



# Bioengineering Department

## Fall 2020 Semester—Seminars Series

Thursdays, 12:00 pm—1:00 pm  
Virtual Seminar Via Zoom

**September 10, 2020**  
**Houssein Abdul Sater, M.D.**

*Assistant Research Physician, Genitourinary Malignancies Branch, National Cancer Institute, Center for Cancer Research, Bethesda, MD*

*Title: Multiplex IF (MxIF), and Introduction and a Utility Discussion from a Bioengineering Perspective*

**September 17, 2020**  
**Konrad Kording, Ph.D.**

*Professor, Department of Neuroscience and Bioengineering University of Pennsylvania Philadelphia, PA*

*Title: Computational Morphologies*

**September 24, 2020**  
**Ambika Bajpayee, Ph.D.**

*Assistant Professor, Department of Bioengineering and Head of the Molecular Bioelectrostatics and Drug Delivery Lab Northeastern University Boston, MA*

*Title: Bioelectricity in Nanomedicine; Drug Delivery and Imaging Using charged Biomaterials*

**October 1, 2020**  
**S Abbas Shobeiri, MD & Jonia Alshiek, MD**

*Dr. Shobeiri: Vice Chair, Department of Obstetrics and Gynecology, Inova Fairfax Hospital; Professor; Director, NAFC and Inova GMU UPFIT team*

*Dr. Alshiek: Alternate Assistant Professor, Biomedical Engineering at GMU; Senior Research Scholar, Inova Department of OB/GYN; Lecturer, Technion Faculty of Medicine, Israel*

*Title: Pelvic Floor Injury and Childbirth*

**October 8, 2020**  
**Haichong “Kai” Zhang, Ph.D.**

*Assistant Professor, Biomedical Engineering and Robotics Engineering, Founder of Medical FUSION Laboratory, Worcester Polytechnic Institute, Worcester, MA*

*Title: Listening to the Sound of Light with A Robot: Molecular Photoacoustic Imaging and Robotic Instrumentation*

**October 15, 2020**  
**Conrad Russel Cruz, Ph.D.**

*Assistant Professor, Children’s National Medical Center and George Washington University, Washington, DC*

*Title: Cell Therapies for HIV and Cancer*

**October 22, 2020**  
**Mariaelena Pierobon, M.D.**

*Associate Professor, School of System Biology and Center for Applied Proteomics and Molecular Medicine, George Mason University, Fairfax, VA*

*Title: Advancing Precision Medicine Using “Omics” - Based Approaches*

**October 29, 2020**  
**Lampouguin Yenkoidiok Douti, Ph.D.**

*Scientist, GlaxoSmith Kline, Slaoui Center for Vaccine Research, Rockville, MD*

*Title: Development and Optimization of a P47-based Plasmodium Vaccine to Block Malaria Transmission*

**November 5, 2020**  
**Allan Doctor, M.D.**

*Professor of Pediatrics, University of Maryland School of Medicine, College Park, MD*

*Title: ErythroMer (EM), a Nanoscale Bio-Synthetic Artificial Red Cell: Bio-mimetic Design, Proof of Concept and In Vivo Efficacy Results*

**November 12, 2020**  
**Glen Henshaw, Ph.D.**

*Naval Research Lab’s Senior Space Roboticist, Chief Roboticist, DARPA’s Robotic Servicing of Geosynchronous Satellites (RSGS) Program, Arlington, VA*

*Title: Robotic motor learning and the curse of dimensionality*

**November 19, 2020**  
**Fei Wen, Ph.D.**

*Associate Professor of Chemical Engineering, Associate Chair for Undergraduate Education in Chemical Engineering University of Michigan, Ann Arbor, MI*

*Title: Engineering Protein Assemblies for Immune Modulation*

**December 3, 2020**  
**Inbal Israely, Ph.D.**

*Assistant Professor of Pathology and Cell Biology Columbia University New York, NY*

*Title: Activity Driven Spine Structural Dynamics*