

An AACR Special Conference on

Colorectal Cancer

October 1-4, 2022 | Hilton Portland Downtown | Portland, OR

CONFERENCE COCHAIRS:

Jiyoung Ahn, New York University Langone Health, New York, NY

Robert J. Coffey, Vanderbilt University Medical Center, Nashville, TN

Scott Kopetz, The University of Texas MD Anderson Cancer Center, Houston, TX

CONFERENCE PROGRAM

[R] – Remote Presentation

* - Short Talk selected from Proffered Abstracts

SATURDAY, OCTOBER 1

6:00 p.m. – 7:00 p.m.

WELCOME AND OPENING KEYNOTE ADDRESS

Grand Ballroom I

6:00 p.m. – 6:15 p.m.

Welcome from conference cochaairs and introduction to opening keynote speaker

Jiyoung Ahn, New York University Langone Health, New York, NY

Robert J. Coffey, Vanderbilt University Medical Center, Nashville, TN

Scott Kopetz, The University of Texas MD Cancer Center, Houston, TX

6:15 p.m. – 7:00 p.m.

Title to be announced

Luis A. Diaz, Jr., Memorial Sloan Kettering Cancer Center, New York, NY

7:00 p.m. – 9:00 p.m.

OPENING RECEPTION

Grand Ballroom II

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SUNDAY, OCTOBER 2

7:00 a.m. – 8:00 a.m.

CONTINENTAL BREAKFAST

Galleries

8:00 a.m. – 9:30 a.m.

SPECIAL SESSION: “MOVING THE NEEDLE”

Grand Ballroom I

Session Chair/Institution: Scott Kopetz, The University of Texas MD Anderson Cancer Center, Houston, TX

8:00 a.m. – 8:30 a.m.

Moving the needle by learning from the patient

Scott Kopetz, The University of Texas MD Anderson Cancer Center, Houston, TX

8:30 a.m. – 9:00 a.m.

ctDNA Guiding adjuvant treatment in early stage colon cancer: Are we moving the needle?

Jeanne Tie, Peter MacCallum Cancer Centre, Melbourne, Victoria, Australia [R]

9:00 a.m. – 9:30 a.m.

Moving the needle: It is time for the universal germline and somatic genetic testing in all colorectal cancer patients

Richard M. Goldberg, West Virginia University Cancer Institute, Morgantown, WV

9:30 a.m. – 10:00 a.m.

BREAK

Grand Ballroom Foyer

10:00 a.m. – 12:00 p.m.

PLENARY SESSION 1: RISK PREDICTION OF COLORECTAL CANCER INCIDENCE AND SURVEILLANCE

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Session Chair/Institution: Jiyoung Ahn, New York
University Langone Health, New York, NY

10:00 a.m. – 10:30 a.m.

Risk prediction in colorectal cancer screening: Reflections on the current status

Robert E. Schoen, University of Pittsburgh School of Medicine, Pittsburgh, PA

10:30 a.m. – 11:00 a.m.

The effect of ancestry and the genomics of colorectal cancer: Implications on incidence and outcomes

Parvathi A. Myer, Albert Einstein College of Medicine, Bronx, NY

11:00 a.m. – 11:30 a.m.

Time to extend screening colonoscopy intervals? If so, by how much and for whom? Findings at 120,000 repeat screening colonoscopies conducted 10 or more years after a negative screening colonoscopy

Hermann Brenner, German Cancer Research Center, Heidelberg, Germany [R]

11:30 a.m. – 11:45 a.m.

The use of risk prediction for patients with abnormal fecal testing (FIT) to prioritize patient navigation*

Amanda F. Petrik, Kaiser Permanente Center for Health Research, Portland, OR

11:45 a.m. – 12:00 p.m.

Development and validation of a risk prediction model for post-polypectomy colorectal cancer in 4 prospective US cohorts*

Mingyang Song, Harvard T. H. Chan School of Public Health, Boston, MA

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12:00 p.m. – 2:00 p.m.

LUNCH ON OWN

2:00 p.m. – 4:00 p.m.

PLENARY SESSION 2: ADVANCES IN 3D MODELS, CULTURES, ORGANOIDS, AND PDX'S

Grand Ballroom I

Session Chair/Institution: Nicholas C. Zachos, Vanderbilt University Medical Center, Nashville, TN

2:00 p.m. – 2:30 p.m.

Modeling immune-epithelial interactions in health and disease using human intestinal enteroid co-cultures

Nicholas C. Zachos, Vanderbilt University Medical Center, Nashville, TN

2:30 p.m. – 3:00 p.m.

Tumor organoids of multi-metastatic colorectal cancer: From research tools to treatment decision tools

Anita Sveen, Oslo University Hospital, Oslo, Norway

3:00 p.m. – 3:30 p.m.

Patient derived organoids in precision oncology

Nicola Valeri, The Institute of Cancer Research, London, England, United Kingdom

3:30 p.m. – 3:45 p.m.

