

PROGRAM

THURSDAY 19 OCTOBER

09:30	Opening remarks by workshop chair	
09:45	Keynote: Brain-Gut-Microbiota interactions and intestinal health Wendy Henderson, PhD, MSN, CRNP NINR, NIH, DHHS, USA	
Session 1 Pathogenesis Chairs: Cara Wilson & Stacy Carrington-Lawrence		
10:30	Mining adaptive immunity to identify disease-promoting microbiota members in HIV Ivan Vujkovic-Cvijin, PhD National Institutes of Health, Mucosal Immunology Section, USA	
11:00	Microbial colonization of the gut and brain development in infancy Rebecca Knickmeyer, PhD UNC School of Medicine, UNC-Chapel Hill, USA	
11:30	Differential responses of colonic ILCs to gut commensal bacteria altered during HIV infection #O_01 Moriah Castleman, USA	
11:45	Microbial dysbiosis does not alter immune activation or disease progression in SIV-infected rhesus macaques #O_02 Alexandra Ortiz, USA	
12:00	Discussion & Session Evaluation	
12:15	Group Photo & Lunch Break	
Session 2 Transmission & Prevention Chairs: Laurel Lagenaur & Piotr Nowak		
13:15	Microbe: drug interactions and the impact on HIV infection and pathogenesis Nichole Klatt, PhD University of Washington, USA	
13:45	Cervicovaginal microbial dynamics and its impact on HIV acquisition risk Douglas Kwon, MD, PhD Ragon Institute of MGH, MIT and Harvard, USA	
14:15	Vaginal lactic acid inhibits production of pro-inflammatory mediators from human cervicovaginal epithelial cells associated with HIV acquisition #O_03 Gilda Tachedjian, Australia	
14:30	Discussion & Session Evaluation	
14:45	Break & Poster Viewing (abstract #: O_01-O_04, P_01-P_08)	
Session 3 GI Tract and Diet Chairs: Nichole Klatt & Satya Dandekar		
15:30	Detrimental impact of a high fat diet on the natural history of SIV infection in non-human Ivona Pandrea, MD, PhD University of Pittsburgh, USA	
16:00	Milk - guiding the infant microbiome Bruce German, PhD University of California, Davis, USA	
16:30	Understanding complexities of gut microbiome dysbiosis in HIV infected populations using a large cohort #O_04 Abigail Armstrong, USA	
16:45	Plasma tryptophan-kynurenine metabolites are altered with gut microbiota dysbiosis in HIV infection and associated with progression of carotid artery atherosclerosis #O_09 Qibin Qi, USA	
17:00	Discussion & Session Evaluation	

Adjourn



FRIDAY 20 OCTOBER

Session 4 Comorbidities Chairs: Alan Landay & Ronald Collman		
09:00	Inflammatory bowel disease (IBD) and colon cancer and microbiome William DePaolo, PhD University of Washington, USA	
09:30	Microbial metabolites in HIV pathogenesis and comorbidities Dana Gabuzda, MD Harvard Medical School, USA	
10:00	Composite analysis of bacteriome and virome from HIV/HPV-coinfected pregnant women reveals proxies for intraepithelial lesions and immunodeficiency status #O_05 Marcelo Soares, Brazil	
10:15	Discussion & Session Evaluation	
10:30	Break & Poster Viewing (abstract #: O_05-O_09, P_10-P_16)	
Session 5 Microbiome & Vaccines Chairs: Que Dang & Angela Malaspina		
11:30	Aging, the microbiome and vaccine responses Daria Hazuda, PhD Merck, USA	
12:00	Mechanisms intersecting microbiota metabolomics with gut epithelial barrier repair in HIV infection Satya Dandekar, PhD University of California, Davis, USA	
12:30	Role of the microbiome in HIV vaccine response heterogeneity James Kublin, MD, MPH Fred Hutch and University of Washington, USA	
13:00	Effect of high-risk sexual behaviour on diversity of the vaginal microbiota and abundance of lactobacillus #O_06 Jocelyn Wessels, Canada	
13:15	Discussion & Session Evaluation	
13:30	Lunch break	
Session 6 Metabolomics Biologic and Technical Issues Chairs: Frederic Bushman & Roger Paredes		
14:30	Studying the functional microbiome in vivo in HIV by metaproteomics approaches Adam Burgener, PhD University of Manitoba, Canada	
15:00	Fatty acid profiles differ in HIV infection, persist despite suppressive ART, and are associated with immune activation Nicholas Funderburg, PhD Ohio State University College of Medicine USA	
15:30	Modulation of gut microbiota by indoleamine 2,3-dioxygenase 1 inhibitor during antiretroviral suppressed SIV infection in rhesus macaques #O_07 Zhang Wang, USA	
15:45	The microbial-derived short chain fatty acid butyrate directly and differentially inhibits gut T helper cell subset activation and proliferation #O_08 Jon Kibbie, USA	
16:00	Discussion & Session Evaluation	
Closing remarks by workshop chair		