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 An Official Society for Vascular Surgery® Journal



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# NewsBEAT

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## Single-Sign on to our Community

Now move seamlessly from the NAVBO Member Portal to our Community, the Vascular Network. Your login for the Community is now the same as your login for the Member Portal. *Thank you for your patience as we worked to get this set up.*

Our community is provided by Higher Logic, the first time you use the single-sign on, you'll be asked to give permission to Higher Logic to access your information. Please accept. Remember only active NAVBO members have access to the Community and the Member Directory.

**Take advantage of the knowledge base provided by your fellow members.**

<https://community.navbo.org>

Our **Career Center** is also now accessible using the same log in as the NAVBO site. You may have to click the "Sign In" button and then the "Yes, I am a Member" button to gain access. Active members will still need to enter the promo-code to get the discount.

**Active members save \$150 on job postings.**

<https://navbo.org/jobs>

## Seeking Proposals for Symposia

NAVBO Regular Members are invited to submit a proposal for consideration as an Online Symposium. Our goals in this regard are two-fold: to bring additional, timely and member-initiated topics to the vascular biology community and to promote diversity, equity and inclusion.

These symposia are usually three experts on a single topic. The member that proposes the session will also moderate/chair the session.

**To submit your proposal complete the online form [found here](#).**

## Member Scholarships for Students

NAVBO's **Advancing Young Voices through Diversity and Inclusion Program (AYVDI)** supports diversity and inclusion efforts at the undergraduate and graduate student career stages. To date, this program has supported the trainee membership of 50 students.

We want to continue to increase diversity and inclusion within the vascular biology community, expose more young scientists to the field of vascular biology, and to bring more trainees into this collaborative community. Therefore, we are extending the offer of free membership to students who are members of populations that are not well represented in vascular biology, including but not limited to Black/African American, Latinx/Hispanic, Indigenous Peoples of America/Native American (including Native Hawaiian and Alaskan), and LGBTQ+. We would also like to extend this offer to students who may be at a financial disadvantage and would benefit from this opportunity.

In order to take advantage of this offer, complete this [application form](#).

Please share this information with your students and colleagues.

## Call for Award Nominations



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### Meetings/Events

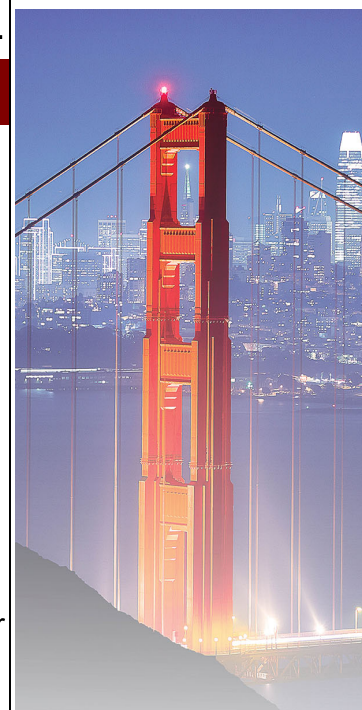


**Webinars** - 1st Thursday

**Focus Sessions** - 2nd and 4th Thursdays

**Journal Clubs** - 3rd Thursdays

**Special Sessions** on Tuesdays  
 ([check schedule](#))



**22nd International  
Vascular Biology Meeting**

**San Francisco Bay Area**

October 13-17, 2022



[www.ivbm2022.org](http://www.ivbm2022.org)

Florence R. Sabin Award      Stephen Schwartz Award

Nominations are now being accepted for these awards through March 15, 2022.

As you know, the Stephen M. Schwartz Award recognizes an outstanding mentor, characterized by our 2021 recipient, Brant Weinstein of NICHD/NIH. Current and prior trainees should nominate their mentors.

Our newest award, the Florence Sabin Award, recognizes an individual, like Dr. Sabin, who has championed an underrepresented group. Candidates must have distinguished themselves in at least one of the following areas: promoting diversity, equity, and inclusion in social issues which benefit underrepresented groups, public health, or public service to the broader community, in addition to their scientific/clinical accomplishments.

[Click here for information about nominating a colleague.](#)

## Year-End Giving - Last Request

### Contribute to NAVBO



Giving Tuesday may have passed (November 30), but your tax deductible contribution to NAVBO will still be appreciated!

