



## *Scientific Symposium*

**September 11, 2021**

*Hosted by:*



*Sponsored by Shear Family Foundation*

### **Moderator**

**Eric Nestler, MD, PhD**

Director of the Friedman Brain Institute, Mt. Sinai,  
Co-Chair One Mind Scientific Advisory Board

### **Opening Remarks**

**Francis S. Collins, MD, PhD**

Director of the National Institutes  
of Health (NIH)

### **Speakers**

**Deanna Barch, PhD**

Chair of the Department of Psychological &  
Brain Sciences at Washington University  
Editor-in-Chief of Biological Psychiatry

**Indre Viskontas, MM, PhD**

Associate Professor in Psychology at  
the University of San Francisco  
Opera Stage Director

**Renato Polimanti, PhD, MSc**

2021 One Mind Rising Star  
Awardee, Yale University  
School of Medicine

**Yevgenia Kozorovitskiy, PhD**

2021 One Mind Rising Star Awardee,  
Northwestern University

**Devanand Manoli, MD, PhD**

2021 One Mind Rising Star Awardee,  
University of California San Francisco

**Sarah Stern, PhD**

2021 One Mind Rising Star Awardee, Max  
Planck Florida Institute for Neuroscience

This year's free Scientific Symposium will be moderated by Eric Nestler, MD, PhD, of Mt Sinai, and feature opening remarks by Francis S. Collins, MD, PhD, Director, National Institutes of Health, a keynote presentation by Deanna Barch, PhD, Chair of the Department of Psychological & Brain Sciences at Washington University, a featured presentation by Indre Viskontas, MM, PhD, Associate Professor in Psychology at the University of San Francisco, and research presentations by One Mind's four 2021 Rising Star Award winners. Your participation in the Scientific Symposium is encouraged. Through the ZOOM interface, you will be able to pose questions during the discussion for our guests to answer during the allotted Q&A segments of the program.

In these times of increased mental health adversity amplified by the pandemic, we ask that you join us to raise funds for One Mind and the critical brain health initiatives we lead, all of which are dedicated to helping people live their best, most fulfilling lives.

**To donate, text BRAINHEALTH to 44-321.**

## Event Schedule

All times are Pacific Time

**12:00** | Welcome and Introductions - Brandon Staglin and Eric Nestler, MD, PhD

**12:10** | Opening Remarks - Francis S. Collins, MD, PhD, Director, National Institutes of Health

**12:15** | Keynote Presentation and Q&A - Deanna Barch, PhD

**12:40** | 2021 One Mind Rising Star Awards Introduction - Brandon Staglin

**12:45** | Research Presentation and Q&A - Devanand Manoli, PhD

**1:00** | Research Presentation and Q&A - Sarah Stern, PhD

**1:10** | Research Presentation and Q&A - Yevgenia Kozorovitskiy, PhD

**1:25** | Research Presentation and Q&A - Renato Polimanti, PhD

**1:40** | Featured Presentation and Q&A - Indre Viskontas, MM, PhD

**2:00** | Closing Comments & Adjourn - Brandon Staglin



**Host**

*Brandon Staglin, MS,  
President, One Mind*

# 2021 Scientific Symposium Speakers



## Moderator

**Eric J. Nestler, MD, PhD**

Nash Family Professor of Neuroscience, Director, the Friedman Brain Institute, and Dean for Academic and Scientific Affairs, the Icahn School of Medicine at Mount Sinai. Dr. Nestler received his BA, PhD, and MD degrees, and psychiatry residency training, from Yale University. He served on the Yale faculty from 1987-2000, where he was the Elizabeth Mears and House Jameson Professor of Psychiatry and Neurobiology, and Director of the Division of Molecular Psychiatry. He moved to Dallas in 2000 where he served as the Lou and Ellen McGinley Distinguished Professor and Chair of the Department of Psychiatry at The University of Texas Southwestern Medical Center until moving to New York in 2008. Dr. Nestler is a member of the National Academy of Medicine, a Fellow of the American Academy of Arts and Sciences, and a Past President of the Society for Neuroscience. The goal of Dr. Nestler's research is to better understand the molecular mechanisms of addiction and depression based on work in animal models, and to use this information to develop improved treatments of these disorders.



