

CONFERENCE PROGRAM

Friday, February 21

6:00 p.m.-7:15 p.m.

WELCOME / OPENING KEYNOTE ADDRESS

Plaza D-F

Welcome

Cynthia L. Sears, Johns Hopkins University School of Medicine, Baltimore, MD

Molecular control of the gut microbiome to improve cancer chemotherapy

Matthew Redinbo, University of North Carolina School of Medicine, Chapel Hill, NC

7:15 p.m.-9:15 p.m.

OPENING RECEPTION

Florida Ballroom

Saturday, February 22

7:30 a.m.-8:30 a.m.

CONTINENTAL BREAKFAST

Florida Ballroom

8:30 a.m.-10:30 a.m.

PLENARY SESSION 1: MICROBIOTA ROLE IN METABOLISM AND IMMUNITY

Plaza D-F

Session Chair: Giorgio Trinchieri, National Cancer Institute, Bethesda, MD

8:30 a.m.-9:00 a.m.

Host microbiome interactions in health and disease

Eran Elinav, Weizmann Institute of Science, Rehovot, Israel

9:00 a.m.-9:30 a.m.

Control over colorectal tumor growth via bacteria-specific T-cell activation of the local immune response

Timothy W. Hand, University of Pittsburgh, R.K. Mellon Institute for Pediatric Research, Pittsburgh, PA

9:30 a.m.-10:00 a.m.

Title to be announced

Michael A. Fischbach, Stanford University, Stanford, CA

10:00 a.m.-10:30 a.m.

Microbiota, metabolites, and antitumor immunity

Kathy McCoy, University of Calgary, Calgary, AB, Canada

10:30 a.m.-10:45 a.m.

BREAK

Plaza D-F Foyer

CONFERENCE PROGRAM

10:45 a.m.-12:45 p.m.	PLENARY SESSION 2: MICROBIOTA AND COLON CANCER Plaza D-F Session Chair: Jennifer A. Wargo , The University of Texas MD Anderson Cancer Center, Houston, TX
10:45 a.m.-11:15 a.m.	Colo cancer: Microbes and communities in microbiome translation Cynthia L. Sears, Johns Hopkins University School of Medicine, Baltimore, MD
11:15 a.m.-11:45 a.m.	The plasticity of the intestinal microbiota in colorectal cancer Christian Jobin, University of Florida, Gainesville, FL
11:45 a.m.-12:15 p.m.	Title to be announced Laurence Zitvogel, Gustave Roussy Cancer Center, Villejuif, France
12:15 p.m.-12:30 p.m.	Right-sided colonic biofilms are associated with adenoma formation in patients with Lynch syndrome* Carlijn Bruggeling, Radboudumc, Nijmegen, Gelderland, The Netherlands
12:30 p.m.-12:45 p.m.	A mutational signature in human colorectal cancer induced by genotoxic <i>pkcs*</i> <i>E. coli*</i> Jens Puschhof, Hubrecht Institute, Utrecht, Provincie Utrecht, The Netherlands
12:45 p.m.-2:45 p.m.	POSTER SESSION A / LUNCH Florida Ballroom
3:00 p.m.-5:00 p.m.	PLENARY SESSION 3: ONCOGENIC VIRUSES—PART 1 Plaza D-F Session Chair: Cynthia L. Sears , Johns Hopkins University School of Medicine, Baltimore, MD
3:00 p.m.-3:30 p.m.	The particulars of circulars: Novel RNAs from oncogenic herpesviruses Yuan Chang, University of Pittsburgh Medical Center, Pittsburgh, PA
3:30 p.m.-4:00 p.m.	Epigenetic remodeling of host metabolic pathways by Epstein-Barr virus (EBV) immortalization Paul M. Lieberman, The Wistar Institute, Philadelphia, PA
4:00 p.m.-4:30 p.m.	Bladder cancers affecting transplant recipients harbor diverse viruses that associate with overall survival Christopher B. Buck, National Cancer Institute, Bethesda, MD
4:30 p.m.-4:45 p.m.	Functional characterization of the enteric animal virome as mediator of host health* Simone Dallari, New York University School of Medicine, New York, NY
4:45 p.m.-5:00 p.m.	Potential of metformin to modify the gut microbiota and prevent inflammation in nondiabetic people with HIV* Jean-Pierre Routy, McGill University Health Centre, Montreal, QC, Canada

**Short talk from proffered abstract*

5:00 p.m.

