



NewsBEAT

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Today's Focus Session

Focusing on Disease

Join us **TODAY** at 1:00pmEDT

Today's presentations include:

1. Determining Angiopoietin-2 inhibition as a potential therapeutic target to universally rescue Hereditary Hemorrhagic Telangiectasia associated phenotypes (Xingyan Zhou)
2. A novel role for telomerase in aortic valve calcification (Dr. Rolando A. Cuevas)
3. Golgi-localized endothelial Pannexin 3 can regulate hypertension via BCL6 (Abigail Wolpe)

This session will NOT be recorded - so be sure to join us today at 1pmET. [Click here to register.](#)

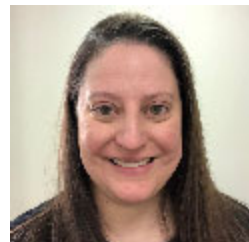
Join future Focus Sessions, sponsored and organized by the NAVBO Online Program Committee: New Techniques; and Endothelium Heterogeneity.

See you in California!!!



Plans are now underway for an in-person meeting at **Asilomar!!!** Plan to join us from October 24-28, 2021. Vascular Biology 2021 will feature the Developmental Vascular Biology & Genetics and the Vascular Matrix Biology & Bioengineering Workshops. [See the program on our web site.](#)

Upcoming Webinars



The NAVBO Diversity, Equity and Inclusion Committee is sponsoring a webinar on "[Leadership Strategies for Advancing Diversity, Equity and Inclusion](#)" by **Dr. Artika R. Tyner**. Join us May 4 at 1:00pmET.

Dr. Amber Stratman from Washington University in St. Louis will present her talk "Regulation of endothelial cell-mural cell interactions during development."

Dr. Irina Petrache, National Jewish Health, will present her talk "Lung Injury Repair by the Pulmonary Microvasculature" in our webinar series on June 3. [Click here to register.](#)

Mark your calendars for these webinars. And bookmark this [page on our web site for more exciting 2021 webinars.](#)

Symposium

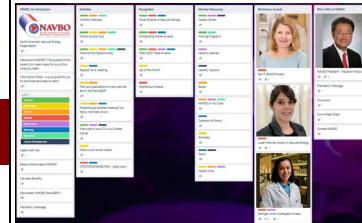
Inflammation Resolution in Atherosclerosis and Aging

Tuesday, May 18, 2021 at 1:00pm

In this issue...

- Focus Sessions
- VB2021
- Webinars
- Symposium
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NAVBO Quick Overview



Meetings/Events



Webinars - 1st Thursday
Focus Sessions - 2nd and 4th Thursdays
Journal Clubs - 3rd Thursdays
Special Sessions on Tuesdays ([check schedule](#))
Download the NAVBO Events App from the App stores

SAVE THE DATE!

LYMPHATIC FORUM 2021

Exploring the Lymphatic Continuum Virtual Meeting

May 31-June 5, 2021

Registration open through June 4



Vasculata 2021

Virtual July 13-15

Now Accepting Abstracts
Registration is Open

Organized by **Gabrielle Fredman,**
Albany Medical College

Speakers:

Dr. Amanda Doran, Vanderbilt
University Medical Center
Dr. Daniel Goldstein, University of
Michigan
Dr. Francine Welty, Beth Israel
Deaconess Medical Center



For more information, [click here](#).

Sponsored by the NAVBO Online Program Committee

Mark your calendar for our next Symposium on June 15:
Human Organoid Systems to Study Vascular Toxicity

Call for Council Applications

If you are interested in serving NAVBO, please consider submitting your application for Council.

The NAVBO Council is pleased to announce a Call for Applications for two Councilor positions. Any Regular member in good standing (dues paid through June 30, 2021 or later) is eligible to run for the position of Councilor. [Click here for more information and to submit an application](#). The deadline for submissions is April 30.

