

EXPLORING THE LYMPHATIC CONTINUUM • VIRTUAL MEETING • MAY 31–JUNE 5
LYMPHATIC FORUM 2021

Poster Session 6/3/21 3:30pm ET

Genetics and /Epigenetic Regulation of Lymphatics

Intravital imaging of microRNA-mediated control of lymphangiogenesis

Presenter: Jung, Hyun Min (University of Illinois at Chicago, Chicago, IL, United States);

Author: Jung, Hyun Min (University of Illinois at Chicago, Chicago, IL, United States);

Differential combination of mafba and mafbb regulates lymphatic endothelial cell migration in topographically distinct manner

Presenter: Koltowska, Kaska (Uppsala University, United States);

Pre-clinical studies in cell and zebrafish models of a complex lymphatic anomaly due to KRAS p.G12D

Presenter: Sheppard, Sarah (Children's Hospital of Philadelphia, United States);

Co-Author: March, Michael (Children's Hospital of Philadelphia, United States);

Seiler, Christoph (Children's Hospital of Philadelphia, United States);

Li, Dong (Children's Hospital of Philadelphia, United States);

Battig, Mark (Children's Hospital of Philadelphia, United States);

Kim, Sophia (Children's Hospital of Philadelphia, United States);

Matsuoka, Leticia (Children's Hospital of Philadelphia, United States);

Kao, Charlly (Children's Hospital of Philadelphia, United States);

Pinto, Erin (Children's Hospital of Philadelphia, United States);

Snyder, Kristen (Children's Hospital of Philadelphia, United States);

Dori, Yoav (Children's Hospital of Philadelphia, United States);

Hakonarson, Hakon (Children's Hospital of Philadelphia, United States);

Lymphatic Connections with the Brain

Development of an in vitro 3D neuro-vascular and meningeal lymphatics model for Alzheimer's disease

Presenter: Pavlou, Georgios (Massachusetts Institute of Technology, MA, United States);

Author: Pavlou, Georgios (Massachusetts Institute of Technology, MA, United States);

Co-Author: Serrano Flores, Jean Carlos (Massachusetts Institute of Technology, United States);

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Jorfi, Mehdi (Harvard Medical School - Massachusetts General Hospital, United States);

Choi, Se Hoon (Harvard Medical School - Massachusetts General Hospital, United States);
Kamm, Roger D D. (Massachusetts Institute of Technology, Cambridge, MA, United States);

Lymphatics in Cancer Metastasis and Progression

Major Histocompatibility Complex II Expression on Lymphatic Endothelial Cells Promotes Melanoma and Breast Tumor Growth in Mice

Presenter: Li, Claire (Memorial Sloan Kettering, United States);
Author: Li, Claire (Memorial Sloan Kettering, United States);
Co-Author: Kataru, Raghu P. (Memorial Sloan Kettering Cancer Center, United States);
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Mehrara, Babak J. (Memorial Sloan-Kettering Cancer Center, United States);

Lymphatics in Immunity and Inflammation

Assessing clinical human osteoarthritic synovial fluid effects on mature collecting lymphatic vessel sprouting using PEG hydrogels

Presenter: Bernard, Fabrice (Georgia Institute of Technology, Atlanta, GA, United States);
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Willett, Nick J. (Atlanta, GA, United States);
Dixon, J. Brandon (Atlanta, GA, United States);

Complex cell motion results in overestimation of chemotaxis in cell migration assays: an experimental and numerical approach

Presenter: Frattolin, Jennifer (Imperial College London, United Kingdom);
Author: Frattolin, Jennifer (Imperial College London, United Kingdom);
Co-Author: Watson, Daniel J. (Imperial College London, United Kingdom);
Bonneuil, Willy (London, United Kingdom);
Moore, James E. E. (London, United Kingdom);

Lipoxins modulate integrin expression and enhance lymphatic transmigration in neutrophils isolated from patients with cardiovascular disease

Presenter: Kraft, Jamie (University of Gothenburg, Gothenburg, Sweden);
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Effect of human synovial fluid from osteoarthritis patients and healthy individuals on lymphatic contractility

Presenter: Michalaki, Eleftheria (Georgia Institute of Technology, Atlanta, GA, United States);
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Effect of Immunosuppressants-FKBP Interaction on Mitochondrial Function and Energy Metabolism of Lymphatic Muscle and Endothelial Cells

Presenter: Nepiyushchikh, Zhanna V. (Georgia Institute of Technology, Atlanta, GA, United States);
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Lymphatics in the Gastrointestinal Tract and Lipid Metabolism

The asymmetric Pitx2 regulates intestinal muscular-lacteal development and protects against fatty liver disease

Presenter: Kurpios, Natasza A. (Cornell University College of Veterinary Medicine, Ithaca, NY, United States);

Lymphatics in the Gastrointestinal Tract and Lipid Metabolism

Loss of lymphatic endothelial Foxc2 in adult mice protects against diet-induced obesity by promoting lymphangiogenesis and lacteal junction integrity

Presenter: Pingili, Ajeeth (Boston Children's Hospital, Boston, MA, United States);

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Stylopoulos, Nicholas (Boston Children's Hospital, United States);

Sudduth, Christopher (Boston Children's Hospital, United States);

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Ionizing radiation induces acute mesenteric lymphatic pump dysfunction.

