

Detailed Schedule October 19-21, 2017

Thursday, October 19th

4:00 pm	Check-in at hotel, Calvary Court, 200 Century Ct., College Station, TX 77840 Phone: (979)485-5586
4:00-7:30 pm	Registration opens at the Thomas G. Hildebrand '56 Equine Center Location: Bartlett Recognition Hall
4:00-5:00 pm	Business meeting (Executive committee only) Location: Conference Room in Bartlett Recognition Hall
5:00-6:30 pm	Dinner (on your own)
6:30-7:30 pm	Social Mixer (dessert bar and drinks provided) Location: Bartlett Recognition Hall/Auditorium
7:30 pm	Welcome – Dr. Jenny Hyde, Texas A&M College of Medicine
7:30-8:30 pm	Keynote Address:

Dr. Stefano Bertuzzi, Ph.D., M.P.H.

Chief Executive Officer

American Society for Microbiology (ASM)

Email: sbertuzzi@asmusa.org

Friday, October 20th

7:15-8:30 am Registration open

Location: Bartlett Recognition Hall

7:30-8:30 am Poster Session Set-Up

Location: Auditorium/Bartlett Recognition Hallway

7:30-8:30 am Coffee & Light Breakfast provided

Location: Auditorium

Location: Auditorium

8:30-10:30 am Concurrent Sessions

Location: Andras Classrooms & Auditorium

Session A: Plant and Environmental Microbiology - Andras Classrooms

Session Chair: Dr. Martin B. Dickman

Email: mbdickman@tamu.edu

Institution: Texas A&M AgriLife Research

8:30 am Abstract Title: Seasonal differences in microbial succession during decomposition

in southeast Texas

Presented By: Zechariah Carroll

Institution: Sam Houston State University

8:45 am Abstract Title: Evaluating novel desiccation-tolerant *Bradyrhizobium* inoculants for

symbiotic efficiency and soybean production

Presented By: Dylan Parks

Institution: University of Texas - Arlington

9:00 am Abstract Title: The efficiency of high concentration of ozone to disinfected alfalfa

seeds and sprouts from Shiga-Toxin- Producing Escherichia coli (STEC)

Presented By: Zahra Mohammad Institution: Texas A&M University

9:15 am Abstract Title: Density-dependent colony expansion of socially motile *Myxococcus*

xanthus cells is driven by exopolysaccharides

Presented By: Kimberley Kissoon

Institution: University of Houston-Downtown

9:30 am Abstract Title: Bioprospecting rhizobacteria to improve drought resistance in

grasses

Presented By: Michael Jochum Institution: Texas A&M University

9:45 am Abstract Title: Assessing ecological and health risks of pollutants in Trinity Bay

and Galveston Bay after Hurricane Harvey

Presented By: ChihHung Chen Institution: Texas A&M University

10:00 am Abstract Title: Cover crop impact on soil microbial activity and nitrogen cycling in

rainfed cotton

Presented By: Brian Hux

Institution: Texas A&M University

Session B: General Microbiology - Auditorium

Session Chair: Dr. Zhilei Chen Email: zchen@medicine.tamhsc.edu

Institution: Texas A&M Health Science Center

8:30 am Abstract Title: Structural insights into species-specific features of the ribosome

from human pathogen Mycobacterium tuberculosis

Presented By: Kailu Yang

Institution: Texas A&M University

8:45 am Abstract Title: Blood from trauma patients produces major shifts in *Pseudomonas*

aeruginosa transcriptome

Presented By: Moamen Elmassry Institution: Texas Tech University

9:00 am Abstract Title: Conservation of a novel germination pathway in *Paraclostridium*

bifermentans

Presented By: Disha Bhattacharjee Institution: Texas A&M University

9:15 am Abstract Title: Determining the role of the spoVAD and spoVAE genes in DPA

release during *Clostridium difficile* spore germination

Presented By: Marko Baloh Institution: Texas A&M University

9:30 am Abstract Title: Intracellular competition and cooperation mediate viral decision-

making

Presented By: Jimmy Trinh Institution: Texas A&M University

9:45 am Abstract Title: Effect of DNA replication on bacteriophage lambda decision-making

Presented By: Qiuyan Shao Institution: Texas A&M University

10:00 am Abstract Title: Using CRISPR-Cas9-mediated genome editing to generate

Clostridium difficile mutants defective in selenoprotein synthesis

Presented By: Kathleen McAllister Institution: Texas A&M University

10:15 am Abstract Title: The type IV secretion effector CBU1217 alters the host innate

response to *Coxiella burnetii*Presented By: Elizabeth Case

Institution: Texas A&M Health Science Center

10:30-10:45 am **Break**

10:45-11:30 am **Keynote Address:**

Location: Auditorium

Dr. Karl Klose, Ph.D.