Call for Nominations - Due May 3



New NAVBO Award for Outstanding Mentorship Named for Dr. Stephen Schwartz

This award, named for Dr. Stephen Schwartz, will honor an outstanding mentor. **Nominations for the 2021 recipient are due May 3.** For more information and to submit a nomination, [please go to the web page](#).

Virtual Vasculata 2021

Plan to Attend Vasculata 2021!
[Register Now](#) and [Submit an Abstract!](#)

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 will be an ongoing series and we hope to connect with more Leaders in the future!

In this issue, we asked Senior Scientists to respond to the question: **How do you choose what to pursue scientifically?**

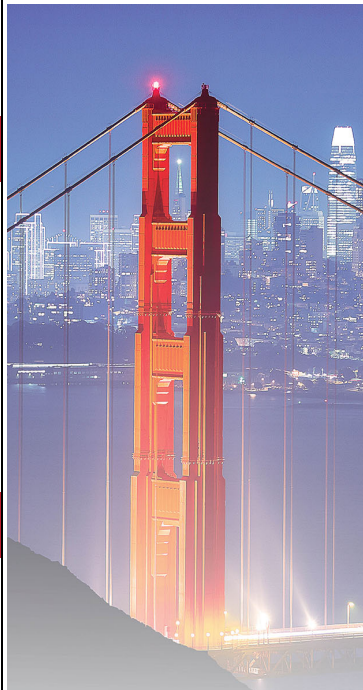


Patricia D'Amore, Ph.D., Senior Scientist, Schepens Eye Research Institute; Director, Howe Laboratory; Associate Chief for Ophthalmology Basic and Translational Research, Massachusetts Eye and Ear; Charles L. Schepens Professor of Ophthalmology, Harvard Medical School

Jan Kitajewski, Ph.D., Professor and Head of Department of Physiology and Biophysics, College of Medicine at Chicago; Director, University of Illinois Cancer Center



Shulamit Levenberg, Ph.D., Professor and Former Dean, Biomedical Engineering Department; Director, Stem Cell and Tissue Engineering Laboratory; Technion, Israel Institute of Technology, Haifa, Israel



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



Webinar Series



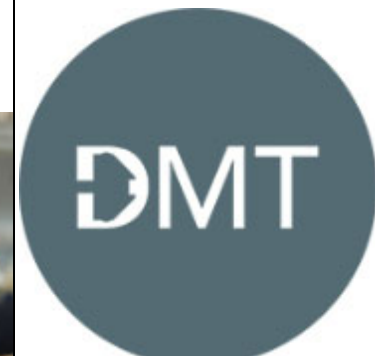
Journal Club

Join us on May 20 for our next Journal Club. Registration information will be available in the NAVBO Online Event App.

Corporate Partners



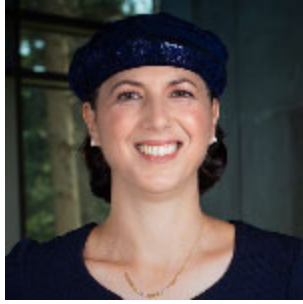
Quantifying Cell Behavior



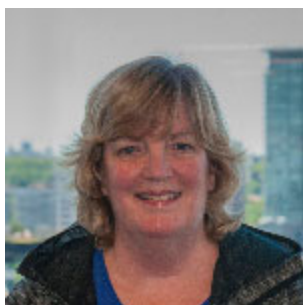
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VISUALSONICS





Robert Mecham, Ph.D., Alumni Endowed Professor of Cell Biology and Physiology, Professor of Medicine, Pediatrics and Bioengineering, Washington School of Medicine in St. Louis



Michelle Bendeck, Ph.D., Professor, Department of Laboratory Medicine and Pathobiology, University of Toronto and Translational Biology and Engineering Program, Ted Rogers Centre for Heart Research

Joyce Bischoff, Ph.D., Professor of Surgery, Harvard Medical School; Research Associate, Surgery, Boston Children's Hospital; Principal Investigator, Surgery and Vascular Biology Program, Boston Children's Hospital



Victoria Bautch, Ph.D., Beverly Long Chapin Distinguished Professor, Department of Biology, University of North Carolina at Chapel Hill; Co-Director of McAllister Heart Institute

Find more lessons from leaders on our web site.

