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# NewsBEAT

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## Today's Focus Session


**NAVBO** Focus Session  
 North American Vascular Biology Organization

**Thursday August 26<sup>th</sup>, 2021 at 1:00 p.m. ET**


**"Focusing on Vascular Integrity"**



**Jisca Majolee**  
 Cullin activation triggers inflammatory signaling and Rho/ROCK-dependent loss of endothelial integrity



**Timothy Sveegen**  
 Anxa2 contributes to junctional stabilization of endothelial cells, downstream of S1P activation



**Dakota Gustafson**  
 Extracellular Vesicles Induce Vascular Leak in Diabetes through MEK/ROCK Signalling

*Supported by the NAVBO Online Programming Committee*

[@vascularbiology](#) FREE registration online  
<https://attendee.gotowebinar.com/register/3446260185050972432>

**Register**

## A Must Attend Event!

# Mapping Knowledge about Human Vasculature Across Body Scales

Join us Tuesday, August 31 from 1:00pm to 2:30pmET

### AGENDA

**Online Cleaver, UT Southwestern University:**

*The challenge of managing scientific knowledge about the organotypic vasculature*

**Zorina Galis, NHLBI/NIH:**

*From Mapping the Vasculome to Mapping the Human Body. And Back!*

**Griffin Weber, Harvard Medical School:**

*Creating a map of the human blood vasculature: anatomical level and beyond*

Discussion

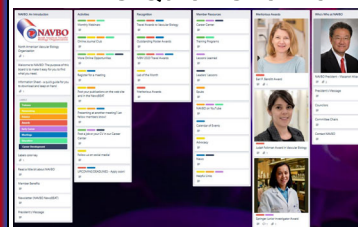
In this exciting session we want to explore new scientific and technological opportunities that allow overcoming the traditional challenge of systematically organizing knowledge of vasculature identity, diversity of structure and function, and its coordination and interactions with all body tissues and organs.

We will share the progress in mapping the vasculature at the anatomical level and in organizing knowledge about a number of human tissues and organs at single cell level through the Anatomical Structures Cell Types and biomarkers (ASCT+B) effort championed by the NIH Common Fund Human BioMolecular Program (NIH

### In this issue...

- Focus Session
- Mapping the Vasculature
- Career Development Forum
- VB2021
- NAVBO Communities
- Symposia
- Webinars
- Leaders Lessons
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- Call for Abstracts - JoVE
- Calendar of Events
- Job Postings

### NAVBO Quick Overview



### Meetings/Events



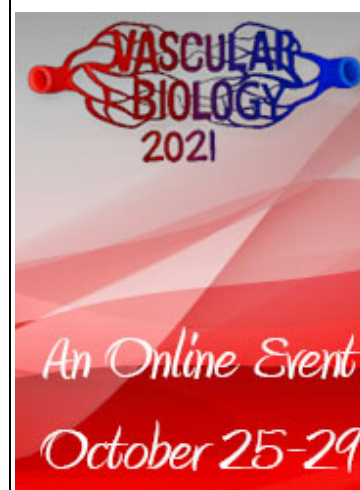
**Webinars** - 1st Thursday

**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



**Register Now!**

HuBMAP), for which NHLBI is a leading institute. All the tools and data generated, including tissue mapping information, are available to the entire scientific community through the HuBMAP Data Portal, encouraging wide scientific interrogation and collaborations.

**Do you know what is still missing from the maps of all these human organs???** The organotypic vasculature! Can you imagine a kidney, a heart, or any other organ without a vasculature? NAVBO is calling upon all vascular experts! Would you like to learn how YOU can help?

[Register](#)

## Career Development Forum

### Part One: Academic and Faculty Careers

Join us for the launch of our new series: **Career Development Forum**. Our inaugural broadcast will feature a discussion about Academic/Faculty Careers with presentations by our panelists: Kathleen Caron, University of North Carolina; Anjelica Gonzalez, Yale University; Patrick A. Murphy, University of Connecticut, and Vinicio de Jesus Perez, Stanford University. Panelists will then answer your pre submitted questions, so be sure to send your questions to [CareerForum@navbo.org](mailto:CareerForum@navbo.org).

