

November 4, 2021



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Judah Folkman Award Lecture



Join us Today,
 November 4 for the
 Judah Folkman Award
 by Carlos Fernández-
 Hernando

Dr. Fernández-Hernando will present the 2021 Judah Folkman Award in Vascular Biology Lecture online at 1:00pmET on Thursday, November 4. **All members can attend this event!** Simply log into the Member Portal, choose the event and register.

Carlos Fernández-Hernando with his mentor, Dr. William Sessa.

His presentation is titled, "*Endothelial dysfunction in coronavirus induced*

cardiopulmonary disease." Dr. Fernández-Hernando is the Anthony N. Brady Professor of Comparative Medicine and of Pathology at Yale School of Medicine. [Learn more about Dr. Fernández-Hernando's work.](#) [Plan to join us!](#)

Benditt Award Lecture



Join us November 2 for the Earl P. Benditt Award by Guillermo Oliver

Dr. Oliver presented the 2021 Earl P. Benditt Award Lecture on November 2. The recording of the presentation titled, "*Prox1 and lymphatics, a personal perspective,*" is available in the Member Portal. [Members log into the web site.](#)

Dr. Guillermo Oliver is the Director for the Center for Vascular and Developmental Biology at the Feinberg School of Medicine at Northwestern University. [Learn more about Dr. Oliver and his work.](#)

In this issue...

