Conference Agenda
4th Annual Personalized Nanomedicine Symposium
Miami, FL

November 2nd, 2017

Registration
7:30 AM – 8:00 AM  Monte Carlo Room 1
5800 Blue Lagoon Drive, Pullman Miami Airport Hotel, Miami, Florida

Welcome - Breakfast

8:00 AM – 8:05 AM  John Rock, M.D., M.S.P.H.
Founding Dean, Florida International University Herbert Wertheim College of Medicine
Senior Vice President for Health Affairs

8:05 AM – 8:10 AM  Andres Gil, M.S.W., Ph.D.
Vice President for Research and Economic Development,
Dean of University Graduate School, Florida International University

8:00 AM – 8:15 AM  Carolyn D. Runowicz, M.D.
Professor, Obstetrics and Gynecology
Executive Associate Dean for Academic Affairs
Herbert Wertheim College of Medicine
Florida International University

8:15 AM – 8:20 AM  Madhavan Nair, Ph.D.
SPNM Founding President

Keynote Speaker

8:20 AM – 9:00 AM  title: TBA
Piotr Grodzinski, Ph.D.
Director, NCI Office of Cancer Nanotechnology Research
National Cancer Institute (NCI)
National Institute of Health (NIH)

Introduced by Minesh Mehta. M.D.
Deputy Director and Chief of Radiation Oncology
Miami Cancer Institute
Baptist Health of South Florida
Symposium I

Unique Nano-Engineering for Personalized NanoMedicine

Chair: Avindra Nath, M.D.
Clinical Director, NINDS
Director, Translational Neuroscience Center
Chief Investigator, Section of Infections of the Nervous System
National Institutes of Health (NIH)

Chair: Richard J. Cote, M.D., FRCP, FCAP
Professor and Joseph R. Coulter Jr. Chair
Department of Pathology
Dr. John T. Macdonald Foundation Biomedical Nanotechnology Institute
University of Miami Miller School of Medicine

9:00 AM – 9:20 AM
“The Promise of New Technologies to Reduce, Refine, or Replace Animal Use while Reducing Risks of Drug Induced Liver Injury in Pharmaceutical Development ”

S1: Ye Kaiming, Ph.D.
Professor and Chair, Department of Biomedical Engineering
Director, STEM Cell and Tissue Engineering Laboratory
Fellow, American Institute of Medical and Biological Engineering
Binghamton University, State University of New York

9:20 AM – 9:40 AM
“Polymeric nanoparticles: Tumor microenvironment variability and implications for new nanoparticle design and development”

S2: Omid Farokzhad, M.D.
Associate Professor
Brigham and Women’s Hospital
Harvard Medical School

9:40 AM – 10:00 AM
“Caged affinity nanoparticles: Applications to personalized medicine”

S3: Lance Liotta, M.D., Ph.D.
University Professor
Co-Director, Center for Applied Proteomics and Molecular Medicine
Medical Director, Clinical Proteomics Lab
College of Science
George Mason University

10:00 AM – 10:20 AM
BREAK
Symposium II

Personalized NanoMedicine for Diagnosis and Treatment

Chair: Kendall Bryant, Ph.D.
Director, HIV/AIDS Research
National Institutes of Health (NIH)
National Institute on Alcohol Abuse and Alcoholism (NIAAA)

Chair: Sylvia Daunert, Ph.D., Pharm.D., M.S
Chair of Biochemistry and Molecular Biology
University of Miami Miller School of Medicine

10:20 AM – 10:50 AM
“TBA”

Plenary Speaker: John S. Yu, M. D.
Director, Surgical Neuro-Oncology
Professor, Neurosurgery
Surgical Director, Neuro-Oncology
Vice Chair, Neurosurgical Oncology in Department of Neurosurgery
Cedars-Sinai Medical Center

Introduced by Babak Kateb, M.D.
Founding Chairman of the Board of Directors
CEO and Scientific Director
Society for Brain-Mapping and Therapeutics (SBMT)

10:50 AM – 11:10 AM

TBA

S1: Thomas Thundat, Ph.D.
Professor
Department of Chemical and Materials Engineering
Canada Excellence Research Chair in Oil Sands Molecular Engineering
University of Alberta

11:10 AM – 11:30 AM

“Thermally responses adhesives for ocular wound sealing”

S2: Mark Thompson, Ph.D.
Professor of Chemistry In-Organic Chemistry
Department of Chemistry
University of Southern California
11:30 AM – 11:50 AM

“Polymeric Nanocarriers for combination therapy”

S4: Tatiana Bronich, Ph.D.
Parke-Davis Professor of Pharmaceutical Sciences
Director, Nebraska Center for Nanomedicine
College of Medicine
University of Nebraska Medical Center

