



Registration Is  
Now Open!  
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Abstracts due  
3/29/19

AT&T Hotel & Conference Center, Austin, Texas • May 30–June 1, 2019

# Lymphatic Forum 2019

## Exploring the Lymphatic Continuum

**Organizers:** David Zawieja, Texas A&M University;  
Jan Kitajewski, University of Illinois at Chicago; Stanley Rockson, Stanford University  
**Co-Organizer:** William Repicci, Lymphatic Education & Research Network (LE&RN)

### Preliminary Program

#### Thursday, May 30, 2019

**Clinical Aspects of Lymphatic Pathologies and Patient Perspectives;** Chair: Stanley Rockson, Stanford University

**Lymphatic Development and Remodeling;** Chair: Mark Kahn, University of Pennsylvania: Rasip1 regulated lymphatic vessel lumen maintenance (Guillermo Oliver, Northwestern University); Blood capillary-derived progenitor cells and development of dermal lymphatics (Natasha Harvey, University of South Australia); Leishmania Infection-Induced Lymphangiogenesis (Tiffany Weinkopf, University of Arkansas for Medical Sciences)

**Lymph and Interstitial Fluid “omic” Profiles in Health and Disease;** Chair: Laura Santambrogio, Albert Einstein School of Medicine: Continuous Release of Beta Cell Peptides Primes the Immune System for Autoimmune Diabetes (Emil Unanue, Washington University School of Medicine); Identification of Pathogen Peptide Targets in Biological Fluids to Diagnose Disease and Identify Specific Pathogen Species (Tony Hu, Arizona State University)

**Mechanobiology of Lymphatic Structure and Function;** Chair: Michael Davis, University of Missouri: Mechanotransduction, Wnt/ $\beta$ -catenin signaling & lymphatic vascular patterning (Sathish Srinivasan, Oklahoma Medical Research Foundation); Effects of pulmonary lymph flow on lymphatic endothelium (Sanjeev Datar, University of California, San Francisco); Mechanically-mediated adaptations in lymphatics and the consequence to function (Brandon Dixon, George Institute of Technology); Poster Session I—7:30–9:30pm

#### Friday, May 31, 2019

**Mixed Vascular (lymphatic-venous) Anomalies;** Chair: Peter Mortimer, St. George’s, University of London: Molecular Genetics of Vascular Malformations (Mikka Vikkula, Institut de Duve); Sirolimus treatment for lymph leakage in microcystic lymphatic malformations (Denise Adams, Boston Children’s Hospital); Complex Vascular Malformations with Lymphatic Involvement (Fran Blei, Northwell Health)

**Trainee/Young Investigators Session (10:15am–12:15pm):** Chairs will select abstracts for 20-minute presentations

**Lymphatic Muscle and Lymph Flow;** Chair: Brandon Dixon, Georgia Institute of Technology: Water intake accelerates mesenteric lymph flow and the total flux of long-chain fatty acids (Toshio Ohhashi, Shinshu University); SR calcium release accelerates lymphatic muscle cell pacemaking through activation of Ano1 (Scott Zawieja, University of Missouri); Early rescue of lymphatic function limits atherosclerosis progression in Ldlr<sup>-/-</sup> mice (Catherine Martel, Montreal Heart Institute)

**Quantitative Analysis of Lymphatic Structure and Function;** Chair: James Moore, Imperial College London: Physical and electrical analogs of multi-lymphangion systems (James Baish, Bucknell University); Quantitative analysis of the role of lymphatics in cerebrospinal fluid outflow (Steven Proulx, Swiss Federal Institute of Technology); Image based models of fluid flow through lymph nodes (Tiina Roose, University of Southampton); Poster Session II—7:30–9:30pm

#### Saturday, June 1, 2019

**Novel Insights on Mechanisms of Lymph Transport;** Chair: Sanjukta Chakraborty, Texas A&M College of Medicine: Histamine and lymphatics—from health to disease (A. Gashev, Texas A&M College of Medicine); Delivering therapeutics to targets within the lymphatics (Eva Sevcik, University of Texas Health Science Center at Houston); Latest advances in research on lymphatic anomalies with bone involvement (M. Dellinger, UT Southwestern Medical Center); Lymphatics in our unhealthy lifestyles (J. Rutkowski, Texas A&M Health Science Center)

**Inflammation and the Lymphatic-immune Interface;** Chair: Gwendalyn Randolph, Washington University in St. Louis: Leukocyte transmigration into lymphatics (Cornelia Halin, ETH Zurich); Role of lymph-borne antigens and dendritic cells in the promotion of rapid T cell responses (Michael Gerner, University of Washington); Lymphatic-dependent and independent transport of immune signals to the lymph nodes (Shan Liao, University of Calgary)

**Role of Lymphatics in Infectious and Parasitic Diseases;** Chair: Tim Padera, Massachusetts General Hospital: Doxycycline trial for filarial lymphedema (Philip Budge, Washington University in St. Louis); Effects of MRSA infections on lymphatic function (Tim Padera, Massachusetts General Hospital); Lymphatic-dependent and independent transport of immune signals to the lymph nodes (Amanda Lund, Oregon Health & Science University)

**Lymphatic Tissue Engineering, Stem Cells and Nanoparticles;** Chair: Melody Swartz, University of Chicago: Tissue scaffolds for reconstruction of lymphatic vessels (TBD); NO releasing nanoparticles targeting lymph nodes (Susan Thomas, Georgia Institute of Technology)

**Closing Session: Plenary Lecture,** Peter Mortimer, St. George’s, University of London

Additional presentations will be added to each session from selected abstracts.



Lymphatic Education  
& Research Network

[www.navbo.org/lymphatics2019](http://www.navbo.org/lymphatics2019)