Targeted Therapeutics and Translational Nanomedicine
2012 SYMPOSIUM

Tuesday, November 27, 2012
Perelman School of Medicine
University of Pennsylvania
Smilow Center for Translational Research Lobby & Auditorium
3400 Civic Center Blvd., Philadelphia, PA 19104

8:15-9:00 a.m. Registration and Breakfast
(All posters to be set up by 9:00am) SCTR Lobby

9:00am-9:15 a.m. Welcome
Garret A. FitzGerald, MD, Chair, Department of Pharmacology, Director, Institute for Translational Medicine and Therapeutics, University of Pennsylvania

Introduction
Vladimir Muzykantov, MD, PhD, Professor of Pharmacology and Medicine, Vice-Chair Dept. of Pharmacology, Director Center for Targeted Therapeutics and Translational Nanomedicine, University of Pennsylvania

SESSION I: Targeted delivery of drugs and probes
Session Chair: Robert Levy, Ph.D., Professor of Pediatrics, Children’s Hospital of Philadelphia

9:15-10:15 a.m. Keynote: Philip Low, Ph.D. Ralph C. Corley Distinguished Professor, Department of Chemistry, Purdue University “Ligand-Targeted therapeutics and imaging agents”

10:15-10:45 a.m. Millicent O. Sullivan, Ph.D., Assistant Professor Dept. of Chemical and Biomolecular Engineering, University of Delaware "Mechanisms of intracellular trafficking and nuclear DNA delivery by histone-derived peptides”

10:45-11:15 a.m. David Eckmann, Ph.D., M.D., Horatio C. Wood Professor of Anesthesiology and Critical Care, Professor of Bioengineering, University of Pennsylvania Hemodynamics and Nanocarrier Design Factors Influencing Endothelial Targeting

11:15-11:35 a.m. Colin Greineder, M.D., Instructor, Dept. of Emergency Medicine, Ph.D. Candidate, Dept. of Pharmacology, University of Pennsylvania “Enhancing Endogenous Mechanisms of Endothelial Protection by Targeted Delivery of Thrombomodulin and EPCR”
11:35-11:55 a.m.  Ann-Marie Chacko, Ph.D., Research Associate, Clinical Molecular Imaging and Nuclear Medicine, Department of Radiology, University of Pennsylvania

“Immunotargeted Probes for PET Imaging of Ovarian Cancer”

12:00-2:00 p.m.  Lunch & Poster Session

(All posters must be removed by 1:45pm)

SCTR Lobby

1:00-1:45 p.m.  NIH vision and support of research in CT3N areas

Moderator: Dennis Discher, Ph.D., Robert D. Bent Professor of Chemical Engineering, University of Pennsylvania

Denis Buxton, Ph.D., Associate Director, Basic and Early Translational Research Program Division of Cardiovascular Sciences, NHLBI; Dorothy Farrell, Ph.D. Nanotechnology Development Projects Manager, NCI [Audio: Steven Zullo, Ph.D., Program Director, Drug and Gene Delivery and Devices, DDST, NIBIB]

SESSION II: Translational Nanomedicine

Session Chair: Andrew Tsourkas, Ph.D., Associate Professor of Bioengineering, University of Pennsylvania

2:00-2:30 p.m.  Karyn O’Neil, Ph.D., Sr. Director and Scientific Leader, Janssen R&D

A Novel Protein Scaffold for Biotherapeutics

2:30-3:00 p.m.  David Cormode, DPhil, Assistant Professor of Radiology, University of Pennsylvania

“Inorganic nanoparticles as contrast agents and therapeutic delivery agents in cardiovascular disease”

3:00-3:30 p.m.  Michael Chorny, Ph.D., Research Assistant Professor of Pediatrics, The Division of Cardiology, The Children's Hospital of Philadelphia,

“Magnetic Nanoparticles for targeted vascular delivery”

3:30-4:00 p.m.  Ho-Lun Wong, Ph.D., B.Pharm, Assistant Professor, Dept. of Pharmaceutical Sciences, Temple University

“Nanocarriers for siRNA biotherapeutics”

4:00-4:20 p.m.  Nisha Sosale, Ph.D. Candidate, Dept. of Chemical and Biomolecular Engineering, University of Pennsylvania

Lentiviral Vectors Nano-Engineered with ‘Marker of Self’ CD47 to Avoid Immune Surveillance
4:30-5:30 p.m.  
**Keynote:** Jennifer L. West, Ph.D. Fitzpatrick Family University Professor of Engineering, Duke University  
*Translation of new targeted nanodevices from bench to the bedside*

5:30-6:30 p.m.  
**Reception**  
TRC Lobby