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Meetings/Events

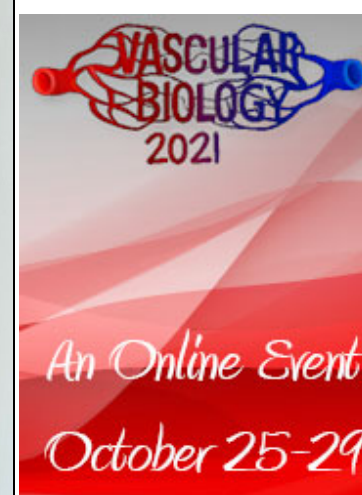


Webinars - 1st Thursday

Focus Sessions - 2nd and 4th Thursdays

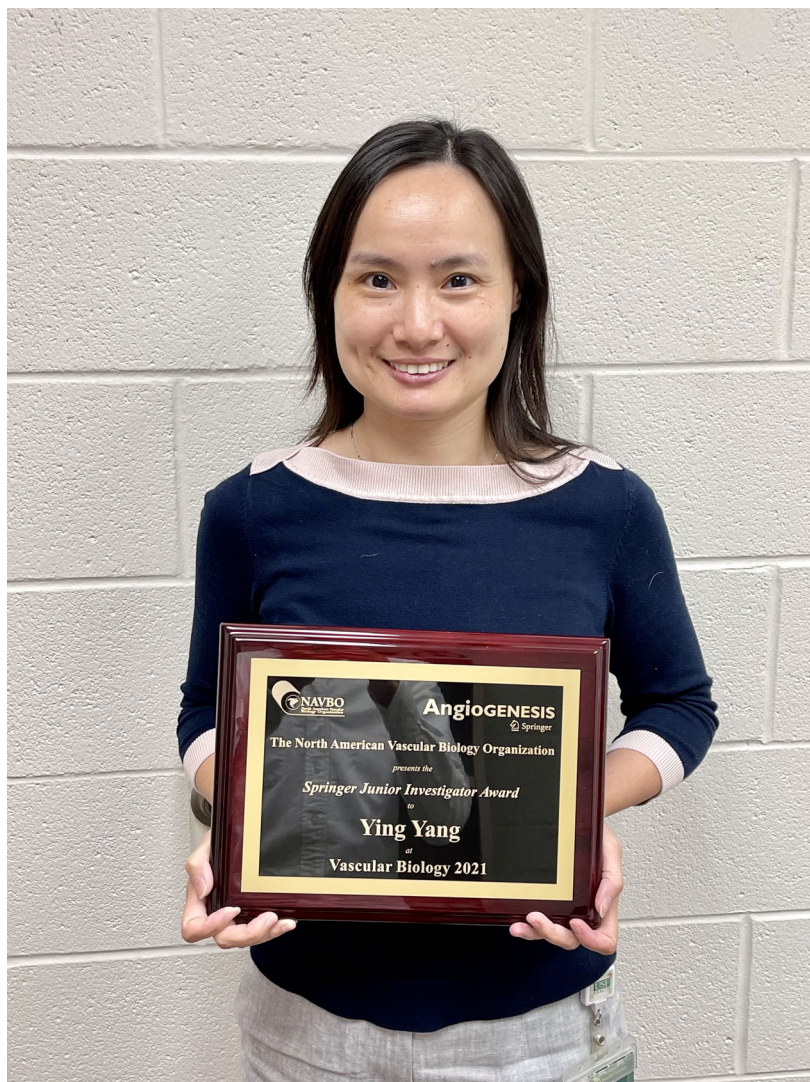
Journal Clubs - 3rd Thursdays

Special Sessions on Tuesdays
 (check schedule)



Register Now!

Springer Junior Investigator Award



Springer Junior Investigator Award Ying Yang, University of South Florida

Congratulations to Dr. Yang! She presented the Springer Award Lecture, "Foxo1 Deletion Promotes the Growth of New Lymphatic Valves," on Friday, October 29 at Vascular Biology 2021 - NAVBO's annual meeting.

The Springer Junior Investigator Award is sponsored by [Angiogenesis](#).



Springer

Inaugural Stephen Schwartz Award



Congratulations to Dr. Brant Weinstein!!

On Thursday, October 28, Dr. Weinstein was presented with the Inaugural Stephen Schwartz Award for Outstanding Mentorship. He was honored by current trainee, Marina Venero Galanternik and former trainee, Amber Stratman, University of Washington in St. Louis. We were also honored to have Barbara Schwartz, Steve's wife in attendance and Steve's daughter Havivah Mitchell said a few words about her father and how pleased he would be to have an award for outstanding mentorship named for him.

If you would like to watch a recording of the presentation, including a wonderful story about the first time Dr. Weinstein met Dr. Schwartz be sure to watch the recording. [Click here to access the presentation.](#)



22nd International
Vascular Biology Meeting
San Francisco Bay Area
October 13-17, 2022



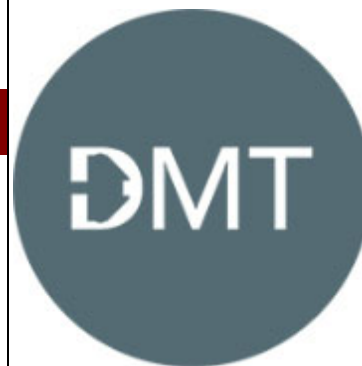
Webinar Series



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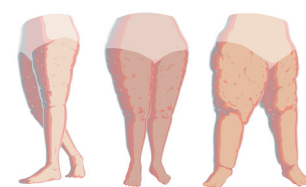
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F O U N D A T I O N**



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Vascular Biology 2021

Vascular Biology 2021



An Online Event
October 25-29



Thanks for Joining Us!

Special thanks to the meeting organizers Courtney Griffin, OMRF; Mark W. Majesky, University of Washington; Kristy Red-Horse, Stanford University for the Developmental Vascular Biology and Genetics Workshop; Christopher Breuer, Nationwide Children's Hospital and Linda Demer, UCLA; A. Wayne Orr, LSU Health Sciences Center Shreveport and Ying Zheng, University of Washington.

Recordings will be available through December 30. If you would like access to the recordings, [you can still register for the meeting](#).



Trainee Awards Based on Talks

Congratulations!

