



NanoBio Collaborative International Conference

January 19-20, 2018

USF Marshall Student Center

Tampa, FL

Friday, January 19

8:00 – 8:30	Registration
8:30 – 9:00	Welcome Moderators: Shyam S. Mohapatra (USF) and Mandip Sachdeva (FAMU) Ralph Wilcox, PhD, Provost, USF Charles Lockwood, MD, Senior VP, USF Health Kevin Sneed, PharmD, Senior Assoc VP & Dean of COP, USF Health
SESSION 1	NANOTECHNOLOGY & PRECISION CANCER MEDICINE
	Moderators: Kannan Rangaramanujam (JHU) and Robert Frisina (USF)
9:00 – 9:30	Keynote: Manoj K. Bhasin, PhD, Harvard Medical School: Personalized Medicine: “omics”-driven Revolution in Healthcare
9:30 – 9:55	David G. Meckes, Jr., PhD, Florida State University College of Medicine: Deciphering the Complexities of Extracellular Vesicle Biogenesis and Cargo Selection in Cancer
9:55 – 10:20	Subhra Mohapatra, PhD, USF Morsani College of Medicine: A Nanofiber Scaffold for Drug Discovery and Personalized Medicine
10:20 – 10:35	BREAK
SESSION 2	NANO-CELL BIOSENSING
	Moderators: Kevin Francis (UCLA) and Huabei Jiang (USF)
10:35 – 11:05	Keynote: Chenzhong Li, PhD, NSF Nanobiosensing Program: Biomedical Sensing Devices for Cell on a Chip and NSF Perspectives
11:05 – 11:30	Robert Frisina, PhD, USF College of Engineering: Nanoparticle-based Plasmonic Stimulation for Neural and Cardiac Cells
11:30 – 11:55	Anna Pyayt, PhD, USF College of Engineering: Photonic Single Cell Instruments for Detection of Bioanalytes
11:55 – 12:20	Nathan Gallant, PhD, USF College of Engineering: Shape Shifting Biomaterials for Tissue Engineering and Mechanobiology
12:20 – 1:00	LUNCH
SESSION 3	NANOMEDICINE: IMAGING APPLICATIONS
	Moderators: Paul Lockman (UWV) and Fernando Luis Esteban Florez (OU)

1:00 – 1:30	Keynote: Kevin Francis, PhD, <i>UCLA Department of Orthopaedic Surgery:</i> Optical Tomography and Its Role in Multimodality Imaging and Translational Disease Research
1:30 – 1:55	Huabei Jiang, PhD, <i>USF College of Engineering:</i> Novel Multimodal Molecular Imaging of Cancer using Targeted Nanoparticles
1:55 – 2:20	Manh-Huong Phan, PhD, <i>USF Department of Physics:</i> Magnetic Nanomaterials for Advanced Hyperthermia Therapy and Biodetection
2:20 – 2:35	BREAK
SESSION 4	NANOMEDICINE & DRUG DELIVERY Moderators: Steven Lenhert (FSU) and Martin D'Souza (MU)
2:35 – 3:05	Keynote: Kannan Rangaramanujam, PhD, <i>Johns Hopkins School of Medicine:</i> Systemic, Targeted Nanotherapies for Neurological Disorders: From Chemistry towards Clinical Translation
3:05 – 3:30	Sharan Bobbala, PhD, <i>Northwestern University McCormick School of Engineering:</i> Oxidation-responsive Polymeric Bicontinuous Nanospheres for Drug and Vaccine Delivery
3:30 – 3:55	Juan Sanchez-Ramos, MD, PhD, <i>USF Morsani College of Medicine:</i> Nanoparticles for Delivery of Genes and siRNA into Brain by Nasal Instillation
3:55 – 4:20	Norma Alcantar, PhD, <i>USF College of Engineering:</i> Localized Drug Delivery Systems: A Smart Targeting Approach
SESSION 5	POSTER SESSION
4:30 – 5:15	Poster Presentations
5:15 – 6:15	Young Investigator Forum

Saturday, January 20

8:15 – 8:30	Registration
SESSION 6	3D PRINTING & NANOMATERIALS Moderators: Subhra Mohapatra (USF) and Juan Sanchez-Ramos (USF)
8:30 – 9:00	Keynote: Paul Lockman, PhD, <i>West Virginia University School of Pharmacy:</i> Permeability Across a Novel Microfluidic Blood-Tumor Barrier Model
9:00 – 9:25	Steven Lenhert, PhD, <i>Florida State University Department of Biological Science:</i> 3D Bioprinting of Liposomes
9:25 – 9:50	Arindam Mondal, PhD, <i>FAMU College of Pharmacy and Pharmaceutical Sciences:</i> 3D Printed Tumor Spheroids for Evaluation of Anticancer Drugs
9:50 – 10:15	Sudipta Seal, PhD, <i>UCF College of Engineering:</i> Oxidative Stress Regulation using Redox Active Ultrafine Rare Earth Oxides
10:15 – 10:30	BREAK
SESSION 7	NANOMEDICINE APPLICATIONS Moderators: Shyam Mohapatra (USF) and Mandip Sachdeva (FAMU)
10:30 – 11:00	Keynote: Michael Bouvet, MD, <i>UC San Diego Moores Cancer Center:</i> Fluorescence Guided Surgery for Tumors: Current and Future Perspectives

11:00 – 11:25	Edward Agyare, PhD, <i>FAMU College of Pharmacy and Pharmaceutical Sciences</i>: Gemcitabine-loaded Solid Lipid Nanoparticles for Effective Treatment of Pancreatic Cancer
11:25 – 11:50	Martin D'Souza, PhD, <i>Mercer University College of Pharmacy</i>: Immunotherapeutic Approaches for Cancer Therapy
11:50 – 12:15	Ghanashyam Acharya, PhD, <i>Baylor College of Medicine</i>: Ocular Drug Delivery Nanowafer: Design and Applications
12:15 – 12:40	Fernando Luis Esteban Florez, DDS, PhD, <i>University of Oklahoma College of Dentistry</i>: Multifunctional Nanofilled Dental Adhesive Resins
12:40 – 1:00	Poster Awards and Closing