



Anaerobe 2022

July 28-31, 2022

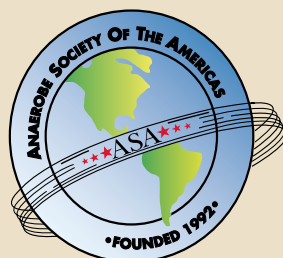
Photo: Joe Wolf

The 16th Biennial Congress of the Anaerobe Society of the Americas
Hyatt Regency, Seattle, WA USA

IMPORTANT DATES

July 7, 2022	Hotel Reservation Deadline
July 7, 2022	Early Registration Deadline
July 20, 2022	Cancellation Deadline
July 28, 2022	Pre-Congress Workshops
July 29, 2022	Congress Opens

**Microbiology
Educational
Services**



For additional information about the Anaerobe Society or *ANAEROBE 2022*
Web: www.anaerobe.org ♦ E-mail: asa@anaerobe.org ♦ Phone: +1-310-216-9265



Anaerobe 2022

July 28-31, 2022



COURSE DIRECTOR

David N. Fredricks, M.D.
ASA President
Fred Hutchinson Cancer Research Center
Seattle, WA USA

ORGANIZING COMMITTEE

David Aronoff, MD
ASA Past President
Indiana University
Indianapolis, IN USA

Susan Bartlett
Fred Hutchinson Cancer Research Center
Seattle, WA USA

Karen Carroll, MD
Johns Hopkins University
Baltimore, MD USA

Laura M. Cox, PhD
Harvard University
Boston, MA USA

Caroline A. Genco, PhD
Tufts University
Medford, MA USA

Dale N. Gerding, MD
ASA Past President
Hines VA Hospital
Maywood, IL USA

Ronald J. Goldman, PhD
ASA Executive Director
Los Angeles, CA USA

Ellie J.C. Goldstein, MD
ASA Treasurer, Past President
University of California
Los Angeles, CA USA

Yiping W. Han, PhD
Columbia University
New York, NY USA

Sarah A. Kuehne, PhD
University of Birmingham
Birmingham, United Kingdom

Jeanne Marrazzo, MD, MPH
ASA Past President
University of Alabama
Birmingham, AL USA

Jeff S. McLean, PhD
University of Washington
Seattle, WA USA

Daniel Paredes-Sabja, PhD
Texas A&M University
College Station, TX USA

Cynthia Sears, MD
ASA Past President
Johns Hopkins University
Baltimore, MD USA

Aimee Shen, PhD
Tufts University
Medford, MA USA

Audrey N. Schuetz, MD
Mayo Clinic
Rochester, MN USA

Sujatha Srinivasan, PhD
Fred Hutchinson Cancer Research Center
Seattle, WA USA

Casey M. Theriot, PhD
North Carolina State University
Raleigh, NC USA

Vincent Young, MD, PhD
ASA Vice President
University of Michigan
Ann Arbor, MI USA

Francisco A. Uzal, D.V.M., PhD
University of California
Davis, CA USA

ABOUT THE ANAEROBE SOCIETY

Founded in 1992, the Anaerobe Society of the Americas is a non-profit foundation (Tax ID # 95-4388236), serving as a forum for those interested in anaerobes, anaerobic infections, and related matters. Membership is available to anyone with an interest in the field of anaerobes. Membership includes a subscription to

the *ANAEROBE* journal, the ASA newsletter, the ASA E-mail Network, and discount registration for the ASA Congress.

Membership is available in Doctoral, Non-doctoral, Retired, and Student categories. Membership can be obtained at the Anaerobe website: www.anaerobe.org.

For additional information about the Anaerobe Society or *ANAEROBE 2022*
Web: www.anaerobe.org ♦ E-mail: asa@anaerobe.org ♦ Phone: +1-310-216-9265

The 16th Biennial Congress of the Anaerobe Society of the Americas

Hyatt Regency, Seattle, WA USA

The Anaerobe Society of the Americas (ASA) hosts **ANAEROBE 2022**—July 28-31, 2022—in Seattle, WA USA. This event provides a forum for vigorous discussions of both the clinical and microbiological aspects of anaerobic infections, their diagnosis, and their therapy among medical practitioners and researchers by mixing theory and practical applications. The Congress will consist of invited speakers, oral presentations, and poster presentations, representing work by researchers from 30+ countries.

