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Congratulations NAVBO Trainees!

NAVBO was happy to provide travel awards to the **4th Annual Gulf Coast Vascular Research Consortium**. The award recipients are NAVBO Trainees **Callie Kwartler** of the McGovern Medical School UT Health, who presented a talk entitled, "Nuclear Smooth Muscle α -Actin is Critical for Smooth Muscle Cell Differentiation and to Prevent Cerebrovascular Disease" and **Liming Yu** of University of Texas Southwestern Medical Center presented a poster entitled, "Monocyte-to-endothelial cell crosstalk by 27-hydroxycholesterol promotes monocyte vascular recruitment and thereby advances atherogenesis."
Congratulations!!!



Dr. Courtney Griffin, President of NAVBO, was on hand to present the NAVBO Travel Awards.



Lessons Learned



My name is Monica Lee and I have been an Assistant Professor in the Department of Physiology & Biophysics at the University of Illinois at Chicago (UIC) since February 2019. I relocated to Chicago after a memorable postdoctoral experience in the lab of Dr. William Sessa at Yale University. My training did not cover how to direct science in the event of a pandemic – I doubt that topic was ever considered for anyone.

Rather, our training prepares us to deal with challenges, where COVID-19 is an extreme example of the uncontrollable variables that can arise when starting a lab. They say that with experience comes insight. So, with that said, I offer here a few of my own 'lessons learned' to those that are now transitioning toward independence.

[Read more](#) Lessons Learned from Monica Lee.

In this issue...

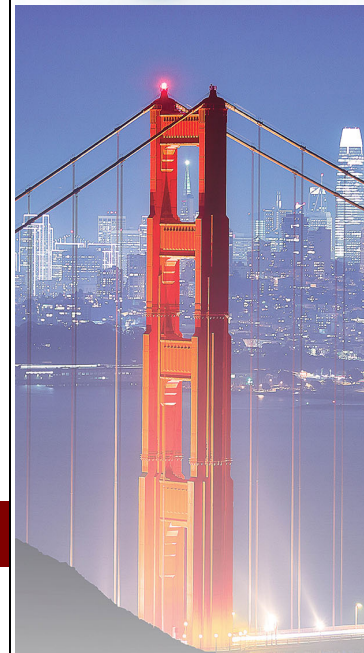
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Meetings/Events



Webinars - 1st Thursday
InFocus Sessions - 2nd and 4th Thursdays
Journal Clubs - 3rd Thursdays
Special Sessions on Tuesdays
(check schedule)

Webinar Series



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



IVBM 2022 Supporters

We gratefully acknowledge the support of the following

Lab of the Month



Lab of the Month - March 2022

The Lab of Dr. Monica Y. Lee

This month we are highlighting the lab of Dr. Monica Y. Lee, who is an Assistant Professor at the University of Illinois at Chicago. Find out more about Dr. Lee's lab by visiting [her page](#) in our Lab of the Month listing.

NAVBO Session at ASIP 2022 at EB



2022 Annual Meeting of the American Society for Investigative Pathology
Sunday, April 3, 2022 • 2:00 PM - 5:00 PM (EDT)
Pennsylvania Convention Center, Room 118-B




At the Intersection: Cell-Matrix Interactions in Vascular Development and Disease
Sponsored by the North American Vascular Biology Organization (NAVBO)
Chair/Organizer: Beth Kozel, MD, PhD • NHLBI, NIH

Temporal and Cell-type Specific Roles of Fibronectin During Formation and Remodeling of the Aortic Arch
Sophie Astrof, PhD • Rutgers University

New Genetic Markers of Endothelial Invasion in Collagen Matrices
Kayla Bayless, PhD • Texas A&M College of Medicine

Functions of Extracellular Matrix Glycoproteins in the Aortic Wall
Dieter Reinhardt, PhD • McGill University

Of Mice and Men: Consequences of Elastic Fiber Disease
Beth Kozel, MD, PhD • National Heart Blood Lung Institute, NIH



ASIP Annual Meeting at Experimental Biology Philadelphia, PA - April 2-5, 2022

This will be the last Experimental Biology meeting, but the American Society for Investigative Pathology promises an exciting program featuring basic and translational research talks presented by well-known senior and up-and-coming junior scientists and trainees, organized by the ASIP 2022 Program Committee in collaboration with their membership, Scientific Interest Groups, and guest societies including **NAVBO**.