[Click here to register for this Session!](#)

Please help us develop future panels by [taking our survey](#)

Career Month at NAVBO continues with our September Journal Club featuring the paper entitled "Ten Simple Rules to Becoming a Principal Investigator." Dr. Mary Wallingford from Tufts Medical Center and Dr. Xiaolei Liu from Northwestern University will discuss the paper and share their perspectives on the transition to becoming a PI, succeeding in academia, and building a new lab, especially as women scientists. This Journal Club will be moderated by Dr. Ke Yuan from Harvard Medical School and Dr. William Hughes from Medical College of Wisconsin. [Here is a link to the paper being discussed](#)

**Please note - the above sessions are free to all!**

## Vascular Biology 2021

### Online Event

As you know, **Vascular Biology 2021** is now fully virtual and will be held from Monday, October 25 through Friday, October 29.

We have a core program filled with excellent and exciting speakers that will be the mainstay of the program; these sessions will be held from roughly 11amET to 4:30pmET. New interactive sessions are in development and the final schedule should be available soon.

Obviously travel awards will not be presented **BUT** we are planning to present awards for the best short talks, best ePosters and best Nano-Talk to trainees that qualify. More details will be on our web site soon.

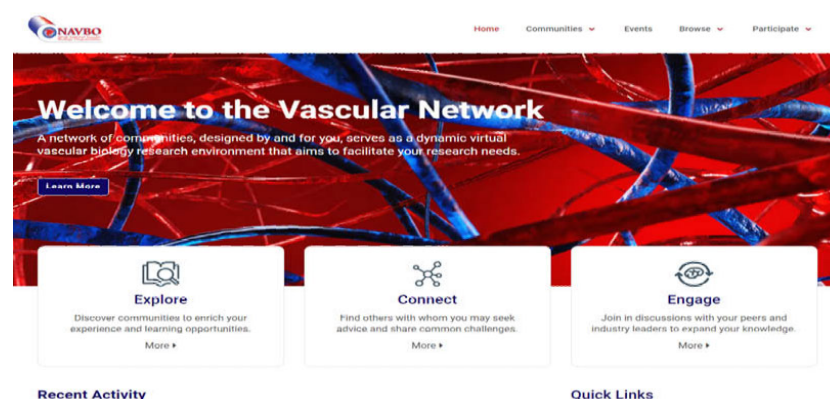
Continue to watch the web site for updates  
<https://www.navbo.org/vb2021>.

**Submit an Abstract for ePoster Presentation Due September 10**

Register for the meeting by September 15 to save \$\$.  
[Find out more on our web site.](#)

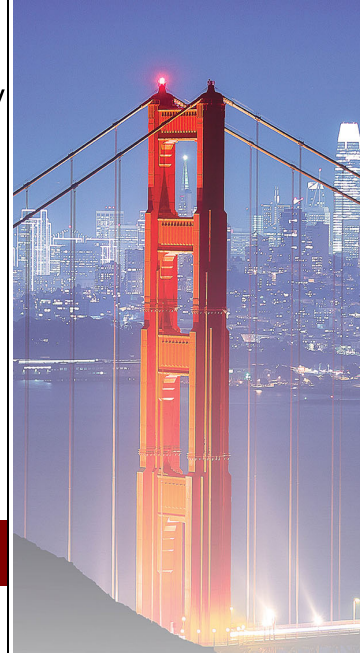
[Register](#)

## The Vascular Network



### Check Out the Community!

NAVBO has launched a new community site that we call **The Vascular Network**. A network of communities, designed by and for you, serves as a dynamic virtual vascular biology research environment that aims to facilitate your research needs. This



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



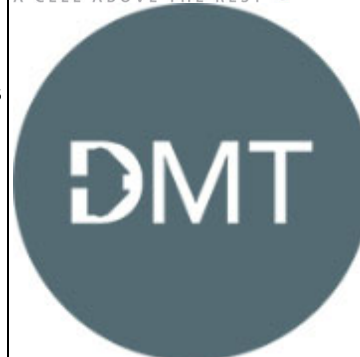
### Webinar Series



### Corporate Partners



Quantifying Cell Behavior



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### Corporate Members



### VB2021 Supporters



network is a means of communicating with the entire NAVBO community simply by sending an email (or posting on the Network web site). It is also a site where you can share documents and other files in community libraries or write a blog. The Open Forum Community will link all NAVBO members. Other communities will be based on members' research interests, career level, attendance at a meeting or a group with which you identify.