11:50 AM – 12:10 PM

“Systemic drug delivery via topically applied nanoparticles”

S5: Joel M. Friedman, M.D., Ph.D.
Professor, Department of Physiology & Biophysics
Professor, Department of Medicine
Albert Einstein College of Medicine

12:10 PM – 12:30 PM

“Smart Nanovehicles for Drug, Gene and Vaccine Delivery”

S6: Surya Mallapragada, Ph.D.
Anson Marston Distinguished Professor
and Carol Vohs Johnson Chair
Department of Chemical and Biological Engineering
Iowa State University

12:30 PM– 1:15 PM

LUNCH BREAK

1:15 PM – 2:15 PM

Poster Session

Symposium III

Application of NanoMedicine and CRISPR Technology

Chair: Shamala Srinivas, Ph.D.
Scientific Review Officer
Office of Referral, Review and Program Coordination
Division of Extramural Activities
National Cancer Institute (NCI)
National Institute of Health (NIH)

Chair: Norman Haughey, Ph.D.
Vice Chair for Research, Department of Neurology
Professor of Neurology
Johns Hopkins Medicine
2:15 PM – 2:35 PM

“Synergism between CRISPR/Cas9 and Long Acting ART leads to elimination of HIV-1 with no rebound in humanized mice”

S1: Kamel Khalili, Ph.D.
Laura H. Carnell Professor and Chair
Department of Neuroscience
Director, Center for Neurovirology and Comprehensive NeuroAIDS Center
Co-Director, Center for translational AIDS Research
Lewis Katz School of Medicine
Temple University

2:35 PM – 2:55 PM

“Autologous Macrophage as Active Biocompatible Drug Delivery vehicles for the Treatment of Neurodegenerative Disorders”

S2: Jonathan Karn, Ph.D.
Reinberger Professor of Molecular Biology
Chairman, Department of Molecular Biology and Microbiology
Director, Center for AIDS Research
Case Western Reserve University

2:55 PM – 3:15 PM

“HIV-1 and psychostimulant abuse –cures and constraints”

S3: Rose Marie Booze, Ph.D.
Professor and Bicentennial Endowed Chair in Behavioral Neuroscience
University of South Carolina

3:15 PM – 3:35 PM

“TBA”

S4: Brian Wigdahl, Ph.D.
Professor and Chair
Department of Microbiology and Immunology
Director, Institute for Molecular Medicine and Infectious Disease
Drexel University College of Medicine

3:35 PM – 3:55 PM

“TBA”

S4: Shilpa Buch, Ph.D
Professor, College of Medicine,
Department of Pharmacology & Experimental Neuroscience
University of Nebraska Medical Center
Symposium IV

Personalized NanoMedicine for HIV, Recreational Drugs, and CNS Diseases: Part 1

Chair: TBA

Chair: Sabita Roy, Ph.D.
Professor and Associate Vice-Chair of Career Development and Mentoring
Department of Surgery
University of Miami

4:00 PM – 4:30 PM
BREAK

4:30 PM – 4:50 PM
“Dual modes of dissemination of neural inflammation by HIV-1 Tat – Direct uptake versus Exosome release”
S1: Vinayaka Prasad, Ph.D.
Professor
Department of Microbiology and Immunology
Albert Einstein College of Medicine

4:50 PM – 5:10 PM
“TBA”
S2: Shenghan Lai, M.D., M.P.H.
Professor of Pathology, Radiology, Psychiatry, Medicine & Epidemiology
Johns Hopkins School of Medicine

5:10 PM – 5:30 PM
“Discovery of neo-antigens toward a combined immunotherapy for HTLV-associated neuroinflammatory disease”
S3: Pooja Jain, Ph.D.
Professor of Microbiology and Immunology
Professor of Neurobiology and Anatomy
Institute for Molecular Medicine and Infectious Disease
Drexel University College of Medicine

5:30 PM – 5:50 PM
“Recent advances in personalized treatment of ovarian cancer”
S4: Johnny He, Ph.D.
Associate Dean for Graduate Education and Research
Professor, Department of Cell Biology and Immunology
University of North Texas Health Science Center

5:50 PM – 6:10 PM
TBA

S5: Yuri Persidsky, M.D., Ph.D.
Professor and Chairman
Department of Pathology and Laboratory Medicine
Temple University

6:10 PM – 6:30 PM
TBA

S6: Michal Toborek, M.D., Ph.D.
Leonard M. Miller Professor of Biochemistry and Molecular Biology
Professor and Vice-Chair for Research
Department of Biochemistry and Molecular Biology
Miller School of Medicine
University of Miami

6:30 PM – 8:00 PM
DINNER at Pullman Miami Airport Hotel (Paris Room)

