

2023 BMEP 6600 Seminar Series

DATE	PRESENTER(S)	SEMINAR TITLE
1-6-2023	Connie Chang, Ph.D.	Single Cell Studies of Microbial Communities Using Droplet Microfluidics
1-13-2023	Rena Hale, Ph.D.	The Scientist Founder
1-20-2023	Philip Holmes, Ph.D. William Jons	Improving Ultrasonic Diagnosis of Osteochondritis Dissecans using Delay-Multiply-and-Sum Reconstruction Identifying Tissue Composition and Gene Expression Differences Responsible for Breast Cancer Risk Among Women with Benign Breast Disease (BBD)
2-3-2023	Darwin Garcia Gonzales Kevin Webb	Evaluating the Effect of Radiation Dose, Fractionation, and ATM Inhibitor on Oral Mucosa The Effects of Hemoglobin Mutations at Extreme Altitude: A Computational Modeling Approach
2-24-2023	Matthew Urban, Ph.D.	Using Dynamic Optical Coherence Elastography to Measure Material Properties
3-3-2023	Roger Guillory II, Ph.D.	Recent Advances in the Development of Bioactive Resorbable Metal Materials for Next Generation Vascular Scaffolds
3-10-2023	Irena Balzekas, M.D., Ph.D. Filip Mivalt, M.S.	Dynamics Of Epileptiform Activity and Depression and Anxiety Symptom Severity in Temporal Lobe Epilepsy The Effects of Hemoglobin Mutations at Extreme Altitude: A Computational Modeling Approach
3-17-2023	Jim Wilking, Ph.D.	Nanoformulations for Oral Drug Delivery
3-24-2023	Ian Lanza, Ph.D.	Inflammation: A Nexus Between Adipose Tissue and Skeletal Muscle in Aging and Obesity
3-31-2023	Carlos Mantilla, M.D., Ph.D.	Harnessing Neuroplasticity to Enhance Respiratory Function in Health and Disease
4-14-2023	Chen Shigao, Ph.D.	Advanced Ultrasound Imaging Technologies and Applications
4-28-2023	Stephen Riederer, Ph.D.	Thin-Slice MRI: The Application of Engineering Methods to Imaging Prostate Cancer
5-5-2023	Stacey Winham, Ph.D.	Sex Differences in Genomics: A Role for Statistics and Education
5-12-2023	Richard Ehman, M.D.	MR Elastography: Lessons-Learned in the Journey from Invention to Standard of Care
5-19-2023	Long-Jun Wu, Ph.D.	How Microglia Sense and Regulate Neuronal Activity
6-2-2023	Alex Oliver Ana Diaz Espinosa	Metallic Bioresorbable Flow Diverters for the Treatment of Intracranial Aneurysms Controlled Resorption of Pericellular Collagen-Rich Matrix by Lung Fibroblasts
6-9-2023	Kristen Zhao, Ph.D., M.S. and Leigh Griffiths, Ph.D., MRCVS Sandesh Bhat, Ph.D.	BMPE Program Overview Brachial Plexus Injury: Post-Surgery Neuromuscular Control Characteristics and Rehabilitation
6-16-2023	Robel Gebre, Ph.D. Donna Roscoe	AI Modeling to Understand Heterogeneous Data in Aging and Dementia Studies Co-housing C57BL/6 Mice with Dirty Mice or Dirty Mice Bedding
7-7-2023	Abhinav Goyal Emily Koons	The Application of Deep Learning Towards Understanding the Neurochemical Basis of Psychiatric Disorders Ultra-High Resolution Coronary Artery CT Imaging
7-14-2023	Orestes Foresto Neto, Ph.D. Shaojie Chang, Ph.D.	The Anoctamin 4 Homolog Limits Bacterial Infection and Calcium Oxalate Crystallization in Drosophila Renal Tubules When PCD-CT meets AI: Enhancing Coronary Artery Disease Diagnosis
7-21-2023	William Herbert Kylee Schaffer	Putting the Individual in Individualized Medicine Biomechanics of Reaching in Able-Bodied Adults
7-28-2023	Carmen Reynold, Ph.D. Xi Yu	Studying Kidney Disease in Flies – A Drosophila Model of Dent Disease NODDI May Be More Sensitive to Neurodegenerative Changes Than Structural MRI
10-6-2023	Katherine Arnold	Phlpp1 and Articular Cartilage Mechanical Integrity in Post-Traumatic Osteoarthritis
10-13-2023	Arnaldo Mercado-Perez	Tethering Piezo2 to the Cytoskeleton to Feel Touch in the Gastrointestinal Epithelium
10-27-2023	Lydia Bardwell Speltz	Evaluation of MR Electromagnetic Fields for Subjects with Implanted Devices
11-3-2023	Daniel Tschumperlin, Ph.D., Matthew Urban, Ph.D., Clifton Haider, Ph.D., Andrew Haak, Ph.D.	Insights into Innovation and Entrepreneurship in PBME—Session 1: Faculty Roundtable and Q&A
11-10-2023	Lauren Jennings	Towards a Stem Cell Therapy for Type I Diabetes
12-15-2023	Kevin Zhang, Ph.D.	TBD