

Nanotechnology Kick-off meeting, Nov 19-20, 2015

Bethesda, NIH, Porter Building, Room 620

Final Agenda

November 19

- 8:40 a.m. – 9:00 a.m. **Welcome and Introduction**
Piotr Grodzinski, Ph.D.
National Cancer Institute, NIH

Jerry S.H. Lee, Ph.D.
National Cancer Institute, NIH
- 9:00 a.m. – 12:20 p.m. **Session I**
Chair: Christina Liu, Ph.D.
National Cancer Institute, NIH
- 9:00 a.m. – 9:30 a.m. **Nanosystems Biology Cancer Center**
James Heath, Ph.D.
California Institute of Technology
Center of Cancer Nanotechnology Excellence
- 9:30 a.m. – 9:50 a.m. **Interdisciplinary Translational Pre/Postdoctoral Program in Cancer Nanotechnology**
Konstantin Sokolov, Ph.D.
University of Texas MD Anderson Cancer Center
Cancer Nanotechnology Training Center
- 9:50 a.m. – 10:10 a.m. **Stroma Breaking Theranostic Nanoparticle for Targeted Pancreatic Cancer Therapy**
Lily Yang, M.D., Ph.D.
Emory University
Innovative Research in Cancer Nanotechnology
- 10:10 a.m. – 10:30 a.m. **The Rodent Eye as a Non-Invasive Window for Understanding Cancer Nanotherapeutics**
Kit Lam, M.D., Ph.D.
University of California, Davis
Innovative Research in Cancer Nanotechnology
- 10:30 a.m. – 10:45 a.m. **Welcome from NCI Director**
Douglas Lowy, M.D.
National Cancer Institute, NIH
- 10:45 a.m. – 11:00 a.m. **Break**
- 11:00 a.m. – 11:20 a.m. **Treatment of Glioblastoma Using Chain-like Nanoparticles**
Efsthathios Karathanasis, Ph.D. and Jeremy Rich, M.D.
Case Western Reserve University and the Cleveland Clinic
Innovative Research in Cancer Nanotechnology
- 11:20 a.m. – 11:40 a.m. **Carolina Cancer Nanotechnology Training Program (C-CNTP)**
Andrew Wang, M.D.

University of North Carolina at Chapel Hill
Cancer Nanotechnology Training Center

- 11:40 a.m. – 12:10 p.m. **Nucleic Acid-Based Nanoconstructs for the Treatment of Cancer**
Milan Mrksich, Ph.D.
Northwestern University
Center of Cancer Nanotechnology Excellence
- 12:10 p.m. – 12:30 p.m. **UCLA Multifunctional Mesoporous Silica Nanoparticle Platform for Treatment of Pancreas Cancer**
Andre Nel, M.D., Ph.D.
University of California, Los Angeles
Innovative Research in Cancer Nanotechnology
- 12:30 p.m. – 1:30 p.m. **Lunch**
- 1:30 p.m. – 5:15 p.m. **Session 2 – Opportunities for Collaboration with NCI in Cancer Nanotechnology**
Chair: Dorothy Farrell, Ph.D.
National Cancer Institute, NIH
- 1:30 p.m. – 1:45 p.m. **Data Sharing – Tools and Opportunities**
Stephanie Morris, Ph.D.
National Cancer Institute
- 1:45 p.m. – 2:15 p.m. **The caNanoLab Database**
Sharon Gaheen
Leidos Biomedical Research
- 2:15 p.m. – 2:45 p.m. **The Nanotechnology Characterization Laboratory**
Scott McNeil, Ph.D.
Frederick National Laboratory for Cancer Research
- 2:45 p.m. – 3:15 p.m. **The Center for Advancing Preclinical Research**
Serguei Kozlov, Ph.D.
Frederick National Laboratory for Cancer Research
- 3:15 p.m. – 3:45 p.m. **Break**
- 3:45 p.m. – 4:15 p.m. **Training in Cancer Nanotechnology**
- 4:15 p.m. – 4:45 p.m. **Potential Collaboration Partners at the NCI Center for Cancer Research and the NIH Clinical Center**
Peter Choyke, M.D., F.A.C.R.
Molecular Imaging Program, NCI Center for Cancer Research

