



Registration – Welcome Breakfast

- 7:30 – 7:55 AM **Hind Harrak, Ph.D.**
Master of Ceremony
- 7:55 – 8:00 AM **Andrés G. Gil, Ph.D.**
*Vice President for Research and Economic Development
Dean of University Graduate School
Florida International University*
- 8:00 – 8:05 AM **Robert Sackstein, M.D., Ph.D.**
*Dean, Herbert Wertheim College of Medicine
Senior Vice President for Health Affairs
Florida International University*
- 8:05 – 8:10 AM **Carolyn D. Runowicz, M.D.**
*Professor of Obstetrics and Gynecology
Executive Associate Dean of Academic Affairs
Herbert Wertheim College of Medicine
Florida International University*
- 8:10 – 8:15 AM **Charles J. Dimitroff, Ph.D.**
*Professor
Director for the Translational Glycobiology Institute at FIU (TGIF)
Executive Associate Dean for Research
Department of Translational Medicine
Herbert Wertheim College of Medicine
Florida International University*
- 8:15 – 8:20 AM **Madhavan Nair, Ph.D.**
*Founding President
Society for Personalized Nano-Medicine (SPNM)*

Keynote Speaker

- 8:20 – 8:50 AM **“Integrating Nanotechnology into Cancer Care”**
- Piotr Grodzinski, Ph.D.**
*Branch Chief
Nanodelivery Systems and Devices
NCI/NIH*
- Introduced by* **Anthony J. McGoron, Ph.D.**
*Professor and Associate Dean
Department of Biomedical Engineering
College of Engineering and Computing
Florida International University*

Symposium I

Combinatory Therapeutic Strategies to Cure HIV

Chair: Brian Wigdahl, Ph.D.

Professor and Chair

Microbiology and Immunology

Director, Institute for Molecular Medicine and Infectious Disease

Drexel University College of Medicine

Chair: Norman J. Haughey, Ph.D.

Professor and Vice Chair of Research

Department of Neurology

Professor, Neuroimmunology and Neurological Infections

The Johns Hopkins University School of Medicine

8:50 – 9:10 AM

“Toward HIV Cure: The CRISPR Story”

S1: Kamel Khalili, Ph.D.

Laura H. Carnell Professor and Chair

Department of Neuroscience

Director, Center for Neurovirology and Comprehensive NeuroAIDS

Co-Director, Center for Translational AIDS Research

Temple University Lewis Katz School of Medicine

9:10 – 9:30 AM

“Gene Editing Strategies toward HIV Cure using Non-Human Primates”

S2: Tricia H. Burdo, Ph.D.

Associate Professor, Neuroscience

Associate Chair for Education

Associate Professor, Center for Neurovirology

Lewis Katz School of Medicine

Temple University

9:30 – 9:50 AM

“Leveraging Theranostics in HIV-1 Elimination Strategies”

S3: Howard E. Gendelman, M.D.

Chair

Department of Pharmacology & Experimental Neuroscience

University of Nebraska Medical Center

9:50 – 10:10 AM

“Nano-Delivery of Therapeutic Agents to Brain toward HIV Cure”

S4: Madhavan Nair, Ph.D.

Distinguished Professor and Chair

Department of Immunology and Nano-Medicine

Associate VP for Nano-Medicine

Herbert Wertheim College of Medicine

10:10 – 10:30 AM

SNACK/COFFEE BREAK

Symposium II

Biosensors: From Cell Recording to Point of Care Testings

Chair: Chenzhong Li, Ph.D.

*Program Director
National Science Foundation*

Chair: Charles J. Dimitroff, Ph.D.

*Professor
Director for the Translational Glycobiology Institute at FIU (TGIF)
Executive Associate Dean for Research
Department of Translational Medicine
Herbert Wertheim College of Medicine
Florida International University*

10:30 – 10:50 AM

“Microsystems for Analysis of Cells and Biological Fluids”

S1: Alexander Revzin, Ph.D.

*Professor
Department of Physiology and Biomedical Engineering
Mayo Clinic*

10:50 – 11:10 AM

“Next-Generation 3D Package Integration for Wireless Neural Recording”

S2: Raj Pulugurtha, Ph. D.

*Associate Professor
Department of Biomedical Engineering
Florida International University*

11:10 – 11:30 AM

“Non-Invasive Electrophysiological Readouts from Engineered Tissues”

S3: Ashutosh Agarwal, Ph.D.

