

TECH EXPLORATION IN SPACE HEALTH INTERACTIVE SERIES

TRISH's Tech Exploration in Space Health Series is dedicated to exploring new and possibly groundbreaking medical advances, educating those excited about human space exploration, and promoting discussion about progressive and emergent health discoveries that can be used to keep astronauts safe during long-duration space flight. This carefully curated webinar series is designed to foster lively conversation among our virtual community.

TRISH brings renowned experts for an hour-long virtual presentation and interactive Q&A session.

ABOUT TRISH

Funded by NASA through a cooperative agreement, the Translational Research Institute for Space Health (TRISH) funds new health technologies to predict, protect and preserve astronaut health during deep space exploration missions.

Led by BCM's Center for Space Medicine and a consortium that includes California Institute of Technology and Massachusetts Institute of Technology, TRISH funds high risk, high reward, high quality and efficient solutions that can be adapted for use in space.

TRISH operates as a virtual institute utilizing a suite of virtual, remote participation technologies allowing for the community to meet and exchange information regardless of geographical distribution.

CONTACT

www.bcm.edu/spacehealth



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[BCM Translational Research
Institute for Space Health](http://www.bcm.edu/spacehealth)

TOPIC

Using ultrasound to visualize and control **CELLULAR** function in the body

Recognized as one of the world's top 35 innovators under the age of 35, Dr. Mikhail Shapiro will discuss his research *Biomolecular Engineering of Reporters and Sensors for Noninvasive Imaging of Cellular Function*.

Dr. Shapiro presents how he is "engineering new molecular technologies that connect penetrant energy to specific aspects of cellular function *in vivo*." In this talk, he will describe molecular reporters for non-invasive imaging using MRI and ultrasound at a cellular level. This webinar will describe recent work on the use of penetrant forms of energy to control cellular function within the body.

SAVE THE DATE

Wednesday, April 25, 2018
10:00 to 11:00 AM US PT
12:00 to 1:00 PM US CT
1:00 to 2:00 PM US ET

CONNECT

Join from PC, Mac, Linux, iOS or Android:
<https://bcm.zoom.us/j/752235186>

Or Telephone:
+1 877 369 0926 (US Toll Free)
+1 877 853 5247 (US Toll Free)
Meeting ID: 752 235 186

The interactive webinar is open to the public. The session will be recorded and posted on this site shortly after the live event.

SPEAKER



Mikhail Shapiro, Ph.D.

Dr. Mikhail Shapiro is an Assistant Professor of Chemical Engineering and a Heritage Principal Investigator at the California Institute of Technology. His research is focused on developing molecular technologies to image and control biological function non-invasively in living organisms.

Dr. Shapiro received his PhD in Biological Engineering from the Massachusetts Institute of Technology and a BSc in Neuroscience from Brown. He conducted post-doctoral research in biophysics at the University of Chicago and was a Miller Fellow at the University of California, Berkeley. Dr. Shapiro has been awarded the Hertz, Soros, Miller and Life Science Research Foundation fellowships, the Burroughs Wellcome Career Award at the Scientific Interface, the DARPA Young Faculty Award and the Pew Scholarship in the Biomedical Sciences. The Technology Review has recognized him as one of the world's top 35 innovators under age 35.

More information about the Shapiro Lab can be found at -
shapirolab.caltech.edu