



Stanford | MEDICINE

*Emerging Research, Diagnosis and Treatment of
Lyme Disease and Tick-Borne Illness*
September 14-15, 2019
Li Ka Shing Center for Learning and Knowledge
Stanford, CA

Program

Subject to change.

Saturday, September 14, 2019	
7:30 am	Registration <i>Breakfast</i>
8:30 – 8:40 am	Opening Remarks <i>Elizabeth Lee-Lewandrowski, PhD, MPH, Kent Lewandrowski, MD, William Robinson, MD, PhD, Linda Giampa, Wendy Adams</i>
Overview of Lyme Disease and Tick-borne Illness	
<i>Moderator: Kent Lewandrowski, MD</i>	
8:40 – 9:00 am	Overview of Lyme Disease and the History of Major Milestones <i>Allen Steere, MD</i>
9:00 – 9:25 am	Tick Vectors and Ecology in California and the United States <i>Daniel Salkeld, PhD</i>
9:25 – 9:45 am	Tick-Borne Infections in California <i>Anne Kjemtrup, DVM, MPVM, PhD</i>
9:45 – 10:00 am	Q&A <i>Allen Steere, MD, Daniel Salkeld, PhD, and Anne Kjemtrup, DVM, MPVM, PhD</i>
10:00 – 10:15 am	Break
Clinical Features of Lyme Disease	
<i>Moderator: John Aucott, MD</i>	
10:15 – 10:35 am	Clinical Aspects of Early and Early Disseminated Lyme Disease in Adults and Children <i>Lise E. Nigrovic, MD, MPH</i>
10:35 – 10:55 am	Connecting the <i>Borrelia burgdorferi</i> Peptidoglycan to Lyme Arthritis <i>Christine Jacobs-Wagner, PhD</i>
10:55 – 11:15 am	Laboratory Diagnosis of Lyme Disease and Performance of Tests in Different Strains of <i>Borrelia burgdorferi</i> <i>John A. Branda, MD</i>
11:15 – 11:30 am	Q&A <i>Lise E. Nigrovic, MD, MPH, Christine Jacobs-Wagner, PhD, and John A. Branda, MD</i>

Tick-Borne Illness Other Than Lyme Disease	
<i>Moderator: Bobbi S. Pritt, MD</i>	
11:30 – 11:55 am	Clinical Aspects of Other TBI: <i>Borrelia miyamotoi</i>, <i>Borrelia mayonii</i> <i>Bobbi S. Pritt, MD</i>
11:55 am – 12:20 pm	Clinical Aspects of Babesiosis, Anaplasmosis, Ehrlichiosis, Bartonellosis <i>J. Stephen Dumler, MD</i>
12:20 – 12:30 pm	Q&A <i>Bobbi S. Pritt, MD and J. Stephen Dumler, MD</i>
12:30 – 1:10 pm	Lunch
Emerging Avenues of Diagnostics	
<i>Moderator: Charles Chiu, MD, PhD</i>	
1:10 – 1:30 pm	Genotyping Lyme Pathogen Strains by Deep Sequencing and its Potential as a Diagnostic Tool for Tick-Borne Pathogens <i>Wei-Gang Qiu, PhD</i>
1:30 – 2:00 pm	Multiplex Next-generation Sequencing in Identifying Multipathogens and Emerging Pathogens <i>Charles Chiu, MD, PhD</i>
2:00 – 2:20 pm	Next-generation Vaccines for Lyme Disease with Outer Surface Protein C (OspC) <i>Richard T. Marconi, PhD</i>
2:20 – 2:35 pm	Q&A <i>Wei-Gang Qiu, PhD, Charles Chiu, MD, PhD, Richard T. Marconi, PhD</i>
2:35 – 2:50 pm	Break
Characterization of the Immune Response to Lyme Disease	
<i>Moderator: William Robinson, MD, PhD</i>	
2:50 – 3:10 pm	Animal Models of Lyme Disease <i>Nicole Baumgarth, DVM, PhD</i>
3:10 – 3:30 pm	Systems Immunology Characterization of Lyme Disease <i>Purvesh Khatri, PhD</i>
3:30 – 3:50 pm	Characterizing the T Cell Responses in Lyme Disease <i>Mark Davis, PhD</i>
3:50 – 4:10 pm	Antibody Responses in Lyme Disease <i>William Robinson, MD, PhD</i>
4:10 – 4:25 pm	Q&A <i>Nicole Baumgarth, DVM, PhD, Purvesh Khatri, PhD, Mark Davis, PhD, and William Robinson, MD, PhD</i>
4:25 pm	Adjourn

Sunday, September 15, 2019	
7:30 am	Registration <i>Breakfast</i>
Post-Treatment Lyme Disease Syndrome (PTLDS)	
<i>Moderator: John Aucott, MD</i>	
8:30 – 8:50 am	Later Presentations of Lyme Disease and PTLDS: Neurological, Rheumatologic and Immunological Aspects of Lyme Disease <i>John Aucott, MD</i>
8:50 – 9:10 am	Lyme Carditis <i>Adrian Baranchuk, MD</i>
9:10 – 9:30 am	Metabolomic Analysis of Lyme Disease and Chronic Fatigue Syndrome <i>Ronald W. Davis, PhD</i>
9:30 – 9:50 am	Small Fiber Neuropathology as a Biomarker for PTLDS <i>Nevena Zubcevik, DO</i>
9:50 – 10:10 am	New Research and New Approaches to Treatment of PTLDS <i>John Aucott, MD</i>
10:10 – 10:25 am	Q&A <i>John Aucott, MD, Adrian Baranchuk, MD, Ronald W. Davis, PhD, and Nevena Zubcevik, DO</i>
10:25 – 10:40 am	Break
Emerging Avenues of Treatment	
<i>Moderator: Richard T. Marconi, PhD</i>	
10:40 – 11:00 am	Development of Novel Antibiotic Combinations for Lyme Disease <i>Ying Zhang, MD, PhD</i>
11:00 – 11:20 am	Mechanisms of Phagocyte Clearance of <i>B. burgdorferi</i> Infection <i>Michal Caspi Tal, PhD</i>
11:20 – 11:40 am	The Lyme Disease Biobank –Characterization of 550 Samples from 2014-2018 <i>Liz Horn, PhD, MBI</i>
11:40 am – 12:00 pm	Q&A and Open Discussion <i>Ying Zhang, MD, PhD, Michal Caspi Tal, PhD, and Liz Horn, PhD, MBI</i>
12:00 – 12:05 pm	Closing Remarks
12:05 pm	Adjourn