

MONDAY, JULY 8

- 0800-1800 REGISTRATION 1800
- 0900-1700 ANAEROBIC IDENTIFICATION AND SUSCEPTIBILITY
Laura M. Cox, PhD
- 0900-1700 EXAMINING ANAEROBES IN THE MICROBIOME: METAGENOMIC AND CULTURE APPROACHES
Anna Seekatz, PhD, Casey M. Theriot, PhD, Evan S. Snitkin, PhD 1900

- SESSION I: CONGRESS KEYNOTE
Evolution of Thinking about the Role of Anaerobic Microbes in Gastrointestinal Health and Disease
Moderator: Vincent B. Young, MD, PhD
R. Balfour Sartor, MD
University of North Carolina, Chapel Hill, NC USA
- MIXER/RECEPTION
BUFFET DINNER

TUESDAY, JULY 9

- 0730-0830 REGISTRATION / CONTINENTAL BREAKFAST
- 0820-0830 WELCOME
Vincent B. Young, MD, PhD
- 0830-0930 SESSION II: ANAEROBES: DISEASE ASSOCIATIONS
Moderator: Vincent B. Young, MD, PhD
Roles of Three *Fusobacterium nucleatum* Subspecies in Colorectal Cancer
Sarah Kuehne†
Nottingham Trent University, Nottingham,
Clostridioides difficile Infection Triggers Late Neuroinflammatory Response in the Brain
Suemin E. Yang
University of Virginia, Charlottesville, VA USA
Investigating the Role of the Gut Microbiota in the 3KL Model of Parkinson's Diseases Using Selective Antibiotic Depletion
Leah Beauchamp, PhD
Brigham and Women's Hospital, Boston, MA USA
- 0930-1030 SESSION III: ANAEROBIC INFECTIONS
Moderator: Yiping Han, PhD
Finding *Fusobacterium necrophorum*: A Journey of Patient and Pathogen Discovery
Michael Perry†
Anaerobe Reference Unit, Public Health, Wales, UK
Fusobacterium nucleatum is Enriched in Invasive Colorectal Cancer Biofilms
Jessica Queen, MD, PhD
Johns Hopkins University, Baltimore, MD USA
Strategic Drug Repurposing for Biofilm Associated Bacterial Vaginosis
William Johnston, PhD
Glasgow Caledonian University, Glasgow, Scotland, UK
- 1030-1045 BREAK / EXHIBITS
- 1045-1145 SESSION IV: ANAEROBIC CLINICAL INFECTIONS
Moderator: Kevin Garey, PharmD
Lifetime Achievement Lecture
Decreasing Needless "Self-Flagellation": Overuse of Metronidazole in Aspiration Pneumonia
Ellie J.C. Goldstein, MD
University of California, Los Angeles, CA USA
R.M. Alden Research Laboratory, Santa Monica, CA
Serum and Stool Inflammatory Mediators are Viable Indicators of Risk for Developing Recurrent *Clostridioides difficile* Infection
Michael Dieterle, MD, PhD
University of Wisconsin, Madison, WI USA

- Comparing Mortality of Sepsis Patients Administered Piperacillin-Tazobactam or Cefepime Using Instrumental Variable Analysis
Rishi Chanderraj, MD
University of Michigan, Ann Arbor, MI USA
- 1145-1315 LUNCH / EXHIBITS
- 1200-1300 SATELLITE SESSION
How to Publish Your First Manuscript (in *Anaerobe*)
Emma Allen-Vercor, PhD
University of Guelph, Guelph, ON Canada
- 1315-1415 SESSION V: ANAEROBES IN HEALTH & DISEASE
Moderator: Laura Cox, PhD
Deleted in Malignant Brain Tumors 1 Glycoprotein is Lost in Colonic Dysplasia
Nicholas Markham, MD, PhD
Vanderbilt University, Nashville, TN USA
In silico Design of Bacterial Consortia Mitigates *Clostridioides difficile* Pathogenesis in a Murine Model
Glynis Kolling, PhD
University of Virginia, Charlottesville, VA USA
NOMMS: The Nasal and Oral Microbiome in Multiple Sclerosis
Shuqi Li, PhD
Brigham and Women's Hospital Boston, MA
- 1415-1430 BREAK / EXHIBITS
- 1430-1530 SESSION VI: CLOSTRIDIODES DIFFICILE I: CLINICAL/EPIDEMIOLOGY UPDATES
Moderator: Stuart Johnson, MD
Evolution of the Treatment of CDI—From Metronidazole to FDA-Approved FMT
Krishna Rao, MD
University of Michigan, Ann Arbor, MI USA
Clinical Efficacy of Ibezapolstat in CDI: Results from Phase 2 Trials
Kevin Garey, PharmD
University of Houston, Houston, TX USA
Molecular Epidemiology of *Clostridioides difficile* in the United States, 2020
Michelle Adamczyk
Centers for Disease Control and Prevention, Atlanta, GA USA
- 1530-1730 POSTER SESSION I
- 1730-1800 ASA BUSINESS MEETING
DINNER ON YOUR OWN

