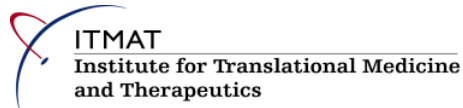




Center for Targeted Therapeutics and Translational Nanomedicine

CT³N Symposium 2019



Wednesday, December 4, 2019

**Perelman School of Medicine, University of Pennsylvania
Biomedical Research Building, Gaulton Auditorium and Lobby
421 Curie Boulevard, Philadelphia, PA 19104**

Wednesday December 4, 2019

8:15- 8:45 a.m.	Registration and Breakfast	Gaulton Lobby
8:45- 9:00 a.m.	Welcome & Introduction Andrew Tsourkas, PhD , CT ³ N Co-Director, Co-Director, Chemical and Nanoparticle Synthesis Core, Professor of Bioengineering and Radiology, School of Engineering and Applied Science, University of Pennsylvania	Gaulton Auditorium
	<u>Session I</u>	
	<u>Keynote Lecture</u> <i>Session Chair: Vladimir Muzykantov, MD, PhD, Co-Director, CT³N, Professor of Pharmacology and Medicine, Vice-Chair of Faculty Development, Department of Pharmacology, Perelman School of Medicine, University of Pennsylvania</i>	
9:00- 9:50 a.m.	<i>Discovery and Translation of the Cell Membrane Coating Nanotechnology</i> Liangfang Zhang, PhD , Professor of Nanoengineering, Bioengineering, and Chemical Engineering, University of California San Diego	

Session II

Cell-Derived Drug Delivery Technologies

Session Chair: Kara L. Spiller, PhD, Associate Professor, School of Biomedical Engineering, Science, and Health Systems, Drexel University

9:50- 10:25 a.m.

Trojan Horses of the 21st Century: Targeted Delivery of Therapeutics in Macrophages to the Brain

Elena Batrakova, PhD, Associate Professor, Center for Nanotechnology in Drug Delivery Division of Pharmacoengineering & Molecular Pharmaceutics, University of North Carolina at Chapel Hill

10:25- 11:00 a.m.

Extracellular Vesicles for Therapeutic and Diagnostic Use

Joy Wolfram, PhD, Assistant Professor of Medicine, Mayo Clinic Florida

11:00 - 11:15 a.m.

Coffee Break

Gaulton Lobby

Session III

Biomaterials and Nanocarriers

Session Chair: Michael Chorny, PhD, Associate Director of CT³N, Research Associate Professor of Pediatrics, Children's Hospital of Philadelphia

Gaulton Auditorium

11:15- 11:50 a.m.

Nanotechnology Law for Commercialization of Nano-Enabled Products

Ilise Feitshans, JD, ScM, DIR, Fellow in International Law of Nanotechnology, European Scientific Institute, Archamps Technopole, University of Grenoble

11:50- 12:25 p.m.

Designing Compatibility: Polymer Nanomaterials for the Treatment of Soft Tissue Diseases

Thomas Dziubla, PhD, Professor and Chair, Department of Chemical and Materials Engineering, University of Kentucky

12:25- 1:00 p.m.

Nanoparticle Design for Targeting to Caveolae and Neutrophils

Jacob Myerson, PhD, Research Associate, Department of Pharmacology, University of Pennsylvania

1:00- 2:15 p.m.

Lunch, Poster Viewing, and Networking

Gaulton Lobby

Session IV

Antibody Therapeutics and Engineering

Gaulton Auditorium

Session Chair: Hans E. Huber, PhD, Associate Director of CT³N, Adjunct Professor of Pharmacology, Perelman School of Medicine, University of Pennsylvania

2:15- 2:50 p.m.

Drug-like Antibodies by Design and Directed Evolution

Peter M. Tessier, PhD, Albert M. Mattocks Professor, Departments of Pharmaceutical Sciences, Chemical Engineering and Biomedical Engineering, Biointerfaces Institute, University of Michigan

2:50- 3:25 p.m.

The Use of Virus-like Particles to Isolate Highly Specific Claudin 6 Antibodies for Targeting Solid Tumors

Benjamin Doranz, PhD, MBA, President and CEO, Integral Molecular, Philadelphia

3:25- 4:00 p.m.

Targeting Tumor Metastasis with Engineered Multispecific Antibodies

Jamie Spangler, PhD, Assistant Professor, Biomedical and Chemical & Biomolecular Engineering, Johns Hopkins University

4:00- 4:15 p.m.

Coffee Break

Gaulton Lobby

Session V

Keynote Lecture

Gaulton Auditorium

Session Chair: Andrew Tsourkas, PhD

4:15- 5:05 p.m.

Using Fluorescence Microscopy to Inform the Design of Antibody-Based Therapeutics

Sally Ward, PhD, Professor, Department of Microbial Pathogenesis & Immunology, University of Southampton (UK) and Texas A&M University Health Science Center

5:05- 5:10 p.m.

Closing Remarks

Vladimir Muzykantov, MD, PhD

5:10 – 6:10 p.m.

Reception

Gaulton Lobby