

Photos from LDA/Columbia 20th Annual Lyme Conference

LDA/Columbia 20th Annual Lyme Conference

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2019 Annual Scientific Conference: Lyme & Other Tick-Borne Diseases: 20th Annual Scientific Update for Clinicians & Researchers

CONFERENCE SOLD OUT



The Lyme Disease Association will hold the 20th annual

scientific conference, *Lyme & Other Tick-Borne Diseases: 20th Annual Scientific Update for Clinicians & Researchers*, on September 21 & 22, 2019 in Philadelphia, PA at the Hilton Penn's Landing on the banks of the Delaware. Columbia University jointly provides the conference.

This conference is designed for medical & health professionals & researchers, but it is also open for registration to the general public. Adults only. Scholarships for conference and transportation will be made available for Medical student; resident; post-doctoral candidate; fellow; nurse practitioner candidate; doctor or nurse practitioner new to practice, i.e., less than 5 years experience; veterinarian with equivalent status to the aforementioned; physician assistant whose sponsoring physician writes a letter of support on office letterhead; representative from a public health department.

The conference features faculty consisting of clinicians and researchers from across the US and other countries. Brian A. Fallon, MD, MPH, Columbia University College of Physicians & Surgeons, the Conference Director, will speak on *Clinical Trials: Biologic & Clinical Measures of Change*. Other speakers include Charles Chiu, MD PhD: *Multi-Omics approaches to diagnosing Lyme & TBD*; George Chaconas, PhD: *Intravital imaging to study Lyme dissemination*; Adrian Baranchuk, MD: *Lyme carditis diagnosis & management*; Emir Hodzic, DVM, PhD: *Post-treatment persistence of Bb in mouse model*; Mark Soloski: PhD, *LD host immune response*; Holly M. Frost, MD: *Pitfalls of LD serologic assays*; Ingeborg Dziedzic, MD: *Lyme disease & the eye*; Lance A. Liotta, MD, PhD: *Shedding of urinary tick pathogen-specific proteins in patients with tick borne diseases*; and Osama Haddad, MD: *Mitral Valve Endocarditis: A Rare Manifestation of Lyme Disease*

Additional speakers are Margaret MacDonald, MD, PhD: *Powassan virus*; Choukri Ben Mamoun, PhD: *Babesia duncani in vitro culture*; Philip Strandwitz, PhD: *The Gut-Brain-Axis -*

Potential Therapeutic Targets and J. Stephen Dumler, MD: *Human Granulocytic Anaplasmosis-Emerging Faster than Lyme*; Daniel Sonnenshine, PhD: *Expansion of TBD vectors & implications of spread of TBD*; and Paige Armstrong, MD, MHS: *Rickettsial diseases*; Robert Naviaux MD, PhD: *Lyme & Chronic Fatigue Syndrome*; Eric Storch, PhD: *Obsessive Compulsive Disorder*; Peter Novak, MD, PhD: *Neurological correlates of Post Treatment Lyme Disease Syndrome*; and Joanna Lyon, PharmD, MEd: *The possible association between the human ABCB1 gene and Post Treatment Lyme Disease Syndrome*. Elizabeth Maloney, MD and Sam T. Donta, MD will be conference facilitators.

Speakers represent Columbia University, Johns Hopkins University School of Medicine, Yale School of Medicine, Mayo, Harvard Medical School, Uniformed Services University, CDC, UCSF School of Medicine, Queens University Canada, University of Calgary Canada, Northeastern University, University of Colorado School of Medicine, UC Davis Veterinary Medicine, Rockefeller University, UCSD School of Medicine, University of Maryland School of Pharmacy, Old Dominion University, George Mason University, University of Oklahoma Health Sciences Center, Baylor College of Medicine and an ophthalmology practice.

[Click here for Agenda](#)

[Click here for Faculty Biographies](#)

[Click here for Conference Flyer](#)

[Click here for Conference Brochure](#)

[Click below for Pre-Conference Video](#)

Poster Presentations

Abstracts will be considered for poster presentations at the conference – submission deadline TBA

email: **Baf1@cumc.Columbia.edu**, copy to **bettymal2003@yahoo.com**

Exhibit space

Exhibit space will be available.

