**Lyme & Other Tick-Borne Diseases: 20th Annual Scientific Update for Clinicians & Researchers**

An educational and networking event featuring prominent speakers on tick-borne diseases.

**AGENDA - SATURDAY, September 21, 2019**

**Registration / Exhibit / Continental Breakfast** (7:15 a.m.-8:00 a.m.)

Patricia V. Smith, Provost, PhD, MD, MPH (8:00 a.m.-9:00 a.m.)

President, Emory University at the University of Pennsylvania

Charles Chin, MD, PhD (9:00 a.m.-9:45 a.m.)

Professor of Microbiology and Immunology

Yale School of Medicine, New Haven, CT

George M. Chaconas, PhD (9:45 a.m.-10:30 a.m.)

Professor, Microbiology

Yale School of Medicine, New Haven, CT

**Morning Coffee Break (9:45 a.m.-10:00 a.m.)**

Jennifer A. Cerny, PhD, MD (10:00 a.m.-10:15 a.m.)

Adjunct Professor of Pediatrics

University of California, San Francisco

**Morning Discussion Panel (10:15 a.m.-10:40 a.m.)**

Mark H. Gudas, MD (10:15 a.m.-10:25 a.m.)

Professor of Biomedical Engineering

Prevention and Health Promotion

University of California, San Francisco

Peter Novak, MD, PhD (10:25 a.m.-10:35 a.m.)

Chief, Division of Infectious Diseases

Denver Health Medical Center

**Lunch Break (10:35 a.m.-12:00 p.m.)**

Holly M. Frost, MD (12:00 p.m.-12:15 p.m.)

Director, Department of Pediatrics

University Health Network

Sandor Szapary, MD (12:15 p.m.-12:30 p.m.)

Director, Division of Infectious Diseases

University of Cincinnati-Clinical Center

Robert M. Shostak, MD (12:30 p.m.-12:45 p.m.)

Professor of Medicine, Pathology, Molecular Biology and Genetics

Johns Hopkins University School of Medicine

Lance A. Liotta, MD, PhD (12:45 p.m.-1:00 p.m.)

Professor of Medicine, Pathology, Molecular Biology and Genetics and Molecular Microbiology and Immunology

Johns Hopkins University School of Medicine

**Afternoon Coffee Break (1:00 p.m.-1:15 p.m.)**

Chaimen Ben Manoukian, MD, MPH (1:15 p.m.-1:30 p.m.)

Professor of Medicine

Department of Medicine

University of California, San Francisco

**Afternoon Discussion Panel (1:30 p.m.-2:00 p.m.)**

Andrew Steere, MD (1:30 p.m.-1:40 p.m.)

Professor and McIngvale Presidential Endowed Chair in Medicine

F. Edward Hébert School of Medicine

Bethesda, MD

Brian A. Fallon, MD, MPH (1:40 p.m.-1:50 p.m.)

Director, Lyme & TBD Research Center

New York, NY

**Lunch Break (1:50 p.m.-2:15 p.m.)**

Jonathan Jahrling, MD (2:15 p.m.-2:30 p.m.)

Professor of Pathology and Immunology

Washington University School of Medicine

St. Louis, Missouri

Brian A. Fallon, MD, MPH (2:30 p.m.-2:45 p.m.)

Director, Lyme & TBD Research Center

New York, NY

**Afternoon Coffee Break (2:45 p.m.-3:00 p.m.)**

Chaimen Ben Manoukian, MD, MPH (3:00 p.m.-3:15 p.m.)

Professor of Medicine

Department of Medicine

University of California, San Francisco

**Mid-Afternoon Discussion Panel (3:15 p.m.-4:00 p.m.)**

Matthew Sugarman, PhD, MD, MPH (3:15 p.m.-3:40 p.m.)

Professor of Pediatrics, Molecular Genetics and Microbiology, and Community Medicine

University of Medicine and Dentistry of New Jersey

Loring W. Thomas, MD (3:40 p.m.-3:50 p.m.)

Professor of Microbiology and Immunology

University of California, San Francisco

**Late Afternoon Discussion (4:00 p.m.-4:15 p.m.)**

Susan E. Lynch, MD, PhD (4:00 p.m.-4:15 p.m.)

Director, University of California, San Francisco, Canada

**SCHOLARSHIPS OFFERED Lyme Disease Association, Inc. (LDA)**

**REGISTRATION, HOTEL & CONFERENCE DETAILS go to the LDA website www.LymeDisease.org**

**Lyme Disease Association, Inc.**

A National Non-Profit

Hilton Philadelphia at Penn’s Landing

Philadelphia, PA 19101

**Jointly Provided by:**

Lyme Disease Association, Inc.

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Accreditation: This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint participation of the Columbia University Vagelos College of Physicians and Surgeons and the Lyme Disease Association. The Columbia University Vagelos College of Physicians and Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

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Learning Objectives: Clinicians should have better ability to use current diagnostic tests and understand the difference between direct & indirect testing. Clinicians should be able to describe the manifestations and tests to be selected for different tick-borne fever agents. Clinicians should be able to explain to patients that changes in the microbiome may impact brain function. Clinicians should be able to describe some of the key features of meningitis in Lyme disease. Clinicians should be able to describe the pertinent points of research in Lyme disease. Clinicians should be able to describe the possible ocular, neurologic, and cardiac effects of Lyme disease.

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Clinicians should be able to describe some of the key features of meningitis in Lyme disease.
Charles Chiu, MD, PhD — “Multi-omics approaches to diagnosis of Lyme disease and other tick-borne infections”

There has been an increase in the number of cases of tick-borne diseases due to a combination of more intense tick exposure, increased awareness, and the development of new diagnostic tests. In this talk, Dr. Chiu will review his work on the development of new diagnostic tests for Lyme disease and other tick-borne infections. He will describe the use of high-throughput sequencing technologies for the detection of tick-borne pathogens, and how these approaches have led to the discovery of new pathogens and the development of new diagnostic assays for these infections.

Oliver Low, MD, PhD, MS, MPH, MD — “Shedding light on the pathogenesis of the Lyme disease spirochete”

One of the most difficult features of Lyme disease is that it causes diagnostic difficulty in the identification of the causative agent. As a result, many patients are misdiagnosed or not diagnosed at all. In this talk, Dr. Low will discuss recent findings that shed light on the pathogenesis of the Lyme disease spirochete. He will describe how his team used a combination of genomics, microscopy, and functional assays to identify new mechanisms of bacterial evasion and persistence, which could have implications for the development of new diagnostic and therapeutic approaches.

Ada Eke, MD, FACCP, FACP, FCPP — “Systematic approach for the diagnosis and treatment of heart failure”

Heart failure is a common and growing condition that affects millions of people worldwide. In this talk, Dr. Eke will present her work on developing a systematic approach for the diagnosis and treatment of heart failure. She will discuss how her team has been using a combination of clinical and imaging data to identify patients at high risk for heart failure and to develop personalized treatment plans that improve outcomes. Dr. Eke will also highlight the importance of ongoing research to improve our understanding of heart failure and to develop new therapies for this complex condition.