November 3rd, 2017

8:00 AM – 8:25 AM  BREAKFAST
8:25 AM – 8:30 AM  TBA
     Master of Ceremony

Symposium V

Personalized NanoMedicine for HIV, Cancer, and CNS Diseases: Part 2

Chair: Ranga Srinivas, Ph.D.
Chief, Extramural Project Review Branch
National Institute on Alcohol Abuse and Alcoholism (NIAAA)
National Institute of Health (NIH)

Chair: Sulie Chang, Ph.D.
Professor, Department of Biological Sciences
Director, Institute of NeuroImmunne Pharmacology
Seton Hall University
8:30 AM – 8:50 AM  “Effects of silica nanoparticles on endolysosome function in primary cultured neurons”

S1: Jonathan D. Geiger, Ph.D.  
Chester Fritz distinguished Professor  
UND School of Medicine and Health Sciences  
Department of Basic Biomedical Sciences

8:50 AM – 9:10 AM  “TBA”

S2: Jessica L. Reynolds, Ph.D.  
Research Associate Professor  
Proposal Development Officer  
Department of Medicine  
University of Buffalo, the State University of New York

9:10 AM – 9:30 AM  TBA

S3: Anuja Ghorpade, Ph.D.  
Interim Vice President for Research  
Professor, Institute for Molecular Medicine  
University of North Texas Health Science Center

9:30 AM – 9:50 AM  TBA

S4: Sanjay Maggirwar, M.B.A., Ph.D.  
Vice Chair and Professor  
Department of Microbiology and Immunology  
University of Rochester School of Medicine and Dentistry

9:50 AM – 10:10 AM  “Nanoparticle Mediated Targeting of Altered Metabolisms in Cancer”

S5: 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

10:10 AM – 10:30 AM  BREAK
Symposium VI

NanoMedicine for HIV, Recreational Drugs, and Emerging Infections: Part 3

Chair: Piotr Grodzinski, Ph.D.
Director, NCI Office of Cancer Nanotechnology Research
National Cancer Institute (NCI)
National Institute of Health (NIH)

Chair: Marcus Kaul, Ph.D.
Chair, SNIP Meeting Committee
Associate Professor of Biomedical Sciences
School of Medicine, Division of Biomedical Sciences
University of California, Riverside

10:30 AM – 10:50 AM
“TBA”
S1: Rahul Dev Jayant, Ph.D.
Assistant Professor
Center for Personalized NanoMedicine
Department of Immunology
Herbert Wertheim College of Medicine
Florida International University

10:50 AM – 11:10 AM
“HIV-1 Nef produced by astrocytes disrupts the blood brain barrier that causes inflammation in gut and lung tissues”

S2: Richard J. Noel, Jr., Ph.D.
Chair of Basic Sciences Department
Professor of Biochemistry
Director of Molecular and Genomics Core
Ponce Health Sciences University
Ponce Research Institute

11:10 AM – 11:30 AM
“TBA”
S3: Hao Shuanglin, Ph.D.
Professor and Director of Preclinical and Basic Research Anesthesiology
University of Miami

11:30 AM – 11:50 AM
“TBA”
S4: Ajeet Kaushik Kumar, Ph.D.
Assistant Professor
Center for Personalized NanoMedicine
Department of Immunology
Herbert Wertheim College of Medicine
11:50 AM – 12:10 PM  “TBA”  
S5: Santosh Kumar, Ph.D.  
Associate Professor, Pharmaceutical Sciences  
University of Tennessee Health Science Center

12:10 PM – 12:30 PM  “Going beyond CD59, a key complement regulator: from anti-HIV to a cell ablation tool for drug addiction research”  
S6: Xuebin Qin, M.D., Ph.D.  
Associate Professor of Neuroscience  
Temple University

12:30 PM – 12:50 PM  “TBA”  
S7: Andrea Raymond, Ph.D.  
Assistant Professor  
Center for Personalized NanoMedicine  
Department of Immunology  
Herbert Wertheim College of Medicine  
Florida International University

12:50 PM – 1:45 PM  LUNCH

Symposium VII  
Early Career Investigators in Nanomedicine  
Chair: Chenzhong Li, Ph.D.  
Program Director, Nanobiosensing Program  
Chemical, Bioengineering, Environmental & Transport Systems Division  
National Science Foundation

Chair: Fatah Kashanchi, Ph.D.  
Professor  
Laboratory of Molecular Virology  
George Mason University

1:45 PM – 2:05 PM  TBA (presenters to be selected from Posters)  
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TBA

2:05 PM – 2:15 PM  TBA  
S2: TBA,
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<td>Future Perspectives for NanoMedicine: Chief: Jag Khalsa, Ph.D</td>
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