

Cancer Detection and Diagnostics Technologies for Global Health

August 22-23, 2011

Natcher Auditorium, NIH campus– Building 45
Bethesda, Maryland

AGENDA (DRAFT)

Monday, August 22, 2011

7:00 a.m. – 3 p.m. **Registration**

Opening Session (Conley)

8:00 – 8:15 **Welcome:** Douglas Lowy, *National Cancer Institute*

8:15 – 8:30 **Opening Remarks:** Barbara Conley, *National Cancer Institute*

8:30 – 9:15 **Keynote address:** Felicia Knaul, *Harvard Global Equity Initiative*, Expanding Access to Cancer Care and Control in Lower and Middle Income Countries (LMICs): Promoting Equity and Strengthening Health Systems

Session I: Cancers throughout the world (Harford)

9:15 – 9:45 **Ahmedin Jemal**, *American Cancer Society*, An Overview of Global Cancer Incidence and Mortality Patterns

9:45– 10:15 **Jacqueline Sherris**, *PATH*, Innovative responses to global health challenges

10:15 – 10:45 **Joe Harford**, *NCI*, Breast Cancer Early Detection in Low-Resource Settings: What We Have Just Isn't Good Enough

10:45-11:15 **Clement Adebamowo**, *University of Maryland*, Cancer Management in Low Resource Countries

11:15 - 11:45 **Panel Discussion: Cancer in Global Health Settings** (Harford)

11:45 – 12:45 **Lunch (on your own)**

Session II: Solid cancers in global health settings (Conley and Trimble)

12:45 – 1:15 **Edward L. Trimble**, *National Cancer Institute*: Gynecologic Cancers: Ovarian and Cervical Cancer

1:15 – 1:45 **Benjamin Anderson**, *Fred Hutchinson Cancer Research Center*, Breast cancer management in the developing world

1:45 – 2:15 **Stephen Meltzer**, *Johns Hopkins University*, Gastrointestinal Malignancies

2:15 – 2:45 **Lewis Roberts**, *Mayo Clinic*, Hepatocellular Cancer

2:45– 3:00 **Break**

Session III Detection technologies for global health (Yager and Rasooly)

3:00 – 3:30 **Paul Yager**, *University of Washington*, Microfluidics 2.0: Dropping The Costs for Diagnostic Tests and Screening

3:30– 3:55 **Aydogan Ozcan**, *UCLA*, Photonics based Telemedicine Technologies toward Smart Global Health Systems

3:55– 4:20 **Michelle Khine**, *University of California Irvine*, Shrink-film Microfluidics for Inexpensive and Rapid Devices

4:20 – 4:45 **Fran Ligler**, *Navy Research Laboratory*, Optical Biosensors for Point-of-Care Diagnostics

4:45 – 5:10 **Panel Discussion: Detection and Diagnostics Technologies for Treatable Cancers in Global Health Settings** (Conley, Trimble, Yager and Rasooly)

5:20 – 7:00 p.m. **Meet and Greet Mixer / Technology Prototypes Demonstration and Poster Session**

Tuesday, August 23, 2011

7:00 – 3:00 p.m. **Registration**

8:00 – 8:15 **Opening Remarks: Ian Magrath, INCTR.** The International Network for Cancer Treatment and Research,

Session IV: Telemedicine and imaging technologies for global health (Garra and Shankar)

8:15 – 8:45 **Brian Garra, FDA,** Ultrasound and Portable X-Ray Technology for Global Health

8:45 – 9:10 **Rebecca Richards-Kortum, Rice University,** Multi-Modal Optical Imaging to Improve Early Detection of Cancer in Low Resource Settings: Experience from China, India, Guatemala, and Botswana

9:10– 9:35 **Woonggyu Jung, University of Illinois,** Handheld Optical Imaging Scanner for Advanced Point of Care Diagnostics

9:35– 9:55 **Anuradha Godavarty, Florida International University,** Hand-held Optical Imaging Technology for Global Health and Breast Cancer

9:55 – 10:15 **Panel Discussion: Imaging for Treatable Cancers in Global Health Settings** (Garra and Shankar)

10:15-10:30 **Break**

Session V: Hematologic and infectious causes of cancers (Magrath and Verma)

10:30 – 11:00 **Ian Magrath, INCTR,** Lymphoma

11:00– 11:30 **Gregory Reaman, FDA,** Childhood Leukemia

11:30 – 12:00 **Clement Adebamowo, University of Maryland,** HIV/AIDS-related Cancers

12:00 – 1:00 **Lunch (on your own)**

Session VI: sensors technologies for global health (Soper and Wagner)

1:00 – 1:30 **Steve Soper, Louisiana State University,** Polymer-based Modular Microfluidic Point-Of-Care System for Automated Genotyping

1:30– 1:55 **Samuel Sia, Columbia University,** Microfluidics for Global Health Diagnostics

1:55– 2:20 **Shan Wang, Stanford University.** Bench Top and Handheld Magneto-Nanosensor Platform for Multivariate In Vitro Diagnostics of Cancer

2:20 –2:45 **Josh Balsam, FDA,** Webcam Biosensing for Point of Care Diagnostics

2:45– 3:10 **Haim Bau, University of Pennsylvania,** Molecular Diagnostics at the Point of Testing

3:10 – 3:30 **Panel Discussion: Detectors for Treatable Cancers in Global Health Settings** (all Chairs)