The Congress will consist of:

- Pre-Congress Workshops—July 28
- 18 Oral Sessions with over 60 presentations—July 29-31
- Two Poster Presentations
- Young Investigator's Presentation Competition
- Industry Exhibitions
- Congress Banquet & Social Networking Events

TARGET AUDIENCE

Healthcare professionals and researchers in academia, government, and industry from around the world are invited to attend and participate in this Congress to engage in presentations, exchanges, and dialogue on issues related to the study of anaerobes. Pre-Congress Workshops are targeted to clinical microbiology technologists. Target audience includes:

- Microbiologists and Laboratory Scientists
- Infectious Disease Physicians & Nurses
- Gastroenterologists

- Gynecologists
- Pathologists
- Dentists
- Epidemiologists
- Infection Control Practitioners
- Pharmacists
- Public Health Officials
- Veterinarians
- Post-Doctoral Fellows & Students

CURRICULAR GOALS & OBJECTIVES

Provide information on the latest developments in the field of anaerobic research, including the role of anaerobes in human diseases, the epidemiology of anaerobic infections, and potential prevention strategies.

Provide recommendations in the diagnosis, screening, and treatment of anaerobic infections, including new laboratory techniques, utilization of antibiotics, and potential of probiotics.

Provide an understanding for better utilization of the microbiology lab into the delivery of patient care.

HEALTH & SAFETY

Currently, proof of vaccination and masks are required for in-person gatherings in Seattle. We are actively monitoring the local health conditions and safety guidelines. Requirements for attendance will be announced in the Pre-Congress Information Packet and the Congress website.

ACCREDITATION

This activity has been planned and implemented in accordance with the Essentials Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME).

CONGRESS ACCREDITATION

No Continuing Education Units will be issued for this Congress. Attendees may request Certificates of Attendance, free of charge, on the Registration Form or upon registering, which will be emailed after Congress evaluations are processed.

PRE-CONGRESS WORKSHOPS ACCREDITATION

Microbiology Educational Services is accredited by the California Department of Health Services to provide continuing education for clinical laboratory scientists and designates 7.0 continuing education contact hours upon completion of a workshop. Clinical laboratory scientists should claim only those hours of credit that they actually spent in the educational activity.

PRE-CONGRESS WORKSHOPS—JULY 28, 2022

ANAEROBIC IDENTIFICATION AND SUSCEPTIBILITY TESTING METHODS WORKSHOP (7.0 CEU CONTACT HOURS)

Diane M. Citron—Anaerobic Bacteriology Consultant, Santa Monica, CA USA

Mike Cox—Anaerobe Systems, Morgan Park, CA USA

Techniques for identifying anaerobes based on phenotypic characteristics will be presented. These methods will include appearance on gram-stain, growth on selective media, susceptibility to special potency antibiotic disks, preformed enzyme reactions, and classical biochemical reactions. Use of MALDI-TOF for identification of anaerobes will be discussed. The Anaerobe Educator software program will be used to present test reactions and to allow for active audience participation in the identification of organisms. Susceptibility testing methods, including agar dilution, broth microdilution, and Etest will be discussed. Participants will identify 15 unknown organisms using techniques presented in the workshop.

EXAMINING ANAEROBES IN THE MICROBIOME: METAGENOMIC AND CULTURE APPROACHES (7.0 CEU CONTACT HRS)

Laura M. Cox, PhD—Harvard University, Boston, MA USA

Anna Seekatz, PhD—Clemson University, Clemson, SC USA

Casey M. Theriot, PhD—North Carolina State University, Raleigh, NC

The microbiota, composed of trillions of bacteria, fungi, and viruses, colonize all living animals and can influence health and disease. Advances in multi-omics technology have increased our ability to interrogate these important interactions. This course will provide didactical instruction and foundational knowledge on microbiome study design, manipulation via microbiota transplants and anti-biotic therapy, sequencing and analysis, and metabolomics. It will also cover approaches for cultivating, isolating, and identifying diverse bacteria within the microbiome. The course will include clinically relevant examples and aims to increase a student's fluency with microbiome terminology and their familiarity with publicly available resources. Appropriate for students, postdocs, faculty, and clinical researchers interested in microbiome research.



