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
Robert T. Croyle, PhD
Interim 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: 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
Kristin Weidemaier, PhD, Becton Dickinson
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
Moderators: Vikrant Sahasrabuddhe, MBBS, MPH, DrPH, Division of Cancer Prevention, 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: TBD

*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: TBD

*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**
Speakers TBD

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  
Philip Castle, Albert Einstein College of Medicine  
Richard Fedorak, University of Alberta  
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**  
Discussion topics and hosts to be confirmed prior to the PI meeting.

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 – 3:15 pm  
**Investigator Presentations VII – Diagnostic Imaging**  
Moderators: TBD

*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*  
Susan Love, MD, MBA, Dr. Susan Love Research Foundation  
Christine Podilchuk, PhD, AI Strategy LLC

TBD – Presentation from recently funded SBIR for GH grantee.

3:15- pm – 3:55 pm  
**Investigator Presentations VIII – Radiotherapy**  
Moderators: TBD

*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

3:55 pm – 4:00 pm  
**Closing Remarks & Adjourn**  
Paul Pearlman