The 2022 ASIP Annual Meeting includes sessions communicating cutting edge science and translational research, commingled with educational, professional development, and diversity enhancement sessions that will appeal to trainees and junior and senior faculty. As a reflection of the research interests of the ASIP membership, symposia, workshops, mini-symposia, poster blitz, and poster sessions will focus on the latest science in liver pathobiology, neuropathology, gene expression regulation, inflammation, immunopathology, cardiovascular biology, neoplasia, endothelial and epithelial cell biology, fundamental cell biology, artificial intelligence, and big data science.

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

NAVBO session at ASIP 2022:

At the Intersection: Cell-Matrix Interactions in Vascular Development and Disease

Chair/Organizer: **Beth Kozel, MD, PhD • NHLBI/NIH**

Sunday, April 3 at 2:00pm

Presentations:

Temporal and Cell-type Specific Roles of Fibronectin During Formation and Remodeling of the Aortic Arch
Sophie Astrof, PhD, Rutgers University

New Genetic Markers of Endothelial Invasion in Collagen Matrices
Kayla Bayless, PhD, Texas A&M College of Medicine

Functions of Extracellular Matrix Glycoproteins in the Aortic Wall
Dieter Reinhardt, PhD, McGill University

Of Mice and Men: Consequences of Elastic Fiber Disease
Beth Kozel, MD, PhD • NHLBI/NIH

societies, academic centers and corporations.

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ASIP
American Society for Investigative Pathology

EVB
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Guests

Société Française d'Angiogenèse



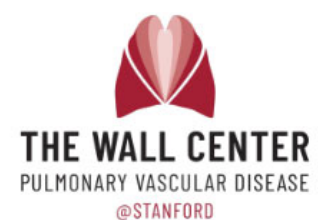
Academic

Suma Cum Laude



BRIGHAM AND WOMEN'S HOSPITAL
CARDIOVASCULAR MEDICINE

Cum Laude



Exhibitors

NIH-Wide Strategic Plan for DEIA

Your Feedback is Requested

The NIH is seeking feedback on their [Strategic Plan Framework for Diversity, Equity, Inclusion, and Accessibility](#). Your input on the framework as the plan is developed is encouraged. Feedback will help the NIH ensure that DEIA principles continue to be embraced and integrated across NIH going forward.

NIH stresses their belief that an inclusive and diverse pool of highly talented individuals is key for the country to remain a global leader in scientific discovery and innovation ([see these posts for more](#)). This means the NIH must actively consider factors that address DEIA principles and appropriately embed them within NIH and the wider scientific community. Embracing this DEIA vision will enhance their ability to drive biomedical innovation and serve an increasingly diverse US population.

The NIH-Wide DEIA Strategic Plan strives to clearly communicate their DEIA vision. It will align with the [NIH-Wide Strategic Plan](#) released last year, and encompass their ongoing initiative to address [structural racism in biomedical research](#) as well as build on the wider [federal effort](#) to expand DEIA across the workforce.

The scope of the plan covers accomplishments, needs, opportunities, and challenges related to DEIA within the NIH workforce, its structure and culture, and NIH supported research. The main objectives are to:

- Implement organizational practices to center and prioritize DEIA in the workforce
- Grow and sustain DEIA through structural and cultural change
- Advance DEIA through research

What are the potential benefits or drawbacks to this framework? Are there priority areas missing? Which best practices and policies are likely to foster positive culture change? What barriers stand in the way? How should DEIA be defined for the purposes of this effort? What metrics measure progress?

Please consider sharing your comments and feedback on this framework. [Please send them electronically by April 3, 2022.](#)

If some or all of these links aren't working – they can be found on this page: <https://nexus.od.nih.gov/all/2022/02/04/feedback-sought-on-the-nih-wide-strategic-plan-framework-for-diversity-equity-inclusion-and-accessibility/>

Member News

Welcome to our New Members:

David Antonetti, University of Michigan
Lindsay Bischoff, Cincinnati Children's Hospital Medical Center
Karen Christman, UC San Diego
Vincenza Cifarelli, Saint Louis University School of Medicine
Terry Watnick, University of Maryland School of Medicine
Yao Yao, University of South Florida

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

Spotlight on Trainees

New NASEM Awards in Science Communication and Journalism

The Eric and Wendy Schmidt [Awards for Excellence in Science Communication](#) program aims to recognize and develop excellence in science communication and journalism by research scientists and by early career science journalists. Each year, 24 awards will be given to individuals who have produced original work that explores issues and advances in science, engineering, and/or medicine for the general public. The 12 awards for Best Science Communication by Research Scientists will be split into three categories based on career level: Graduate Students, Early Career Researchers (<5 years after Ph.D.), and Later Career Researchers. In each category, there will be one top award at \$40,000 and three awards of recognition at \$20,000 each. Submissions may be made March 1 – April 3, 2022; winners will be announced in fall 2022.

