

## Carolina Nanoformulation Workshop 2017 Schedule

**Day 1, March 13, 2017.**

<b>8:45-9:00 am</b>		
<b>Opening remarks, Alexander Kabanov, PhD, DSci, UNC-Chapel Hill</b>		
<b>Session 1: Challenges and Opportunities in Nanomedicine</b>		
9:00-9:45am	Computational Landscape of Pharmaceutical Drug Development	Yuri Abramov, PhD, Pfizer
9:50-10:35am	Computer modeling of drug delivery systems	Alex Tropsha, PhD, UNC-Chapel Hill
<b>10:35-10:50am Coffee Break</b>		
10:50-11:35am	Antibody-drug conjugates	Peter Senter, PhD, Seattle Genetics
11:40-12:25pm	Sustain delivery applications in nano and microparticles	Rahima Benhabbour, PhD, UNC Chapel Hill
<b>12:30-1:30pm Lunch Break</b>		
<b>Session 2: Safety, Characterization &amp; Regulation</b>		
1:35-2:20pm	Toxicology of nano	Rogério Gaspar, PhD, University of Lisbon, Portugal
2:25-3:10pm	Regulatory aspects of nano	Rogério Gaspar, PhD, University of Lisbon, Portugal
<b>3:10-3:25pm Coffee Break</b>		
3:25-4:10pm	Characterization aspects of nano	Wen Lei Jiang, PhD, US FDA
<b>4:15-5pm Speakers' Roundtable Discussion</b>		
<b>5:30pm - Welcome Reception, Marsico 2004</b>		

**Day 2, March 14, 2017.**

<b>Session 3: Nanomaterials &amp; Nanofabrications</b>		
9:00-9:45am	Design of materials & polymers for drug delivery	Judy Riffle, PhD, Virginia Tech
9:50-10:35am	Inactive Pharmaceutical Ingredients and GRAS Components in Nano Formulations and Related (505)(b)(2)	Valery Alakhov, PhD, KVALAS Group.
<b>10:35-10:50am Coffee Break</b>		
10:50-11:35am	Nanoprecipitation for drug and gene delivery	Robert Prud'homme, PhD, Princeton University
11:40-12:25pm	Microfluidics for drug and gene delivery	Andrea Armstead, PhD, Precision Nanoscience

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<b>12:30-1:30pm Lunch Break</b>		
<b>Session 4: Barriers to Nanomedicine Delivery</b>		
1:35-2:20pm	Nanoparticles and tumor penetration	Kazunori Kataoka, PhD, University of Tokyo, Japan
2:25-3:10pm	PK & Bio-distribution considerations in nanodelivery	William Zamboni, PhD, UNC- Chapel Hill
<b>3:10-3:25pm Coffee Break</b>		
3:25-4:10pm	Drugs and biomolecules delivery to CNS	William Banks, MD, University of Washington
<b>4:15-5pm Speakers' Roundtable Discussion</b>		

**Day 3, March 15, 2017.**

<b>Session 5: Nanoparticles for Drug Delivery &amp; Vaccines</b>		
9:00-9:45am	Nanoparticles approach to sRNA delivery	Dan Anderson, PhD, MIT
9:50-10:35am	PLGA particles for drug and vaccine delivery	Zach Rodgers, PhD, UNC- Chapel Hill
<b>10:35-10:50am Coffee Break</b>		
10:50-11:35am	Nanogels	Tatiana Bronich, PhD, UNMC
11:40-12:25pm	Nanoparticles as vaccines	Jenny Ting, PhD, UNC-Chapel Hill
<b>12:30-1pm Lunch Break</b>		
<b>Session 6: Translation</b>		
1:35-2:20pm	Preclinical development of nanoformulations	Luis Santos, PhD, MedImmune
2:25-3:10pm	Tech transfer from bench to bedside	Valery Alakhov, PhD, KVALAS Group.
<b>3:15-4pm Speakers' Roundtable Discussion</b>		

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**Day 4, March 16, 2017.**

<b>Liposomes and PLGA nanoparticles assembly through microfluidics</b>		
<b>Session 1:</b> 9:00-12:25am	Liposomes assembly: particles formulation and characterization.	<b>Andrea Armstead, PhD Field Applications Scientist Precision NanoSystems Inc</b>
<b>12:30-1:30 pm Lunch Break</b>		
<b>Session 2:</b> 1:35-4pm	PLGA particles assembly: particles formulation and characterization.	<b>Andrea Armstead, PhD Field Applications Scientist Precision NanoSystems Inc</b>
<b>4:15-5pm Roundtable Discussion with Andrea Armstead, PhD, Field Applications Scientist Precision NanoSystems Inc</b>		

**Day 5, March 17, 2017.**

<b>Session 1:</b> 9:00-12:25pm	Emulsion and nanoparticles assembly through Nanoprecipitation Mixing Technique.	<b>Chester E. Markwalter PhD Candidate, Princeton University Dept. of Chemical and Biological Engineering</b>
<b>12:30-1:30 pm Lunch Break</b>		
<b>1:30-2:15pm Roundtable Discussion with Chester E. Markwalter, PhD Candidate, Princeton University Dept of Chemical and Biological Engineering</b>		
<b>Session 2:</b> 2:15-4:15pm	Additional size characterization technique: Nanoparticles Tracking Analysis (NTA).	<b>Kevin Day, Center for Nanotechnology in Drug Delivery</b>
<b>4:15-5pm Roundtable Discussion with Kevin Day, Center for Nanotechnology in Drug Delivery</b>		