Lab of the Month



Lab of the Month - April 2021

The Lab of Dr. Rio Sugimura

This month we are highlighting the lab of Dr. Rio Sugimura, who is an Assistant Professor at the University of Hong Kong. Find out more about Dr. Sugimura's lab by [visiting his page](#) in our Lab of the Month listing.

Spotlight on Trainees

Entries for Science & SciLifeLab Prize for Young Scientists Now Open

The Science & SciLifeLab Prize for Young Scientists is awarded annually to four young scientists for outstanding life science research toward a doctoral degree earned within the previous two years and described in a 1000-word entry essay. Each year, a Grand Prize and category runners-up receive monetary awards, and grand prize-winning essay will be published in Science. All winners will be invited to Sweden in December 2021 to meet with leading scientists in their fields of research and create life-long connections to support their careers. Entries in the four topical categories (Cell and Molecular Biology; Genomics, Proteomics and



Corporate Members



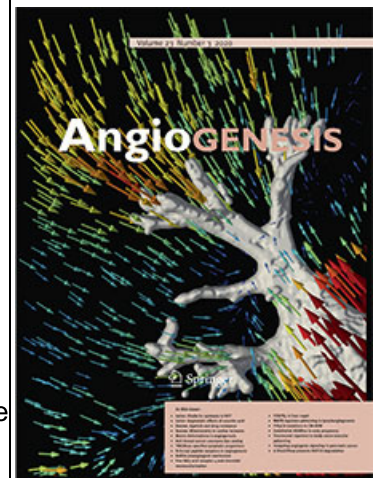
VB2020 Supporters



VB20 Guest Societies



Affiliated Journals



Cardiovascular Pathology



Systems Biology; Ecology and Environment; Molecular Medicine) are judged by an independent editorial team on the quality of research and the applicants' ability to articulate their work's scientific impact. The **application period is open** March 15 – July 15, 2021.

(originally published April 8)

Member News

Welcome to our Newest Member:

Nicolas Barbera, University of Virginia

Harvard Medical School Seminars in Vascular Biology

Organized by several NAVBO members (Peter Libby, Michael Gimbrone, Masanori Aikawa, Guillermo Garcia-Cardena, and Patricia D'Amore), this seminar series offers weekly talks on Thursdays at 4:30 PM (ET). Here's what's coming up this month:

April 29

Eugene C. Butcher, MD

Stanford University and Palo Alto VA Medical Center

Endothelial Diversity, Angiogenesis and the Origins of HEV: insights from Single Cell Profiling

Zoom Info: <https://partners.zoom.us/j/4919086978>

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



Recent Member Publications

Embryology of the lower limb demonstrates that congenital absent fibula is a radiologic misnomer

The Anatomical Record

The congenitally shortened limb (CSL) with fibular deficiency or absence has historically been graded by plain radiography, while associated cartilaginous and arterial soft tissue anomalies have been comparatively neglected. Consistent pathological evidence of remnant cartilaginous bodies in place of the fibula presupposes earlier existence of a preformed cartilaginous template of the fibula. [Read more](#)

First blood: the endothelial origins of hematopoietic progenitors

Angiogenesis

Hematopoiesis in vertebrate embryos occurs in temporally and spatially overlapping waves in close proximity to blood vascular endothelial cells. Initially, yolk sac hematopoiesis produces primitive erythrocytes, megakaryocytes, and macrophages. [Read more](#)

Mechanisms and cell lineages in lymphatic vascular development

Angiogenesis

Lymphatic vessels have critical roles in both health and disease and their study is a rapidly evolving area of vascular biology. The consensus on how the first lymphatic vessels arise in the developing embryo has recently shifted. [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