EVENING OFF / DINNER ON OWN

Sunday, February 23

7:00 a.m.-8:00 a.m.

CONTINENTAL BREAKFAST

Florida Ballroom

8:00 a.m.-10:00 a.m.

PLENARY SESSION 4: TUMOR-ASSOCIATED MICROBIOTA

Plaza D-F

Session Chair: Laurence Zitvogel, Gustave Roussy Cancer Center, Villejuif, France

8:00 a.m.-8:30 a.m.

***Fusobacterium* persistence and antibiotic response in colorectal cancer**

Susan Bullman, Dana-Farber Cancer Institute, Boston, MA

8:30 a.m.-9:00 a.m.

Regulation of pancreatic oncogenesis by pathogens

George Miller, New York University Langone's Perlmutter Cancer Center, New York, NY

9:00 a.m.-9:30 a.m.

Characterizing the tumor microbiome and its effects on response to therapy

Ravid Straussman, Weizmann Institute of Science, Rehovot, Israel

9:30 a.m.-9:45 a.m.

Elucidating role of bacteria during pancreatic ductal adenocarcinoma (PDAC)*

Vidhi Chandra, The University of Texas MD Anderson Cancer Center, Houston, TX

9:45 a.m.-10:00 a.m.

Bacteroides fragilis*: A potential pathogen orchestrating EMT and stemness in breast epithelial cells via concomitant activation of Notch and β catenin axes

Dipali Sharma, Johns Hopkins University, Baltimore, MD

10:00 a.m.-10:15 a.m.

BREAK

Plaza D-F Foyer

10:15 a.m.-12:15 p.m.

PLENARY SESSION 5: ONCOGENIC VIRUSES—PART 2

Plaza D-F

Session Chair: Cynthia L. Sears, Johns Hopkins University School of Medicine, Baltimore, MD

10:15 a.m.-10:45 a.m.

Role of human papillomaviruses in carcinogenesis

Massimo Tommasino, International Agency for Research on Cancer, Lyon, France

10:45 a.m.-11:15 a.m.

Prevention of hepatocellular carcinoma through preventative hepatitis C vaccination

Andrea Cox, Johns Hopkins University, Baltimore, MD

**Short talk from proffered abstract*

CONFERENCE PROGRAM

11:15 a.m.-11:45 a.m.	Interception of premalignant intraepithelial lesions: Lessons learned from HPV Cornelia Liu Trimble, Johns Hopkins School of Medicine, Baltimore, MD
11:45 a.m.-12:00 p.m.	Novel phages targeting the intratumor-associated bacteria <i>Fusobacterium nucleatum</i>* Lior Zelcbuch, BiomX, Ness Ziona, Israel
12:30 p.m.-2:30 p.m.	LUNCH ON OWN
2:30 p.m.-4:30 p.m.	PLENARY SESSION 6: MICROBIOTA AND GASTROINTESTINAL CANCERS Plaza D-F Session Chair: Giorgio Trinchieri , National Cancer Institute, Bethesda, MD
2:30 p.m.-3:00 p.m.	Title to be announced Florenca McAllister, The University of Texas MD Anderson Cancer Center, Houston, TX
3:00 p.m.-3:30 p.m.	Fungal infection and carcinogenesis Yinling Hu, National Cancer Institute, Bethesda, MD
3:30 p.m.-4:00 p.m.	Gut microbiota dysbiosis and dietary fermentable fibers in a pickle: A brew for liver cancer Matam Vijay-Kumar, University of Toledo, Toledo, OH
4:00 p.m.- 4:30 p.m.	Deciphering the human gut microbiome with chemistry Emily Balskus, Harvard University, Cambridge, MA
4:30 p.m.-5:30 p.m.	SECOND KEYNOTE ADDRESS Plaza D-F The role of the intestinal microbiome in allogeneic hematopoietic cell transplantation Marcel R.M. van den Brink, Memorial Sloan Kettering Cancer Center, New York, NY
5:45 p.m.-7:45 p.m.	POSTER SESSION B / RECEPTION Florida Ballroom