Anaerobe 2022

July 28-31, 2022

THURSDAY, JULY 28

0800-1600 REGISTRATION

0900-1700 ANAEROBIC IDENTIFICATION AND SUSCEPTIBILITY *See page 3 for details*

*Diane M. Citron
Mike Cox*

1800

0900-1700 EXAMINING ANAEROBES IN THE MICROBIOME: METAGENOMIC AND CULTURE APPROACHES

See page 3 for details

*Laura M. Cox, PhD
Anna Seekatz, PhD
Casey M. Theriot, PhD*

PRECONGRESS WELCOMING MIXER

Catch up with long-time colleagues and meet new friends at a no-host mixer. Details to be announced.

FRIDAY, JULY 29

0700-0820 REGISTRATION / BREAKFAST / EXHIBITS

0820-0830 WELCOME

David N. Fredricks, MD

0830-0930 SESSION I: KEYNOTE—GUT MICROBIAL METABOLISM AND CARDIOVASCULAR DISEASE

Moderator: David N. Fredricks, MD

*Stanley L. Hazen, MD, PhD
Cleveland Clinic, Cleveland, OH USA*

0930-0945 BREAK / EXHIBITS

0945-1145 SESSION II: OUT OF THE BOX: IMPACT OF GUT MICROBES ON NON-GI DISEASE

Moderator: Cynthia Sears, MD

The Microbiome and Cancer Immunotherapy

Fyza Shaikh, MD, PhD

John Hopkins University, Baltimore, MD USA

Spingholipids as Modulators of Microbiome Function

Elizabeth L. Johnson, PhD

Cornell University, Ithaca, NY USA

Specific Gut Bacteria Regulate Innate Immune Functions in the Brain of Aged Mice Related to Alzheimer's Disease

Caroline Wasén, PhD

Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA

Clostridium Perfringens Epsilon Toxin as a Possible Environmental Cause of Multiple Sclerosis in Humans

Jennifer Linden, PhD

Weil Cornell Medicine, New York, NY USA

1145-1330 LUNCH / EXHIBITS

1230-1330 POSTER SESSION I

1330-1515 CONCURRENT SESSIONS

1330-1515 SESSION III: FUSOBACTERIA

Moderator: Yiping W. Han, PhD

Fusobacterium necrophorum in Colorectal Cancer

Yiping W. Han, PhD

Columbia University, New York, NY USA

Experimental Approaches to Identify Virulence Determinants in *Fusobacterium nucleatum*

Hung Ton-That, PhD

University of California, Los Angeles, CA USA

Fusobacteria-Dominant Colorectal Cancer Biofilms are Associated with High Levels of the Polyamine N1, N12-Diacetylspermine

Julia Drewes, PhD

Johns Hopkins University, Baltimore, MD USA

1330-1515

Fusobacterium nucleatum Subspecies Differ in Biofilm Forming Ability *in Vitro*

Maria Muchova, PhD

University of Birmingham, United Kingdom

SESSION IV: METHODOLOGY & EPIDEMIOLOGY

Moderator: Karen Carroll, MD

Understanding the Roles of TCDE and TCDL in Toxin Secretion

Shannon Kordus, PhD

Vanderbilt University, Nashville, TN USA

Identification of a Bile Acid-Binding Transcription Regulator in *Clostridioides difficile* Using Chemical Proteomics

Emily Forster

Tufts University, Boston, MA USA

Natural Mutation Identified in CDTR of Clinical *Clostridioides difficile* Isolate Attenuates Virulence in Mice

