



# Anaerobe 2022

*The 16th Biennial Congress of the Anaerobe Society of the Americas  
July 28-31, 2022 – Hyatt Regency, Seattle, WA USA*

**PRELIMINARY INVITED PROGRAM**  
**Additional Speakers will be selected from submitted abstracts**  
**Congress Information Available: [www.anaerobe.org](http://www.anaerobe.org)**

## **THURSDAY, JULY 28, 2022**

0900–1700 **Preconference Workshops**  
**Anaerobic Identification & Susceptibility**  
Diane M. Citron, *Independent Consultant*  
Mike Cox, *Anaerobe Systems*

**Examining Anaerobes in the Microbiome: Metagenomic & Culture Approaches**  
Laura M. Cox, PhD, *Harvard University*  
Casey M. Theriot, PhD, *North Carolina State University*  
Anna M. Seekatz, PhD, *Clemson University*

1800 **ASA Welcoming Mixer**

## **FRIDAY, JULY 29, 2022**

0700 **Registration, Breakfast, Exhibits**

0820 **Welcome:** David Fredricks, PhD

0830 **I: Keynote:**  
**Gut Microbial Metabolism and Cardiovascular Disease**  
Stanley L. Hazen, M.D., PhD  
*Cleveland Clinic, Cleveland, OH*

0930 **Break, Exhibits**

**II: Out of the Box: Impact of Gut Microbes on Non-GI Disease**

Moderators: Cynthia Sears, MD; Laura Cox, PhD

0945 **The Microbiome and Cancer Immunotherapy**  
Fyza Shaikh, M.D., PhD

*John Hopkins University, Baltimore, MD*

1015 **Spingholipids as Modulators of Microbiome Function**  
Elizabeth L. Johnson, PhD

*Cornell University, Ithaca, NY*

*Additional Oral Presentations (Selected from Oral Abstract Submissions)*

1145 **Lunch, Exhibits**

1230 **Poster Session I**

**III: Fusobacteria**

Moderator: Yiping Han, PhD

1330 **Fusobacterium nucleatum in Colorectal Cancer****Yiping W. Han, PhD***Columbia University, New York, NY*1345 **Experimental Approaches to Identify Virulence Determinants in Fusobacterium nucleatum****Hung Ton-That, PhD***University of California, Los Angeles, CA**Additional Oral Presentations (Selected from Oral Abstract Submissions)***IV: Methodology & Epidemiology**1330 **Oral Abstracts (Selected from Submissions)**

1515 Break, Exhibits

**V: Bugs as Drugs: Engineered Microbial Communities and Fecal Microbiota Transplantation**

Moderator: Vince Young, MD

1530 **Current State of Knowledge: FMT for Fecal****MDRO Colonization****Jennie H. Kwon, DO, MSCI***Washington University, St. Louis, MO**Additional Oral Presentations**(Selected from Oral Abstract Submissions)***VI: The Oral Microbiome and Human Health**

Moderator: Jeff McLean, PhD

1530 **Microbiome Modulation****Wenyuan Shi, PhD***The Forsyth Institute, Boston, MA*1600 **Environmental Stress Perception Activates Structural Remodeling of Streptococcus mutans****Justin L. Merritt, PhD***Oregon Health & Science University, Portland, OR*1630 **Keystone Oral Pathogen Immune Evasion****Richard Darveau, PhD***University of Washington, Seattle, WA**Additional Oral Presentations**(Selected from Oral Abstract Submissions)*

1800 Wine and Cheese Networking Reception

**SATURDAY, JULY 30, 2022**

0700 Registration, Breakfast, Exhibits

**VII: Functional Roles of Anaerobes in the GI Tract**

Moderator: Casey M. Theriot, PhD

0800 **Glycan Scavenging by Human Gut Microbiota****Nicole Koropatkin, PhD***University of Michigan, Ann Arbor, MI*0830 **Discovery of Novel Conjugated Bile Acids Made by the Gut Microbiota****Emily C. Gentry, PhD***University of California, San Diego, CA*0900 **Characterization of Rare Lachnospiraceae****Anna Seekatz, Ph.D.***Clemson University, Clemson, SC**Additional Oral Presentations (Selected from Oral Abstract Submissions)*

0945 Break, Exhibits

**VIII: Clostridioides difficile: Management Update**

Moderator: Dale N. Gerding, MD

1000 **Diagnosis of C. difficile infection: NAAT vs. Other Algorithms, Ultrasensitive Toxin Testing****Karen Carroll, MD***John Hopkins University, Baltimore, MD*1030 **Treatment and Prevention: IDSA/SHEA Guideline Update****Stuart Johnson, MD***Hines VA Medical Center, Hines, IL**Additional Oral Presentations (Selected from Oral Abstract Submissions)*