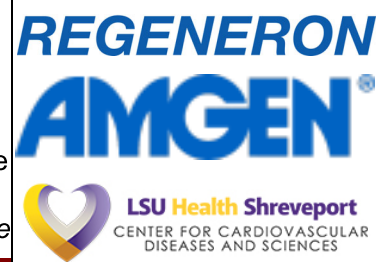
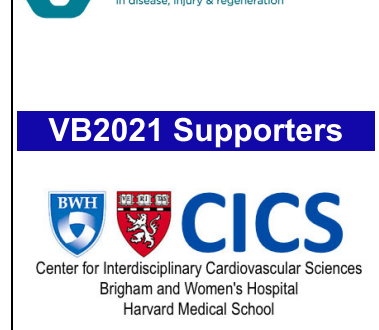
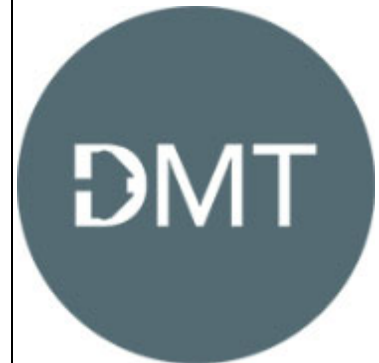
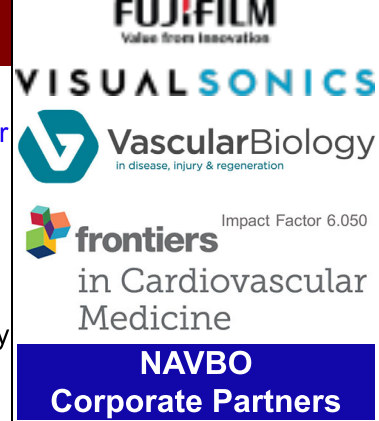
Originally published in our March 10 issue

Recent Member Publications

Pathogenic variants in MDFIC cause recessive central conducting lymphatic anomaly with lymphedema Science Translational Medicine

Defective lymphatic vessel valve development impairs lymphatic fluid flow and contributes to lymphatic malformations, lymphedema, and related lymphatic disorders. Here, Byrne et al. identified mutations in MDFIC associated with impairments in truncal collecting lymphatic vessels in individuals with central conducting lymphatic anomaly. [Read more](#)

Brown adipose TRX2 deficiency activates mtDNA-NLRP3 to impair thermogenesis and protect against diet-induced insulin resistance Journal of Clinical Investigation



Brown adipose tissue (BAT), a crucial heat-generating organ, regulate whole-body energy metabolism by mediating thermogenesis. BAT inflammation is implicated in the pathogenesis of mitochondrial dysfunction and impaired thermogenesis. [Read more](#)

Targeting Arginine in COVID-19-Induced Immunopathology and Vasculopathy Metabolites

Coronavirus disease 2019 (COVID-19) represents a major public health crisis that has caused the death of nearly six million people worldwide. Emerging data have identified a deficiency of circulating arginine in patients with COVID-19. Arginine is a semi-essential amino acid that serves as key regulator of immune and vascular cell function. [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

National Academies Endorse Reinstatement of Presidential Bioethics Commission

Presidents of the National Academies of Science and Medicine, on behalf of a working group of experts in medicine, bioethics, and law, have expressed [support for reinstatement](#) of a presidential advisory commission to help inform and guide policy decisions that have bioethical implications. Such commissions for decades had helped steer government policy affecting the U.S. population, but a group so charged was not been appointed after 2017. [Advisory documents](#) sent to the Biden administration by NAS President McNutt and NAM President Dzau identified existing and emerging topics for which a presidential bioethics commission could provide analysis, advice, and public consensus building.

