



The Microbiome, Viruses, and Cancer

February 21-24, 2020 | Orlando, Florida

AACR
American Association
for Cancer Research*

Poster Session A Saturday, February 22, 2020 12:45-2:45 p.m.

A01 *Fusobacterium nucleatum* and clinicopathologic features of colorectal carcinoma: results from the ColoCare Study. Cornelia M. Ulrich. Huntsman Cancer Institute, Salt Lake City, UT.

A02 A mutational signature in human colorectal cancer induced by genotoxic *pk^s⁺ E. coli*. Jens Puschhof. Hubrecht Institute, Utrecht, Provincie Utrecht, Netherlands.

A03 Association of *Fusobacterium nucleatum* (*F. nucleatum*) with progression free survival (PFS) and overall survival (OS) with 2nd-line FOLFIRI +/- regorafenib in metastatic colorectal cancer (mCRC). Michael Lee. University of North Carolina at Chapel Hill, Chapel Hill, NC.

A04 Effects of aspirin intervention on health and disease-associated oral bacterial taxa. Guillaume Onyeaghala. University of Minnesota, Division of Epidemiology and Community Health, Minneapolis, MN.

A05 Growth rate alterations of human colorectal cancer cells by 157 gut bacteria. Annemarie Boleij. Radboudumc, Nijmegen, Gelderland, the Netherlands.

A06 Right-sided colonic biofilms are associated with adenoma formation in patients with Lynch syndrome. Carlijn Bruggeling. Radboudumc, Nijmegen, Gelderland, Netherlands.

A07 The involvement of a type VII secretion system in the interactions between *Streptococcus gallolyticus* subspecies *gallolyticus* and colorectal cancer. John Taylor. Texas A&M Health Science Center Institute of Biosciences and Technology, Houston, TX.

A08 Tumor Microbiome in Subtypes of Mismatch Repair Deficient Colorectal Cancer. Daniel Buchanan. University of Melbourne, Parkville, Victoria, Australia.

A09 Understanding the role of colorectal cancer-associated microbes in colorectal cancer. Dominik Ternes. University of Luxembourg, Belval, Luxembourg.

A10 *Fusobacteria* upregulates PD-L1 in head and neck cancer cell lines: potential mechanism for immune evasion. Amani Harradah. Umm Al-Qura University, Mecca, Saudi Arabia.

A11 Betel nut chewing, oral Cyanobacteria, and exposure to cyanotoxins. Brenda Hernandez. University of Hawaii Cancer Center, Honolulu, HI.

A12 Expression of GPR41, GPR43, and GPR109A in breast tissue in relation to breast cancer development. Annie Kump. Pepperdine University, Malibu, CA.



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A13 Functional characterization of the enteric animal virome as mediator of host health. Simone Dallari. New York University School of Medicine, New York, NY.

A14 Meta-analysis improves identification of microbiome associations with anti-tumor response in melanoma, lung, and kidney cancer patients treated with checkpoint inhibitors. Fyza Shaikh. Johns Hopkins School of Medicine, Baltimore, MD.

A15 Potential of metformin to modify the gut microbiota and prevent inflammation in non-diabetic people with HIV. Jean-Pierre Routy. McGill University Health Centre, Montréal, QC, Canada.

A17 Human papillomavirus type 16 and 18 viral loads as predictors associated with abnormal cervical cytology among women in Saudi Arabia. Dalia Obeid. King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia.

A20 Persistent high-risk HPV infection in the development of uterine cervical cancer. Pablo Moreno Acosta. National Cancer Institute, Bogota, Colombia.

A21 Promotion of colorectal cancer by *Streptococcus gallolyticus* – a novel mechanism. Yi Xu. Texas A&M HSC - IBT, Houston, TX.

A22 A mechanism of $\gamma\delta$ T cell-mediated antitumor immunity against the brain cancer. Heung Kyu Lee. Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea.

A23 Association of gut microbiome diversity with obesity and breast density in postmenopausal women. Shannan Rich. University of Florida, Gainesville, FL.

A24 *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.

A26 Comparison of DNA extraction kits for metagenomic studies in feces. Isabella Kuniko Takenaka. A.C. Camargo Cancer Center, São Paulo, SP, Brazil.

A28 Concomitant use of antibiotics and immune checkpoint inhibitors in patients with solid neoplasms: A retrospective data from real world settings. Akhil Kapoor. Tata Memorial Hospital, Mumbai, India.

A29 Differential regulation of apoptosis and senescence by the miR-449 family microRNAs and its implications in tumor micro-environments of NSCLC. Chun-Yu Cho. National Institute of Cancer Research, National Health Research Institutes, Miaoli, Taiwan.

A31 Genome-wide association study (GWAS) of host DNA sequence variation and the gut microbiome in the Multiethnic Cohort. Meredith Hullar. Fred Hutchinson Cancer Research Center, Seattle, WA.



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A32 Identifying of actionable pathway malfunction scores with ML algorithm for omics data. Dmitrii Chebanov. Biolg Corp., Walnut, CA.

A33 Intratissutal and urinary microbiome in therapy naive bladder cancer patients: Definition of a gender-specific common microbiome. Filippo Pederzoli. Division of Experimental Oncology/Unit of Urology; Urological Research Institute; IRCCS Ospedale San Raffaele; Vita-Salute San Raffaele University, Milan, Italy.

A34 Lung and salivary microbiome in electronic cigarette users, never-smokers, and smokers: A pilot cross-sectional study. Kevin Ying. Ohio State University, Columbus, OH.

A35 Methanobrevibacter is associated with cervical dysplasia in Hispanics with HPV infections. Filipa Godoy-Vitorino. Department of Microbiology and Medical Zoology, Microbial Ecology and Genomics Laboratory, University of Puerto Rico, School of Medicine, San Juan, PR.

A36 Oral Microbiota associated to periodontal disease as a risk factor for oropharyngeal cancer, in patients from sexually transmitted infection clinics in Puerto Rico. Brayán Vilanova. University of Puerto Rico School of Medicine, San Juan, PR.

A37 Restoration of oral microbiota dysbiosis in head and neck squamous cell carcinoma after surgery. Jason Chan. CUHK, Shatin, NA, Hong Kong SAR.

A38 RNA-seq analysis identified candidate pathogens for prostate cancer. Shingo Ashida. Department of Urology, Kochi Medical School, Nankoku, Kochi, Japan.

A39 The human oral microbiota and risk of lung cancer: An analysis of three prospective cohort studies. Emily Vogtmann. NCI, Bethesda, MD.

A40 The SIAMCAT R package enables statistical and machine learning analyses for case-control microbiome datasets. Jakob Wirbel. European Molecular Biology Laboratories, Heidelberg, Germany.