Hilton Philadelphia at Penn's Landing

201 S. Christopher Columbus Blvd., Philadelphia, Pennsylvania
19106

(website)

For online reservations click here (Room Block)

Or call 1-215-521-6500 (You must tell the hotel that you are a
"Lyme Conference Attendee" for the room block discount)

Parking:

Self parking: \$32.00 (Connected to hotel)

Valet: \$44.00 (24 hour service)

Check-in 3 pm / Check-out 12 pm

Click here for Photos from 2019 Conference (alternate view)

Or use page navigation for photos below

ngg_shortcode_1_placeholder**Photos from Prior Conferences**



Ying Zhang, MD, PhD, Johns Hopkins School of Public Health – November 14, 2015 – LDA/Columbia Annual Scientific Conference (LDA file photo)



Joseph Breen, PhD National Institutes of Health (NIH) Morning Facilitator – May 3, 2014, LDA/Columbia Annual Scientific Conference (LDA file photo)



September 29, 2012, LDA/Columbia Annual Scientific Conference – Discussion (morning speakers) (Photo: Jessica Harper Thomson)

Conference Registration
Exhibitor Registration

Scholarship Application

NO MORE SCHOLARSHIPS AVAILABLE

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

If you DO NOT meet the below eligibility requirements, PLEASE DO NOT APPLY.

Who is eligible to apply

Medical student; resident; post-doctoral candidate; fellow; nurse practitioner candidate; doctor or nurse practitioner new to practice, i.e., less than 5 years experience; veterinarian with equivalent status to the aforementioned; physician

assistant whose sponsoring physician writes a letter of support on office letterhead; representative from a public health department.

What is the scholarship for

To enable participation in the LDA/Columbia CME Conference "Lyme Disease Association's 20th annual Lyme & Other Tick-Borne Diseases Scientific Conference" (September 21 & 22, 2019, Philadelphia, PA)

Why is this scholarship being provided

Our goal is to disseminate knowledge to the above eligible categories so they can learn from leading scientists and clinicians about the progress in Lyme & tick-borne diseases. Such knowledge stimulates novel research ideas, forges collaborations, and enhances clinical care.

Deadline

LDA must receive the application from you by August 1, 2019 to be considered for a scholarship. Applicants will be considered on a first come first serve basis until the funds are depleted.

How will the scholarships be awarded

Scholarships will be awarded at the sole discretion of the Lyme Disease Association, Inc. (LDA). If the information you provided is found subsequently to be untrue, you will be required to reimburse the LDA for the full cost of the scholarship award.

How will the scholarship will be administered

The LDA will notify you of its decision. If you are accepted, detailed instructions will be sent to you. Reimbursement policies will be sent to you at the time of acceptance.

Total of scholarship including registration fee, hotel, and transportation will not exceed \$1,000. ALL expenses are incurred by you upfront for conference registration, hotel and transportation. Accepted applicants will need to submit an LDA reimbursement form with all receipts attached after the conference to receive eligible reimbursement up to \$1,000.

How to Apply

Submit the following documentation to certify your eligibility for this scholarship:

1. Verify identity:

- ID card from the institution/practice/health dept. in which you are attending/employed OR
- Letter on institution/practice/health dept. stationary signed by the department chair, dean, faculty mentor/member who knows you the best, doctor or director. His/her contact information should be included.

2. Personal W-9 (don't forget to sign and date it)

3. The online application form below and required documents you will upload must be received by August 1, 2019 (12M ET). Questions email LDA@LymeDiseaseAssociation.org

2019 Conference Scholarship Application

▪ Name*

First Last

▪ Address*

Street Address City State
/ Province / Region ZIP / Postal Code
 Country

▪ Email*

▪ Phone*

▪ Fax

▪ Your enrolled institution/practice/health dept.*

▪ Category Eligibility*

- Medical Student
- Medical Resident
- Medical Post-Doctoral Candidate
- Medical Fellow
- Nurse Practitioner Candidate
- Doctor or nurse practitioner new to practice
- Veterinarian with equivalent status to all the above categories
- Physician assistant with sponsoring physician letter of support
- Public health official
- Other

▪ If "Other" checked above, provide details

▪ Reason for interest in conference*

▪ How would you travel to the conference?*

- Own car
- bus
- train
- plane
- other

▪ Will you require a hotel room*

- Yes
- No

▪ Hotel room needed for what date/dates?

- Friday 9/20
- Saturday 9/21

- Personal W-9*

- Institution/Practice/Health Dept. Identity*

- Physician Assistant - Required letter of support from sponsoring physician on office letterhead.