## Opening Remarks

**Francis S. Collins, MD, PhD**

Director, National Institute of Health

Dr. Collins was appointed the 16th Director of the National Institutes of Health (NIH) by President Barack Obama and confirmed by the Senate. He was sworn in on August 17, 2009. Dr. Collins is the only Presidential appointee NIH Director to serve more than one administration, retaining his role under both Presidents Trump and Biden. In this role, Dr. Collins oversees the work of the largest supporter of biomedical research in the world, spanning the spectrum from basic to clinical research. Dr. Collins is a physician-geneticist noted for his landmark discoveries of disease genes and his leadership of the international Human Genome Project, which culminated in April 2003 with the completion of a finished sequence of the human DNA instruction book. He served as director of the National Human Genome Research Institute at NIH from 1993-2008. Dr. Collins is an elected member of both the National Academy of Medicine and the National Academy of Sciences. He was awarded the Presidential Medal of Freedom in November 2007 and received the National Medal of Science in 2009.



## Keynote Presentation

**Deanna Barch, PhD**

Keynote Presentation: *The Enduring Relationship of Early Life Poverty to Brain Development and Mental Health.*

Dr. Barch is a clinical scientist whose research focuses on understanding normative patterns, cognitive function and brain connectivity and the mechanisms that give rise to the challenges in behavior and cognition found in illnesses such as schizophrenia and depression, utilizing psychological, neuroimaging and computational approaches. She is Chair of the Department of Psychological & Brain Sciences at Washington University and also the Gregory B. Couch Professor of Psychiatry and a Professor of Radiology. Dr. Barch is Deputy Editor at Biological Psychiatry and Editor-in-Chief of Biological Psychiatry: Global Open Science, the President of the Psychology Section of the American Association for the Advancement of Science, and is on the scientific boards of One Mind, the Brain and Behavior Research Foundation, and the Stanley Foundation. Dr. Barch was on the Executive Committee of the Association for Psychological Science and the Scientific Council of the National Institute of Mental Health. She is a Fellow of both the Association for Psychological Science and the American College of Neuropsychopharmacology, a member of the Society for Experimental Psychology, and a member of the National Academy of Medicine and the American Academy of Arts & Sciences.



## Featured Presentation

**Indre Viskontas, MM, PhD**

Featured Presentation: *How Music Can Make You Better*

Dr. Indre Viskontas combines a passion for music with scientific curiosity, and works at the intersection of art and neuroscience. She is an Associate Professor in Psychology at the University of San Francisco and the Director of Communications for the Sound Health Network, as well as a professional opera stage director. She has published more than 50 original papers and chapters related to the neuroscience of memory, music and creativity. Her first book, *How Music Can Make You Better*, was published by Chronicle Books in 2019. She hosts two podcasts, including Cadence: What Music Tells Us About the Mind, and the forthcoming Audible Original podcast Radiant Minds: the World of Oliver Sacks. She is Creative Director of Pasadena Opera, where she directs contemporary operas in intimate settings, in addition to her freelance opera directing work. The Great Courses have released three of her 24-lecture series courses, and a fourth will be released in 2022 on The Creative Brain. She has made several national television and radio appearances, including co-hosting a docuseries on the Oprah Winfrey Network and a second one on Newsy. In 2020, she published a white paper with the San Francisco Conservatory of Music and the Getty foundation making the case for music education in child development called Music for Every Child.



# The One Mind Rising Star Awards

The One Mind Rising Star Awards identify and fund pivotal, innovative research on the causes of and cures for brain disorders by supporting the most promising emerging leaders in the field of neuropsychiatry. Each Rising Star Research Award winner will receive \$300,000 from One Mind over a three year-period to fund research for their studies, catalyzing innovations not yet supported by the federal government while encouraging collaboration and data sharing. One Mind will also provide each awardee with expanded opportunities to advance their science and leadership.



## 2021 One Mind Janssen Translational Rising Star Award in Memory of Jeffrey S. Nye, MD, PhD | 2021 Inscopix Grant Supplement Winner

**Devanand Manoli, MD, PhD**, Assistant Professor of Psychiatry, University of California, San Francisco

**Project Title:** Sensory and Neural Mechanisms Underlying Social Attachment

**Rising Star Award Research Summary:**

Differences in social attachment behaviors are a hallmark of autism spectrum disorders, schizophrenia, and some mood and personality disorders. To better understand the brain mechanisms and genetic factors underlying social attachment, Dr. Manoli uses prairie voles (a monogamous rodent species) to identify systems and behaviors required for the development of a “pair bond,” or an enduring male-female partnership. Dr. Manoli aims to demonstrate the importance of social communication, show how sensory pathways may be modulated to facilitate attachment, and inform interventions to improve social behaviors.



