

2019 NCI Alliance for Nanotechnology in Cancer PI Meeting Agenda

Day 1, Tuesday, September 24th

8:30 a.m. - 9:00 a.m. Welcome and Introduction
Douglas Lowy, M.D., Acting Director, National Cancer Institute (NCI)
Janet Eary, M.D., Associate Director, Cancer Imaging Program (CIP), DCTD, NCI
Piotr Grodzinski, Ph.D., Branch Chief, NSDB/CIP/DCTD, NCI

Session I

Moderator: *Piotr Grodzinski, Ph.D., National Cancer Institute*

9:00 a.m. – 9:35 a.m. ISB/UCLA/Caltech Center Highlights and Takeaways, U54
James Heath, Ph.D., Institute for Systems Biology

9:35 a.m. – 10:10 a.m. MSKCC-Cornell Center Highlights and Takeaways, U54
Michelle Bradbury, Ph.D., M.D., Memorial Sloan Kettering Cancer Center

10:10 a.m. - 10:30 a.m. Break (20 minutes)

10:30 a.m. – 11:15 a.m. Keynote Presentation: Nanomedicine: Past, Present, and Future
Omid Farokhzad, M.D., M.B.A., Brigham and Women's Hospital

11:15 a.m. – 12:00 p.m. Keynote Presentation: Most Pressing Needs in Cancer Research and Oncology in Context of New Technology Development
Phuoc Tran, M.D., Ph.D., Johns Hopkins University

12:00 p.m. - 1:15 p.m. Lunch

Session II

Moderator: *Christopher Hartshorn, Ph.D., National Cancer Institute*

1:15 p.m. – 1:35 p.m. Effective Delivery of a Therapeutic Monoclonal Antibody to Metastases in the Central Nervous System of Mice via Polymer Encapsulation and Receptor Targeting, R01
Masakazu Kamata, Ph.D., UCLA

1:35 p.m. – 1:55 p.m. Novel Approach to Attenuate Small Lung Cancer Growth and Metastasis, R01
Wasim Nasser, Ph.D., University of Nebraska Medical Center

1:55 p.m. – 2:15 p.m. Wireless Nano-optogenetic Immunotherapy, R01
Gang Han, Ph.D., University of Massachusetts Worcester

2:15 p.m. – 2:45 p.m. Imaging the Delivery and Action of Nanomaterials In Vivo: an Update of MGH IRCN Progress, U01
Miles Miller, Ph.D., Massachusetts General Hospital

2:45 p.m. – 3:15 p.m. Break and Cake Alliance Celebration (30 minutes)

3:15 p.m. – 4:55 p.m. T32 Training Program Overviews
Jianghong Rao, Ph.D., Stanford University CNTC
Konstantin Sokolov, Ph.D., The University of Texas MD Anderson CNTC

Alexander Stegh, Ph.D., Northwestern University CNTC

Andrew Kummel, Ph.D., University of California, San Diego CNTC

Alexander Kabanov, Ph.D., The University of North Carolina at Chapel Hill CNTC

5:15 p.m. – 6:15 p.m.

Coordination and Governance Committee Meeting (by invitation only), Rm. 2W910

Day 2, Wednesday, September 25th

Session III

Moderator: *Christopher Hartshorn, Ph.D., National Cancer Institute*

9:00 a.m. – 9:35 a.m.

UNC Chapel Hill Center Highlights and Takeaways, U54
Leaf Huang, Ph.D., University of North Carolina at Chapel Hill

9:35 a.m. – 10:10 a.m.

Washington University Center Highlights and Takeaways, U54
Samuel Achilefu, Ph.D., Washington University in St. Louis

10:10 a.m. – 10:30 a.m.

Break (20 minutes)

10:30 a.m. – 11:05 a.m.

Northwestern University Center Highlights and Takeaways, U54
Chad Mirkin, Ph.D., Northwestern University

11:05 a.m. – 11:35 a.m.

Use of a Silicasome Nanoparticle Platform for Treatment of Pancreatic Ductal Adenocarcinoma, U01
Huan Meng, Ph.D., UCLA

11:35 a.m. - 11:55 a.m.