Top Nano-Talk:

Sarah Colijn, Washington University in St. Louis

Outstanding Talk Award Recipients:

Developmental Vascular Biology and Genetics Workshop

Jesus Gomez Salinero, Weill Cornell Medicine
Tendai Hunyenyiwa, Medical College of Wisconsin
Mingjun Liu, University of Pittsburgh
Miranda Marvel, NICHD
Alexandra Socovich, University of Illinois at Chicago

Vascular Matrix Biology and Bioengineering Workshop

Suhaas Anbazhakan, Stanford University
Kaveeta Kaw, UT Health Science Center at Houston
Satomi Matsumoto, University of California, Irvine
Scott Paulissen, NICHD/NIH
Michael Warkala, Rutgers University

Outstanding Poster Awards

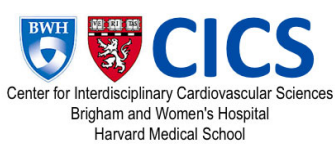
Congratulations!

Keith Christian Afas, University of Western Ontario
Neha Ahuja, UT-Southwestern
Caitlin Bowen, Johns Hopkins University School of Medicine
Randa Breikaa, Nationwide Children's Hospital
Nicholas Chavkin, University of Virginia
Vanessa Coelho-Santos, Seattle Children's Research Institute
Claire Dessalles, Ecole Polytechnique
Erika Dreikorn, University of Pittsburgh
Menggui Huang, University of Pennsylvania
Emily Juzwiak, Johns Hopkins University
Gaganpreet Kaur, LSU Health Shreveport
Hyunbum Kim, Boston Children's Hospital
Elsie Kronquist, NIH/NHLBI
Celine Kong, MD Anderson Cancer Center
Anahita Mojiri, Houston Methodist Research Institute
Paolo Panza, Max Planck Institute for Heart and Lung Research
Bridget Parrish, Oklahoma Medical Research Foundation
Meghan Sedovy, Virginia Tech
Natalie Yeo, Nanyang Technological University, Singapore
Lingling Zhang, University of Minnesota
Xingyan Zhou, Tulane University

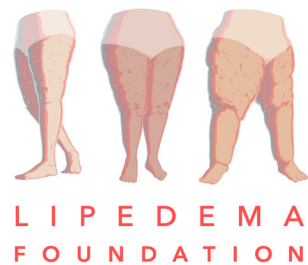
NAVBO Town Hall

NAVBO Members

If you missed the November 3 Town Hall (Membership Business Meeting), you can view the very informative slides. Dr. Griffin



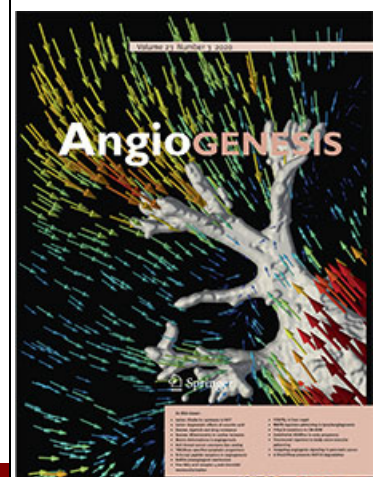
VB2021 Exhibitors



VB21 Guest Society



Affiliated Journals



Cardiovascular Pathology

thanked and recognized those involved in Vascular Biology 2021, reviewed NAVBO's accomplishment for 2021 and shared our aspirations for 2022.



**NAVBO
Membership
Town Hall
Agenda**



• **Approval of the 2020 Minutes**
• **Recognition of :**
• Sponsors & Exhibitors
• Meeting Organizers
• Meritorious Award Recipients
• Council Members
• **Treasurer's Report**
• **Membership Report**
• **Ongoing Activities**
• **New Initiatives**
• **Future Meetings**
• **Open Discussion**

Summer Program

The Children's Hospital of Pittsburgh of UPMC Rangos Research Center serves as the hub of pediatric research in Pittsburgh and is one of the fastest growing pediatric research programs in the United States. Whether advancing immunosuppressant management to wean transplant patients from anti-rejection drugs or seeking a cure for juvenile asthma, Children's Hospital of Pittsburgh of UPMC is expanding the research frontier with new and innovative therapies for the cure of childhood disease and disability.

