Thursday, May 23, 2019

9:00 am
Investigator Arrival

9:00 am – 9:30 am
Coffee

9:30 am – 9:45 am
Opening Remarks & Meeting Overview
Lisa Stevens, PhD
Deputy Director
Center for Global Health, NCI

Paul Pearlman, PhD
Lead, Global Health Technology
Center for Global Health, NCI

9:45 am – 11:05 am
Investigator Presentations I – Cervical Cancer Technologies: HPV Diagnostics
Moderators: Mark Schiffman M.D., M.P.H Division of Cancer Epidemiology & Genetics, NCI and Christos Patriotis, PhD, Division of Cancer Prevention, NCI

Improving specificity of HPV screen-and-treat in South Africa
Louise Kuhn, PhD, Columbia University

Development and clinical validation of a multi-type HPV E6/E7 oncoprotein test for cervical cancer screening and triage in low- and middle-income countries
Rolando Herrero, MD, PhD, International Agency for Research on Cancer

Cytology-Free POC Cervical Cancer Diagnostics for Global Health
Jennifer Smith, PhD, MPH, University of North Carolina at Chapel Hill

Rapid Point of Care Detection of HPV-Associated Malignancies
Karen Anderson, MD, PhD, University of Arizona
Dean Brenner, MD, University of Michigan

11:05 am – 11:25 am
Break

11:25 am – 12:25 pm
Investigator Presentations II – Cervical Cancer Technologies: Ablative Therapies for Pre-Invasive Cervical Dysplasia
Moderator: Vikrant Sahasrabuddhe, MBBS, MPH, DrPH, Division of Cancer Prevention, and Ted Trimble MPH, M.D, Office of the Director, NCI

Performance, safety, and efficacy of a new cryotherapy device for cervical dysplasia in low and middle-income countries
Jean Anderson, MD, Johns Hopkins University

CryoPen: An Innovative Treatment for Cervical Precancer in Low-Resource Setting
Miriam Cremer, MD, MPH, Cleveland Clinic

Development, field testing and evaluation of the efficacy of a hand-held, portable and affordable thermo-coagulator to prevent cervical cancer in low- and middle-income countries
Partha Basu, MD, International Agency for Research on Cancer

12:25 pm – 1:25 pm
Lunch

1:25 pm – 1:40 pm
NIBIB’s Point of Care Technology Research Network (POCTRN)
Tiffany Bailey Lash, PhD,
National Institute of Biomedical Imaging and Bioengineering

1:40 pm – 2:20 pm
Investigator Presentations III – Oral Cancer Technologies
Moderator: Anil Chaturvedi, Ph.D. Cancer Epidemiology & Genetics, NCI

Low-cost Mobile Oral Cancer Screening for Low Resource Setting
Rongguang Liang, PhD, University of Arizona

Low-cost Enabling Technology for Image-guided Photodynamic Therapy (PDT) of Oral Cancers
Tayyaba Hasan, PhD, Massachusetts General Hospital
Jonathan Celli, PhD, University of Massachusetts Boston

2:20 pm – 2:45 pm
Break (Groups set up for technology showcase.)

2:45 pm – 5:00 pm
Technologies Showcase
Room TE Seminar 110

5:00 pm
Adjourn

5:30 pm
Networking Opportunity
Old Town Pour House (212 Ellington Blvd, Gaithersburg, MD 20878)
Meals and refreshments are the responsibility of each participant.

Friday, May 24, 2019

8:15 am
Investigator Arrival

8:15 am – 8:45 am
Coffee

8:45 am – 9:25 am
Investigator Presentations IV – Liver Cancer Technologies
Moderator: Xin Wei Wang, PhD, Center for Cancer Research, NCI

Smartphone Enabled Point-of-Care Detection of Serum Markers of Liver Cancer
Ashutosh Chilkoti, PhD, Duke University
Nelson Chao, MD, Duke University

Field-deployable platform for prognostic hepatic cancer screening in low-resource settings
Courtney Scaife, MD, University of Utah
Marc Porter, PhD, University of Utah

9:25 am – 10:05 am
Investigator Presentations V – In Vitro Assays (1)
Moderator: Rebecca Liddle Huppi Ph.D. Office of HIV and AIDS Malignancy, NCI

Early Stage Diagnosis of Kaposi’s Sarcoma in Limited Resource Settings using KS-Detect
David Erickson, PhD, Cornell University
Jeffrey Martin, MD, University of California San Francisco

Smartphone for molecular cancer diagnostic in Africa
Ralph Weissleder, MD, PhD, Massachusetts General Hospital
Bruce Chabner, MD, Massachusetts General Hospital

10:05 – 10:20
USAID Support for Global Health Technology Research

10:20 am – 10:40 am
Break

10:40 am – 11:40 am
Investigator Presentations VI – In Vitro Assays (2)
Moderator: Brian Sorg, PhD, Cancer Diagnosis Program, NCI
Point of care, real-time urine metabolomics test to diagnose colorectal cancers and polyps in low- and middle-income countries
T. Peter Kingham, MD, Memorial Sloan Kettering Cancer Center
Olusegun Alatise, Obafemi Awolowo University

Facile screening for esophageal cancer in LMICs
Stephen Meltzer, MD, Johns Hopkins University
Jeff Wang, PhD, Johns Hopkins University

Digital PCR quantification of BCR-ABL for CML diagnosis and monitoring in a LMICs setting
Daniel Chiu, PhD, University of Washington

12:00 pm – 2:00 pm
Lunch Roundtable Discussions
1. Global Cancer Research Training
2. Implementation at the Country Level and Taking Interventions to Scale
3. ACT Program Challenges and Successes

2:00 pm – 2:15 pm
NCI SBIR/STTR Funding Opportunities
Ming Zhao, PhD
Program Director
Small Business Innovation Research Development Center, NCI

2:15 pm – 2:55 pm
Investigator Presentations VII – Diagnostic Imaging
Moderator: Houston Baker, PhD and Pushpa Tandon, PhD, Division of Cancer Treatment and Diagnosis, NCI

Point-of-Care Diagnostic Tools to Improve Global Cervical Cancer Programs
Rebecca Richards-Kortum, PhD, Rice University
Kathleen Schmeler, MD, University of Texas MD Anderson Cancer Center

Low Cost Automated Ultrasound for Breast Cancer Detection and Diagnosis
Leah Eshraghi, MPH Susan Love Research Foundation
Deepak Mittal MBA, MS of xtLytics LLC

2:55- pm – 3:35 pm
Investigator Presentations VIII – Radiotherapy
Moderator: Bhadrasain Vikram, M.D Radiation Research program, NCI

The Radiation Planning Assistant (RPA) for Radiation Therapy Planning in Low- and Middle-Income Countries
Laurence Court, PhD, University of Texas MD Anderson Cancer Center
Beth Beadle, MD, PhD, Stanford University

A cost-effective radiation treatment delivery system for the low- and middle-income countries
Eric Ford, PhD, University of Washington

3:35 pm – 3:40 pm
Closing Remarks & Adjourn
Paul Pearlman