

BMEII Symposium 2023 Program

Leveraging Technology to Unlock Current and Future Health Issues



*BioMedical Engineering
and Imaging Institute*

Location: New York Academy of Medicine
1216 Fifth Avenue

Day 1: Thursday, April 20, 2023		
2:00 pm	Doors Open Registration – Day 1	1 st Floor Lobby
2:30 pm	Welcome Remarks Zahi Fayad, PhD Director, BMEII Neil Rofsky, MD MHA Chair, Radiology	Hosack Hall
3:00 pm	Keynote Speaker Ralph Weissleder, MD, PhD Harvard Medical School <i>Leveraging Technology in Medicine</i>	Hosack Hall
4:00 pm	Poster Session Innovation Station Welcome Reception	Reading Room Periodicals Room (3 rd Floor)
6:00 pm	Day 1 Ends	

*NOTE: If you plan on returning for Day 2, please remember to bring your lanyard/nametag.

Day 2: Friday, April 21, 2023		
8:00 am	Doors Open Breakfast & Registration – Day 2	1 st Floor Lobby
8:30 am	Opening Remarks Zahi Fayad, PhD Director, BMEII Dennis Charney, MD Dean, ISMMS	Hosack Hall
9:00 am	Session 1: Nanomedicine, Drug Delivery, and Cancer Speaker 1: Michelle Bradbury, MD, PhD Memorial Sloan Kettering Cancer Center <i>Engineered Ultrasmall Particle Treatment Tools for Clinical Cancer Care</i>	Hosack Hall

9:50 am	Speaker 2: Evis Sala, MD, PhD Università Cattolica del Sacro Cuore <i>Building Clinical Value in Cancer Care with MRI</i>	Hosack Hall
10:45 am	Break	President's Gallery 1 st Floor
11:00 am	<p>Selected Oral Presentations</p> <p>Methods Presenter: Yun Soung Kim, PhD <i>Wireless Perioperative ECG using a Novel Smart Adhesive Wearable Device</i></p> <p>AI Presenter: Mohsen Annabestani, PhD <i>Predicting Roll Angle of Intracardiac Echocardiography Catheter during Bi-Plane Fluoroscopy using Machine Learning Techniques</i></p> <p>Nanomedicine Presenter: Jeffrey Downey, PhD <i>Influenza A Virus aggravates myocardial infarction through a type I interferon-dependent mechanism</i></p> <p>Neuroimaging Presenter: Alan Seifert, PhD <i>Thermal Stimulus Task fMRI in the Cervical Spinal Cord at 7 Tesla</i></p> <p>Body Imaging Presenter: Xiang Xu, PhD <i>Glycogen Imaging of the Human Liver Using GraspNOE-Dixon</i></p> <p>Cardiovascular Imaging Presenter: David O'Connor, PhD <i>Functional connectivity networks associate with both perceived stress and atherosclerotic burden in a PTSD cohort</i></p>	Hosack Hall
12:00 pm	Lunch	Reading Room 3 rd Floor
12:45 pm	Trivia	Reading Room 3 rd Floor
1:30 pm	<p>Session 2: Advances in Medical Imaging</p> <p>Speaker 1: Lawrence Wald, PhD Harvard Medical School</p>	Hosack Hall

	<i>New scanner architectures for brain imaging: portable/accessible low-field MRI and a human magnetic particle imager for sensitive functional imaging</i>	
2:20 pm	Speaker 2: Claudia Prieto, PhD Kings College London <i>Multiparametric 3D Cardiovascular MRI: All-in-one</i>	Hosack Hall
3:15 pm	Break	President's Gallery 1 st Floor
3:30 pm	Session 3: Wearable Technologies and Virtual Reality Therapy Speaker 1: Brennan Spiegel, MD, MSHS Cedars-Sinai Medical Center <i>Virtually Better: The Art and Science of Medical Extended Reality</i>	Hosack Hall
4:20 pm	Speaker 2: Nanshu Lu, PhD University of Texas at Austin <i>Wireless E-Tattoos for Ambulatory Multimodal Biometric Sensing</i>	Hosack Hall
5:15 pm	Presentation of Awards: Neil Rofsky, MD, MHA Closing Remarks: Zahi Fayad, PhD	Hosack Hall
6:00 pm	Art Show & Closing Reception	Reading Room 3 rd Floor
8:00 pm	Event Ends	