Under the direction of Drs. Juan Celédon, Sunder Sims-Lucas and Michelle Manni, Children's Hospital of Pittsburgh offers an eight-week paid summer internship program designed for undergraduate students from underrepresented groups from any college or university who wish to learn the rationale, design strategies, methods and other aspects of biomedical research by engaging in studies related to the heart, lung and blood fields under the direct supervision of experienced researchers.

Program Eligibility:

- U.S. citizen or a permanent resident (green card holder)
- Underrepresented group in science
- Students must be enrolled in a degree-granting program at a college/university
- Cumulative GPA of 3.0 or higher
- Have completed at least two semesters of undergraduate education
- Have at least one semester of undergraduate education remaining after completing the CHP program or documentation of acceptance into an advanced degree program for fall 2022

Applications for the 2022 program will be available on-line at www.chp.edu in early January 2022. Credentials from all eligible participants are reviewed by the mentors through the selection process. Selected participants are notified in April of their acceptance into the program. The 2022 program will commence in June and conclude at the end of July with the annual "Poster Day" forum. Participants are expected to complete the 8-week program working 40 hours per week and will receive compensation of approximately \$4,000. Housing is provided with this program.

Please [download the flyer](#) and post it.

Member News

Welcome to our New Members:

Colette Abbey, Texas A&M University
Sohni Ria Bhalla, Northwestern University
Wei Chen, Albert Einstein College of Medicine
Hyunbum Kim, Boston Children's Hospital
Rosaline Kumar, Texas A&M University
Charles Lowenstein, The Johns Hopkins University School of Medicine
Matthew Mapua, NIH
Jennifer Munson, Virginia Polytechnic Institute and State University
Morgan Oatley, University of North Carolina at Chapel Hill
Alessandra Pasut, KULeuven
Alondra Pena, UCLA Medical Center
Ivy Pham, Lundquist Institute
Sherin Saheera, University of Massachusetts Medical School
Luke White, Louisiana State University Health, Shreveport

If you have news to share with your colleagues, send it to membership@navbo.org

Spotlight on Trainees

Strategic planning for enhancing the postdoctoral experience

The National Postdoctoral Association has released its [2021-2024 Strategic Plan](#), which highlights the organization's priorities of "... diversifying the research community, advocating for equity and opportunities within it, and maintaining the intentional, dependable service this important community deserves." The NPA was formed in 2002 with the aim of encouraging improvements to the postdoctoral experience in the US. The organization sponsors an

annual networking meeting for postdocs and makes available to member NPA chapters a Postdoc Symposium Toolkit to help postdocs create a collaborative environment at their home institutions. Is there an NPA chapter at your institution?

Recent Member Publications

Lymphatic Endothelial Cell Defects in Congenital Cardiac Patients With Postoperative Chylothorax

Journal of Vascular Anomalies

Objectives: Chylothorax following cardiac surgery for congenital cardiac anomalies is a complication associated with severe morbidities and mortality. We hypothesize that there are intrinsic defects in the lymphatics of congenital cardiac patients. [Read more](#)

Unique functions for Notch4 in murine embryonic lymphangiogenesis

Angiogenesis

In mice, embryonic dermal lymphatic development is well understood and used to study gene functions in lymphangiogenesis. Notch signaling is an evolutionarily conserved pathway that modulates cell fate decisions, which has been shown to both inhibit and promote dermal lymphangiogenesis. Here, we demonstrate distinct roles for Notch4 signaling versus canonical Notch signaling in embryonic dermal lymphangiogenesis. [Read more](#)

LRG1 destabilizes tumor vessels and restricts immunotherapeutic potency

Cell

A poorly functioning tumor vasculature is pro-oncogenic and may impede the delivery of therapeutics. Normalizing the vasculature, therefore, may be beneficial. We previously reported that the secreted glycoprotein leucine-rich α -2-glycoprotein 1 (LRG1) contributes to pathogenic neovascularization. [Read more](#)

If you have a recent paper that you would like to share with NAVBO NewsBEAT subscribers, send the title and link to membership@navbo.org. Please note, only papers authored by current NAVBO members are accepted for inclusion.