†Sponsored by European Society of Clinical Microbiology & Infectious Diseases (ESCMID)

The 17th Biennial Congress of the Anaerobe Society of the Americas

University of Michigan, Ann Arbor, MI USA

WEDNESDAY, JULY 10

0700-0800 REGISTRATION / CONTINENTAL BREAKFAST

0800-0900 SESSION VII: INTERSPECIES & MICROBE/
MICROBE INTERACTIONS

Moderator: Casey M. Theriot, PhD

Bioactive Compounds Produced by the Gut Commensal
Enterocloster citroniae Modulate Enteric Pathogen
Virulence

Caetano Antunes, PhD

University of Kansas, Lawrence, KS USA

Protection Against CDI Colitis in a Mouse Model
by a Clinical Avirulent *Clostridioides difficile* Isolate
Through Amino Acids Competition

Qiwen Dong, PhD

Tufts University, Boston, MA USA

Fusobacterium nucleatum and *Clostridioides difficile*
Co-Colonization Increases Inflammation of the Gut
Epithelium

Charles Booth, Jr., PhD

Medical University of South Carolina,
Charleston, SC USA

0900-1000 SESSION VIII: OTHER ANAEROBES:
PHYSIOLOGY & CLINICAL ASSOCIATIONS

Moderator: Purnima Kumar, DDS, PhD

Analyzing the *Treponema denticola* Protease Complex
(Dentilisin) in Clinical Isolates

J. Christopher Fenno, PhD

University of Michigan, Ann Arbor, MI USA

Bacteroides thetaiotaomicron Prevents Death from
Clostridioides difficile Infection in Aged Host: Potential
Role of Interferon Signaling

Jae Hynn Shin, MD

University of Virginia, Charlottesville, VA USA

Antimicrobial Susceptibility of Gram Negative
Anaerobic Isolates in a High Complexity Pediatric
Hospital from Buenos Aires, Argentina

Silvina Otera

Hospital Garrahan, Buenos Aires, Argentina

1000-1015 BREAK / EXHIBITS

1015-1115 SESSION IX: ONE HEALTH: ANAEROBES IN
ANIMALS & MAN

Moderator: Francisco Uzal, DVM, PhD

The Epidemiology of *Clostridioides difficile* in a
One-Health Context

Eliane de Oliveira Ferreira, PhD

Federal University of Rio de Janeiro, Rio de Janeiro,
Brazil

Effects of Commonly Used Medications on the Growth
of Commensal Gut Anaerobes and Pathobionts
Associated with Domestic Cats and Dogs

Holly Ganz, PhD

AnimalBiome, Oakland, CA USA

The Microbiome & Resistome of Golden Jackals in
Israel

Katherine Winner

University of Michigan, Ann Arbor, MI USA

1115-1215 SESSION X: ANAEROBES IN REPRODUCTIVE
HEALTH

Moderator: David Fredricks, MD

The Importance of Anaerobic Antimicrobial Therapy
for Acute Pelvic Inflammatory Disease (PID)

Harold Wiesenfeld, MD

University of Pittsburgh, Pittsburgh, PA USA

Application of Endolysins as Novel Antimicrobials
Against Bacterial Vaginosis

Ryan Kean, PhD

Glasgow Caledonian University, Glasgow,
Scotland, UK

Novel *Eggerthellaceae* Isolates from the Female
Reproductive Tract

Sujatha Srinivasan, PhD

Fred Hutchinson Research Center, Seattle, WA USA

1215

END OF GENERAL SESSIONS

FREE TIME — EXPERIENCE ANN ARBOR

1245-1400

YOUNG INVESTIGATOR'S POSTER
PRESENTATIONS



Ann Arbor Farmers Market



UM Natural
History Museum



Huron River Tours

THURSDAY, JULY 11

0730-0830 REGISTRATION / CONTINENTAL BREAKFAST

0830-0930 SESSION XI: ADVANCES IN PUBLIC HEALTH/ EPIDEMIOLOGY

Moderator: Audrey Schuetz, MD

Genomic Epidemiology-Providing Insights into Transmission and Spread of Pathogens at Multiple Spatial and Temporal Scales