University of Texas at San Antonio

ASM Distinguished Lecturer and Robert J. Kleberg Jr. and

Helen C. Kleberg, College of Sciences Professor

Email: karl.klose@utsa.edu

11:30 am-2:00 pm Lunch and Poster Session (Boxed Lunch provided in *Pavilion*)

(All posters manned by presenters between 12:00 – 2:00 pm)

Poster Location: Auditorium/Bartlett Recognition Hall

Vendor tables available in Bartlett Recognition Hall

2:00-3:00 pm Career Panel

Location: Auditorium

3:00-3:15 pm Coffee Break

Location: Auditorium

3:15-4:30 pm Concurrent Sessions

Location: Andras Classrooms & Auditorium

Session C: Vector Borne Disease – Andras Classrooms

Session Chair: Dr. Jere McBride Email: jemcbrid@utmb.edu

Institution: The University of Texas Medical Branch

3:15 pm Abstract Title: The loss of vector competency and transmission of the relapsing

fever spirochete, Borrelia turicatae, in association with in vitro cultivation

Presented By: Aparna Krishnavajhala Institution: Baylor College of Medicine

3:30pm Abstract Title: Arthropod-borne emerging infectious diseases in Texas skunks:

implications for public health and conservation medicine

Presented By: Bonnie E Gulas Wroblewski

Institution: Texas A&M College of Veterinary Medicine and Biomedical Sciences

3:45 pm Abstract Title: The vls system of Borrelia burgdorferi does not allow Lyme disease

spirochetes to persistently evade the rabbit antibody response.

Presented By: Maliha Batool Institution: Texas A&M University

4:00 pm Abstract Title: Evaluation of immunogenicity and protective efficacy of a Borrelia

burgdorferi BB0172- derived conjugated peptide in mice against Lyme disease

Presented By: Wisam Hassan Institution: Texas A&M University

Session D: Undergraduate Student Presentations – Auditorium

Session Chair: Ana Cabello Email: acabello@cvm.tamu.edu Institution: Texas A&M University

3:15 pm Abstract Title: Antimicrobial activity of silver ibuprofen against multi-drug resistant

(MDR) Gram-positive and Gram-negative pathogens

Presented by: Sabona B. Simbassa Institution: Texas A&M University

3:30 pm Abstract Title: Resistance to Φ NPV1 is accompanied by daptomycin sensitivity

and susceptibility to osmotic stress in Enterococcus faecalis

Presented By: Khang Ho

Institution: The University of Texas at Dallas

3:45 pm Abstract Title: Developing a combination of antifungal treatments against

Mucormycosis

Presented By: Alejandra Lorenzen

Institution: University of Texas at San Antonio

4:00 pm Abstract Title: Diversity of bacteria in the readily culturable microbiome of

university students

Presented By: David Carr

Institution: University of Houston Clear Lake

4:15 pm Abstract Title: Circadian orchestration of symbiotic nitrogen fixation in

photosynthetic Rhizobia associated with Aeschynomene legumes

Presented by: Christian Peterson

Institution: University of Texas Arlington

4:30-4:45 pm **Break**

4:45-5:30 pm Award Ceremony for Oral and Poster Presentations

Location: Auditorium

5:30-6:00 pm Clinical Microbiology Keynote Address:

Location: Auditorium

Dr. Carrie L. Byington, M.D.