Industry News

COVID-19 and cardiac disorders

Alida Caforio, writing in [UpToDate](#), reviews clinical literature through October 2101 on cardiac manifestations of COVID-19 infection in adults. Dr. Caforio notes that patients with COVID-19 present with a variety of cardiac conditions, some with no clinical evidence of heart disease, some without symptoms of heart disease but cardiac test abnormalities, and some with diagnosed symptomatic heart disease. Conditions associated with myocardial injury, including myocarditis, stress cardiomyopathy, and myocardial infarction, are common in patients hospitalized with COVID-19, but their underlying causes, as well as an etiologic link with SARS-CoV-2 infection, remain to be established.

Biofabrication of tissues for vascular repair

[Kozaniti and colleagues summarize](#) the state-of-the-art around preparation of biofabricated tissues for cardiac valves and vascular networks, created using 3D printing and related technologies. Based on the criteria for successful constructs as defined by the authors (“...non-cytotoxicity, biodegradation, biocompatibility with preserved mechanical strength and structural integrity.”), useable biomimetic grafts remain at some distance, although notable improvements have been made using scaffold-free approaches.

Improved immunocompatibility of pig organs for human transplant

Surgeons at NYU Langone Health have attached to a human patient a [kidney grown in a pig](#) genetically-altered to remove prominent graft-host antigens. The organ worked normally for more than 50 hours, making urine and the waste product creatinine shortly after attachment to the arterial circulation. While major ethical and regulatory hurdles remain, the prospects for using pigs as a source of donor hearts, livers, and other organs has sparked excitement among transplant surgeons, who typically contend with a profound shortage of donor organs suitable for transplant into their patients.

Call for Papers

Microcirculation

The Official Journal of the Microcirculatory Society, Inc., the British Microcirculation Society, the Australia & New Zealand Microcirculation Society, and the Japanese Society for Microcirculation

Lymphatic Pathophysiology

The journal *Microcirculation* is pleased to announce that it will be publishing a Special Topics Issue on “Lymphatic Pathophysiology” to feature the emerging role of lymphatics in the progression in disease states. This Special Issue represents a collaborative interest between the Microcirculatory Society, North American Vascular Biology Organization, Lymphatic Education & Research Network, and the organizers of the 2021 Lymphatic Forum. The

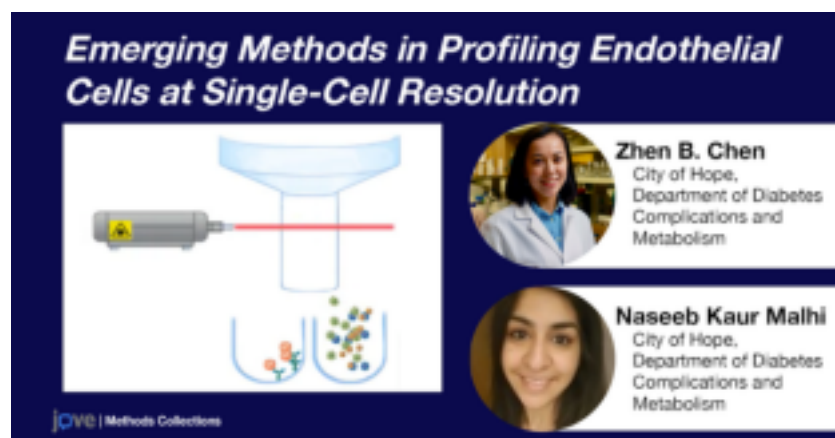
issues will be edited by Dr. Jerome Breslin (University of South Florida), Dr. Sanjukta Chakraborty (Texas A&M University Health Science Center), Dr. Jorge Castorena-Gonzalez (Tulane University), Dr. Joseph Rutkowski (Texas A&M University), and Dr. Brandon Dixon (Georgia Institute of Technology).

