



Bioengineering Department

Spring 2019 Seminars Series

Thursday's, 12:00 pm—1:00 pm

Krasnow, Room 229

February 7, 2019

Juan Cebral, Ph.D.
*Professor, Dept. of Bioengineering
George Mason University*

Title: Patient-Specific Models of Cerebral Aneurysms to Assess Rupture Risk, Understand Mechanisms and Evaluate Devices and Procedures

February 14, 2019

Yun Chen, Ph.D.
*Assistant Professor, Dept. of Mechanical Engineering,
Whiting School of Engineering
Johns Hopkins, Baltimore, MD*

Title: Developing a multi-scale toolbox to study biophysical effects on phenotypes and behaviors of the cells

February 21, 2019

Tyrus Berry, Ph.D.
*Assistant Professor, Dept. of Mathematical
Sciences, George Mason University*

*Title: Overcoming Model Uncertainty:
Integrating machine learning tools into parametric models*

February 28, 2019

Peter Basser, Ph.D.
*Senior Investigator and Head of the Section on
Quantitative Imaging & Tissue Sciences (SQITS),
Associate Scientific Director (ASD), Eunice Kennedy
Shriver National Institute of Child Health and Human
Development (NICHD), NIH, Bethesda, MD*

*Title: Probing tissue microstructure and dynamics
non-invasively with MRI*

March 7, 2019

Martin Guimond, Ph.D.
*Assistant Professor, Dept. of Microbiology,
Infectiology and Immunology Hematology-
Oncology section, Maisonneuve-Rosemont
Hospital, University of Montreal,
Montreal, Quebec, Canada*

*Title: Restoring immunocompetence after allogeneic stem cell
transplantation and graft-versus-host disease*

March 21, 2019

Jeffrey Moran, Ph.D.
*Assistant Professor, Dept. of Mechanical Engineering
George Mason University*

Title: Active Colloids: Basic Physics and Biomedical Applications

March 28, 2019

Michael Kolios, Ph.D.
*Associate Dean of Science, Research and Graduate
Studies and Professor, Department of Physics at
Ryerson University, Ontario, Canada*

*Title: Nanobubbles for ultrasound and photoacoustic
molecular imaging*

April 4, 2019

Samuel Patz, Ph.D.
*Professor of Radiology, Harvard Medical School
Director, Low Field and Pulmonary MRI Laboratories
Brigham and Women's Hospital and Associate
Neuroscientist, Martinos Center for Biomedical
Imaging Massachusetts General Hospital,
Boston, MA*

Title: Imaging Brain Function with Biomechanics

April 11, 2019

Ethan Cohen, Ph.D.
*Division of Biomedical Physics, Office of
Science and Engineering Labs, FDA Center for
Devices and Radiological Health,
White Oak Federal Res Ctr.,
Silver Spring, MD*

*Title: Development of a Microscope for Simultaneous Optical
Coherence Tomography and Confocal Imaging for Use in
Neurotoxicology*

April 18, 2019

David Hamilton, Ph.D.
*Neuroscience Software Engineer
Northrop Grumman, Fairfax, VA*

*Title: Biologically Inspired Engineering Solutions
for Finance and Defense*

April 25, 2019

Samir Mitragotri, Ph.D.
*Hiller Professor of Bioengineering, Hansjorg Wyss
Professor of Biologically Inspired Engineering, John
A. Paulson School of Engineering & Applied
Sciences, Wyss Institute, Harvard University,
Cambridge, MA*

*Title: Understanding and Overcoming Biological
Barriers for Drug Delivery*

May 2, 2019

Kyle Wu, Ph.D.
*Chief Medical Officer (CMO), e-Kare, Inc.
Fairfax, VA*

*Title: From Bench to the Bed-Side: turning a research
project into a product*

May 9, 2019

Joshua Plotkin, Ph.D.
*Assistant Professor, Department of Neurobiology and Behavior,
Stony Brook University School of Medicine,
Stony Brook, NY*

Title: Dendritic synaptic integration in striatal spiny projection neurons and compulsive behaviors