Your contribution will be used to support the many educational activities sponsored by NAVBO including online events, scholarships to Vasculata, member scholarships through our AYVDI Program (see above) and trainee travel awards.

To donate, [please click here](#). To choose a level for your contribution, select the appropriate "Sponsorship Opportunity"

NAVBO is a 501(c)3 charitable organization as designated by the IRS

## Leaders Lessons

The NAVBO Education Committee reached out to interview several senior members of the Vascular Biology community to get their thoughts on a variety of key questions regarding how they pursue their science and choices they have made along their paths to professional success. We will be providing regular installments of the diverse perspectives from different individuals to share how some of our Vascular Biology Leaders have learned some of their Lessons. This is an ongoing series and we will connect with more Leaders in the future!

See what these leaders - Patricia D'Amore, Victoria Bauth, Michelle Bendeck, Joyce Bischoff, Jan Kitajewski, Shulamit Levenberg, and Robert Mecham - have to say about the following questions:

**How to determine the right balance of technical personnel (continuity, memory, cost) and trainees (mentoring, time), i.e., permanent vs. transient personnel?** [Read their responses . . .](#)

**What do you do for fun and how do you make time for fun?** [Get some great ideas, read on . . .](#)

## Summer Programs



## PRIDE CVD-CGE

Cardiovascular Disease Comorbidities, Genetics and Epidemiology July 11-27, 2022 at the University of Washington in St. Louis

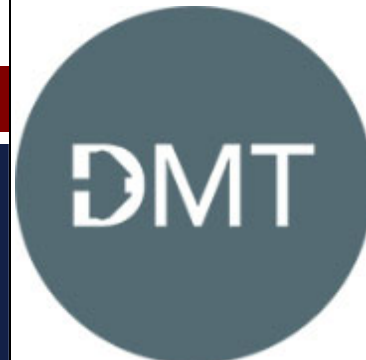
The NHLBI-funded "Programs to Increase Diversity Among Individuals Engaged in Health-Related Research" support junior



## Corporate Partners



Quantifying Cell Behavior



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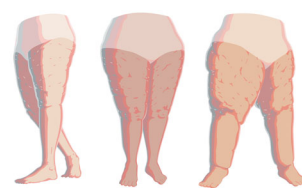
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## VB2021 Supporters



faculty underrepresented in biomedical research.

Space is limited for the mentored program starting summer 2022.  
**Apply early!**

[Learn more . . .](#)



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.

Applications for the 2022 program will be available on-line at [www.chp.edu](http://www.chp.edu) in early January 2022. Selected participants are notified in April. The 2022 program will commence in June and conclude at the end of July. Participants are expected to complete the 8-week program. Housing is provided.

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

[Learn more . . .](#)

## Member News

### Welcome to our New Members:

Meenal Datta, University of Notre Dame  
Claire Doerschuk, University of North Carolina at Chapel Hill  
Young-Kwon Hong, University of Southern California  
Lawrence Pinkus, National Institutes of Health  
Aimee Vozenilek, CVPPath Institute

If you have news to share with your colleagues, send it to [membership@navbo.org](mailto:membership@navbo.org)

## Spotlight on Trainees

### NOSTER & Science Microbiome Prize

Science/AAAS has teamed with [Noster](#), a Japanese company focused on understanding the roles of the myriad human gut microorganisms in health and disease, to sponsor the [NOSTER & Science Microbiome Prize](#). The award will recognize innovative research by investigators under the age of 35 who are working on normal and pathological attributes of the microbiota. Entrants will be judged on the basis of a submitted 1,000-word essay and supporting documents. The essay should describe the innovative research performed by the applicant that reveals exciting novel functions of the microbiota that has potential to contribute to our understanding of human or veterinary health and disease or to guide therapeutic interventions. The top prize includes a \$25,000 USD award and publication of the winning essay in Science. The deadline for entry is January 24, 2022.