IAS Opens Nominations for Gotto Prize in Atherosclerosis Research

The [International Atherosclerosis Society invites nominations for the Antonio M. Gotto, Jr., Prize in Atherosclerosis Research](#) for 2021. The Gotto Prize aims to encourage basic, clinical and translational research in the areas relating to the causes, prevention, and treatment of cardiovascular disease globally, by recognizing the work of an individual who has achieved these goals and continues to work towards that end. The \$20,000 Prize, sponsored by Weill Cornell Medical College and the International Atherosclerosis Society, will be presented during the upcoming XIX International Symposium on Atherosclerosis, October 24-27, 2021, in Kyoto, Japan. Please email your nomination along with the candidate's CV and a letter of support to the Selection Committee at GottoPrize@athero.org by May 31, 2021.

“Considerations for Patients with Peripheral Artery Disease During the COVID-19 Pandemic”

From the abstract: Farhan and colleagues at NYU and Mt. Sinai report in [Clinical and Applied Thrombosis/Hemostasis](#) on the complexities of treating patients with peripheral artery disease during the coronavirus pandemic in New York City. The authors note that challenges presented to health care systems and medical personnel were especially acute in NYC, one of the epicenters of the outbreak. The report is based on the experiences of experts from various medical fields involved in the treatment of patients with PAD practicing in hospitals across New York City during the outbreak. The authors advance recommendations for clinical management based on COVID-19 infection status as well as the clinical PAD presentation of the patient.

3rd Annual Blood-Brain Barrier Summit Announced

The blood-brain barrier (BBB) is a complex cellular and matrix-based interface that effectively segregates the peripheral blood from the brain. Recent research has explored novel means of breaching the BBB in order to deliver therapeutic agents to the central nervous system. A digital [Blood-Brain Barrier Summit](#) is planned for June 28-30, 2021, focused exclusively on evaluating innovative approaches to tackling this major challenge for CNS drug developers. The program features updates on the use of antibody therapies, nanoparticle engineering, AAV capsids, focused ultrasound, and extracellular vesicles, as well as consideration of mechanisms of SARS-CoV-2 brain entry. Presenters include scientists from academic labs and industrial partners from AbbVie, Novartis, Roche, Merck and Ossianix.

(originally published April 8)

Call for Papers

Emerging methods in profiling endothelial cells (EC) at single-cell resolution

Message from Dr. Zhen Chen, Guest Editor (NAVBO member and 2020 Springer Award Recipient)

Our goal is to provide standardized and detailed protocols for researchers interested in endothelium mapping and profiling. We hope to introduce state-of-the-art methods for isolating and profiling ECs from various vascular beds and organs (e.g. arteries, veins, microvessels, and organoids) at a single-cell level across species, especially human and mouse. Examples include (but not limited to) scRNA-seq, scATAC-seq, single molecule fluorescent in situ hybridization (smFISH), and spatial transcriptomics and proteomics. The protocols should describe initial sample preparation (e.g. tissue processing and dissociation), subsequent processing, and dataset analysis with an emphasis on endothelial biology.

We welcome researchers especially those within CZI networks, HuBMAP, and HCA who work on tissue dissociation and profiling to submit abstracts. The web page for this Method Collection is now live at <https://www.jove.com/methods-collections/946>. For anyone with potential interest, please feel free to email me by June 15 and I would be more than happy to discuss. If you already have protocols on Protocol.IO, you may consider modifying them for this collection and we could link them.

The Method Collection will have its own dedicated page on JoVE's website, highlighting the associated video articles, and editorial written by the guest editors, and a video of the editorial produced by JoVE. Thus your protocols are likely to receive more interest and attention compared to a regular JoVE article.