The intent of the special issue is to highlight the emergent multi-functional role of the lymphatic vasculature, its relationships with inflammation, and the intersecting contributions to altered tissue haemostasis during pathophysiology. Articles can focus on aspects of lymphatic contractile function, lymph transport and/or lymphangiogenesis that play key roles in multiple diseases.

Focused reviews and original research articles will be considered for this special issue. Submissions using novel models or imaging techniques to determine some of these key alterations are especially encouraged. Articles should be 3000-5000 words including figure legends (references excluded). Following peer-review, all papers will be published 'In Press' as soon as they are accepted and in the online special issue.

Please inform both Jerome Breslin (breslin@usf.edu) and Sanjukta Chakraborty (schakraborty@tamu.edu) of your intent to contribute, and provide a tentative title.

Deadline for intent to submit: November 1, 2021
Deadline for submission: March 1, 2022



Emerging Methods in Profiling Endothelial Cells at Single-Cell Resolution

Zhen B. Chen
City of Hope,
Department of Diabetes
Complications and
Metabolism

Naseeb Kaur Malhi
City of Hope,
Department of Diabetes
Complications and
Metabolism

JoVE | Methods Collections

Are you using leading-edge techniques to profile endothelial cells at single-cell resolution? Consider submitting your work to a new JoVE collection guest-edited by NAVBO members, **Dr Zhen Bouman Chen** (2020 Springer Junior Investigator Award winner) and Dr. **Naseeb Malhi** at City of Hope! For more information or to submit an abstract, please email zhenchen@coh.org or [follow this link](#).



Impact Factor 6.050

frontiers
in Cardiovascular
Medicine

Extracellular Vesicles in Cardiovascular Inflammation and Calcification

Topic Editors: Jona Benjamin Krohn, Elena Aikawa, Masanori Aikawa, Susmita Sahoo, Joshua D Hutcheson and Jason E. Fish

Submission Deadline: 12/31/2021

This research topic is sponsored by NAVBO

[Visit the site for more information](#)

Calendar of Events

November 4, 2021	Judah M. Folkman Award Lecture
November 4, 2021	Yet to Be Charted: Mapping the Lymphatic System Across Body Scales and Expertise Domains Judah M. Folkman Award Lecture
November 9, 2021	NAVBO Symposium: Lipid Handling the Endothelium
November 17, 2021	UK Cell Adhesion Society Webinar
November 18, 2021	Webinar featuring George Davis: Defining the key growth factor-dependent signaling and extracellular matrix remodeling events necessary for capillary network assembly and maturation
December 2, 2021	Webinar Featuring Rui Benedito: Understanding angiogenesis through multispectral genetic mosaics
January, 2022	Webinar Featuring Karthik Suresh: Mitochondrial ROS-induced Ca²⁺ influx and microvascular endothelial cell dysfunction in pulmonary arterial hypertension (PAH)



**JOURNAL OF
LEUKOCYTE BIOLOGY**
Call for Editor-in-Chief Applications

Job Postings

Job Title	Company	Location
Postdoctoral Researchers at Duke University	Duke University	Durham, NC
Physiology and Molecular Systems Medicine: Assistant Professor (Tenure Track)	Medical College of Wisconsin	Milwaukee, WI
Postdoctoral fellow	Schepens Eye Research Inst/Harvard Med School	Boston, MA
Postdoctoral Researcher	University of Pennsylvania	Philadelphia, PA
Assistant and Associate Professor, Basic Science and Engineering (BASE) Initiative, Stanford University	Stanford University School of Medicine	Stanford, CA
Postdoctoral Fellow	Rutgers University	Newark, NJ

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