Presenter: Singh, Reetu (Texas A&M University, College station, TX, United States);

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Laine, Glaine A. (Texas A&M University, College station, United States);

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Lymphedema

Blockade of TGF- β 1 as a therapeutic strategy to treat secondary lymphedema

Presenter: Baik, JungEun (Memorial Sloan Kettering Cancer Center, United States);

Author: Baik, JungEun (Memorial Sloan Kettering Cancer Center, United States);

The impact of lymphedema on health-related quality of life up to 10 years after breast cancer treatment

Presenter: Jørgensen, Mads Gustaf G. (Odense University Hospital, Odense C, Denmark);

Author: Jørgensen, Mads Gustaf G. (Odense University Hospital, Odense C, Denmark);

Breast Cancer-Related Lymphedema: risk factors and prediction model

Co-Author: Masià, Jaume (Clínica Planas, Barcelona, Spain);

Meta-Analysis of Treatment-Related Risk Factors for Developing Breast Cancer-Related Lymphoedema

Presenter: Grujic, Iva (Imperial College London, United States);

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Thiruchelvam, Paul TR (Imperial College London, United Kingdom);

Nessa, Luthfun (Imperial College London, United Kingdom);

Moore, James E. E. (London, United Kingdom);

Organ Specific Lymphatic Development

The role of polyunsaturated fatty acids in endothelial cell specification

Presenter: Ciliberti, Giorgia (Institute for Vascular Signalling, Frankfurt, Germany);

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Generation of specialized blood vessels through transdifferentiation of lymphatic endothelial cells

Presenter: Das, Rudra Nayan (Weizmann Institute of Science, Rehovot, Israel);

Author: Das, Rudra Nayan (Weizmann Institute of Science, Rehovot, Israel);

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Bioengineered 3D in vitro platform for lymphatic network sprouting

Presenter: Gonzalez-Vargas, Yarelis (Georgia Institute of Technology, Atlanta, GA, United States);
Author: Gonzalez-Vargas, Yarelis (Georgia Institute of Technology, Atlanta, GA, United States);
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Role of Lymphangiogenesis in Lung Regeneration

Presenter: Mammoto, Tadanori (Medical College of Wisconsin, Milwaukee, WI, United States);
Author: Mammoto, Akiko (Milwaukee, WI, United States);

Organ Specific Lymphatic Physiology

Upregulation of VCAM-1 in lymphatic collectors supports dendritic cell entry and rapid migration to lymph nodes in inflammation

Presenter: Collado-Diaz, Victor (ETH, Switzerland);
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Sigmund, Elena (ETH, United States);
Tacconi, Carlotta (Zurich, Switzerland);

TRPV4 agonism modulates lymphatic pumping in a biphasic manner

Presenter: von der Weid, Pierre-Yves (Calgary, AB, Canada);
Author: Du Toit, Jacques (University of Calgary, Calgary, AB, Canada);
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The consequence of impaired lymphatic drainage on rejection in cardiac transplantation

Presenter: Ginn, Sydney C. (Georgia Institute of Technology and Emory University, United States);
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Vascular Endothelial Cadherin is Required for Cardiac Lymphatic Maintenance and Forms a Stable Lymphatic Signaling Node

Presenter: Harris, Natalie R. (University of North Carolina - Chapel Hill, Chapel Hill, NC, United States);
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Regulation and impact of cardiac lymphangiogenesis in pressure-overload-induced heart failure

Presenter: Héron, Coraline (Inserm Normandy University, Rouen, France);
Author: Héron, Coraline (Inserm Normandy University, Rouen, France);
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Dendritic cell entry to lymphatic capillaries is orchestrated by CD44 and the hyaluronan glyocalyx

Presenter: Johnson, Louise (University of Oxford, United Kingdom);
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Novel neuroprotective FLASH radiotherapy and emerging role of meningeal lymphatics in memory loss and cognitive decline post-radiotherapy

Presenter: Muley, Ajit (Columbia University Medical Center, New York, NY, United States);
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McIntire, Laura Beth J. ; Shapiro-Franklin, Noa ; Wei, Hong-Jian ; Wu, Cheng-Chia (Columbia University Medical Center, New York, NY, United States);

Primary Lymphatic Diseases and Anomalies

FLI1 and ERG regulate Lymphangiogenesis in Systemic Sclerosis

Presenter: Chakraborty, Adri (Boston University School of Medicine, United States);
Author: Yashamita, Takashi (Boston University School of Medicine, Japan);
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Marden, Grace (Boston University School of Medicine, United States);
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Predicting pathogenicity mechanisms by functional classification of EPHB4 variants associated with lympho-vascular disorders

Presenter: Martin Almedina, Silvia (St George's University of London, United Kingdom);
Author: Martin Almedina, Silvia (St George's University of London, United Kingdom);
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Genetic Variants in Fetal Congenital Lymphatic Anomalies

Presenter: Rogerson, Daniella (Columbia University Irving Medical Center, New York, NY, United States);
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