**Short talk from proffered abstract*

Monday, February 24

- 7:30 a.m.-8:30 a.m.** **CONTINENTAL BREAKFAST**
Florida Ballroom
- 8:30 a.m.-10:30 a.m.** **PLENARY SESSION 7: MICROBIOTA IN CANCER PREVENTION AND THERAPY—
PART 1**
Plaza D-F
- Session Chair: Cynthia L. Sears**, Johns Hopkins University School of Medicine, Baltimore, MD
- 8:30 a.m.-9:00 a.m. **Noncanonical cross-presentation uncovers a tissue-resident CD8 T-cell response**
Julie Magarian Blander, Weill Cornell Medical College, New York, NY
- 9:00 a.m.-9:30 a.m. **Engineered *Salmonella* for drug delivery to solid tumors**
Neil Forbes, University of Massachusetts Amherst, Amherst, MA
- 9:30 a.m.-10:00 a.m. **Tumors alter gut microbiota to suppress immunity and foster progression**
Andrea Facciabene, University of Pennsylvania, Perelman School of Medicine, Philadelphia, PA
- 10:00 a.m.-10:15 a.m. **Novel microbiome-derived peptides modulate immune cell activity and the tumor microenvironment***
Dhwani Haria, Second Genome, South San Francisco, CA
- 10:15 a.m.-10:30 a.m. **Postmenopause as a key factor in the composition of the Endometrial Cancer Microbiome (ECbiome): Putative role of *Porphyromonas somerae* in the disease***
Marina Walther-Antonio, Mayo Clinic, Rochester, MN
- 10:30 a.m.-10:45 a.m.** **BREAK**
Plaza D-F Foyer
- 10:45 a.m.-12:45 p.m.** **PLENARY SESSION 8: MICROBIOTA IN CANCER PREVENTION AND THERAPY—
PART 2**
Plaza D-F
- Session Chair: Bertrand Routy**, Centre Hospitalier de l'Université de Montréal, Montréal, QC, Canada
- 10:45 a.m.-11:15 a.m. **The role of the tumor and gut microbiome in cancer**
Jennifer Wargo, The University of Texas MD Anderson Cancer Center, Houston, TX
- 11:15 a.m.-11:45 a.m. **Linking the gut microbiome to cancer treatment response**
Bertrand Routy

**Short talk from proffered abstract*

CONFERENCE PROGRAM

- 11:45 a.m.-12:15 p.m. **Targeting the microbiome in cancer immunotherapy**
Giorgio Trinchieri, National Cancer Institute, Bethesda, MD
- 12:15 p.m.-12:30 p.m. ***Candida albicans* infection mediates gastrointestinal track malignancy independently of Il17a in an APECED mouse model***
Feng Zhu, Laboratory of Cancer Immunometabolism, Center for Cancer Research, National Cancer Institute, NIH, Frederick, MD
- 12:30 p.m.-12:45 p.m. **Entero-mammary microbiota signaling axis regulates dietary influences on breast cancer risk***
Katherine Cook, Wake Forest University School of Medicine, Winston-Salem, NC
- 12:45 p.m.** **CLOSING REMARKS**
Plaza D-F

**Short talk from proffered abstract*