*Assistant Professor
Biochemistry and Molecular Biology
University of Miami Miller School of Medicine*

11:30 – 11:50 AM

“Enabling POC Biosensing using a Magnetic Actuation Platform”

S4: Waseem Asghar, Ph.D.

*Assistant Professor
Department of Computer & Electrical Engineering and Computer Science
Department of Biological Sciences
Florida Atlantic University*

12:00 – 1:15 PM

LUNCH BREAK / Poster Session

Symposium III **Design and Development of Nanoparticles/Formulations for Theranostics**

Chair: Larry Nagahara, Ph.D.

*Associate Dean for Research
Whiting School of Engineering
Johns Hopkins University
Former Associate Director, Division of Cancer Biology
NCI, NIH*

Chair: Sabita Roy, Ph.D.

*Professor
Department of Surgery
Associate Vice Chair for Career Development and Mentoring
University of Miami Miller School of Medicine*

1:15 – 1:35 PM **“Simple NanoTherapeutic Platforms for Major Health Problems.”**

S1: Shanta Dhar, Ph.D.

*Associate Professor of Biochemistry and Molecular Biology
Assistant Director of Technology and Innovation, Sylvester Comprehensive Cancer
Center
NanoTherapeutics Research Laboratory
University of Miami Miller School of Medicine*

1:35 – 1:55 PM

**“Neuroprotective effects of a biodegradable poly(lactic-co-glycolic acid)-
ginsenoside Rg3 nanoformulation: a potential nanotherapy for Alzheimer’s
disease.”**

S2: Supriya D. Mahajan, Ph.D.

*Research Associate Professor
Department of Medicine
Jacobs School of Medicine & Biomedical Sciences
University of Buffalo*

1:55 – 2:15 PM

“Autofluorescent Micro/nanogels for Therapeutics and Diagnostic Applications.”

S3: Arti Vashist, Ph.D.

*Assistant Professor
Department of Immunology and Nano-Medicine
Herbert Wertheim College of Medicine
Florida International University*

2:15 – 2:35 PM

**“Magnetic /Plasmonic Nano-system for Image-guided and Theranostic
Applications.”**

S4: Asahi Tomitaka, Ph.D.

*Assistant Professor
Department of Immunology and Nano-Medicine
Herbert Wertheim College of Medicine
Florida International University*

Symposium IV

Cryptic Peptidome, Opioid Addictions and E-cigarettes: A Potential Role in Nano-Medicine

Chair: Rao S. Rapaka, Ph.D.

*Branch Chief
Chemistry and Pharmacology Branch
NIDA/NIH*

Chair: Sulie L. Chang, Ph.D.

*Professor
Department of Biological Sciences
Director, Institute of NeuroImmune Pharmacology (INIP)
Seton Hall University*

2:35 – 2:55 PM

Introduction: Rao S. Rapaka, Ph.D.

*Branch Chief
Chemistry and Pharmacology Branch
NIDA/NIH*

2:55 – 3:15 PM

“The Opioid Crisis: Made in America, fade in America?”

S1: Bertha K. Madras, Ph.D.

*Associate Director for Medical Education
Division on Addictions
Professor of Psychobiology
Department of Psychiatry
Harvard Medical School*

3:15 – 3:35 PM

“Nanotechnology and Proteomics: Unraveling the Hidden Peptidome of Emerging Pathogens”

S2: Alessandra Luchini, Ph.D.

*Assistant Professor
Center for Applied Proteomics and Molecular Medicine (CAPMM)
George Mason University*

3:35 – 3:55 PM


BREAK

3:55 – 4:15 PM

“The Brain Angiotensin System: Classic and Novel Functions”

S3: Robert Speth, Ph.D.

*Professor
Pharmaceutical Sciences
Nova Southeastern University*



4:15 – 4:35 PM

“Effect of Flavors and Health Warning Labels on Young Adult E-Cigarette Users?”

S4: Wasim Maziak, M.D., Ph.D.

Professor and Chair

Department of Epidemiology

Robert Stempel College of Public Health and Social Work

Florida International University

4:35 – 4:45 PM

Summary: Roger Little, Ph.D.

Deputy Director

Division of Basic Neuroscience and Behavioral Research

NIDA/NIH

4:45 – 5:00 PM Q & A Section

5:00 – 5:20 PM

Award Ceremony

5:20 – 5:30 PM

Closing Remarks