*Originally published in our December 2 issue*

## Recent Member Publications

### Bone Marrow-Derived Alk1 Mutant Endothelial Cells and Clonally Expanded Somatic Alk1 Mutant Endothelial Cells Contribute to the Development of Brain Arteriovenous Malformations in Mice

#### Translational Stroke Research

We have previously demonstrated that deletion of activin receptor-like kinase 1 (Alk1) or endoglin in a fraction of endothelial cells (ECs) induces brain arteriovenous malformations (bAVMs) in adult mice upon angiogenic stimulation. Here, we addressed three related questions: (1) could Alk1- mutant bone marrow (BM)-derived ECs (BMDECs) cause bAVMs? [Read more](#)

### Mouse models of patent ductus arteriosus (PDA) and their relevance for human PDA

#### Developmental Dynamics

The ductus arteriosus (DA) is a unique fetal vascular shunt, which allows blood to bypass the developing lungs in utero. After birth, changes in complex signaling pathways lead to constriction and permanent closure of the DA. The persistent patency of the DA (PDA) is a common disorder in preterm infants, yet the underlying causes of PDA are not fully defined. [Read more](#)

### Lymph node formation and B cell homeostasis require IKK- $\alpha$ in distinct endothelial cell-derived compartments

#### PNAS

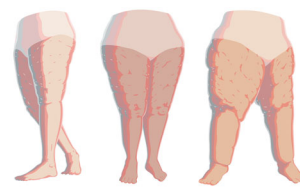
Global inactivation of I $\kappa$ B kinase (IKK)- $\alpha$  results in defective lymph node (LN) formation and B cell maturation, and loss of IKK- $\alpha$ -dependent noncanonical NF- $\kappa$ B signaling in stromal organizer and hematopoietic cells is thought to underlie these distinct defects.

DEPARTMENT OF BIOENGINEERING  
UNIVERSITY of WASHINGTON

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in Cardiovascular  
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VB2021 Exhibitors

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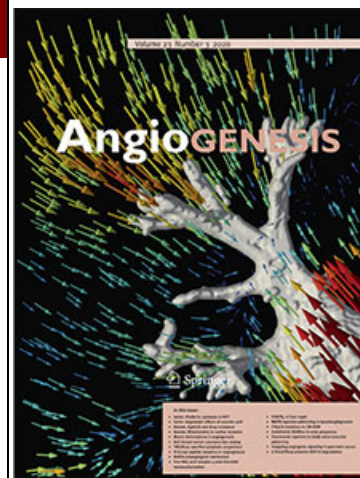


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VB21 Guest Society



Affiliated Journals



**Cardiovascular  
Pathology**

**frontiers** Impact Factor 6.050  
in Cardiovascular  
Medicine

We previously demonstrated that this pathway is also activated in vascular endothelial cells (ECs). [Read more](#)

### **The Endothelial Barrier Restricts Endocrine Actions to the Luminal Vascular Receptors: Changing the Paradigm: A Didactic Approach**

European Journal of Medical and Health Sciences

In 1849, the first list of endocrine hormones was discovered and proposed that the synthesizing gland delivers it to the circulation. The circulatory hormone reaches the target organ, physically unimpeded acts directly on the parenchymal cells. [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](mailto:membership@navbo.org). Please note, only papers authored by current NAVBO members are accepted for inclusion.

## **Industry News**

### **Guide to successful oversight of Wellness programs**

Seldom has the well-being and mental health of health care professionals been more formidably challenged than during the ongoing coronavirus pandemic. Academic institutions and medical centers nationwide, aiming to address urgent staff and student concerns, have sought to develop effectively-managed wellness initiatives. A new [report from the AAMC](#) presents findings from two recent surveys of health care professionals highlighting common elements of wellness programming and describing the roles of the well-being champions who lead and support wellness efforts. The report provides new data, insights, and recommendations to help institutions establish and continue to develop wellness leaders and initiatives.

### **Modeling the vasculature in miniature**

Writing in the Journal of Molecular and Cellular Cardiology, [Mandrycky and colleagues review](#) miniaturized “organ-on-a-chip” systems as applied to vascular biological research. These platforms enable a variety of experimental approaches, ranging from modeling effects of biophysical forces on cells to screening potential therapeutics in composite microphysiological systems. Since inclusion of vascular structure is vital to the physiologic fidelity of organ-on-a-chip systems, the authors highlight recent advances in the relevant technologies with a focus on the vasculature. Topics addressed include vascular network assembly and remodeling to form complex vascular beds under flow, as well as consideration of future prospects for the organ-on-a-chip approach in specific disease modeling and tissue regeneration.

