



Bioengineering Department

Fall 2019 Semester—Seminars Series

Thursday's, 12:00 pm—1:00 pm

Exploratory Hall, Room L111

(Videoconferencing to SciTech, K. Johnson Hall Room 254)

*****Except on Sept. 19, 2019 Videoconferencing to SciTech, Colgan Hall Room 221*****

September 5, 2019

Eli Zunder, Ph.D.

Assistant Professor, Department of Biomedical Engineering, School of Engineering and Applied Science, University of Virginia, Charlottesville, VA

Title: *Tracking embryonic and postnatal development of the mammalian nervous system at the single-cell level*

September 12, 2019

Sridevi V. Sarma, Ph.D.

Associate Professor of Biomedical Engineering & Associate Director, Institute for Computational Medicine, PI of Neuromedical Control Systems Group, Johns Hopkins University, Baltimore, MD

Title: *Risk-taking bias in human decision-making is encoded via a right-left brain push-pull system*

September 19, 2019

George McConnell, Ph.D.

Assistant Professor, Department of Biomedical Engineering, Stevens Institute of Technology Hoboken, NJ

Title: *Reliably Targeting Deep Brain Stimulation Sweet Spots to Treat Gait Dysfunction in Parkinson's Disease*

September 26, 2019

Darwin R. Reyes, Ph.D.

Leader, BioMEMS Project, Biomedical Microtechnologies Group, Microsystems and Nanotechnology Division, Physical Measurement Laboratory, National Institute of Standards and Technology (NIST) Gaithersburg, MD

Title: *Integrating Electronic Manipulation and Measurement Tools for Co-cultures/ Organ-on-a-Chip Systems*

October 3, 2019

Ranu Jung, Ph.D.

Professor and Chair, Department of Biomedical Engineering, Wallace H. Coulter Eminent Scholars Chair in Biomedical Engineering, Florida International University Miami, FL

Title: *Bioelectronics for Restoration of Impaired Autonomic or Somatosensory Functions*

October 10, 2019

Karun Sharma, Ph.D.

Director, International Radiology, Principal Investigator Bioengineering Initiative, SZI, Children's National Medical Center & Associate Professor of Radiology and Pediatrics, George Washington University, School of Medicine Washington, DC

Title: *Clinical Application of MR-HIFU in Pediatrics*

October 24, 2019

Sharon Xiaolei Huang, Ph.D.

Associate Professor, College of Information Sciences and Technology, Huck Institutes of the Life Sciences, Penn State University, University Park, PA

Title: *Learning Biomarkers from Biomedical Image Data*

October 31, 2019

Tyrone M. Porter, Ph.D.

Associate Professor, Departments of Mechanical Engineering & Biomedical Engineering, College of Engineering, Boston University Boston, MA

Title: *Biomedical applications for ultrasound-triggered exploding nanodroplets*

November 7, 2019

Jeremy Rotty, Ph.D.

Assistant Professor, Department of Biochemistry & Molecular Biology, Uniformed Services University of the Health Sciences, Bethesda, MD

Title: *Macrophage ECM sensing: A 'touching' story starring Arp 2/3*

November 14, 2019

Daniel H. Turnbull, Ph.D.

Professor, Skirball Institute of Biomolecular Medicine, New York University School of Medicine, New York, NY

Title: *Imaging the developing mouse brain: Morphology to molecules*

December 5, 2019

Ramanathan (Ram) Kadirvel, Ph.D.

Professor, Department of Radiology, Mayo Clinic Rochester, MN

Title: *Tissue Responses to Endovascular Aneurysm Implants*