Qiwen Dong, PhD

University of Chicago, Chicago, IL USA

FliW and CsrA Govern Flagellin (FliC) Synthesis and Play Pleiotropic Roles in Virulence and Physiology of *Clostridioides difficile* R20291

Xingmin Sun, PhD

University of South Florida, Tampa, FL USA

Comparative Genomic Analysis of *Clostridioides difficile* Strain Restriction Endonuclease Analysis Group Y across Four Decades

Andrew Skinner, MD

Loyola University, Maywood, IL USA

Anaerobic Microbiota Facilitate Pathogen Access to the Airway Epithelium in a Novel Co-Culture Model of Colonization

Ryan Hunter PhD

University of Minnesota, Minneapolis, MN USA

1515-1530 BREAK / EXHIBITS

1530-1730 CONCURRENT SESSIONS

1530-1730 SESSION V: BUGS AS DRUGS: ENGINEERED MICROBIAL COMMUNITIES & FECAL MICROBIOTA TRANSPLANT

Moderator: Vincent Young, MD

Current State of Knowledge: Fecal Microbiota Transplant for Fecal MDRO Colonization

Jennie H. Kwon, DO, MSCI

Washington University, St. Louis, MO USA

The 16th Biennial Congress of the Anaerobe Society of the Americas

Hyatt Regency, Seattle, WA USA

FRIDAY, JULY 29, CONTINUED

Consistent Microbiome and Bile Acid Restoration across Three Clinical Trials of RBX2660 for Recurrent *Clostridioides difficile* Infection: A Combined Analysis
Heidi Hau, PhD

Rebiotix & Ferring Pharma, Roseville, MN USA

Impact of SER-109: An Investigational Microbiome Therapeutic, on Stool Fatty Acid and Bile Acid Metabolites in a Phase 3 Randomized Trial (ECOSPOR III) for Treatment of Recurrent *Clostridioides difficile* Infection (rCDI)

Christopher Ford, PhD

Seres Therapeutics, Inc., Cambridge, MA USA

Efficacy and Safety of SER-109: An Investigational Microbiome Therapeutic for Treatment of Recurrent *Clostridioides difficile* Infection (rCDI): A Phase 3 Double-Blind, Randomized Trial (ECOSPOR III)

Thomas Louie, MD

University of Calgary, Calgary, AB Canada

Anaerobic *pas de deux*: Introducing *Parvimonas micra* Genetics and Its Interspecies and Host Interactions

Justin L. Merritt, PhD

Oregon Health & Science University, Portland, OR USA

Keystone Oral Pathogen Immune Evasion

Richard P. Darveau, PhD

University of Washington, Seattle, WA USA

A Genomic Portrait Reveals the Genetic Plasticity and Evolutionary Adaptation of *Porphyromonas gingivalis*

Mohamed Abdelbary, PhD

Rheinisch-Westfälische Technische Hochschule University Hospital, Aachen, Germany

A Revised Taxonomy of the Genus *Treponema* Delineating Commensal and Pathogenic Organisms

Paul Lawson, PhD

University of Oklahoma, Norman, OK USA

1530-1730 SESSION VI: THE ORAL MICROBIOME AND HUMAN HEALTH

Moderator: *Jeff S. McLean, PhD*

Microbiome Modulation

Wenyuan Shi, PhD

The Forsyth Institute, Boston, MA USA

1730

ASA BUSINESS MEETING

1800

WINE AND CHEESE

NETWORKING RECEPTION

SATURDAY, JULY 30

0700-0800 REGISTRATION / BREAKFAST / EXHIBITS

0800-0945 SESSION VII: FUNCTIONAL ROLES OF ANAEROBES IN THE GASTROINTESTINAL TRACT

Moderator: *Casey M. Theriot, PhD*

Glycan Scavenging by Human Gut Bacteria

Nicole M. Koropatkin, PhD

University of Michigan, Ann Arbor, MI USA

Discovery of Novel Conjugated Bile Acids Made by the Gut Microbiota

Robert A. Quinn, PhD

Michigan State University, East Lansing, MI USA

Characterization of Rare Lachnospiraceae

Anna Seekatz, PhD

Clemson University, Clemson, SC USA

Diversity, Phylogeny, and Antimicrobial Nature of a Bile Acid Conjugation Within the Lachnospiraceae

