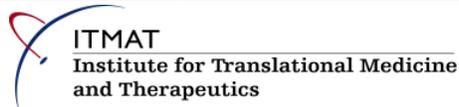




# Center for Targeted Therapeutics and Translational Nanomedicine

## CT<sup>3</sup>N Symposium 2018



Wednesday, December 5, 2018

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

### Wednesday December 5, 2018

8:15- 8:45 a.m.	<b>Registration and Breakfast</b>	Gaulton Lobby
8:45- 9:00 a.m.	<b>Welcome &amp; Introduction</b> <b>Andrew Tsourkas, PhD</b> , CT <sup>3</sup> 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
<b><u>Session I:</u></b>		
<b><u>Keynote Lecture</u></b> <i>Session Chair: Andrew Tsourkas, PhD</i>		
9:00- 9:50 a.m.	<b><i>Rational Vaccinology: In Pursuit of the Perfect Vaccine</i></b> <b>Chad Mirkin, PhD</b> , George B. Rathmann Professor of Chemistry and Director, International Institute for Nanotechnology, Northwestern University	
<b><u>Session II:</u></b>		
<b><u>Immune Response Engineering and Therapy</u></b> <i>Session Chair: Theresa M. Busch, PhD, CT<sup>3</sup>N Advisory Board Member, Research Professor of Radiation Oncology, Perelman School of Medicine, University of Pennsylvania</i>		
9:50- 10:20 a.m.	<b><i>Engineering Nanotechnology for Immuno-Oncology: Harnessing Innate Immunity to Enhance Cancer Immunotherapy</i></b> <b>John T. Wilson, PhD</b> , Assistant Professor of Chemical and Biomolecular Engineering, Vanderbilt University	

10:20- 10:50 a.m.	<b><i>Dual-Function Oligonucleotides for Immunotherapy of “Cold” Prostate Cancers</i></b>	
	<b>Marcin Kortylewski, PhD</b> , Associate Professor of Immuno-Oncology, City of Hope	
10:50- 11:05 a.m.	<b>Coffee Break</b>	Gaulton Lobby
<b><u>Session III</u></b>	<b><u>Tissue Targeting and Engineering</u></b>	Gaulton Auditorium
	<i>Session Chair: Hans E. Huber, PhD, Associate Director of CT<sup>3</sup>N, Adjunct Associate Professor of Pharmacology, Perelman School of Medicine, University of Pennsylvania</i>	
11:05- 11:35 a.m.	<b><i>Oligonucleotide Therapeutics: Now on Target</i></b>	
	<b>Arthur A. Levin, PhD</b> , Executive Vice President of Research and Development, Avidity Biosciences	
11:35- 12:05 p.m.	<b><i>There’s Plenty of Room in the Belly: Efficient Cell Targeting in Visceral Tissues</i></b>	
	<b>Andrew M. Smith, PhD</b> , Associate Professor of Bioengineering and Associate Head of Undergraduate Programs, University of Illinois at Urbana-Champaign	
12:05- 12:35 p.m.	<b><i>Non-Genetic Engineering of Cell-Cell Interactions with Protein Nanorings</i></b>	
	<b>Carston R. Wagner, PhD</b> , Professor and Endowed Chair in Medicinal Chemistry, University of Minnesota	
12:35- 1:50 p.m.	<b>Lunch, Poster Viewing, and Networking</b>	Gaulton Lobby
<b><u>Session IV</u></b>	<b><u>Drug Delivery Vehicles and Devices</u></b>	Gaulton Auditorium
	<i>Session Chair: Michael Chorny, PhD, Associate Director of CT<sup>3</sup>N, Research Associate Professor of Pediatrics, Children’s Hospital of Philadelphia</i>	
1:50- 2:20 p.m.	<b><i>Long-Acting Implants: Design for Durable Drug Delivery</i></b>	
	<b>Seth Forster, MS</b> , Associate Principal Scientist, Merck Research Laboratories	
2:20- 2:50 p.m.	<b><i>Design and Development Synthetic High Density Lipoprotein Nanomedicines</i></b>	
	<b>Anna Schwendeman, PhD</b> , Assistant Professor of Pharmaceutical Sciences, Biointerfaces Institute, College of Pharmacy, University of Michigan	

2:50- 3:20 p.m.	<b><i>Using Blood-Brain Barrier Characteristics to Target the CNS: An Emphasis on Exosomes</i></b>	
	<b>William A. Banks, MD, FACE</b> , Professor, Division of Gerontology and Geriatric Medicine, Department of Internal Medicine, University of Washington and Associate Chief of Staff, Research and Development, Puget Sound VA	
3:20- 3:35 p.m.	<b>Coffee Break</b>	Gaulton Lobby
3:35- 4:05 p.m.	<b><i>Utilizing miRNA-enriched MSC Exosomes for Cardiac Regeneration: An Activity-Composition Analysis</i></b>	Gaulton Auditorium
	<b>Juliane Nguyen, Pharm D, PhD</b> , Assistant Professor, Department of Pharmaceutical Sciences, School of Pharmacy, University at Buffalo	
<b><u>Session V</u></b>	<b><u>Keynote Lecture</u></b>	
	<i>Session Chair: Vladimir Muzykantov, MD, PhD, Co-Director, CT<sup>3</sup>N, Professor of Pharmacology and Medicine, Vice-Chair of Faculty Development, Department of Pharmacology, Perelman School of Medicine, University of Pennsylvania</i>	
4:05- 4:55 p.m.	<b><i>Developing T-Cell Therapy for the Masses</i></b>	
	<b>Matthias Stephan, MD, PhD</b> , Associate Member, Program in Immunology, Clinical Research Division, Fred Hutchinson Cancer Research Center	
4:55- 5:00 p.m.	<b>Closing Remarks</b> <b>Vladimir Muzykantov, MD, PhD</b>	
5:00- 6:00 p.m.	<b>Reception</b>	Gaulton Lobby