- CAPTCHA

Submit

THANK YOU!

This activity is supported by independent educational grants
from:

Steven & Alexandra Cohen Foundation



2019 Scientific Conference Jointly Provided by



**Lyme Disease
Association, Inc.**



COLUMBIA

VAGelos COLLEGE OF
PHYSICIANS AND SURGEONS

Educate Your Doctors! Publicize the 20th Annual Lyme Conference

Help ensure that our doctors and others are educated about Lyme and tick-borne diseases.

The Lyme Disease Association & Columbia University will be holding their 20th CME scientific conference, *Lyme & Other Tick-Borne Diseases: 20th Annual Scientific Update for Clinicians & Researchers*, on September 21 & 22, 2019 in Philadelphia, PA at the Hilton Penn's Landing on the banks of the Delaware.

Please print CONFERENCE FLYER and distribute to places in your community such as:

▪ Doctor's

office

[Click here for General Info](#)
[Pre-Conference Video](#)

LDA/Columbia Pre-Conference Video – 2019

Dr. Brian Fallon, Columbia University; Dr. Joanna Lyon, University of Maryland School of Pharmacy; Dr. Adrian Baranchuk, Queen's University; and Dr. George Chaconas, University of Calgary discuss topics of research to be presented at upcoming LDA/Columbia CME Conference September 21 & 22, 2019.

Exhibitor Registration

CONFERENCE SOLD OUT

Exhibitor Opportunities

LDA/Columbia University Conference

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

Sept. 21 & 22, 2019

Hilton Philadelphia at Penn's Landing, Philadelphia, PA

General Information



A limited amount of space for exhibitors is available on a first come, first served basis. Each space is \$1,275 which includes 1 standard table, 2 chairs. **Exhibit fee includes only one conference admission (see "entrance badge name" on form).** One other company representative can sit at the table but must register and pay for a separate conference admission if he/she intends to enter the conference itself. Exhibit space is limited to a table. Those with a popup need to contact LDA first to see if a slot is available for a popup and any extra charge that might be necessary. Exhibitors are responsible for payment of any box handling charges they incur while shipping to the hotel and any electric they order from the hotel.

Terms & Conditions



Deadline for receiving online registration to be included in conference book is 12M Eastern time, **July 28, 2019**

No cancellations after registration received.

No audiotaping, videotaping or picture taking of the conference is permitted.

If hotel requires a breakdown Saturday after conference and reset Sunday of exhibits, it is beyond control of the LDA

For sending packages to the hotel and for any electrical services, you need to contact the Hotel for details and any charges will be paid to Hotel by you.

How to Register

By Mail

1. Print out Conference Exhibitor Letter (**Letter pdf**)
2. Complete **Exhibitor Registration By Mail Form** and mail in with check or money order.
3. Download, fill out and return the **Conference Exhibitor Agreement** form.

Online (2 steps required)

1. Print out & read Conference Exhibitor Letter (**Letter pdf**)
2. Complete form below
3. Download, fill out and upload the **Conference Exhibitor Agreement** form this form below.

Email: LDA@LymeDiseaseAssociation.org with questions

Once LDA has received registration form, payment, and reviewed the Exhibitor Contract you will be notified of final acceptance.

2019 Exhibitor Registration

- Company/Organization*

If not applicable write (NA)

- Contact Name*

- Exhibitor Entrance Badge Name

- Other Company Representative

- Address*

- City*

- State

 ▼

- Zip*

- Phone*

- Fax

- Comment

- Email*

- Upload Conference Exhibitor Agreement*

- Name on Credit Card*

- Product or Service Promoted*

• Payment Information

- 2018 Exhibitor

- Amount

\$0.00

- Credit Card

American Express

Discover

MasterCard

Visa

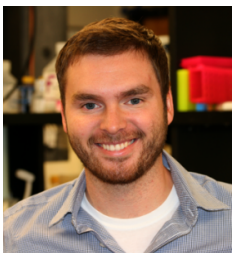
Card Number Month Year Expiration Date

Security Code Cardholder Name

▪ CAPTCHA

Submit

Strandwitz, Philip



Philip Strandwitz, PhD

CEO and Co-founder, Holobiome, Inc.