Douglas Guziar

Michigan State University, East Lansing, MI USA

0945-1000 BREAK / EXHIBITS

1000-1205 SESSION VIII: *CLOSTRIDIODES DIFFICILE*: MANAGEMENT UPDATE

Moderator: *Dale N. Gerding, MD*

Diagnosis of *C. difficile* Infection: NAAT vs. Other Algorithms, Ultrasensitive Toxin Testing

Karen Carroll, MD

The Johns Hopkins University, Baltimore, MD USA

1205-1345

LUNCH / EXHIBITS

1230-1330

SESSION IX: BREAKOUT LUNCH SESSION

Moderator: *Caroline A. Genco, PhD*

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

1230-1330

YOUNG INVESTIGATOR'S PRESENTATIONS

Treatment and Prevention: IDSA/SHEA Guideline Update

Stuart Johnson, MD

Hines VA Medical Center, Hines, IL USA

Impact of Misdiagnosis of *Clostridioides difficile* Infections (CDI) by Standard-of-Care Specimen Collection and Testing on Estimates of Hospitalized CDI Incidence Among Adults in Louisville, Kentucky, 2018-2019

Frederick J. Angulo, DVM, PhD

Pfizer Vaccines, Portland, OR

Update on Ibezapolstat Clinical Trial Development

Kevin Garey, PharmD

University of Houston, Houston, TX USA

Effect of the COVID-19 Pandemic on Rates of *Clostridioides difficile* Infection in One VA Hospital and Correlation with Rates in the National VA Healthcare System

Lorinda Wright, PhD

Edward Hines VA Hospital, Hines, IL USA



Anaerobe 2022

July 28-31, 2022

SATURDAY, JULY 30, CONTINUED

1345-1615 CONCURRENT SESSIONS

1345-1615 SESSION X: BASIC SCIENCE OF *CLOSTRIDIODES DIFFICILE* INFECTION

Moderator: David Aronoff, MD

Phenotypic Heterogeneity in *Clostridioides difficile*

Rita Tamayo, PhD

University of North Carolina, Chapel Hill, NC USA

Immune-Microbiota Interactions in Defense Against *Clostridioides difficile*

Michael C. Abt, PhD

University of Pennsylvania, Philadelphia, PA USA

Germination by *Clostridioides difficile* Spores

Joseph A. Sorg, PhD

Texas A&M University, College Station, TX USA

Sneak Attacks: Host Defense Peptides Enhance Antibiotic Efficacy Against *C. difficile* Without Triggering Spore Formation

Erin Purcell, PhD

Old Dominion University, Norfolk, VA USA

Colonization of Hamsters with Nontoxigenic *Clostridioides difficile* REA Type M3 (M3), Following Treatment with Fidaxomicin or Vancomycin.

Susan Sambol

Loyola University, Maywood, IL USA

Distinct Single-Cell Growth Dynamics of *Clostridioides difficile* Clade 5 Strains Revealed by Anaerobic Time-Lapse Microscopy

John Ribis, PhD

Tufts University, Boston, MA USA

1345-1615 SESSION XI: OPTIMIZING ANAEROBIC CULTIVATION

Moderator: Sujatha Srinivasan, PhD

Revealing the Hidden Lifestyle of an Ultra-Small Bacteria: TM7

Batbileg Bor, PhD

Forsyth Institute, Boston, MA USA

Human Microbiota Diversity through Culture Enriched Metagenomics

Michael G. Surette, PhD

McMaster University, Hamilton, Ontario Canada

Anaerobic Cultivation and Strain-Banking from the Human Gastrointestinal Tract

Anne Neville, PhD

Microbiotica, Cambridge, United Kingdom

Enhancing the Abundance of Understudied Fastidious Species Within Oral Microcosms

Madeline Krieger, PhD

Oregon Health and Science University,
Portland, OR USA

Automated Analysis of Microbial Growth Reveals Phenotypic Diversity of *Clostridioides difficile*

