

The 4th International Molecular Pathological Epidemiology (MPE) Meeting Program

Lecture duration is 20 min unless otherwise indicated.

All parts of the meeting (except for the invited dinners) are open to public with free registration. On-site registration is available. No registration is required.

2018

May 30 (Wednesday)

(Location: Jimmy Fund Auditorium)

No separate web registration is needed to attend the Pre-meeting Workshop. Anyone is welcome!

Registration desk open at 3:30pm.

4:00 to 5:30 pm

Pre-meeting Interactive Workshop for Current and Future Leaders (Reiko Nishihara, Chair).

Panelists include:

Christine B Ambrosone (Senior Vice President for Population Sciences; Roswell Park Alliance Foundation Endowed Chair in Cancer Prevention; Chair, Department of Cancer Prevention and Control, Roswell Park Cancer Institute)

Peter T Campbell (Strategic Director, Digestive System Cancer Research, American Cancer Society)

Montserrat Garcia-Closas (Deputy Director, Division of Cancer Epidemiology and Genetics, National Cancer Institute, NIH)

Marios Giannakis (Independent Investigator and Expert in Tumor Immunogenomics, Instructor in Medicine, Dana-Farber Cancer Institute, and Harvard Medical School)

John Quackenbush (Director, Center for Cancer Computational Biology, Dana-Farber Cancer Institute; Professor at Harvard Medical School and Harvard T.H. Chan School of Public Health)

Molin Wang (Expert in MPE Biostatistics, Assistant Professor of Medicine, Brigham and Women's Hospital, Harvard Medical School, and Harvard T.H. Chan School of Public Health)

Topics include:

Successful grant writing

Transdisciplinary team building and collaborations

Panelists, Workshop Chair, and Conference Co-Chairs are invited to a dinner (at Bertucci's) from 5:45pm.

May 31 (Thursday)

(Location is Jimmy Fund Auditorium JFA unless otherwise specified)

7:30AM registration desk and JFA open

8:10 to 8:20

Introduction to the Fourth International MPE Meeting
Peter Campbell

8:20 to 9:40

Integrated Genetic, Epidemiologic, and Tumor Analyses #1 (Session Chair, Peter Campbell)

Integrating tissue biomarkers into prostate cancer epidemiology studies
Lorelei Mucci

Genetic association testing in the presence of tumor heterogeneity
Nilanjan Chatterjee

Glioma insights from molecular epidemiology to functional validation of glioma genes
Melissa Bondy

Discussion

9:40 to 9:55

Break

9:55 to 11:20

Integrated Genetic, Epidemiologic, and Tumor Analyses #2 (Session Chair, Kana Wu)

Genetic susceptibility to breast cancer subtypes
Montserrat Garcia-Closas

Leveraging non-tumor tissue sources to understand breast cancer etiology
Rulla Tamimi

Molecular alterations in breast tumor tissues from African-American women: relationships with risk factors
Christine Ambrosone

Discussion

11:20 to 11:30

Group photo

Lunch

(lunch boxes available for poster presenters, speakers, poster referees, & committee members)
Poster presenters put posters.

12pm to 1:50pm

Poster Session (at Yawkey 3F Conference Center; <https://www.dana-farber.org/legacy/uploadedfiles/library/adult-care/new-patient-guide/planning-a-visit/maps-directions-and-parking/maps/getting-around-dana-farber-yawkey-center.pdf>)

Direction from Jimmy Fund Auditorium to Yawkey 3F Conference Center: Go to 3F of Jimmy Fund Bldg (stairs or one elevator). Then go the short hallway, turn right onto the bridge to Smith Bldg. Go through Smith Bldg elevators on the left, then you can enter Yawkey 3F. You will see Yawkey Conference Center on the left.

1:50pm

Poster referees hand score sheets to staff or Co-Chair at Yawkey 3F or Jimmy Fund Auditorium

2:00 to 2:55 (Session Chair, Song Yao)
(Integrative analyses #3)

Importance of MPE for examining lifestyle and cancer
Matty Weijenberg

Molecular signatures of prostate cancer disparities
Timothy Rebbeck

Discussion

2:55 to 3:10
Break

3:10 to 4:30pm
Immunology and Immunotherapy/prevention #1 (Session Chair, Amanda Phipps)

Need for integrative analyses of exposome (including microbiome)-tumor-immune interactions
Shuji Ogino

Signatures of T-cell dysfunction and exclusion predict cancer immunotherapy response
X Shirley Liu

Adenoma prevention with MUC1 vaccine
Robert Schoen

Discussion

4:30 to 4:45
Break

4:45 to 5:30
Immunology and Immunotherapy/prevention #2 (Session Chair, Xuehong Zhang)

Identifying and therapeutically targeting tumor neoantigens
Catherine Wu

Genomic mechanism of immune evasion in colorectal cancer (15 min)
Marios Giannakis

Discussion

Speakers, session chairs, poster referees, & committee members are invited to the dinner/reception from 5:45pm at Inn at Longwood Hall (1F).

6/1 (Friday)

7:30AM JFA and Registration Desk Open

8:05am to 8:10am
Announcement of Award winners

8:10am to 9:15am
Novel Disease Phenotyping in Future Medicine and Population Science #1 (Session Chair, Jonathan Nowak)

Computational pathology to precision medicine: a working model
Jeffrey Golden

Liquid biopsy for solid tumors: current realities and future possibilities
Lynette Sholl

Comparison of pre-processing methods to compute PAM50 intrinsic subtype in breast cancer and normal tumor-adjacent regions (15 min)
Jan Heng

Discussion

9:25 to 9:40
Break

9:40 to 10:40
Novel Disease Phenotyping in Future Medicine and Population Science #2 (Session Chair, Reiko Nishihara)

Network science of tumor molecular pathology
John Quackenbush

Using artificial intelligence to develop noninvasive imaging biomarkers
Hugo Aerts

Discussion

10:40 to 10:55
Break

10:55 to 12:15

Discussion-topic Lectures (Session Chair, John Quackenbush)

How solid is liquid biopsy? + discussion (15 min)

N Sertac Kip

Regulatory networks identify sex differences in colon cancer + discussion (15 min)

Camila Lopes-Ramos

Addressing sample selection bias due to tissue availability + discussion (15 min)

Molin Wang

Population differences in breast tumor immune microenvironment between women of African ancestry and European ancestry + discussion (15 min)

Song Yao

Integrating lung cancer omics and histopathology profiles for precision medicine (10 min)

Kun-Hsing Yu

12:15pm to 1:10pm

Lunch (move to D1130 Conference Room; max 35 people)

1:10 to 2:30pm

Discussion / Business Meeting

Topics include:

5th International MPE Meeting:

Place/time

Grant

Topics?

Liquid biopsy / circulating tumor cells and nucleic acids

Single cell omics

Tumor metabolomics

In vivo pathology / molecular imaging

Implementation science

Causal inference models

Other topics:

MPE research guideline

Interdisciplinary education

Opportunities and challenges

MPE consortium building