1200–1345 IX: Breakout Lunch Session

Meet the Editors: Tips on Publishing in Peer-Reviewed Journals

Moderator: Caroline A. Genco, PhD

**X: Basic Science of *C. difficile* Infection**

Moderator: David Aronoff, MD

1415 **Phenotypic Heterogeneity in *C. difficile***

**Rita Tamayo, PhD**

*University of North Carolina, Chapel Hill, NC*

1445 **Immune-Microbiota Interactions in Defense**

**Against *C. difficile***

**Michael C. Abt, PhD**

*University of Pennsylvania, Philadelphia, PA*

1515 **Germination by *C. difficile* Spores**

**Joseph Sorg, PhD**

*Texas A&M University, College Station, TX*

*Additional Oral Presentations*

*(Selected from Oral Abstract Submissions)*

**XI: Optimizing Anaerobic Cultivation**

Moderator: Sujatha Srinivasan, PhD

1415 **Revealing the Hidden Lifestyle of Ultra-Small Bacteria: TM7**

**Batbileg Bor, PhD**

*The Forsyth Institute, Boston, MA*

1445 **Human Microbiota Diversity through Culture Enriched Metagenomics**

**Michael G. Surette, PhD**

*McMaster University, Hamilton, ON Canada*

1515 **Anaerobic Cultivation and Strain-Banking from the Human Gastrointestinal Tract**

**Trevor Lawley, PhD**

*Wellcome Sanger Institute, United Kingdom*

*Additional Oral Presentations*

*(Selected from Oral Abstract Submissions)*

1615 Break, Exhibits

**XII: Genetic Manipulation of Anaerobes: Strategies and Successes**

Moderator: Sarah Kuehne, PhD

1630 **In Pursuit of a *Fusobacterium* 'Pan-genetic' System**

**Daniel Slade, PhD**

*Virginia Tech, Blacksburg, VA*

1700 **Genetic Engineering of Oral Anaerobes**

**Christopher Johnston, PhD**

*Fred Hutchinson Cancer Research Center, Seattle, WA*

*Additional Oral Presentations*

*(Selected from Oral Abstract Submissions)*

**XIII: *Clostridioides difficile* Hot Topics**

Moderator: Daniel Paredes-Sabja, PhD

*Oral Presentations*

*(Selected from Oral Abstract Submissions)*

1900 Reception, Banquet & Congress Awards  
at Olympic Sculpture Park  
overlooking Puget Sound

**SUNDAY, JULY 31, 2022**

0700 Registration, Breakfast, Exhibits

**XIV: Emerging Anaerobes and Disease Associations**

Moderator: Audrey N. Schuetz, MD

0800 **The Veillonellaceae**

**Ellie J.C. Goldstein, MD**

*University of California, Los Angeles, CA*

0830 **Novel Anaerobes in the Reproductive Tract**

**Sujatha Srinivasan, PhD**

*Fred Hutchinson Cancer Research Center, Seattle, WA*

*Additional Oral Presentations (Selected from Oral Abstract Submissions)*

1000 Break, Exhibits

**XV: Anaerobes in Low Biomass Environments**

Moderator: David N. Fredricks, PhD

1015 **Intro to the Challenge: the Placental Microbiome?**  
**David N. Fredricks, PhD**  
*Fred Hutchinson Cancer Research Center, Seattle, WA*

1020 **Fallopian Tube Microbiome Analysis: Potential Pitfalls**

**Bo Yu, MD**  
*University of Washington, Seattle, WA*

1035 **Point-Counterpoint Debate: Anaerobes in the Lung: Cystic Fibrosis**

**Anaerobes as Pathogens**  
 — **Michael G. Surette, PhD**  
*McMaster University, Hamilton, ON Canada*  
**Anaerobes as Commensals and Transients**  
 — **Pradeep Singh, MD**  
*University of Washington, Seattle, WA*

1105 Panel Discussion

1020 **The Tumor Microbiome**

**Susan Bullman, PhD**  
*Fred Hutchinson Cancer Research Center, Seattle, WA*  
*Additional Oral Presentations*  
*(Selected from Oral Abstract Submissions)*

**XVI: One Health: Anaerobes in Humans, Animals, and the Environment**

Moderator: Francisco Uzal, DVM, PhD

1015 ***Clostridium perfringens* Type F Food Poisoning: Mechanisms and Reservoirs**

**Bruce A. McClane, PhD**  
*University of Pittsburgh, Pittsburgh, PA*

1045 ***Clostridium perfringens* Type F Food Poisoning: Mechanisms and Reservoirs**

**Daniel R. Knight, PhD**  
*Murdoch University, Perth Australia*  
*Additional Oral Presentations*  
*(Selected from Oral Abstract Submissions)*

1215–1315 Lunch, Exhibits  
 1315–1400 **Poster Session 2**

**XVII: Clinical Infectious Disease: Anaerobe Infections**

Moderator: Jeanne Marrazzo, MD

1400 **Increased Variety of Actinomyces Infections**  
**Eija Könönen, DDS, PhD**  
*University of Turku, Turku, Finland*

1430 **Diabetic Wound Infections**  
**Elizabeth A. Grice, PhD**  
*University of Pennsylvania, Philadelphia, PA*  
*Additional Oral Presentations*  
*(Selected from Oral Abstract Submissions)*

**XVIII: Model Systems to Elucidate the Biology of Anaerobes**

Moderator: Aimee Shen, PhD

1400 **Bioreactors**  
**Jennifer M. Auchtung, PhD**  
*University of Nebraska, Lincoln, NE*  
*Additional Oral Presentations*  
*(Selected from Oral Abstract Submissions)*

1600 Congress Adjourns