Visiting Scholar, Antimicrobial Discovery Center

Department of Biology, Northeastern University

Boston, MA

<https://holobiome.org/>

The Gut-Brain-Axis – Potential Therapeutic Targets

Born in Wisconsin but brought to Boston by the allure of biotechnology, Philip is a microbial ecologist with expertise in the human microbiome, bacterial cultivation, and the gut-brain-axis. He received his Bachelor's in Microbiology from the University of La Crosse – Wisconsin, and his PhD from Northeastern University in Boston, MA, where he focused on cultivating unique bacteria from the human gut microbiota, as well as studying their ability to modulate neurotransmitters. Philip's work has been published in top journals like Nature Microbiology, and he has presented at numerous scientific and industrial conferences, including those sponsored by the New York Academy of Science and BIO. He is now CEO at Holobiome, a gut-brain-axis microbiome company he co-founded, located in

Kendall Square in Cambridge, MA. Here he has assembled and manages a team of leaders in neuroscience, microbiology, and drug development, with the goal to translate microbiome science into interventions to treat diseases of the nervous system, with planned expansion into other markets.

Conference Lecture Summary

Lyon, Joanna



Joanna Lyon, PharmD, MEd, MHS, CHES, BCGP
Advanced Clinical Pharmacist
University of Maryland School of Pharmacy
Baltimore, MD

The possible association between the human ABCB1 gene and Post Treatment Lyme Disease Syndrome

Dr. Joanna Lyon is an advanced clinical pharmacist at the University Of Maryland School of Pharmacy. As part of her responsibilities for the University of Maryland, she leads a transitions of care team at the MedStar National Rehabilitation Hospital in DC. This team includes doctorate level pharmacy students and seeks to better educate patients about their medications during their discharge from the hospital. Some of Dr. Lyon's recent accomplishments consist of several publications including an analysis of the ABCB1 gene and Post Treatment Lyme disease in patients, and opioid usage

patterns at the MedStar National Rehabilitation Hospital. In addition, this year Dr. Lyon has presented her work at the American Pharmacist's Association national meeting, the Maryland Pharmacist's Association annual meeting, and the Exchanged Quality Data for Rehabilitation national meeting. Dr. Lyon is motivated to use her education and skills to bring the best healthcare treatment to all patients. Compelled by the suffering that Lyme disease patients endure, she is particularly committed to helping find the underlying cause and treatment for Post Treatment Lyme Disease Syndrome.

Conference Lecture Summary

The high incidence of patients that have been treated for a known Lyme disease infection and yet have not returned to baseline health is a concerning healthcare issue in the United States. Sources cite the incidence of this Post Treatment Lyme Disease

Syndrome (PTLDS) from 5% to 17% of individuals treated for an initial Lyme disease infection. There has been an increasing body of research to suggest that individual human genetic differences may be part of the explanation for these residual complications in some patients that experience PTLDS. The ABCB1 gene encodes for a series of efflux pumps in the human body called permeability glycoproteins (P-gp). These P-gps are found in high concentration in many key drug transport regions of the body: epithelial cells of the blood-brain barrier, epithelial cells lining the colon and small intestine, and cells in the kidney proximal tubules. The role of P-gps is to pump or transport a variety of toxins and medications away from vulnerable body organs. It has now been determined that variations in regions of the ABCB1 gene may influence not only how many of these P-gps are found in an individual's tissue, but how well these pumps move toxins and medications through various tissue membranes. In addition, there are a number of medications that can increase and decrease how well these P-

gps work in the body. Currently, how P-gp number and function correlates with PTLDS is still poorly understood, but a randomized control trial of 142 patients positively associates several single nucleotide polymorphism variations in ABCB1 gene with the PTLDS disease state. This finding strengthens the view that human genetic variation in the number and/or function of P-gp efflux pumps may be part of the association between PTLDS patients and the chronic, persistent symptoms they experience.

Liotta, Lance A.



