.
Professor and Director, Center for Neuroscience and Society
University of Pennsylvania

Miguel Nicolelis, M.D., Ph.D.
Professor, Neurobiology, Biomedical Engineering, Psychology, and
Neuroscience
Duke University Medical Center

Andrea Chiba, Ph.D.
Associate Professor, Department of Cognitive Neuroscience
University of California, San Diego

4:40 – 5:00 p.m.
(20 minutes)

Wrap Up and Synthesis

Terrence Sejnowski, Ph.D.
Professor and Head, Laboratory of Computational Neurobiology
Francis Crick Chair
Salk Institute for Biomedical Studies

Sten Grillner, M.D., Ph.D.
Professor, Department of Neuroscience
Karolinska Institutet

5:00 – 5:45 p.m.
(45 minutes)

Establishment of a Global Brain Initiative

Moderated by Cori Bargmann and Rafael Yuste

6:00 – 7:00 p.m.
(2 x 30 minute sessions)

**Live Broadcast from the United Nations Headquarters:
Dialogue on Brain Science and Launch of an International Brain
Station**

Hosted by the U.S. Department of State in collaboration with The Global
Partnerships Forum, The Kavli Foundation, and the U.S. National Science
Foundation

6:00 – 7:30 p.m.

Reception

Sponsored by The Kavli Foundation
Open to all attendees

7:30 – 9:30 p.m.

Dinner

For invited guests only

William Newsome, Ph.D.
Professor of Neurobiology and Vincent V.C. Wood Director of the Stanford
Neurosciences Institute
Stanford University

Tobias Bonhoeffer, Ph.D.
Director
Max Planck Institute of Neurobiology, Martinsried

Host Venue

Caspary Auditorium
The Rockefeller University
1230 York Avenue at East 66th Street
New York City
www.rockefeller.edu/globalbrain