## 2021 One Mind Donna Friedman Rising Star Eating Disorders Research Award

**Sarah Stern, PhD**, Research Group Leader, Max Planck Florida Institute for Neuroscience

**Project Title:** Insular Cortex Circuits Underlying Maladaptive Feeding Behaviors

**Rising Star Award Research Summary:**

Eating disorders involve learned behaviors, with symptoms exacerbated by associative cues. Dr. Stern hypothesizes that a specific brain circuit (connecting the insular cortex and the central amygdala) controls feeding based on learned information. This circuit may contribute to the development of maladaptive feeding behaviors, including those relevant for eating disorders. Using chemogenetics, transcriptomics, and *in vivo* calcium imaging techniques, Dr. Stern will investigate this brain circuit and test the hypothesis with behavioral tasks that measure anorexia-like behaviors in mice.



## 2021 One Mind Nick LeDuit Rising Star Research Award

**Yevgenia Kozorovitskiy, PhD**, Soretta and Henry Shapiro Research Professor of Molecular Biology, Associate Professor of Neurobiology at Northwestern University

**Project Title:** Neuroplasticity Mechanisms of Resilience

**Rising Star Award Research Summary:**

Prolonged stress can alter brain activity and signaling, leading to structural changes and detrimental health effects. Dr. Kozorovitskiy believes that dopamine signaling is a key biomarker for predicting individuals who heal after trauma (resilient) versus those that don't (susceptible). Using a combination of optical and electrophysiological tools, she plans to interrogate the role of dopamine in structural plasticity changes following stress and trauma, and how exposure to rapidly acting antidepressant drugs, like ketamine, may help recover these changes back to baseline.



## 2021 One Mind Rising Star Computational Psychiatry Research Award

**Renato Polimanti, PhD**, Assistant Professor of Psychiatry, Yale University School of Medicine

**Project Title:** Integrating Trait-Specific Design and Multi-omics Information to Increase the Portability of Polygenic Risk Scoring Across Internalizing Disorders

**Rising Star Award Research Summary:**

Internalizing disorders have major impacts on individuals, families, and society. Identifying individuals at risk can permit healthcare professionals to implement preventive strategies and early interventions leading to better outcomes. Genetic information could be a powerful predictive instrument, but the complexity of internalizing symptoms is limiting the translation of genetic risk factors into tools clinically useful. Dr. Polimanti will investigate the integration of multiple strategies to translate the aggregate genetic risk associated with internalizing disorders into reliable instruments for disease-risk stratification.

Learn More at [onemind.org/rising-star-awards](http://onemind.org/rising-star-awards)

# 2021 Fund-a-Need Opportunity

In acknowledging the incredible toll that the pandemic has placed on everyone's mental health and wellbeing, as well as the future waves being predicted with more broadened impact, we are asking for your donation to support One Mind and the critical brain health initiatives we lead across the Science, Services and Society domains, all of which are dedicated to helping people live their best, most fulfilling lives.

**To help, please donate [here](#), or by texting BRAINHEALTH to 44-321 to give directly on our 27th Music Festival fund-a-need page.**

## SCIENCE

One Mind funds and supports cutting-edge scientific research to accelerate breakthroughs in the diagnosis, prevention, treatment, and ultimately cures for brain illness and injury. Some of our 'Science' initiatives include:

- **AURORA** – A national research initiative focused on trauma and post-traumatic stress.
- **Rising Star Awards** – Annual grant program funding the most promising young scientists.
- **TRACK-TBI - Confirming FDA** – approved biomarkers for traumatic brain injuries.

## SERVICES

One Mind supports scalable access to and rapid adoption of new knowledge, best practices and gold-standard treatments by healthcare practitioners and patients. Some of our 'Services' initiatives include:

- **ASPIRe** – Enhancing recovery prospects for youth experiencing serious psychiatric illness.
- **One Mind PsyberGuide** – Helping consumers make informed decisions about digital therapies for brain illnesses.

## SOCIETY

One Mind uses its convening power to catalyze hope for those impacted, raise funds for brain health research, and support initiatives for ending the stigma and discrimination associated with brain illnesses. Some of our 'Society' initiatives include:

- **One Mind at Work** – Developing and driving the gold standard for workplace mental health.
- **One Mind Brain Waves** – Weekly webcast interviews on brain health science and advocacy.
- **One Mind All Media** – Media that shapes culture, educates, and reduces stigma.

**With your help through this Fund-a-Need event, we hope to raise \$1 Million to support One Mind and the critical brain health initiatives we lead.**

**Our loved ones, families, and society deserve the opportunity to grow mentally healthy and emotionally strong. Working together, we will kindle a brighter future for us all.**

**To donate, text BRAINHEALTH to 44-321.**

We thank you for your donations, and encourage you to share this opportunity with your friends, relatives and business contacts. Please ask them to participate and donate prior to 5pm PT on Sunday, September 12th when this Fund-a-Need closes.