**Join one of these communities:**

- New Member
- OMICS
- Organ-Specific Vasculature

## Upcoming Symposia



### Symposium

**Tuesday September 21<sup>st</sup> 2021, 1:00 pm ET**

**"Partial EndMT in Cardiovascular Disease"**



**Dr. Joyce Bischoff**  
Harvard Medical School



**Dr. Chris Hughes**  
University of California, Irvine



**Dr. Geoffrey Pickering**  
Robarts Research Institute, Western University



**Dr. Marie-Jose Goumans**  
Leiden University Medical Center



**Dr. Hanjoong Jo**  
Emory University

*Organized by Dr. Joyce Bischoff, Harvard Medical School  
Supported by the NAVBO Online Programming Committee*

Register Online:  
<https://navbo.ungerboeck.com/prod/emc00/register.aspx?OrgCode=10&EvtID=5215&AppCode=REG&CC=121072203651>

  @vascularbiology

**Click on the images above for more information and to register.**

Online Symposia and Focus Sessions are Sponsored by the NAVBO Online Program Committee

## Special Webinar - Join Us 9/7



On September 7, 2021 at 1:00PM ET, **Dr. Garth Graham**, Director and Global Head of Healthcare and Public Health Partnerships at YouTube and Google Health, will present a webinar for the NAVBO Diversity, Inclusion and Equity Committee titled, "THE EVOLVING ROLE OF SOCIAL DETERMINANTS OF HEALTH IN DRIVING CARDIOVASCULAR

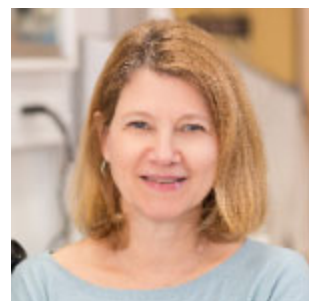
DISPARITIES." [Visit our website for more information and to register!](#)

Look for more webinars and [bookmark this page on our web site](#) for more exciting 2021 webinars.

## 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 questions: **How to say no professionally?**



*Patricia D'Amore, 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*



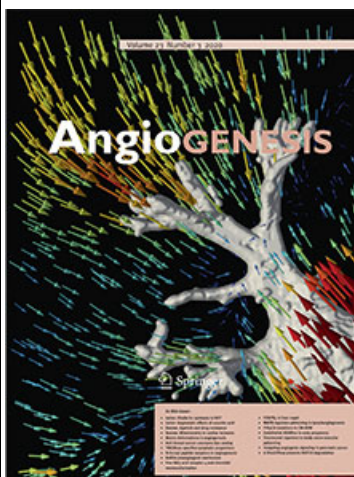
DEPARTMENT OF BIOENGINEERING  
UNIVERSITY of WASHINGTON



## VB21 Guest Societies



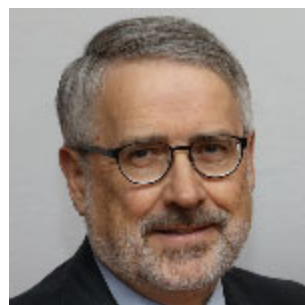
## Affiliated Journals



## Cardiovascular Pathology



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



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

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

## Member News

### Welcome to our New Members:

Ramón Lorca, University of Colorado Anschutz Medical Campus  
Miranda Marvel, NICHD/NIH  
Satomi Matsumoto, University of California, Irvine  
Nicole Pek, Cincinnati Children's Hospital Medical Center

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

## Spotlight on Trainees

### Grants available for undergraduate students seeking research experience

Cayman Biomedical Research Institute (CABRI) invites undergrad students who hold offers of unpaid laboratory research under an accredited PI to apply for [grants](#) of \$2000-5000. CABRI President Kirk Maxey notes that the grant "...is intended to expand access to this opportunity for more individuals whose early research training will set them on a lifelong path of scientific discovery." CABRI, a nonprofit affiliate of Michigan-based Cayman Chemical, focuses on supporting research into treatments for rare cancers, orphan diseases, and genetic defects that is typically underfunded. Undergraduate grant applications may be submitted through an [online form](#) and will be accepted Aug. 23 – Sept. 19, 2021, for awards to be distributed by November 2, 2021.