The Jean and Thomas McMullin Professor and Dean of Medicine

Senior Vice President, Health Science Center

Vice Chancellor for Health Services

Texas A&M University

Email: mayland@tamhsc.edu

6:00-7:30 pm **Dinner provided. Cash bar available.**

Location: Pavilion

7:30 pm Dance performance provided by the Aggie Wranglers

Location: Pavilion

8:00-10:00 pm Music provided by If Birds Could Fly

Location: Pavilion

Saturday, October 21st

7:30-11:00 am Registration open

Location: Bartlett Recognition Hall

8:00-9:00 am Coffee & Light Breakfast provided

Location: Auditorium

9:00-10:00 am Concurrent Sessions

Location: Andras Classroom A & B

Session E: Microbial Pathogenesis and Immunology, Section A

(Microbiology emphasis) - Andras Classrooms

Session Chair: Dr. Koichi Kobayashi Email: <u>kobayashi@medicine.tamhsc.edu</u> Institution: Texas A&M Health Science Center

9:00 am Abstract Title: Kinetics of intratracheal aerosol inoculation in a guinea pig model

for *Brucella melitensis* infection Presented By: Martha Hensel Institution: Texas A&M University

9:15 am Abstract Title: Imaging a guinea pig model of pneumonia utilizing bioluminescent

Pseudomonas aeruginosa and Klebsiella pneumoniae

Presented By: Dr. Riti Sharan

Institution: Texas A&M Health Science Center

9:30 am Abstract Title: 3-sulfo-galactosyl dependent adhesion of Escherichia coli HS

Multivalent Adhesion Molecule is attenuated by sulfatase activity

Presented By: Diana Pereira Vaz

Institution: University of Texas Health Science Center at Houston

9:45 am Abstract Title: Dissecting actinobacterial dormancy and resuscitation at the

molecular level

Presented By: Dr. Steven J Bark Institution: University of Houston

Session F: Microbial Pathogenesis and Immunology, Section B

(Microbiology emphasis) - Auditorium

Session Chair: Dr. David McMurray
Email: mcmurray@medicine.tamhsc.edu
Institution: Texas A&M Health Science Center

9:00 am Abstract Title: Safety, tolerability, and effects on alveolar macrophages of a

nebulized TLR agonist combination in foals

Presented By: Dr. Angela Bordin Institution: Texas A&M University

9:15 am Abstract Title: Pyoverdine kills mammalian cells through mitochondrial damage

via iron removal

Presented By: Dr. Natasha Kirienko

Institution: Rice University

9:30 am Abstract Title: Characterization of guinea pig PML bodies and the role of guinea

pig cytomegalovirus immediate-early proteins in PML disruption and virus

pathogenicity

Presented By: Dr. Yeon Choi

Institution: Texas A&M Health Science Center

9:45 am Abstract Title: Brucella subverts host RIDD activity to promote intracellular

parasitism

Presented By: Kelsey M. Way

Institution: Texas A&M Health Science Center

10:00-11:00 am Concurrent Sessions

Location: Andras Classroom A & B

Session G: Food Safety and Food Microbiology – Andras Classrooms

Session Chair: Suresh Pillai Email: spillai@tamu.edu

Institution: Texas A&M Agriculture & Life Sciences

10:00 am Abstract Title: A metabolomic analysis of the response of E. coli O26 to electron

beam irradiation

Presented By: Sohini Bhatia Institution: Texas A&M University

10:15 am Abstract Title: Effects of intermittent feeding of tylosin phosphate during the

finishing period on antimicrobial resistance of Enterococcus spp. in feedlot steers

Presented By: Olanrewaju James Ogunrinu

Institution: Texas A&M University

10:30 am Abstract Title: Effects of increasing concentrations of dietary zinc on levels of

antimicrobial resistance among fecal Escherichia coli in feedlot cattle

Presented By: Ethan A Taylor Institution: Texas A&M University

10:45 am Abstract Title: Towards more robust metagenome profiling

Presented By: David Burk

Institution: University of North Texas

Session H: Microbiome – Auditorium Session Chair: Arul Jayaraman Email: <u>arulj@mail.che.tamu.edu</u> Institution: Texas A&M University

10:00 am Invited speaker: Dr. Robert Alaniz, Texas A&M Health Science Center

Email: alaniz@medicine.tamhsc.edu

10:30 am Abstract Title: NFkB: Integrator of host-diet-microbiota interactions

Presented By: Crissie Vandehoef

Institution: Texas A&M Health Science Center

10:45 am Abstract Title: Human nasal microbiomes in a novel ex vivo mucosal model

elucidate host-microbe and microbe-microbe interactions

Presented By: Sarah Hoskinson

Institution: University of Texas Medical Branch at Galveston

11:00 am Abstract Title: Dysbiosis of microbiota after ingestion of Mucor circinelloides

isolated from a yogurt in a murine model

Presented By: Katherine Mueller

Institution: The University of Texas at San Antonio

11:15 am Conclusion of Meeting