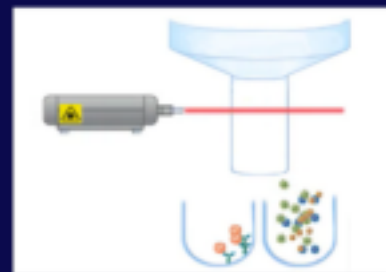
### **Will Type 1 Diabetes yield to the therapeutic promise of stem cells?**

[Gina Kolata reports](#) in The New York Times the promising results of an experimental Type 1 Diabetes treatment that uses human stem cells differentiated to release insulin in a glucose-dependent manner. The cells, developed in the lab of Doug Melton and advanced to early clinical trial in collaboration with [Vertex Pharmaceuticals](#), are potential alternatives to pancreas or islet transplantation as a long-lasting solution insulin deficiency. Melton’s lab labored for 20+ years to hit upon the induction cocktail that would drive beta islet cell differentiation. As in conventional organ transplantation, chronic immune suppression will be needed, but patients may see this as a winning trade-off for constant monitoring of blood glucose and insulin administration.

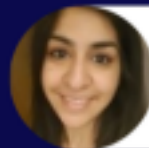
*Originally published in our December 2 issue*

## **Call for Papers**

### **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

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](mailto:zhenchen@coh.org) or [follow this link](#).



**frontiers**

in Cardiovascular  
Medicine

Impact Factor 6.050

## 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](#)



# frontiers in Cell and Developmental Biology

Impact Factor 6.684

## Lymphatic System: Organ Specific Functions in Health and Disease

Topic Editors: Tsutomu Kume, Young-Kwon Hong, Zoltán Jakus and Kaska Koltowska

The journal Frontiers in Cell and Developmental Biology has launched a new Research Topic on “Lymphatic System: Organ Specific Functions in Health and Disease” to feature the cellular and molecular mechanisms that govern the formation and regulation of lymphatic vascular heterogeneity in different organs/tissues. This Research Topic will be edited by Dr. Tsutomu Kume (Northwestern University, USA), Dr. Young-Kwon Hong (University of Southern California, USA), Dr. Zoltán Jakus (Semmelweis University Budapest, Hungary) and Dr. Kaska Koltowska (Uppsala University, Sweden).

The intent of the Research Topic is to enhance understanding of organ-specific lymphatic functions in health and disease. The scope of the Research Topic is to focus on recent and novel advances in lymphatic vascular heterogeneity and organ-specific lymphatic functions with an emphasis on cellular and molecular processes. We welcome original research, reviews, and opinion articles, falling under, but not limited to, the following areas:

- Organ-specific lymphatic cell identity and origin
- Lymphatic vessel morphogenesis in different organs
- Organ-specific lymphatic function
- Impaired organ-specific lymphatic function in pathological processes
- Signaling pathways under physiological and pathological conditions
- Cell-cell communication
- Organotypic chemokines and cytokines
- Organ-specific modulation of immune responses

Deadline for abstract: January 15, 2022

Deadline for manuscript: May 21, 2022

[Visit this website for more information.](#)

## Calendar of Events

January 6, 2022	<a href="#">Webinar Featuring Karthik Suresh: Mitochondrial ROS-induced Ca<sup>2+</sup> influx and microvascular endothelial cell dysfunction in pulmonary arterial hypertension (PAH)</a>
January 13, 2022	<a href="#">InFocus - Pathogenic Endothelial Cell Development</a>
January 27, 2022	<a href="#">International Mini-Symposium - Vascular Immunity, Inflammation and Atherosclerosis</a>
March 18-19, 2022	<a href="#">4th Annual Gulf Coast Vascular Research Consortium</a>

[Visit the NAVBO Calendar of Events for more meetings](#)



## Job Postings

Job Title	Company	Location
<a href="#">Postdoctoral Fellow – Cardiovascular Biology</a>	University of Pittsburgh	Pittsburgh, PA
<a href="#">Postdoctoral Position in Vascular Research at Northwestern University</a>	Northwestern University	Chicago, IL
<a href="#">Postdoctoral Researcher</a>	University of Pennsylvania	Philadelphia, PA
<a href="#">Postdoctoral Fellow in Immunology and Nanotechnology</a>	Univ of Illinois Col of Med	Chicago, IL
<a href="#">Postdoctoral Fellow</a>	Rutgers University	Newark, NJ
<a href="#">Postdoctoral Traineeship</a>	National Institutes of Health	Bethesda, MD
<a href="#">Postdoctoral Fellow in Vascular Biology and Inflammation</a>	Univ of Illinois Col of Med	Chicago, IL

### North American Vascular Biology Organization

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