



Emerging Clinical & Laboratory Diagnostics: Pushing the Envelope

November 4-5, 2015 * Los Angeles, CA

Wednesday, November 4

7:00 am – 8:00 am

REGISTRATION (California Ballroom Foyer)

BREAKFAST/POSTERS/EXHIBITS (Wiltern Ballroom)

8:00 am

GENERAL SESSION (California Ballroom DEF)

Opening Remarks and Introduction of Keynote Speaker

Gerard Cangelosi, PhD

2015 Conference Chair

University of Washington (Seattle, WA)

8:10 am – 9:05 am

KEYNOTE PRESENTATION

A Fantastic Voyage: From 'Lab on the Skin' to Self-Propelled Nano-Laboratories

Joseph Wang, DSc

University of California San Diego (San Diego, CA)

9:05 am – 9:15 am

Q&A w/ Keynote Speaker

SESSION I – New Tools for Single Cell Analysis

9:15 am – 9:20 am

Session I Introduction

Moderator: Lydia L. Sohn, PhD

University of California Berkeley (Berkeley, CA)

9:20 am – 10:00 am

Microfluidic Technologies for Isolating and Studying Circulating Tumor Cells

Sunita Nagrath, PhD

University of Michigan (Ann Arbor, MI)

10:00 am – 10:05 am
Q&A

10:05 am – 10:15 am
BREAK/POSTERS/EXHIBITS (Wiltern Ballroom)

10:15 am – 10:55 am
Time-of-Flight Flow Cytometry for Single Cell Analysis
Marc A. Unger, PhD
Fluidigm Corporation (South San Francisco, CA)

10:55 am – 11:00 am
Q&A

11:00 am – 11:40 am
Single Cell Transcriptomics
Geoffrey Facer, PhD
Cellular Research, Inc. (Palo Alto, CA)

11:40 am – 11:45 am
Q&A

11:45 am – 11:55 am
Panel Discussion w/ Session I Presenters

CONTRIBUTED PAPER

11:55-12:15
Consistently Ultra-Selective and Continuously Tunable Nucleic Acid Hybridization Technologies
David Zhang, PhD
Rice University (Houston, TX)

12:15 pm - 12:20 pm
Q&A

12:20 pm – 1:30 pm
GROUP LUNCH (California Ballroom ABC)
Included in registration

SESSION II – Convergence of Point-of-Care Diagnostics and mHealth

1:30 pm – 1:35 pm
Session II Introduction
Moderator: Lance A. Ladic, PhD
Siemens Healthcare Diagnostics (Princeton, NJ)

1:35 pm – 2:05 pm

rHEALTH Sensor for Small Volume, Multiplexed Blood Analysis

Eugene Y. Chan, MD

DNA Medicine Institute (Cambridge, MA)

2:05 pm – 2:10 pm

Q&A

2:10 pm – 2:50 pm

Mobile Technologies for Personalized Nutrition Diagnostics and Global Health

David Erickson, PhD

Cornell University (Ithaca, NY)

2:50 pm – 2:55 pm

Q&A

2:55 pm – 3:05 pm

BREAK/POSTERS/EXHIBITS (Wiltern Ballroom)

3:05 pm – 3:45 pm

Diagnosis at the Point of Care with a Smartphone Dongle

Tiffany Guo

Columbia University (New York, NY)

3:45 pm – 3:50 pm

Q&A

3:50 – 4:00

Panel Discussion w/ Session II Presenters

CONTRIBUTED PAPER

4:00-4:20

Rapid Pathogen Identification and Antimicrobial Susceptibility Testing

David A. Haake, MD

UCLA and the VA Greater Los Angeles Healthcare System (Los Angeles, CA)

4:20 – 4:25

Q&A

4:30 pm – 6:00 pm

POSTER SESSION AND NEW TECHNOLOGY RECEPTION (Wiltern Ballroom)

Thursday, November 5

7:30 am – 8:30 am

REGISTRATION (California Ballroom Foyer)

BREAKFAST/POSTERS/EXHIBITS (Wiltern Ballroom)

8:30 am

GENERAL SESSION (California Ballroom DEF)

SESSION III – Infectious Diseases: Multiplex Analysis, Microbiomics, and Drug Resistance

8:30 am – 8:35 am

Session III Introduction

Moderator: Angelika Niemz, PhD

Keck Graduate Institute (Claremont, CA)

8:35 am – 9:15 am

A Novel HIV-1 Drug Resistance and Co-receptor Tropism Assay: Making the Switch to Next Generation Sequencing

Miguel E. Quiñones-Mateu, PhD

Case Western Reserve University (Cleveland OH)

9:15 am – 9:20 am

Q&A

9:20 am – 10:00 am

Extending the Scope - MALDI-TOF MS as a Novel Technique to Rapidly Assess Antibiotic Resistances

Prof. Dr. med. Sören Schubert

Max von Pettenkofer-Institut, LMU (Munich, Germany)

10:00 am – 10:05 am

Q&A

10:05 am – 10:15 am

BREAKFAST/POSTERS/EXHIBITS (Wiltern Ballroom)

10:15 am – 10:45 am

Application of Microarrays for Highly Multiplexed Microbial Detection and Resistome Analysis

Tomasz A. Leski, PhD

United States Naval Research Laboratory (Washington, DC)

10:45 am – 10:50 am

Q&A

10:50 am – 11:00 am

Panel Discussion w/ Session III Presenters

CONTRIBUTED PAPERS

11:00 - 11:20

Rapid Phenotypic Methods for Diagnosing Infections and Antibiotic Susceptibility Testing

Alexis Sauer-Budge, PhD

Fraunhofer Center for Manufacturing Innovation (Brookline, MA)

11:20 – 11:25

Q&A

11:25 am – 11:30 am

PRESENTATION OF THE BEST POSTER AWARD

AACC (Washington, DC)

11:30 am – 1:00 pm

GROUP LUNCH (California Ballroom ABC)

Included in registration

POSTERS/EXHIBITS (Wiltern Ballroom)

SESSION IV – Emerging Approaches in Imaging and Diagnostics

1:00 pm – 1:05 pm

Session IV Introduction

Moderator: Brian K. Kay, PhD

University of Illinois at Chicago (Chicago, IL)

1:05 pm – 1:45 pm

Novel UV and Mass-tagged Microscopies

Richard M. Levenson, MD

UC Davis Medical Center (Sacramento, CA)

1:45 pm – 1:50 pm

Q&A

1:50 pm – 2:30 pm

Wearable/Printable MRI Coils

Ana C. Arias, PhD, and Michael Lustig, PhD

University of California Berkeley (Berkeley, CA)

2:30 pm – 2:35 pm

Q&A

2:35 pm – 3:05 pm

Extracellular Vesicles: New Frontiers for Cell-to-Cell Communication and Biomarkers in Cancer

Dolores Di Vizio, MD, PhD

Cedars-Sinai Medical Center (Los Angeles, CA)

3:05 pm – 3:10 pm

Q&A

3:10 pm – 3:20 pm

Panel Discussion and Q&A w/ Session IV Presenters

CONTRIBUTED PAPER

3:20 pm - 3:40 pm

Developing Point of Care Tests for Cardiovascular Diseases, Sepsis, and Pregnancy

Paul Bao, PhD

Ohmx Corporation (Evanston, IL)

3:40 pm – 3:45 pm

Q&A

3:45 pm

CONFERENCE CLOSE

Gerard Cangelosi, PhD

2015 Conference Chair

University of Washington (Seattle, WA)