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 cochairs 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
## SUNDAY, OCTOBER 2

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| 7:00 a.m. – 8:00 a.m. | CONTINENTAL BREAKFAST  
*Gallerias*                                                            |
| 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  
*Grand Ballroom I*                                                      |
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, ORGANIDS, 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
MONDAY, OCTOBER 3

7:00 a.m. – 8:00 a.m.  CONTINENTAL BREAKFAST

8:00 a.m. – 10:00 a.m.  PLENARY SESSION 4: INSIGHTS AND THERAPIES FOR COLORECTAL CANCER IMMUNE MICROENVIRONMENT

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
Grand Ballroom Foyer

10:30 a.m. – 11:20 a.m.  INTRODUCTION & SECOND KEYNOTE ADDRESS
Grand Ballroom 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
Grand Ballroom 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. – 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
Targeting Her2 amplification in colorectal cancer
Andrea Cercek, Memorial Sloan Kettering Cancer Center, New York, NY

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

Inhibition of HGF maturation overcomes cetuximab resistance in colorectal cancer*
Bhuminder Singh, Vanderbilt University Medical Center, Nashville, TN

POSTER SESSION B / RECEPTION
Grand Ballroom II

TUESDAY, OCTOBER 4

7:00 a.m. – 8:00 a.m. CONTINENTAL BREAKFAST
Gallerias

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*
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*  
**Closing remarks**  
Robert J. Coffey, Vanderbilt University Medical Center, Nashville, TN