Course Objectives To learn about: scope of & clinical manifestations of Lyme disease in the US; treatment strategies for Lyme patients & the role of nutrition in optimizing health; mechanisms of virulence & persistence by the Lyme spirochete; animal models, their role in documenting persistence, & the implications of recent findings; tick-borne diseases & pregnancy; depression in Lyme disease & the evaluation & care of the suicidal patient; Lyme disease testing in Europe; long-term course of neurologic Lyme disease & unusual manifestation; possible relationship between antiphospholipid syndrome & post-treatment Lyme disease.
LYME DISEASE ASSOCIATION/ 
COLUMBIA UNIVERSITY 
SCIENTIFIC CONFERENCE

Brian A. Fallon, MD, MPH  Lyme disease, depression, and suicide 
Prof. Columbia University Med. Center; Dir., Lyme & Tick-Borne Diseases Research Center; 
NYS Psych Inst. 
Stephen W. Barthold, DVM, PhD Overview of Bb in the mouse - 
persistence & antibiotic response 
Professor; Director Center for Comparative Medicine University of California, Davis 
C.W. Ang, MD, PhD Serologic tests for Lyme disease - how reliable are they? 
Associate Professor Medical Microbiology; Head, Dept. of Virology & Serology., VU University Medical Center, Netherlands 
John N. Aucott, MD Microbiologic & immune events in early 
Lyme disease 
Instructor, Johns Hopkins University School of Medicine; Private Practice, Maryland 
Nicole Baumgarth, DVM, PhD B cell subversion during Borrelia 
infected - a persistence strategy 
Professor of Pathology, Microbiology, Immunology; University of California, Davis 
C. Ben Beard, PhD Trends in tick-borne diseases in US 
Chief, Bacterial Diseases Branch, Division of Vector-Borne Infectious Diseases, CDC 
Ibrahim M. Binalsheikh, MD Neurologic Lyme disease and Alice in 
Wonderland syndrome 
Pediatric Neurologist, Tufts University / Floating Hospital for Children, Massachusetts 
Diego Cadavid, MD Blood brain barrier & impact of Borrelial infection 
Adj, Assoc. Prof., UMDNJ. Consultant, MA Gen. Hosp.; Dir. MS Clinical Dev. Group, Biogen Idec 
Michael Cichon, MD, MS Considerations in the diagnosis and 
treatment of tick-borne diseases 
Pediatric Neurologist, Tufts University / Floating Hospital for Children, Massachusetts 
Monica Embers, PhD Post-treatment persistence & sero diagnosis of 
Lyme disease: studies in rhesus macaques 
Research Assistant Professor , Tulane National Primate Research Center, Louisiana

Martin Fried, MD, FAAP, ABPNS Nutrition & Lyme disease 
Pediatric Gastroenterologist, Board Certified: Physician Nutrition Specialist, private practice, NJ 
Tom P. Greco, MD Antiphospholipid antibodies in patients with 
purported chronic Lyme disease 
Assoc. Clinical Prof. of Medicine Yale University, Chief, Inflammatory Disease Section St. Mary's Hospital, CT 
Linden T Hu, MD Reservoir targeted vaccines for control of 
Lyme disease 
Professor of Medicine; Attending Physician; Tufts University School of Medicine, MA 
Kim Lewis, PhD Antibiotic tolerance & microbial persistence 
Northeastern University Distinguished Professor; Director, Antimicrobial Discovery Center, U. of TX Med. School 
Emmanuel Mongodin, PhD Genome stability of Lyme disease 
spirochetes 
Assistant Professor, Institute for Genome Sciences, University of Maryland 
Steven J. Norris, PhD How do Lyme disease Borrelia cause disease? 
Greer Professor & Vice Chair for Research, University of TX-Houston Medical School 
Eva Sapi, PhD In Vitro antimicrobial sensitivity studies 
Assoc. Prof. & University Research Scholar, Dir.Lyme Disease Research Program U of New Haven CT 
Alireza Shamshirsaz, MD Tick-borne diseases and pregnancy 
Dept. of Obstetrics & Gynecology, University of CT Health Center; Assist. Prof., Baylor College of Medicine, TX 
Janis Weis, PhD Mouse model of chronic inflammatory response 
to B. burgdorferi 
Professor of Pathology; Director of the Microbial Pathogenesis Training Grant which sponsors the 
Microbial Pathogenesis Seminar Series, University of Utah

Accreditation: This activity has been planned and implemented in accordance with the Essential Areas and Policies of the 
Accreditation Council for Continuing Medical Education through the joint sponsorship of the College of Physicians and Sur-
goners of Columbia University and the Lyme Disease Association. The College of Physicians and Surgeons of Columbia 
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