Overexpression of the small GTPase Rab27B promotes tumor growth by regulating autophagy flux in colorectal cancer*

Dan A. Dixon, University of Kansas, Lawrence, KS

3:45 p.m. – 4:00 p.m.

In vitro and in vivo CRISPR screens in colorectal cancer organoids identify suppressors of metastasis*

Zvi Cramer, University of Pennsylvania, Philadelphia, PA

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4:00 p.m. – 4:30 p.m.

BREAK

Grand Ballroom Foyer

4:30 p.m. – 6:15 p.m.

PLENARY SESSION 3: EARLY ONSET COLORECTAL CANCER

Grand Ballroom I

Session Chair/Institution: Yin Cao, Washington University
in St. Louis, St. Louis, MO

4:30 p.m. – 5:00 p.m.

Young onset colorectal cancer: Challenges and opportunities

Yi-Qian Nancy You, The University of Texas MD Anderson
Cancer Center, Houston, TX

5:00 p.m. – 5:30 p.m.

Risk factors for early-onset colorectal cancer

Richard B. Hayes, New York University Langone Health,
New York, NY

5:30 p.m. – 6:00 p.m.

Early-onset colorectal cancer: Emerging risk factors and early detection

Yin Cao, Washington University in St. Louis, St. Louis, MO

6:00 p.m. – 6:15 p.m.

Outcomes in colitis-associated metastatic colorectal cancer and intersection with early-onset and signet ring cell carcinoma*

Oscar E. Villarreal, UT Health Science Center at Houston,
Houston, TX

6:15 p.m. – 8:15 p.m.

POSTER SESSION A / RECEPTION

Grand Ballroom II

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MONDAY, OCTOBER 3

7:00 a.m. – 8:00 a.m.

CONTINENTAL BREAKFAST

Galleries

8:00 a.m. – 10:00 a.m.

**PLENARY SESSION 4: INSIGHTS AND THERAPIES FOR
COLORECTAL CANCER IMMUNE MICROENVIRONMENT**

Grand Ballroom I

Session Chair/Institution: Ronald A. DePinho, The
University of Texas MD Anderson Cancer Center, Houston,
TX

8:00 a.m. – 8:30 a.m.

**Synthetic essentiality identifies TDO2 as a key target in
APC-deficient CRC**

Ronald A. DePinho, The University of Texas MD Anderson
Cancer Center, Houston, TX

8:30 a.m. – 9:00 a.m.

**Combined single cell atlasing and organoid modeling
reveal progressive plasticity during human colorectal
cancer metastasis**

Karuna Ganesh, Memorial Sloan Kettering Cancer Center,
New York, NY

9:00 a.m. – 9:30 a.m.

**Stem cells, therapy resistance and metastasis in
colorectal cancer**

Eduard Batlle, Institute for Research in Biomedicine,
Barcelona, Spain [R]

9:30 a.m. – 9:45 a.m.

**Impact of heterogeneity for mismatch repair activity on
colon tumor development and therapeutic response***

Santina Snow, University of Wisconsin-Madison, Madison,
WI

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9:45 a.m. – 10:00 a.m.	Intestinal intraepithelial T cells limit colorectal cancer progression* Sonia Ghilas, Olivia Newton-John Cancer Research Institute, Heidelberg, Victoria, Australia
10:00 a.m. – 10:30 a.m.	BREAK <i>Grand Ballroom Foyer</i>
10:30 a.m. – 11:20 a.m.	INTRODUCTION & SECOND KEYNOTE ADDRESS <i>Grand Ballroom I</i>
10:30 a.m. – 10:35 a.m.	Introduction of keynote speaker Jiyoung Ahn, New York University Langone Health, New York, NY
10:35 a.m. – 11:20 a.m.	Microbiota drivers of colorectal cancer and their translation to prevention Cynthia L. Sears, Johns Hopkins University, Baltimore, MD
11:20 a.m. – 1:00 p.m.	LUNCH ON OWN
1:00 p.m. – 2:45 p.m.	PLENARY SESSION 5: MICROBIOME <i>Grand Ballroom I</i> Session Chair/Institution: Shuji Ogino, Brigham and Women's Hospital, Harvard Medical School, Harvard T. H. Chan School of Public Health, Boston, MA
1:00 p.m. – 1:30 p.m.	Microbiome and intestinal barriers in colon cancer Jun Sun, University of Illinois Cancer Center, Chicago, IL

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1:30 p.m. – 2:00 p.m.

Molecular pathological epidemiology of tumor microbiota and immunity can give etiological insights

Shuji Ogino, Brigham and Women's Hospital, Harvard Medical School, Harvard T.H. Chan School of Public Health, Boston, MA

2:00 p.m. – 2:30 p.m.

The gut microbiome in colorectal cancer

Chloe E. Atreya, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, CA

2:30 p.m. – 2:45 p.m.

