TECHNOLOGIES FOR EMERGING INFECTIOUS DISEASES

Track Chair: Gregg Duncan - University of Maryland - gaduncan@umd.edu
- Drug Delivery (vaccines, novel ways to deliver antivirals)
- Biomaterials
- Sterilization
- Modeling Spread of Contagion
- Rapid Detection
- Prevention
- Technology Advancements (3D Printing, Devices, etc.)
- Other / Non-specified

BIOMATERIALS

Track Chair: Lakiesha Williams - University of Florida - lwilliams@bme.ufl.edu
- 3D Printing and Advanced Biomaterial Manufacturing
- Advanced Characterization and imaging of Biomaterial Environments
- Advances in Biomaterials Integration with Chips and Devices
- Biomaterials for Immuonengineering
- Biomaterials for Regenerative Medicine
- Biomaterials Scaffold
- Biomechanics of Biomaterials
- Drug Delivering Biomaterials
- Engineering the Stem Cell Microenvironment
- Hydrogel Biomaterials
- Natural and Bioinspired Biomaterials
- Other / Non-specified

BIOMANUFACTURING

Track Chair: Tracy Hookway - Binghamton Univ - thookway@binghamton.edu
- Molecular Biomaterials manufacturing
- Cellular Biomaterials manufacturing
- Tissue and Organ Biomaterials manufacturing
- 3D Printing Advances for Biofabrication
- Biomaterials for Cell Manufacturing and Tissue Biofabrication
- Microphysiological Systems (MPS) Manufacturing
- Multiscale Computation Modeling
- Biomanufacturing Process Integration and Scale-up/out
- Bioprocess Monitoring and In-Line Sensing
- Enabling Technologies for Cell and Tissue Biomaterials manufacturing
- Cryopreservation in Biomanufacturing
- Other / Non-specified

BIOMEDICAL IMAGING AND INSTRUMENTATION

Track Chair: Alvin Yeh - Texas A&M - ayeh@tamu.edu
- Cardiac, Cardiovascular, and Blood Flow Imaging
- Imaging in Neuroscience, Brain and Spine
- Imaging Applications in Reproductive Health
- Imaging Cells, Molecules, and Genome
- Imaging Technologies and Molecular Profiling in Cancer
- Imaging the Respiratory System
- Imaging Technologies in Clinical Translation
- Imaging in Tissue Engineering
- Optical and Spectroscopic Imaging, Microscopy, and Spectroscopy (Optics)
- Contrast-Enhanced Ultrasound and Therapeutic Ultrasound (US)
- Photoacoustic Imaging (PA)
- Endoscopy and Optical Coherence Tomography (OCT)
- Magnetic Resonance Imaging and Applications (MRI)
- Imaging of Structural and Mechanical Properties
- Deep Learning and Artificial Intelligence in Microstructural Imaging
- Imaging System Development & Emerging Imaging Technologies
- Nuclear Medicine Imaging (PET/SPECT)
- X-ray and Computed Tomographic Imaging (CT)
- Other / Non-specified

ANNUAL MEETING CO-CHAIRS: Debra Augustine, Northeastern Univ- d.auguste@northeastern.edu
Kent Leach, Univ of CA Davis – jkleach@ucdavis.edu
Tanmay Lele, Texas A&M University – tanmay.lele@tamu.edu

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