

PROGRAM

Saturday, October 15, 2011 (Officer's Club)

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8:00-8:50 AM

Registration/Poster Mounting

8:50-9:00 AM

Introductory Remarks

Thomas Parks

Vice President for Research, University of Utah, USA

Chris Ireland

Dean, College of Pharmacy, University of Utah, USA

Session I: Advanced Nanomaterials

Co-Chairs:

Hamid Ghandehari

Pharmaceutics & Bioengineering, Utah Center for Nanomedicine, University of Utah, USA

Marc Schneider

Helmholtz Institute for Pharmaceutical Research Saarland, Saarland University, Germany

9:00-9:40 AM

Plenary Lecture

Nanoengineered Multifunctional Particles: Recent advances and Challenges for Nanomedicine

Frank Caruso

Department of Chemical & Biomolecular Engineering, University of Melbourne, Australia

9:40-10:10AM

Engineering Nanostructured Interfaces for Enhanced Epithelial Binding and Permeability

Tejal Desai

Department of Physiology, University of California, USA

10:10-10:20AM

Coffee Break/Poster Viewing

Session II: Theranostics

Co-Chairs:

Andrew MacKay

Department of Pharmacology and Pharmaceutical Sciences, University of Southern California, USA

Dennis Parker

Department of Radiology Research, University of Utah, USA

10:20-10:50 AM

Image Guided Drug Delivery

Katherine Ferrara

Biomedical Engineering, University of California, Davis, USA

10:50-11:20AM

Role of Nanomedicine in Theranostics

Ick Chan Kwon

Biomedical Science Center, Korea Institute of Science and Technology, Korea

11:20- 11:50 AM

Advancements in Nanomedicine Extend the Horizons of Diagnosis and Therapy

Gregory Lanza

Cardiovascular Division, Washington University, USA

10:50 AM-12:20 PM

Molecular Imaging and Nanomedicine

Shawn Chen

National Institute of Biomedical Imaging and Bioengineering (NIBIB)

National Institute of Health, USA

12:20 - 1:00 PM

Lunch Box/Poster Viewing

Session III: Theranostics

Co-Chairs:

Tatiana Bronich

College of Pharmacy, University of Nebraska Medical Center, USA

David Grainger

Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, USA

1:00-1:30 PM

Image-Guided Polymeric Nanomedicines for Tumor-Targeted Combination Therapies

Twan Lammers

Department of Pharmaceutics, Utrecht University, The Netherlands

1:30-2:00 PM

The Application of Nanomedicine to the Detection and Treatment of Cardiovascular Disease

Jason McCarthy

Center for Molecular Imaging Research and The Center for Systems Biology

Harvard Medical School, USA

2:00-2:30 PM

Advances in Development of Theranostics for Epithelial Cancers

Subhra Mohapatra

Department of Molecular Medicine, University of South Florida, USA

2:30-2:40 PM

Coffee Break/Poster Viewing

Session IV: Drug Delivery

Co-Chairs:

Mohamed El-Sayed

Department of Biomedical Engineering, University of Michigan, USA

Leonard Pease

Department of Chemical Engineering, University of Utah, USA

2:40-3:10 PM

Delivery of Lysosomal Enzyme Replacement Therapies by Targeted Nanocarriers

Sylvia Muro

Department of Bioengineering, University of Maryland, USA

3:10-3:40 PM

3-in-1 Polymeric Micelle Nanocontainer for Poorly Water-Soluble Drugs

Glen Kwon

School of Pharmacy, University of Wisconsin-Madison, USA

3:40-4:10 PM

Polymer Conjugates as Single Agents or in Combination Therapy: Versatile Nanomedicines for Tissue Repair and Cancer Therapy

Maria Vicent

Polymer Therapeutics Lab, Prince Felipe Research Centre, Spain

4:10-4:20 PM

Coffee Break/Poster Viewing

Session V: Drug Delivery

Co-Chairs:

Natalya Rapoport

Department of Bioengineering, University of Utah, USA

Arash Hatefi

Department of Pharmaceutics, Rutgers, The State University of New Jersey, USA

4:20-4:50 PM

Novel Design Concepts for Nucleic Acid Nanocarriers

You Han Bae

Department of Pharmaceutical Chemistry, University of Utah, USA

4:50-5:20 PM

Safe and Stable Peptide Nanomedicines Prepared using Phospholipid Micelles

Hayat Onyuksel

Department of Biopharmaceutical Sciences, University of Illinois at Chicago, USA

5:20-5:50 PM

Tyrosine-Derived Nanoparticles for the Topical Treatment of Psoriasis

Bozena Michniak

Department of Pharmaceutics, Rutgers, The State University of New Jersey, USA

5:50 -6:50 PM

Refreshments/Poster Viewing

7:00 PM

Banquet

Officers Club, 150 S Fort Douglas Blvd

Sunday, October 16, 2011 (Officer's Club)

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Session VI: Translational Nanomedicine

Co-Chairs:

Alexander Kabanov

College of Pharmacy, University of Nebraska Medical Center, USA

Paul Shami

Department of Hematology, University of Utah, USA

9:00-9:40 AM

Plenary Lecture

Clinical Significance of Iron Oxide Nanoparticles and the Blood Brain Barrier

Edward Neuwelt

Blood-Brain Barrier and Neuro-Oncology Program, Oregon Health & Science University, USA

9:40-10:10 AM

Development of Highly Active Lipid-Based Nanotherapeutics

Daryl Drummond

Merrimack Pharmaceuticals, USA

10:10-10:20 AM

Coffee Break/Poster Viewing

10:20-10:50 AM

Nanoparticle Drug Delivery Systems which Employ the Vitamin B12 Uptake Mechanisms

David Nowotnik

Access Pharmaceuticals, Inc., USA

10:50-11:20 AM

Using Ultrasound and Microbubbles to Temporarily Disrupt the Blood-Brain Barrier for Targeted Drug Delivery

Nathan McDannold

Brigham and Women's Hospital, Harvard Catalyst, USA

11:20-12:00 PM

Lunch Box/Poster Viewing

Session VII: Drug Delivery

Co-Chairs:

Ilya Zharov

Department of Chemistry, University of Utah, USA

Darin Furgeson

Department of Pharmaceutical Chemistry, University of Utah, USA

12:00-12:30 PM

Porous Silica Nanomaterials for Efficient Drug Delivery and Improving Cytotoxicity of Anticancer Drugs

Tewodros Asefa

Department of Chemistry & Chemical Biology, Rutgers University, USA

12:30-1:00 PM

Multivalent Trisnitrilotriacetic Acids in Nanomedicine: Structure Optimization, In Vitro Applications, and In Vivo Challenges

Zhaohua Huang

Merimack Pharmaceuticals, USA

1:00-1:30PM

Student Award Winning Poster Presentations

Three presentations @ 10 min each starting with 3rd, 2nd and finishing with 1st

Co-Chairs:

Margit Janat Amsbury

Department of Medicine, University of Utah, USA

Tamara Minko

Department of Pharmaceutics, Rutgers, The State University of New Jersey, USA

1:30-1:45 PM

Closing Remarks: Tamara Minko, Alexander Kabanov