Bruce Shapiro, Ph.D.
Gene Regulation and Chromosome Biology Laboratory, NCI Center for Cancer Research
See also poster presentations

4:45 p.m. – 5:15 p.m. **Nanotechnology Startup Challenge in Cancer**
Rosemarie Truman
Center for Advancing Innovation

5:15 p.m. – 5:30 p.m. Break

5:30 p.m. – 7:00 p.m. **Poster Session**
Hands-on caNanoLab Submission Training (data coordinators)
Coordination and Governance Committee (by invitation only)

November 20

- 8:30 a.m. – 12:00 p.m. **Session 3**
Chair: Natalie Abrams, Ph.D.
National Cancer Institute, NIH
- 8:30 a.m. – 9:10 a.m. **Keynote Address**
Nano-ChIP-Seq Chromatin Profiles of Effective Anti-Tumor T Cells
Nicholas P. Restifo, M.D.
National Cancer Institute, NIH
- 9:10 a.m. – 9:40 a.m. **MSKCC-Cornell Center for Translation of Cancer Nanomedicines**
Michelle Bradbury, M.D., Ph.D. and Uli Wiesner, Ph.D.
Memorial Sloan Kettering Cancer Center and Cornell University
Center of Cancer Nanotechnology Excellence
- 9:40 a.m. – 10:00 a.m. **Cancer-Translational Nanotechnology Training Program (Cancer-TNT)**
Jianghong Rao, Ph.D.
Stanford University
Cancer Nanotechnology Training Center
- 10:00 a.m. – 10:30 a.m. **Break**
- 10:30 a.m. – 11:00 a.m. **Nano Approaches to Modulate Host Cell Response for Cancer Therapy**
Leaf Huang, Ph.D.
University of North Carolina Chapel Hill
Center of Cancer Nanotechnology Excellence
- 11:00 a.m. – 11:20 a.m. **Thermoresponsive NanoVelcro CTC Purification System for Prostate Cancer Profiling**
Hsian-Rong Tseng, Ph.D. and Edwin Posadas, M.D.
University of California, Los Angeles
Innovative Research in Cancer Nanotechnology
- 11:20 a.m. – 11:40 a.m. **Cancer Nanotechnology Training Program**
Gayle Woloschak
Northwestern University
Cancer Nanotechnology Training Center
- 11:40 a.m. – 12:00 p.m. **Nanoscale Metal-Organic Frameworks for Light Triggered and X-ray Induced Photodynamic Therapy of Head and Neck Cancer**
Wenbin Lin, Ph.D.
University of Chicago
Innovative Research in Cancer Nanotechnology
- 12:00 p.m. – 1:00 p.m. **Lunch**

- 1:00 p.m. – 3:00 p.m. **Session 4**
Chair: Christopher Hartshorn, Ph.D.
National Cancer Institute, NIH
- 1:00 p.m. – 1:30 p.m. **Center for Multiple Myeloma Nanotherapy**
Samuel Achilefu, Ph.D.
Washington University in St. Louis
Center of Cancer Nanotechnology Excellence
- 1:30 p.m. – 1:50 p.m. **Targeted Core Shell Nanogels for Triple Negative Breast Cancer**
Alexander Kabanov, Ph.D.
The University of North Carolina at Chapel Hill
Innovative Research in Cancer Nanotechnology
- 1:50 p.m. – 2:10 p.m. **T32: Predoctoral and Postdoctoral Training Program in Nanotechnology for Cancer Research**
Denis Wirtz, Ph.D.
Johns Hopkins University
Cancer Nanotechnology Training Center
- 2:10 p.m. – 2:40 p.m. **Center for Cancer Nanotechnology Excellence for Translational Diagnostics (CCNE-TD)**
Sanjiv Sam Gambhir, M.D., Ph.D.
Stanford University
Center of Cancer Nanotechnology Excellence
- 2:40 p.m. – 3:00 p.m. **Summary and Closing Comments**
Piotr Grodzinski, Ph.D.
National Cancer Institute, NIH
- 3:00 p.m. **Adjournment**