## Recent Member Publications

### Systems Approach to Discovery of Therapeutic Targets for Vein Graft Disease: PPAR $\alpha$ Pivotaly Regulates Metabolism, Activation, and Heterogeneity of Macrophages and Lesion Development

Circulation

Background: Vein graft failure remains a common clinical challenge. We applied a systems approach in mouse experiments to discover therapeutic targets for vein graft failure. [Read more](#)

### Metabolism of PLTP, CETP, and LCAT on multiple HDL sizes using the Orbitrap Fusion Lumos

JCI Insight

Recent in vivo tracer studies demonstrated that targeted mass spectrometry (MS) on the Q Exactive Orbitrap could determine the metabolism of HDL proteins 100s-fold less abundant than apolipoprotein A1 (APOA1). [Read more](#)

### Multiple cell types contribute to the atherosclerotic lesion fibrous cap by PDGFR $\beta$ and bioenergetic mechanisms

Nature Metabolism

Stable atherosclerotic plaques are characterized by a thick, extracellular matrix-rich fibrous cap populated by protective

ACTA2+ myofibroblast (MF)-like cells, assumed to be almost exclusively derived from smooth muscle cells (SMCs). [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 WAVBO members are accepted for inclusion.

## Industry News

### NIH loan repayment programs offer debt relief and career continuity

The high cost of professional education and training in medicine and clinical specialties has compelled some investigators to abandon their research careers in favor of more lucrative positions in the private sector or private medical practice. To help retain highly qualified health professionals in biomedical research careers, the US Congress has established a set of [NIH Loan Repayment Programs](#) that enable defrayment of up to \$50,000 annually of a researcher's qualified educational debt, in exchange for a commitment to engage in NIH mission-relevant research. The online application submission window for this year's Extramural New & Renewal Awards is open Sep 1 - Nov 18, 2021.

### Antithrombotics help some, but not all, hospitalized COVID-19 patients

A large international [clinical trial](#) has revealed that [moderately-ill](#) hospitalized COVID-19 patients treated with full-dose antithrombotic agents experienced reduced need for mechanical ventilation and improved prospects hospital discharge. In contrast, this treatment strategy for [critically ill](#) COVID-19 patients requiring intensive care was not as effective with these endpoints. The formal conclusions from the trial, which was supported in part by the NHLBI, appear online in The New England Journal of Medicine.

### Hybrid conferences here to stay?

Writing in the March 2021 issue of Developmental Medicine & Child Neurology, [Christopher J Newman writes](#) that "In the post-COVID era, hybrid conferences may well become the new reality, striving for full, active, and complementary participation of attendees and speakers both on site and at a distance." The early months of the pandemic necessitated an abrupt shift from traditional face-to-face meetings to alternative digital formats, sometimes with less-than-ideal results. However, the crisis presented the opportunity to overcome recognized shortcomings of face-to-face conferences, such as lack of equity and inclusivity of participants and speakers in terms of sex, ethnicity, geographical setting, physical ability, health, and career stage. These advances, notes the author, are well worth preserving.

## Call for Abstracts - JoVE

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

## Calendar of Events

August 31, 2021	<a href="#">NAVBO Workshop: Mapping Knowledge about Human Vasculature Across Body Scales</a>
September 21, 2021	<a href="#">NAVBO Symposium: Partial EndMT in Cardiovascular Disease</a>
September 24 - 25, 2021	<a href="#">4th Annual Gulf Coast Vascular Research Consortium</a>
October 2 - 3, 2021	<a href="#">LGDA/LMI International Conference on Complex Lymphatic Anomalies</a>
October 25 - 29, 2021	<a href="#">Vascular Biology 2021</a>
October 24 - 27, 2021	<a href="#">ISA 2021</a>
October 28 & 29, 2021	<a href="#">International Scientific Meeting for PIK3CA Related Conditions</a>
November 1 - 4, 2021	<a href="#">36th Annual Critical Issues in Tumor Microenvironment: Angiogenesis, Metastasis and Immunology</a>

## Job Postings

Job Title	Company	Location
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Postdoc position in lymphatic vasculature research	Northwestern University	Chicago, IL
Postdoctoral Fellow	Rutgers University	Newark, NJ
Postdoctoral Associate	Rutgers University	Newark, NJ
Postdoctoral Fellow	University of Washington	Seattle, WA
Assistant/Associate Professor of Pharmacology and Physiology	University of Rochester	Rochester, NY
Postdoctoral Fellow in Vascular Biology	University of Colorado Anschutz Medical Campus	Aurora, CO
Postdoctoral Research Opportunity in Placental Vascular Development & Maternal Cardiovascular Adaptations to Pregnancy	Tufts Medical Center	Boston, MA
Research Assistant/Postdoc	Weill Cornell Medicine	New York, NY

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