Here is a brief summary of submission/review process and timeline:

1. Please email me directly (zhenchen@coh.org) or submit your abstract through the link by June 30, 2021.
2. Once it is agreed that the abstract fits within the collection scope, the author will be invited to submit a manuscript.
3. Submitted manuscripts are reviewed by JoVE Science Editors, and then undergo external peer review. The process will be facilitated and expedited as needed given these are invited articles. Appropriate deadlines will be set on an individual basis as authors are invited, with an average of +6-7 months but this can be extended especially due to the COVID-19 situation.
4. Once the manuscript is accepted, JoVE will publish it online and index the article with PubMed, and then carry out the scripting, filming, and post-production work for the video once it is safe to do so.

For examples of existing JoVE Method Collections, please refer to <https://www.jove.com/methods-collections>.

**Frontiers in
Cardiovascular Medicine
Special Research Topics**



***Putting Engineering Back In
Vascular Tissue Engineering
To Advance Basic Science and Clinical Applications***

Topic Editors: Jessica Wagenseil (Washington University in St. Louis) and W. Lee Murfee (University of Florida).

This topic is sponsored by NAVBO

Vascular tissue engineering (VTE) can be characterized as the creation of replacement vessels. Over the past 30 years, approaches have incorporated different combinations of extracellular matrix scaffolds, cells and biological active chemical cues. Challenged by the goal to recapitulate the complexity of big or small vessels, the clinical use of in vitro tissue engineered vessel replacements is still limited. With research more often focusing on reductionist materials science or cell biology characterization of vessel-like constructs, an opportunity has emerged to re-apply engineering approaches to guide the next step in VTE.

Manuscript submission deadline has been extended; for more information, [click here](#).

What do we know about COVID-19 implications for cardiovascular disease?

Topic Editors: Hendrik Tevaearai Stahel, Masanori Aikawa, Shuyang Zhang, and Andrew F. James

The coronavirus epidemic causes major cardiovascular complications. Underlying mechanisms, however, remain incompletely understood. *Frontiers in Cardiovascular Medicine* invite you to submit your article on this topic. We consider all types of manuscripts: fundamental basic science reports, translational or clinical studies, review articles and methodology papers.

We have already published 17 articles. More submissions are currently under review. Due to the popularity and the emerging nature of this topic, we decided to extend the deadline to December 31, 2021. All articles submitted before this deadline will be published free of charge. We encourage you to take advantage of this opportunity to publish your original study or review article in FCVM (Impact Factor 3.915).

For more information, [click here](#).

For questions, please contact Masanori Aikawa maikawa@bwh.harvard.edu or the editorial office cardiovascularmedicine.editorial.office@frontiersin.org

Calendar of Events

April 22, 2021	NAVBO Focus Session on Disease
April 27 - 30, 2021	Experimental Biology 2021
May 4, 2021	Diversity Committee Webinar with Dr. Artika R. Tyner
May 6, 2021	Regulation of endothelial cell-mural cell interactions during development
May 18, 2021	Inflammation resolution in atherosclerosis and aging
May 31 - June 5, 2021	Lymphatic Forum 2021
June 3, 2021	Lung injury repair by the pulmonary microvasculature
July 13 - 15, 2021	Vasculata 2021
October 24 - 28, 2021	Vascular Biology 2021
October 24 - 27, 2021	ISA 2021

Job Postings

Job Title	Company	Location
Postdoctoral Fellow - Boston Children's Hospital and Harvard Medical School	Boston Children's Hospital	Boston, MA
Postdoctoral Scholar	Case Western Reserve University	Cleveland, OH
Postdoctoral Fellow - Boston Children's Hospital, Harvard Medical School	Boston Children's Hospital	Boston, MA
Research Associate	University of Virginia	Charlottesville, VA
Postdoctoral Fellow in Translational Genetics	University of California, San Francisco	San Francisco, CA
Postdoctoral Fellowship in Lymphatic Vascular Biology	University of South Florida	Tampa, FL



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