

**Affordable Cancer Technologies Program  
Principal Investigators Meeting Program Agenda  
May 23-24, 2019**

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Thursday, May 23, 2019

9:00 am	<b>Investigator Arrival</b>
9:00 am – 9:30 am	<b>Coffee</b>
9:30 am – 9:45 am	<b>Opening Remarks &amp; Meeting Overview</b> 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	<b>Investigator Presentations I – Cervical Cancer Technologies: HPV Diagnostics</b> Moderators: Mark Schiffman M.D., M.P.H Division of Cancer Epidemiology & Genetics, NCI and Christos Patriotis, PhD, Division of Cancer Prevention, NCI  <i>Improving specificity of HPV screen-and-treat in South Africa</i> Louise Kuhn, PhD, Columbia University  <i>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</i> Rolando Herrero, MD, PhD, International Agency for Research on Cancer  <i>Cytology-Free POC Cervical Cancer Diagnostics for Global Health</i> Jennifer Smith, PhD, MPH, University of North Carolina at Chapel Hill  <i>Rapid Point of Care Detection of HPV-Associated Malignancies</i> Karen Anderson, MD, PhD, University of Arizona Dean Brenner, MD, University of Michigan
11:05 am – 11:25 am	<b>Break</b>
11:25 am – 12:25 pm	<b>Investigator Presentations II – Cervical Cancer Technologies: Ablative Therapies for Pre-Invasive Cervical Dysplasia</b> Moderator: Vikrant Sahasrabudde, MBBS, MPH, DrPH, Division of Cancer Prevention, and Ted Trimble MPH, M.D, Office of the Director, NCI  <i>Performance, safety, and efficacy of a new cryotherapy device for cervical dysplasia in low and middle-income countries</i> Jean Anderson, MD, Johns Hopkins University  <i>CryoPen: An Innovative Treatment for Cervical Precancer in Low-Resource Setting</i> Miriam Cremer, MD, MPH, Cleveland Clinic  <i>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</i> Partha Basu, MD, International Agency for Research on Cancer
12:25 pm – 1:25 pm	<b>Lunch</b>
1:25 pm – 1:40 pm	<b>NIBIB's Point of Care Technology Research Network (POCTRN)</b>

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