Lance A. Liotta, MD PhD

University Professor

Co-Director Center for Applied Proteomics and
Molecular Medicine

Medical Director Clinical Proteomics Lab

College of Science

George Mason University

Manassas, Virginia

Shedding of urinary tick pathogen-specific proteins in patients with tick borne diseases

Dr. Liotta is a University Professor in the College of Science, George Mason University. He received the MD and PhD (Bioengineering) from Case Western Reserve University, and fulfilled his residency at the National Institutes of Health (NIH), where he initiated a research program that, to date, has yielded more than 700 publications (Highly Cited Investigator), and more than 100 issued or allowed patents. At NIH Dr. Liotta was Chief, Laboratory of Pathology, Chief, Section of Tumor Invasion and Metastasis, and Deputy Director

of NIH under NIH Director Bernadine Healy. He and Dr. Emanuel Petricoin of the FDA set up the first NIH/FDA Clinical Proteomics Program. In 2005 Mason recruited Dr. Liotta, and Dr. Petricoin (co-Directors), and their distinguished scientific team, to create the Center for Applied Proteomics and Molecular Medicine (CAPMM). The Mission of CAPMM is to discover disease mechanisms, invent new technologies, educate the scientists of the future, and translate knowledge to help patients through prevention, early detection, and treatment. Dr. Liotta has invented and patented, along with his laboratory co-inventors, high-impact technologies in the fields of diagnostics; microdissection (Laser Capture Microdissection), and proteomics (Reverse Phase Protein Microarrays, Biomarker Harvesting Nanoparticles, Preservation chemistries tissue, and Protein Painting to discover drug targets), that have been used to make broad discoveries. The Laser Capture Microdissection prototype is in the Smithsonian Collection. The CAPMM team applies these technologies, for example, to markers for early stage disease, accurate diagnosis of Tuberculosis and Lyme disease (Dr. Alessandra Luchini), individualized therapy for primary and metastatic cancer (Dr. Mariaelena Pierobon, Dr. Julia Wulfkuhle), therapy of premalignant breast cancer as a strategy for prevention (Dr. Virginia Espina), and an accredited CAP/CLIA diagnostic lab for patient testing. Dr. Liotta has received numerous scientific awards, including election to AIBME Fellows status, the Arthur S. Flemming Award, the NIH Award of Merit, the Surgeon General's Medallion, and the 2015 Virginia SHEV award for Research and Scholarship.

Conference Lecture Summary

Post-treatment Lyme disease syndrome (PTLDS) defines a subset of patients who experience persistent symptoms following antibiotic therapy. The cause of PTLDS, and the appropriate treatment, is highly controversial because direct molecular




evidence of pathogen persistence has not previously existed. We utilized mass spectrometry enhanced by nanotechnology to study pathogen-specific proteins shed in the urine of acute Lyme and PTLDS patients (analytical sensitivity = 2.5 pg/mL in urine). We analyzed 415 urine samples comprising 1) acute Lyme disease (LD, Centers for Disease Control and Prevention definition), 2) PTLDS patients defined according to the Infectious Disease Society of America guidelines, 3) diseased negatives (tuberculosis and HIV), and 4) healthy controls. Our target pathogens were *Borrelia*, *Babesia*, *Anaplasma*, *Rickettsia*, *Ehrlichia*, *Bartonella*, *Francisella*, Powassan virus, encephalitis virus, and Colorado tick fever virus. Specificity was ensured by a 3-tier authentication algorithm requiring 100% amino acid sequence identity with tick-pathogen proteins, evolutionary taxonomic verification for related pathogens, and lack of overlap with human or other organisms.

2019 Planning Committee, Organizer, & Staff


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

The individuals listed below planned, organized, and carried out conference preparation to ensure the conference meets the needs of the accreditation agency and of the attendees.

Conference Planning Committee

	<p>Br Profess Director, Lyme & Center for Study of Neuroinflammatory Disorders & Bio New York, New York (Confer</p>
	<p>P President, Lym Jackson, New Jersey (C</p>
	<p>ELI President, Partners Wyoming, MN</p>

Lyme Disease Association, Inc. (LDA) All Volunteer Staff

	<p>Richard H. Smith, BA Vice President, Treasurer LDA Board of Directors, Lyme Disease Association, Inc Jackson, New Jersey</p>
	<p>Corey W. Lakin, AB 2nd Vice President, Technical Support LDA Board of Directors, Lyme Disease Association, Inc Jackson, New Jersey</p>



Ruth Waddington, RN
Corresponding Secretary
LDA Board of Directors, Lyme Disease Association, Inc
Jackson, New Jersey



Tim S. Lynagh, MBA
Member / Policy Advisor
LDA Board of Directors, Lyme Disease Association, Inc
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Paula Jackson Jones
President & Co-Founder
Midcoast Lyme Disease Support & Education
Newcastle, Maine