2022 BMEP 6600 Seminar Series

DATE	PRESENTER	SEMINAR TITLE
1/21/2022	Mary Tilton, Ph.D. Xifeng Liu, Ph.D.	Biomechanics of simulated metastatic and augmented spine segments Click Chemistry Biomaterials for Bone Tissue Engineering
2/4/2022	Tory Marks Jonathan Trevathan	Power-in-Band Optimization for Embedded Seizure Detection Initial Evaluation of a Transverse Isotropic Finite Difference Model for Training Learned Inversion
2/25/2022	Dr. Celeste Nelson, Princeton University	Mechanical forces and lung development
3/18/2022	Meng Yin, Ph.D.	Liver magnetic resonance elastography (MRE)
3/25/2022	Hakan Ceylan, Ph.D.	Miniaturized Untethered Robots for Minimally Invasive Targeted Therapies
4/1/2022	Christopher Schwarz, Ph.D.	Face Recognition and De-Identification in Research Brain Images
4/8/2022	Elizabeth Redente, Ph.D., National Jewish Health	Reducing Fibroblast Persistence in Pulmonary Fibrosis as a Mechanism of Resolution
4/22/2022	Art Beyder, MD, Ph.D.	Mechanisms of tactile sensing by the gut
5/6/2022	Markus Delling, Ph.D., UCSF	Novel insights into polycystin channel regulation
5/13/2022	Marcello Laurenti Arnaldo Mercado-Perez	The Interaction of Glucoregulatory hormones in prediabetes Force transmission in epithelial mechanoreceptors
5/20/2022	Medha M. Pathak, Ph.D., University of California, Irvine	Watching Cellular Mechanotransduction: Piezo1 Activation by Cellular Traction Forces
6/3/2022	Kristin Zhao, Ph.D. and Leigh Griffiths, Ph.D., MRCVS Xu Zhang, Ph.D.	Biomedical Engineering and Physiology Program Introduction Evidence for cellular senescence in skeletal muscle aging
6/10/2022	Lydia Bardwell Nolan Meyer	Evaluation of compact MRI scanners for subjects with implanted devices Model-based image reconstruction for dual-encoded echo planar magnetic resonance imaging
6/17/2022	Shahriar Faghani, M.D. Mana Moassefi, M.D.	Deep learning model for the histological diagnosis of dysplasia in Barrett's esophagus A Deep Learning Model for Discriminating True Progression from Pseudoprogression in Glioblastoma Patients
6/24/2022	Kuan Zhang, Ph.D. Jaidip Jagtap, Ph.D.	Multiscale Modeling and Machine Learning in Nano-Engineering and Medical Imaging AI Artificial Intelligence for Automated Measurement of Kidney Volume from Ultrasound Images of Patients Affected by PKD and Comparison with MR Measurement
7/8/2022	Patrick Link, Ph.D.	In vivo and ex vivo imaging of NAD(P)H changes in lung fibrosis
7/15/2022	Sydney Hillan Hannah Serlin, Ph.D.	Effect of high frequency stimulation of the subthalamic nucleus on anxiety-like behaviors in a Parkinsonian animal model Mechano-sensing cells and molecules in the gut
7/22/2022	Satish Sen, Ph.D. Harvey Huang, M.D., Ph.D.	Glucocorticoid Signaling Regulates Pancreatic Islet Circadian Transcriptome and Insulin Secretion Temporal Patterns in Intracranial EEG from Electrical Stimulation
9/9/2022	Distinguished Findling Lecturer: Anthony Atala, M.D., Wake Forest School of Medicine	Regenerative Medicine: Current Concepts & Changing Trends
9/23/2022	Itzhak Zachi Attia, Ph.D.	No Title
9/30/2022	Quinn Peterson, Ph.D.	Cell Therapy in Diabetes Mellitus
10/7/2022	Pouria Rouzrokh and Bardia Khosravi	Introduction to Generative Adversarial Networks in Medical Imaging
10/14/2022	Kirsteen Browning, Ph.D.	Central control of gastrointestinal functions: where do we go from here?
10/21/2022	Chris Deufel, Ph.D.	No title
10/28/2022	Mukesh K Pandey, Ph.D.	Design and Development of Novel Theranostics: Preclinical to Clinical Translation
11/4/2022	Arthur Beyder, M.D., Ph.D.	May the force be with you – the gut's perspective
11/11/2022	Daniel Saris, M.D., Ph.D.	Recycling tissue for joint preservation
11/18/2022	Kai Thomenius, Ph.D., Massachusetts General Hospital	Ultrasound Research: Translation from Academia to Industrial Partners
12/2/2022	Gloria Kim, Ph.D.	Engineering Immune Cells for Cancer Therapy
12/9/2022	Kristen Smith-Edwards, Ph.D.	Neural Control of Colon Function
12/16/2022	Claudia Loebel, M.D., Ph.D., University of Michigan	Engineering the Cell-Matrix Interface – Understanding and Guiding Cell Function