



Neuroscience Training: Developing a Nimble and Versatile Workforce—
A Virtual Workshop Series

Topic #5: Evolving the Culture of Science and Training in Neuroscience to Meet a Changing World

February 22, 2021
Virtual via Webcast

About this Workshop

Recent events, including the COVID-19 pandemic, have underscored the importance of science and of scientific training, but also the challenges and needed cultural shifts. This virtual workshop—the fifth and final in a series—will bring together the themes discussed in preceding workshops and consider how the culture of science and scientific training can become more inclusive, balanced, and adaptive to changing times. Topics to be discussed include redefining the metrics of success in science; the need for training that supports collaboration, interdisciplinary research, and team science; training for varied career paths; models of training and career structures that allow for commitments in one's personal life and that support mental health and well-being.

About the Workshop Series on Neuroscience Training

Cutting-edge neuroscience research increasingly demands extensive technological, computational, and statistical skills, and involves large collaborations. Trainees are pursuing a broad range of careers in academia, private sector industries—which has evolved beyond pharmaceutical and biotech companies, to include engineering, data science, venture capital firms, and finance—policy, publishing, and non-profit organizations. Moreover, traditional boundaries between sectors are becoming less rigid, with more extensive partnerships among the private sector and academia and more academics helping to found biotech companies. Taken together, these factors raise important questions about how to design training programs that foster innovation across a dynamic ecosystem and ensure that a diverse next generation of neuroscientists has the knowledge, skillset, and support needed to pursue multiple career paths devoted to advancing biomedical science.

The [Action Collaborative on Neuroscience Training: Developing a Nimble and Versatile Workforce](#), an initiative associated with the National Academies' [Forum on Neuroscience and Nervous System Disorders](#), brings together a wide range of stakeholders, representing different sectors and career stages, to examine current and future workforce needs within and outside of academia and explore how these should inform neuroscience training programs.

The action collaborative's virtual workshop series aims to illuminate critical issues and provide a venue for sharing ways to move forward. Workshops in this series have addressed topics such as:

- [Racial justice, diversity, equity, and inclusion in neuroscience training](#) (August 20, 2020);
- [Neuroscience training in challenging times](#) (January 19, 2021);
- [Fostering inclusion, equity, and diversity in neuroscience training](#) (January 25, 2021);
- [Re-envisioning postdoctoral training in neuroscience](#) (February 16, 2021); and
- [Evolving the culture of science and training in neuroscience to meet a changing world](#) (February 22, 2021).

February 22, 2021

12:00pm Welcome and Workshop Overview
M. MORGAN TAYLOR, The Broad Institute of MIT and Harvard

Panel I: Personal Perspectives – A Conversation

12:05pm Session overview
M. MORGAN TAYLOR, The Broad Institute of MIT and Harvard

12:15pm Panelists
KAFUI DZIRASA, Duke School of Medicine
SHARON MILGRAM, National Institutes of Health
ANNE URAI, Leiden University
ALIK WIDGE, University of Minnesota

12:55pm BREAK

Panel II: Institutional Perspectives on Potential Changes Needed in Neuroscience Training

1:00pm Session overview
JOHN KRYSTAL, Yale School of Medicine

1:10pm Panelists
AMY BERNARD, The Allen Institute
EMERY BROWN, MIT; Harvard Medical School; Massachusetts General Hospital
K. RANGA RAMA KRISHNAN, Rush University
ANDREW WELCHMAN, Wellcome Trust; University of Cambridge

1:55pm Final remarks
JOHN KRYSTAL, Yale School of Medicine

2:00pm Adjourn Workshop

Continue the conversation and join the workshop participants and members of the action collaborative on *Neuroscience Training: Developing a Nimble and Versatile Workforce* in an online chat discussion immediately following the workshop on Slack. Additional information available upon registration.

Action Collaborative Members

Rita Balice-Gordon (Co-Chair), Muna Therapeutics
Katja Brose (Co-Chair), The Chan Zuckerberg Initiative
Rosalind Segal (Co-Chair), Harvard University
Huda Akil, University of Michigan
David Cox, IBM Research AI
Sara Fenstermacher, New York University
Ayana Jordan, Yale School of Medicine
Stephen Korn, National Institute of Neurological Disorders and Stroke
Walter Koroshetz, National Institute of Neurological Disorders and Stroke
John Krystal, Yale School of Medicine
Alan Leshner, American Association for the Advancement of Science (CEO Emeritus)
Peter MacLeish, Morehouse School of Medicine
Carol Mason, Columbia University
Gentry Patrick, University of California, San Diego
Todd Sherer, The Michael J. Fox Foundation for Parkinson's Research
Kaela S. Singleton, Emory University
M. Morgan Taylor, The Broad Institute
Ashlee Van't Veer, National Institute of Mental Health
Cristin Welle, University of Colorado, Denver
Andrew Welchman, Wellcome Trust