Firas Midani, PhD

Baylor College of Medicine, Houston, TX USA

Pseudomonas aeruginosa Isolates from Chronic Rhinosinusitis Develop Increased Virulence Under Anaerobic Conditions

Do-Yeon Cho, MD

University of Alabama, Birmingham, AL USA

1615-1630 BREAK / EXHIBITS

1630-1730 CONCURRENT SESSIONS

1630-1730 SESSION XII: *CLOSTRIDIODES DIFFICILE* HOT TOPICS

Moderator: Daniel Paredes-Sabja, PhD

Taurine Conjugated Bile Acids Ameliorate Apoptosis Caused by *Clostridioides difficile* Toxins

Casey M. Theriot, PhD

North Carolina State University, Raleigh, NC USA

Olfactomedin-4 Exacerbates *Clostridioides difficile* Infection-Induced Mortality in Mice

Shinsmon Jose, PhD

University of Cincinnati, Cincinnati, OH USA

Sex-Mediated Differences in Murine *Clostridioides difficile* Infection Outcome

Ernesto Abel-Santos, PhD

University of Nevada, Las Vegas, NV USA

The Difficile Genomics Sequencing and Typing Service

Trefor Morris, MSc

Anaerobe Reference Unit, Public Health, Wales
United Kingdom

1630-1730 SESSION XIII: GENETIC MANIPULATION OF ANAEROBES: STRATEGIES AND SUCCESSES

Moderator: Sarah A. Kuehne, PhD

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

Daniel Slade, PhD

Virginia Tech, Blacksburg, VT USA

Genetic Engineering of Oral Anaerobes

Christopher Johnston, PhD

Fred Hutchinson Cancer Research Center
Seattle, WA USA

1900

RECEPTION / BANQUET / AWARDS

PAVILION AT THE OLYMPIC SCULPTURE PARK

See Registration Form for Banquet Tickets



The 16th Biennial Congress of the Anaerobe Society of the Americas

Hyatt Regency, Seattle, WA USA

SUNDAY, JULY 31

0700-0800 REGISTRATION / BREAKFAST / EXHIBITS

0800-1000 SESSION XIV: EMERGING ANAEROBES AND DISEASE ASSOCIATIONS

Moderator: Audrey N. Schuetz, MD

The Veillonellaceae

Ellie J.C. Goldstein, MD

University of California, Los Angeles, CA USA

Novel Anaerobes in the Reproductive Tract

Sujatha Srinivasan, PhD

Fred Hutchinson Cancer Research Center, Seattle, WA USA

Mechanisms of Virulence and Protection in *Paenicostridium sordellii* Infection

Sarah Bernard, MS

Vanderbilt University, Nashville, TN USA

Sneathia vaginalis: An Emerging Pathogen of Pregnancy and Its Pore-Forming Toxin

Kimberly Jefferson, Ph.D.

Virginia Commonwealth University, Richmond, VA USA

Gardnerella Diversity and Ecology in Pregnancy and Preterm Birth

Hannah Berman

North Carolina State University, Raleigh, NC USA

Glycogen Break Down by Vaginal Bacteria

Elliot Lee, EdM

Fred Hutchinson Cancer Research Center, Seattle, WA USA

1000-1015 BREAK / EXHIBITS

1015-1215 CONCURRENT SESSIONS

1015-1215 SESSION XV: ANAEROBES IN LOW BIOMASS ENVIRONMENTS

Moderator: David N. Fredricks, MD

Intro to the Challenge: The Placental Microbiome?