Whitlockite Nanoparticle-based Immunotherapy for Bone Metastasis, R01
Shiladitya Sengupta, Ph.D., Brigham and Women's Hospital

11:55 a.m. - 1:10 p.m.

Lunch

Session IV

Moderator: *Luisa Russell, Ph.D., National Cancer Institute*

1:10 p.m. - 1:30 p.m.

UNC CCNE Clinical/Scientific Highlight
Andrew Wang, M.D., University of North Carolina at Chapel Hill

1:30 p.m. – 1:50 p.m.

Northwestern CCNE Clinical/Scientific Highlight
Andrew Lee, Ph.D., Northwestern University

1:50 p.m. - 2:10 p.m.

WUSTL CCNE Clinical/Scientific Highlight
Gregory Lanza, M.D., Ph.D., Washington University in St. Louis

2:10 p.m. – 2:30 p.m.

Stanford CCNE Clinical/Scientific Highlight
Alice Fan, M.D., Stanford University

2:30 p.m. – 2:50 p.m.

MSKCC-Cornell CCNE Clinical/Scientific Highlight
Michelle Bradbury, Ph.D., M.D., Memorial Sloan Kettering Cancer Center

2:50 p.m. - 3:10 p.m.

ISB/UCLA/Caltech CCNE Clinical/Scientific Highlight
Wei Wei, Ph.D., Institute for Systems Biology

3:10 p.m. – 3:30 p.m.	Break (20 minutes)
3:30 p.m. – 3:50 p.m.	Nanoparticles for the Treatment of Intraperitoneal Mesothelioma: Enhancing Tumor Localization and Increasing Drug-Loading for Improved Efficacy, R01 <i>Mark Grinstaff, Ph.D., Boston University</i>
3:50 p.m. – 4:20 p.m.	The Rodent Eye as a Non-invasive Window for Understanding Cancer Nanotherapeutics, U01 <i>Kit Lam, M.D., Ph.D., UC Davis</i>
4:20 p.m. – 4:40 p.m.	Folate-displaying Exosome Mediated Cytosolic Delivery of siRNA Avoiding Endosome Trapping, U01 <i>Peixuan Guo, Ph.D., Ohio State</i>
4:40 p.m. – 5:00 p.m.	Alliance Achievements by the Numbers <i>Piotr Grodzinski, Ph.D., National Cancer Institute</i>
5:00 p.m. – 6:00 p.m.	Poster Session, 2nd Floor Atrium

Day 3, Thursday, September 26th

Session V

Moderator: *Christina Liu, Ph.D. P.E., National Cancer Institute*

9:00 a.m. – 9:35 a.m.	Stanford Center Highlights and Takeaways, U54 <i>Shan Wang, Ph.D., Stanford University</i>
9:35 a.m. – 10:05 a.m.	Nanostructure-Embedded Microchips for Liquid Biopsy in Cancer, U01 <i>Hsian-Rong Tseng, Ph.D., UCLA, and Edwin Posadas, M.D., Cedars-Sinai Medical Center</i>
10:05 a.m. – 10:25 a.m.	Break (20 minutes)
10:25 a.m. – 10:55 a.m.	Targeted Core Shell Nanogels for Triple Negative Breast Cancer, U01 <i>Alexander Kabanov, Ph.D., University of North Carolina at Chapel Hill</i>
10:55 a.m. – 11:25 a.m.	Co-delivery of Targeted Stroma-breaking Theranostic Nanoparticle and Immune Checkpoint Nano-PD-L1 Inhibitor for the Treatment of Pancreatic Cancer, U01 <i>Lily Yang, M.D., Ph.D., Emory University</i>
11:25 a.m. – 11:55 a.m.	Nanoscale Metal-organic Frameworks for Light Triggered and X-ray Induced Photodynamic Therapy of Head and Neck Cancers, U01 <i>Wenbin Lin, Ph.D., University of Chicago</i>
11:55 a.m. - 12:25 p.m.	Delivery of Drugs to Brain Tumors using Multicomponent Nanoparticles, U01 <i>Efstathios Karathanasis, Ph.D., Case Western Reserve University</i>
12:25 p.m. - 12:55 p.m.	Poster Prizes and Closing Comments <i>Piotr Grodzinski, Ph.D., National Cancer Institute</i>
1:00 p.m.	Adjournment