8th Annual Biomedical Engineering in Medicine Symposium

Thursday, February 22, 2024 | 10:30 AM - 5:00 PM EST
10:30 AM  Opening Remarks

Katrina Armstrong  
CEO of the Columbia University Irving Medical Center  
Dean of the Faculties of Health Sciences at Vagelos College of Physicians and Surgeons

Shih-Fu Chang  
Dean of the Fu Foundation School of Engineering and Applied Science

10:40 AM  Neuroscience and Biomedical Imaging

Qi Wang  
Associate Professor, Biomedical Engineering  
Session Chair

Grace McIlvain  
Assistant Professor of Biomedical Engineering  
“Noninvasive Imaging of Brain Biomechanical Properties”

Raju Tomer  
Associate Professor of Biological Sciences  
“Scalable tools for high-resolution mapping of large pathological samples”

Elizabeth Hillman  
Herbert and Florence Irving Professor, Mind Brain Behavior Institute  
“Using real-time imaging to decode the living brain”

Elizabeth Olson  
Professor, Biomedical Engineering; Professor, Auditory Biophysics  
“An implanted microphone as a component of a fully internal cochlear implant”

12:05 PM  Cancer and Genomics

Elham Azizi  
Assistant Professor, Biomedical Engineering; Herbert & Florence Irving Assistant Professor of Cancer Data Research  
Session Chair

Christine Chio  
Assistant Professor of Genetics and Development at Columbia Irving Medical Center  
“Site-specific methionine oxidation selectively drives pancreatic cancer metastasis”

José L. McFaline-Figueroa  
Assistant Professor of Biomedical Engineering  
“Single-cell genomic screens to define molecular response to therapeutic exposure”

Sara Zaccara  
Assistant Professor Herbert & Florence Irving Assistant Professor of Cancer Data Research  
“Understanding the complexity of the m6A regulatory program”

Brent Stockwell  
William R. Kenan, Jr. Professor of Biological Sciences; Professor of Chemistry and of Pathology and Cell Biology  
“Rewriting the cancer genome using diet, metabolism, and ferroptosis”
1:10 PM Lunch Break
Carleton Commons

2:30 PM Tissue Engineering

Gordana Vunjak-Novakovic
University Professor and Mikati Foundation Professor, Biomedical Engineering & Medical Sciences
Session Chair

Ke Cheng
Professor of Biomedical Engineering
“Extracellular Vesicles for Lung Repair and Drug Delivery”

Helen Lu
Percy & L.W Hudson Professor of Biomedical Engineering; Senior Vice Dean of Faculty Affairs & Advancement
“Dual Perspectives on Regenerative Biomaterials”

Ricardo Cruz-Acuña
Assistant Professor of Cancer Engineering; College of Dental Medicine
“The Role of Matrix Stiffness in Esophageal Cancer: Mechanism to Translational Therapeutics”

Treena Arinzeh
Professor of Biomedical Engineering
“Functional Biomaterials for Tissue Regeneration”

3:45 PM Biomechanics

Alice Huang
Associate Professor of Bioengineering
Session Chair

Nandan Nerurkar
Assistant Professor of Biomedical Engineering
“Mechanobiology of vertebrate gut morphogenesis”

Hasan Erbil Abaci
Assistant Professor Herbert and Florence Irving Assistant Professor of Cancer Data Research
“Engineering Human Skin as a Wearable Tissue”

Nadeen Chahine
Associate Professor of Bioengineering
“Inflammation in the Degeneration and Repair of the Intervertebral Disc”

Ed Guo
Stanley Dicker Professor of Biomedical Engineering; Professor of Medical Sciences
“Bone and Cartilage in Osteoarthritis”

5:00 PM Reception and Poster Session
Carleton Commons
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