2020 BMEP 6600 Seminar Series

DATE	PRESENTER	SEMINAR TITLE
1/10/2020	Nathan Huber/Brandon Nelson	Deep learning based noise reduction for computed tomography/X-rays and x-waves: Preclinical application of the wave-particle duality
1/31/2020	Dakota Jones/Alyssa Brown	Mechanosignaling regulates lung fibroblast biology through ZNF416 / Aging and Mitochondrial Dysfuntion in Motor Neurons: Slow and Steady Wins the Race
2/14/2020	John Bischof	Nanowarming for Regenerative Medicine
2/21/2020	Josh Farr	Skeletal Cellular Senescence in Aging and Type 2 Diabetes
2/28/2020	Tory Marks/Lydia Wheeler	Brain Co-Processors Applications to Epilepsy: The Case for an Automated, Gold Standard Seizure Diary / Attentive Deep Neural Networks for Dense Behavioral Tracking
3/6/2020	Prasanthi Vemuri	Cognitive Aging and Resilience in the Population: An Imaging Perspective
4/3/2020	Sara Aristizabal	From Academia to industry and the science of the indoor environment
4/17/2020	Tracey Weissgerber	Tips and tools for making your manuscript more transparent and reproducible
4/24/2020	Dan Tschumperlin	Dopamine signaling to reverse lung fibrosis
5/1/2020	Asghar Rezaei	Methods of Predicting Vertebral Fractures and Minimally Invasive Treatment
5/22/2020	Alex Revzin	Microsystems for Cultivation and Analysis of Cells
5/29/2020	Zheng Zhang/Rena Hale	Home-grown clinical software for fluoroscopy-based target motion verification during proton beam treatment / A Natural History of Femoroacetabular Impingement: A Geographic Population Based Cohort Study
6/5/2020	Kai Miller	Decoding perception from electrodes in the temporal lobe
6/12/2020	Sidney Hillman/Anders Asp	Pathway Activation Modeling of Neural Networks Activated by Deep Brain Stimulation in Parkinson's Disease Patients Experiencing Transient Non-Motor Symptoms / Deep brain stimulation re-imagined for alcohol use disorder
6/19/2020	Fei Gao/Marcello Laurenti	HIF1A recruits RAD21 to modify Nos1 locus topology and reverse diabetic gastroparesis / Diabetes-associated genetic variation in TCF7L2 alters pulsatile insulin secretion in humans
6/26/2020	Vikram Joshi/John Strikwerda	Mechanosensitive ion channels in gastrointestinal smooth muscle cells / A conserved salt bridge controls channel gating, ion transport, and their coupling in pentameric ligand-gated ion channels
7/10/2020	Hsiao-Chuan Liu/Kylee Schaffer	Optical Coherence Tomography (OCT) and Its Advanced Applications in Tissue Mechanics / Biomechanics of the Upper Extremity during Wheelchair Basketball Propulsion
7/17/2020	Yujiro Hayashi/Erica Bell	Gastric pacemaker stem cell aging / Relationship between Intrinsic Foot Stiffness and Plantar Pressures in Clinical Populations
7/24/2020	Joseph Panos/Alyssa Brown	The Natural History of Long Bone Healing in the Rat Segmental Defect Model / Mitochondrial Structure and Function in Diaphragm Motor Units
9/11/2020	Michael Romero	Acidosis, glaucoma and diabetes
9/18/2020	Abhishek Chandra	Senotherapeutics: Preventing bone deterioration in cancer survivors
9/25/2020	Mark Wehde	A Global Pandemic: How Mayo Clinic Engineering Stepped Up to Meet Practice Demands
10/2/2020	Catherine (Cat) Chong	Brain Structural and Functional Imaging in Migraine
10/9/2020	George Gilkey	Diagnostic Error: How did I get it so wrong?
10/16/2020	David Kallmes	The role of computational and animal modeling in translational neurovascular research
10/23/2020	Andrew Haak	The Role of Dopamine Signaling in Lung Fibrosis Resolution
10/30/2020	Bradley Bowles and Emma Goddery	SWLC Seminar
11/6/2020	Alyssa Brown and Michelle Benedict	Social Media Seminar
11/13/2020	Nick Ramsey	Beyond Proof of Concept: Can Brain-Computer Implants improve daily life in people with Locked-in Syndrome?
11/20/2020	Evan Nicolai and Irena Balzekas	Exponential Decay / Studying Sleep and Anxiety with iEEG
12/11/2020	Matthew Bernstein	Compact 3T MRI: Results and Future Directions
12/18/2020	Zong Wei	Epigenomic regulation by nuclear hormone receptors and co-factors in diabetes and inflammation