

AGENDA

Translational Advances in Cancer Prevention Agent Development (TACPAD)

3rd Biennial Virtual Meeting

Sponsored by the Division of Cancer Prevention, NCI

DATE: October 28-30, 2024

Times listed are for Eastern Daylight Savings Time

Day 1 (10:50 AM to 5:30 PM)

10:50-11:00 AM

Welcome

Altaf Mohammed, Ph.D., Meeting Co-Organizer, DCP/NCI

Mark Miller, Ph.D., Meeting Co-Organizer, DCP/NCI

11:00-12:00 PM

Plenary Talk

Steven Lipkin, M.D., Ph.D., Weill Cornell Medicine

The CAP-IT Center for LNP RNA Immunoprevention

Session I: Molecularly Targeted Novel Agents and Emerging Technologies for Preventative Agent Development Research

Co-Chairs: Margie Clapper, Ph.D. and John Clifford, Ph.D.

12:00-12:30 PM

Speaker 1: Margie Clapper, Ph.D., Fox Chase Cancer Center

Modulation of Estrogen Metabolism as a Strategy for the Early Interception of Non-Small Cell Lung Cancer

12:30-1:00 PM

Speaker 2: Chinthalapally V. Rao, Ph.D., Oklahoma University Health Sciences Center

Interception of CRC Progression in FAP Rat Model Using a Combinational Targeting of TRAIL Signaling and Inflammation

1:00-1:30 PM

Lunch

1:30-2:00 PM

Speaker 3: Fan Zhang, Ph.D., College of Pharmacy, University of Florida Health

Tuning the Organ-Selectivity of mRNA Expression through Dendrimer-Based Lipid Nanoparticles

2:00-2:30 PM

Speaker 4: Pratip Bhattacharya, Ph.D., MD Anderson Cancer Center

Real-time Hyperpolarized Metabolic Imaging for Early Detection and Prevention of Pancreatic Cancer

2:30-3:00 PM

Speaker 5: Pankaj Singh, Ph.D., The University of Oklahoma College of Medicine

Targeting Metabolic Reprogramming in Pancreatic Cancer

3:00-3:30 PM

Break

- 3:30-4:30 PM **Early Investigator Flash Talks**
Co-Chairs: Altaf Mohammed, Ph.D. and Mark Miller, Ph.D.
- 3:30-3:45 PM Speaker 1: Atieh Hajirahimkhan, Ph.D., Northwestern University
Reprogramming SREBP1-dependent Lipogenesis and Inflammation in High-Risk Breast with licochalcone A: a Novel Path to Cancer Prevention
- 3:45-4:00 PM Speaker 2: Surya Singh, Ph.D., Oklahoma University Health Sciences Center
TRIP13 is a Promising Target for Bladder Cancer Interception
- 4:00-4:15 PM Speaker 3: Mariana Bustamante Eduardo, Ph.D., Feinberg School of Medicine
Medium Chain Fatty Acids Shift Metabolism Towards the De Novo Serine Pathway Fostering Epigenetic Plasticity and Oxidative DNA Damage
- 4:15-4:30 PM Speaker 4: Tomonori Oka, M.D. Ph.D., Harvard Medical School
Leveraging Epigenetic Regulation of Stemness for Basal Cell Carcinoma Immunoprevention
- 4:30-5:30 PM **Meet with the NCI Program Staff Session**
Moderator: Goli Samimi, Ph.D., M.P.H
- Breakout session I: Agent Development, Vignesh Gunasekharan, Ph.D., and Anda Vlad, M.D., Ph.D.
 - Breakout Session II: Nutritional Sciences, Gabriela Riscuta, M.D., and Amit Kumar, Ph.D.
 - Breakout Session III: Early Detection and Biomarkers, Neeraj Saxena, Ph.D., and Sydney Fu, M.D.

Adjourn

Day 2 Sessions (11:00 AM to 4:00 PM)

Session II: Emerging Vaccines and Immunomodulatory Agents for Cancer Prevention

Co-Chairs: Catherine Wu, M.D. and Shizuko Sei, M.D.

- 11:00-11:30 AM Speaker 1: Catherine J. Wu, M.D. Dana Farber
Updates on Personalized Cancer Vaccines
- 11:30-12:00 PM Speaker 2: Madhav Dhodapkar, M.B.S.S, Emory University
Targeting Underlying Triggers and Spatial Immunology Towards Cancer Prevention
- 12:00-12:30 PM Speaker 3: Vinod P. Balachandran, M.D., Memorial Sloan Kettering Cancer Center
Personalized RNA Vaccines for Pancreatic Cancer
- 12:30-1:00 PM Speaker 4: Steven Reed, Ph.D., HDTBio
RNA Vaccines for Cancer: Overcoming Challenges
- 1:00-1:30 PM Speaker 5: Barbara Vanderhyden, Ph.D., University of Ottawa
Targeting Age-Associated Ovarian Fibrosis to Reduce Cancer Risk

1:30-2:00 PM

Lunch

Session III: NCI Resources Session

2:00-2:30 PM

Altaf Mohammed, Ph.D., Program Director, DCP/NCI
CIP-Net Cooperative Grant Program

2:30-3:00 PM

Vignesh Gunasekharan, Ph.D., Deputy Director of PREVENT Operations, DCP/NCI
PREVENT Agent Development Pipeline

3:00-4:00 PM

Meet the Expert Session

Margie Clapper, Ph.D., Fox Chase Cancer Center
Neeha Zaidi, M.D., Johns Hopkins University

Adjourn

Day 3 Session (11:00 AM to 2:30 PM)

Session IV: Navigating Prevention Trials: Challenges and Opportunities

Co-Chairs: Ajay Bansal, M.D. and Howard Parnes, M.D.

11:00-11:30 AM

Speaker 1: Eva Szabo, M.D., DCP/NCI
Overview of DCP Supported Clinical Trials

11:30-12:00 PM

Speaker 2: Shadmehr Demehri, M.D., Ph.D., Massachusetts General Hospital
Topical Immunotherapy for Skin Cancer Prevention in Organ Transplant Recipients

12:00-12:30 PM

Speaker 3: Ajay Bansal, M.D., University of Kansas
Multivalent Vaccines boosted by IL-15 Superagonist for Cancer Interception in Lynch Syndrome: A Phase IIb Trial

12:30-1:00 PM

Lunch

1:00-1:30 PM

Speaker 4: Julie Bauman, M.D., M.P.H., George Washington University Cancer Center
Green Chemoprevention of Environmental Carcinogenesis: Lessons From The Field

1:30-2:00 PM

Speaker 5: Adetunji T. Toriola, M.D., Ph.D., MPH, University of Washington at St. Louis
Targeting RANKL Signaling in Premenopausal Women with Dense Breasts

2:00-2:30 PM

Speaker 6: Peter Allen, M.D., Duke University
Progress Report on the Prevention of Progression to Pancreatic Cancer (3P-C) Trial

Closing Remarks and Adjourn

Altaf Mohammed, Ph.D., Meeting Co-Organizer, DCP/NCI

Mark Miller, Ph.D., Meeting Co-Organizer, DCP/NCI