Evan Snitkin, PhD

University of Michigan, Ann Arbor, MI USA

Fusobacterium nucleatum: A Model Periodontal Pathogen in Intrauterine Infections

Yiping W. Han, PhD

Columbia University, New York, NY USA

Identification of Cryptic *Clostridioides* spp. among *Clostridioides difficile* Infection (CDI) Surveillance Isolates Collected Through the Emerging Infections Program (EIP), 2018-2020

Giulia Orazi, PhD

Centers for Disease Control and Prevention, Atlanta, GA USA

0930-1030 SESSION XII: HOST RESPONSES IN ANAEROBIC INFECTIONS

Moderator: Krishna Rao, MD

Deciphering Host Inflammation in *Clostridioides difficile* Infection: Unraveling the Effects of OLFM4 in Disease Severity

Rajat Madan, MD, PhD

University of Cincinnati, Cincinnati, OH USA

Loss of S100B Attenuates Severity of *Clostridioides difficile* Infection in Mice and Protects Enteric Glia

Deiziane Viana da Silva Costa

University of Virginia, Charlottesville, VA USA

Toxin-Mediated Alterations in Host Physiology Impact *Clostridioides difficile* Colonization and Pathogenesis

Christopher Peritore-Galve, PhD

Vanderbilt University, Nashville, TN USA

1030-1045 BREAK / EXHIBITS

1045-1145 SESSION XIII: ANAEROBES IN THE ENVIRONMENT (NOVEL ANAEROBES)

Moderator: Cynthia Sears, MD

Barcoded Overexpression Libraries to Study Gene Functions in Gut Bacteroidales

Yolanda Yue Huang, PhD

University of Buffalo, Buffalo, NY USA

Exploring the Role of Sodium Membrane Energetics in *Bacteroides fragilis* Bile Acid Resistance

Matthew Schnitzlein, PhD

Michigan State University, Lansing, MI USA

The Role of Bile Acid Conjugation in Gut Inflammation

Yousi Fu, PhD

Michigan State University, Lansing, MI USA

1145-1315 LUNCH / EXHIBITS

1200-1300 SATELLITE SESSION

Introducing the Stratus, Your Solution to Anaerobic Bacterial Growth Curves

Cerrillo

1315-1415 SESSION XIV: *CLOSTRIDIoidES DIFFICILE* II: BASIC RESEARCH

Moderator: Aimee Shen, PhD

Novel Cell Wall Crosslinking Enzymes in *Clostridioides difficile* Produce Essential 3-3 Crosslinks

Kevin Bollinger

University of Iowa, Iowa City, IA USA

Siderophore Utilization in *Clostridioides difficile*

Jessica Hastie, PhD

U.S. Food & Drug Administration, Silver Spring, MD USA

Inhibition of *Clostridioides difficile* Sporulation by the Phosphotransfer Proteins PtpA and PtpB

Adrienne Edwards, PhD

Emory University, Atlanta, GA USA

1415-1430 BREAK / EXHIBITS

1430-1530 SESSION XV: ANAEROBIC RESISTANCE AND NOVEL TREATMENTS

Moderator: Vincent B. Young, MD, PhD

The Implementation of FDA-Approved Microbiome Therapeutics: A Clinician Perspective for *Clostridioides difficile* Infections

Nirja Mehta, MD

Emory University, Atlanta, GA USA

Omics Evaluation of Omdacycline, A Low-Risk Antibiotic for *Clostridioides difficile* Infection

Jinhee Jo, PharmD

University of Houston, Houston, TX USA

Beta-Lactamase as a Predictor of Penicillin Susceptibility for Anaerobic Gram-Negative Bacilli

Samantha Shannon, MLS (ASCP)^{CM}

Mayo Clinic, Rochester, MN USA

1530-1730 POSTER SESSION II

1730 CONGRESS ADJOURNS

1745 CONGRESS RECEPTION / BANQUET / AWARDS

See Registration Form for Banquet Tickets