Evaluation of intra-tumoral pathogenic bacteria pks+ E. coli, enterotoxigenic B. fragilis and Fusobacterium nucleatum in 3695 colorectal cancer cases*

Meredith A. J. Hullar, Fred Hutchinson Cancer Research Center, Seattle, WA

2:45 p.m. – 3:15 p.m.

BREAK

Grand Ballroom Foyer

3:15 p.m. – 5:15 p.m.

PLENARY SESSION 6: NOVEL THERAPEUTICS IN METASTATIC COLORECTAL CANCER

Grand Ballroom I

Session Chair/Institution: Ryan B. Corcoran, Massachusetts General Hospital, Harvard Medical School, Boston, MA

3:15 p.m. – 3:45 p.m.

Targeting BRAF and KRAS mutated colorectal cancer

Ryan B. Corcoran, Massachusetts General Hospital, Harvard Medical School, Boston, MA

3:45 p.m. – 4:15 p.m.

Drivers of the drug tolerant persister in colorectal cancer

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Catherine A. O'Brien, University of Toronto, Toronto,
Ontario, Canada

4:15 p.m. – 4:45 p.m.

Targeting Her2 amplification in colorectal cancer

Andrea Cercek, Memorial Sloan Kettering Cancer Center,
New York, NY

4:45 p.m. – 5:00 p.m.

RNF43 G659fs is an oncogenic and immune-modulating colorectal cancer mutation and sensitizes tumor cells to PI3K/mTOR inhibition*

Marios Giannakis, Dana-Farber Cancer Institute, Boston,
MA

5:00 p.m. – 5:15 p.m.

Inhibition of HGF maturation overcomes cetuximab resistance in colorectal cancer*

Bhuminder Singh, Vanderbilt University Medical Center,
Nashville, TN

5:15 p.m. – 7:15 p.m.

POSTER SESSION B / RECEPTION

Grand Ballroom II

TUESDAY, OCTOBER 4

7:00 a.m. – 8:00 a.m.

CONTINENTAL BREAKFAST

Galleries

8:00 a.m. – 10:00 a.m.

PLENARY SESSION 7: NOVEL INSIGHTS INTO PRE- MALIGNANT TUMORS

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Session Chair/Institution: Eduardo Vilar-Sanchez, The University of Texas MD Anderson Cancer Center, Houston, TX

8:00 a.m. – 8:30 a.m.

Multi-omic and single cell atlases of colorectal cancer pre-malignancy

Christina Curtis, Stanford University, Stanford, CA

8:30 a.m. – 9:00 a.m.

Stem and metaplastic cell states and their influences on the tumor immune microenvironment in colonic pre-cancerous lesions

Ken S. Lau, Vanderbilt University, Nashville, TN

9:00 a.m. – 9:30 a.m.

Novel insights into colorectal pre-cancers from hereditary cancer syndromes: From omics to interception

Eduardo Vilar-Sanchez, The University of Texas MD Anderson Cancer Center, Houston, TX

9:30 a.m. – 9:45 a.m.

Histone demethylase KDM5D drives sex-specific differences in colorectal cancer*

Jiexi Li, The University of Texas MD Anderson Cancer Center, Houston, TX

9:45 a.m. – 10:00 a.m.

Aberrant cell state plasticity mediates colorectal cancer initiation*

Nilay S. Sethi, Dana-Farber Cancer Institute, Boston, MA

10:00 a.m. – 10:30 a.m.

BREAK

Grand Ballroom Foyer

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10:30 a.m. – 12:15 p.m.

PLENARY SESSION 8: LIQUID BIOPSIES

Grand Ballroom I

Session Chair/Institution: Robert J. Coffey, Vanderbilt University Medical Center, Nashville, TN

10:30 a.m. – 11:00 a.m.

Recent advances in the study of extracellular vesicles and nanoparticles in colorectal cancer

Robert J. Coffey, Vanderbilt University Medical Center, Nashville, TN

11:00 a.m. – 11:30 a.m.

Circulating tumor DNA in the management for colorectal cancer: Are we there yet?

Van Karlyle Morris, The University of Texas MD Anderson Cancer Center, Houston, TX

11:30 a.m. – 12:00 p.m.

Noncoding RNAs and DNA methylation alterations as liquid biopsy biomarkers in colorectal cancer

Ajay Goel, City of Hope Comprehensive Cancer Center, Duarte, CA

12:00 p.m. – 12:15 p.m.

Transcriptomic profiling of liquid biopsy in colorectal cancer*

Vahid Bahrambeigi, The University of Texas MD Anderson Cancer Center, Houston, TX

12:15 p.m.

CLOSING REMARKS AND DEPARTURE

Grand Ballroom I

12:15 p.m.

Closing remarks

Robert J. Coffey, Vanderbilt University Medical Center, Nashville, TN