David N. Fredricks, MD

Fred Hutchinson Cancer Research Center, Seattle, WA USA

Fallopian Tube Microbiome Analysis: Potential Pitfalls

Bo Yu, MD, MS

Stanford University, Stanford, CA USA

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

—Anaerobes as Pathogens

Michael G. Surette, PhD

McMaster University, Hamilton, Ontario Canada

—Anaerobes as Commensals and Transients

Pradeep Singh, MD

University of Washington, Seattle, WA USA

—Panel Discussion

The Tumor Microbiome

Susan Bullman, PhD

Fred Hutchinson Cancer Research Center, Seattle, WA USA

1015-1215 SESSION XVI: ONE HEALTH: ANAEROBES IN HUMANS, ANIMALS, AND THE ENVIRONMENT

Moderator: Francisco A. Uzal, DVM, PhD

New insights into Sporulation and Enterotoxin Production by *Clostridium perfringens* Type F

Bruce A. McClane, PhD

University of Pittsburgh, Pittsburgh, PA USA

Genomic and Evolutionary Insights into *C. difficile*: The Quintessential One Health Pathogen

Daniel R. Knight, PhD

The University of Western Australia, Perth Australia

Microbiome Therapy in Companion Animals: Strategies for the Creation of Anaerobic Microbial Complexes

Niokhor Dione, PhD

Animal Microbiome Analytics, Oakland, CA USA

Evaluating the Role of Pore Formation in *Clostridium perfringens* Enterotoxin Permeability Effects

Archana Shrestha, PhD

University of Pittsburgh, Pittsburgh, PA USA

1215-1315 LUNCH / EXHIBITS

1315-1415 POSTER SESSION II

1415-1600 CONCURRENT SESSIONS

1415-1600 SESSION XVII: CLINICAL INFECTIOUS DISEASE: ANAEROBE INFECTIONS

Sponsor: European Society of Clinical Microbiology and Infectious Diseases

Moderator: Jeanne Marrazzo, MD

Increased Variety of Actinomyces Infections

Eija Könönen, DDS, PhD

University of Turku, Turku Finland

Diabetic Wound Infections

Elizabeth A. Grice, PhD

University of Pennsylvania, Philadelphia, PA USA

Real Time Surveillance of Antimicrobial Resistance in Anaerobic Bacteria

Trefor Morris, MSc

Anaerobe Reference Unit, Public Health, Wales UK

Eucast Breakpoints and Methods for Susceptibility Testing of Anaerobic Bacteria

Trefor Morris, MSc

Anaerobe Reference Unit, Public Health, Wales UK

1415-1600 SESSION XVIII: MODEL SYSTEMS TO ELUCIDATE THE BIOLOGY OF ANAEROBES

Moderator: Aimee Shen, PhD

In Vitro Modeling of Anaerobic Communities

Jennifer M. Auchtung, PhD

University of Nebraska, Lincoln, NE USA

Determinants of Biofilm Formation in the Anaerobe Gut Symbiont *Bacteroides thetaiotaomicron*

Jean-Marc Ghigo, PhD

Institut Pasteur, Université de Paris, Paris France

Synbiotic Delivery of Human Microbiota and Paired Fiber Improves Post-Antibiotic Resilience in Mice in Sex-Dependent Ways

Steve Lindemann, PhD

Purdue University, West Lafayette, IN USA

1600 CONGRESS ADJOURNS

Anaerobe 2022

July 28-31, 2022

THE SETTING

Seattle is called the Emerald City for its unrivaled natural beauty—surrounded by greenery all year round and overlooking the waters of Puget Sound. You can view the entire region from atop the Space Needle and visit the various attractions from Pike Place Market to the Chihuly Garden and Glass, the Museum of Flight, and the Seattle Art Museum. There also is a variety of culinary options for the foodies, as well as a lively music scene for the hipsters. For those who are willing to venture farther, day trips can be taken to Bainbridge Island, Mount Rainier National Park, or even Vancouver, Canada. And shopping...there are plenty of options to shop, within steps of the hotel. For more information about Seattle, visit the web site: www.visitseattle.org.

ACCOMMODATIONS

The **ANAEROBE 2022** Congress (July 28-31) takes place at the **Hyatt Regency Hotel** in Seattle, WA. This newly-opened 4.5 star hotel provides an excellent venue for our academic and networking activities, while centrally-located to access Seattle-area must-see attractions. For hotel information: www.hyatt.com/en-US/hotel/washington/hyatt-regency-seattle/sears/.

Discounted hotel accommodations are available at the rate of \$239+tax per night. This rate includes complimentary wireless internet in guest rooms and public spaces and fitness center access. **Discount hotel reservation deadline is July 7, 2022.** Res-

ervations can be made at www.hyatt.com/en-US/group-booking/SEARS/G-ANAO, or call 1 (206) 973-1234, group code G-ANAO.

SOCIAL EVENTS

Tuesday, July 26 or Wednesday, July 27—*Baseball Game*
Discount Tickets are available through the link at www.anaerobe.org for the Seattle Mariners / Texas Rangers baseball game. .

Thursday, July 28—*Pre-Congress Welcoming Mixer*
Catch up with long-time colleagues and meet new friends at a no-host mixer. Details to be announced.

Friday, July 29—*Congress Reception*
The opening day of sessions concludes with a Wine & Cheese Reception for delegates to socialize and network.

Saturday, July 30—*Congress Banquet*

This year's Congress Banquet takes place at the Olympic Sculpture Park Pavilion, where we can watch the sun set over the waters of Puget Sound. The evening will include a reception, a plated 3-course dinner, and presentation of Congress awards. We will also celebrate the careers of members who have recently passed. Banquet tickets must be purchased and entrees selected during Registration. Entree choices are:

- **Flat Iron Steak:** grilled rosemary garlic marinated all natural steak, served sliced with lemon caper salsa verde
- **Chicken Marsala:** free range chicken breast, wild mushrooms, tomatoes, marsala wine, and herbed butter
- **Quinoa Cake:** quinoa cooked in herbs and aromatics with sautéed bell peppers, grilled portobello, and jalapeno aioli

Note: *Banquet tickets will not be sold on-site, they must be purchased in advance, using the Registration Form or on-line at www.anaerobe.org/.*

TRANSPORTATION

Air Travel: Seattle-Tacoma International Airport (SEA) is served by 31 airlines with direct service from 91 domestic and 28 international destinations, including Asia, Canada, Europe, and Mexico.

Alaska Airlines is offering 5% off published fares. Use Promotion Code: ECMD968. The discount is valid for on-line reservations or by calling Alaska Airlines Group Desk: 800-445-4435. (There is a \$15 ticketing fee for using Group Desk.)

American Airlines and One World affiliated airlines are offering a 4% discount off published fares (excluding basic economy and non-discountable fares). Use Promotion Code: 1572EN. The discount is valid for on-line reservations or by calling American Airlines Meeting Services: 800-433-1790.

Airport Transit: The most economical and quickest transit from SEA to the Hyatt Regency during rush hour is Link Light Rail. With trains every 6-10 minutes, tickets are \$3 for the 40 minute trip from SEA to the Westlake station, which is 4 blocks from the Hyatt Regency. Taxi, Uber, Lyft, and Shared Vans rates are approximately \$42 each way.

More detailed options will be included in the Pre-Congress Packet, to be emailed to registered attendees before the Congress.



REGISTRATION INFORMATION

You can register for **ANAEROBE 2022** at the web site—www.anaerobe.org or use the Registration Form enclosed. Registration fees, as stated on the form, must be paid in U.S. dollars.

Discounts are offered to ASA members, students (with submission of current identification), and for early registration received by July 7, 2022.

Congress Registration includes Delegate Packet, Abstract Book, admission to Congress sessions and poster areas, continental breakfasts, coffee breaks, and Friday evening reception. Full registration also includes the Saturday Congress Banquet. Additional dinner tickets may be purchased separately (see Registration Form).

TO REGISTER

On-Line: You can register for **ANAEROBE 2022** via the Internet, using a credit card, at our web site: www.anaerobe.org by July 20, 2022 (early registration discount ends July 7).

By Mail: Registration forms, with credit card information or checks, can be mailed (and received by July 20, 2022) to:

Anaerobe Society of the Americas
P.O. Box 452058
Los Angeles, CA 90045 USA

CANCELLATION POLICY

Congress registration and banquet fees will be refunded (minus a \$30 service fee) if written notification is received by July 20, 2022.