Long-term Cardiovascular Outcomes of COVID-19

[Xie and co-authors](#), writing in Nature Medicine, have explored the post-acute cardiovascular manifestations of COVID-19 using national healthcare databases from the US Department of Veterans Affairs. Analyzing cohorts of 153,760 individuals with COVID-19 and two sets of control cohorts totaling >10 million records, the investigators show that individuals with COVID-19 are at increased risk of cardiovascular disease beyond 30 days after infection. Disorders of increased incidence were remarkably varied: cerebrovascular disease, dysrhythmias, ischemic and non-ischemic heart disease, pericarditis, myocarditis, heart failure and thromboembolic disease.

Masks off on Campus?

With COVID-19 case numbers, hospitalizations, and deaths dropping on multiple fronts, numerous states and their institutions of higher education have revealed intentions to forego mask mandates. [Inside Higher Ed](#) reports on factors that are playing out differently in various states, including the timing and ubiquity of the lifting of mandates. In some states, employers and school districts are left free to craft their own requirements; in others, colleges can no longer require face coverings. Mask requirements typically are remaining in place in certain campus settings, such as in medical facilities and on public transportation.

Originally published in our March 10 issue

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 faculty underrepresented in biomedical research.

Space is limited for the mentored program starting summer 2022. [Apply early!](#)

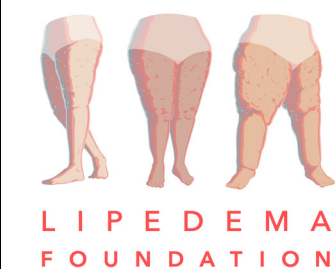
[Learn more . . .](#)



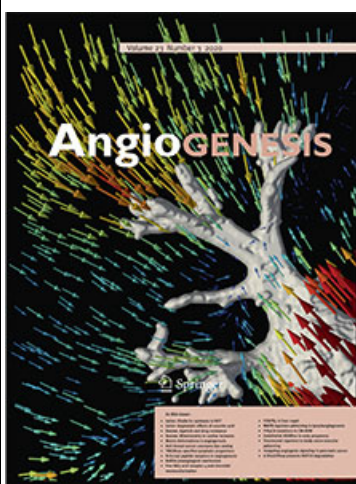
VB21 Guest Society



VB2021 Exhibitors



Affiliated Journals



Cardiovascular Pathology



More PRIDE Programs through NHLBI:

- [Cardiovascular Health-Related Research](#) (SUNY Downstate Health Sciences University)
- [Future Faculty of Cardiovascular Sciences](#) (UC San Diego)
- [Research in Implementation Science for Equity](#) (UC San Francisco)



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.

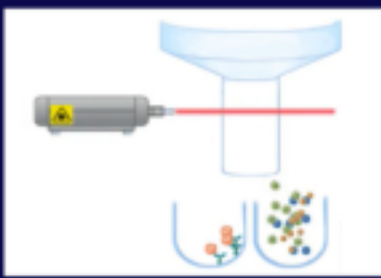
Applications for the 2022 program will be available on-line at www.chp.edu in early January 2022. Selected participants are notified in April. The 2022 program will commence in June and conclude at the end of July. Participants are expected to complete the 8-week program. Housing is provided.

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

[Learn more . . .](#)

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

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 6.684

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

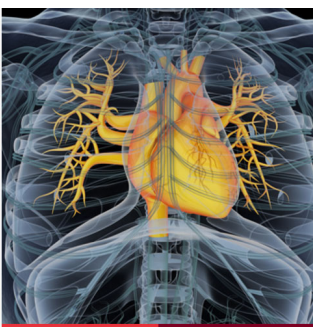
Deadline for manuscript: May 21, 2022

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

There is a new Research Topic titled ***Brain Arteriovenous Malformations: Cerebrovasculature Behaving Badly***, in the journal *Frontiers in Human Neuroscience*, organized by **Richard Daneman**, Marcus Stoodley and **Lori Shoemaker**.

Our goal is to highlight advances in AVM research from the laboratory to the clinic, and to suggest where gaps remain. We also intend to place AVMs in the context of neurovascular development and the complex interactions of cell types within the vasculature and the brain.

We invite high-level original research articles, novel models or imaging methods, focused reviews, hypotheses/theories, and insight/opinion articles. Please consider contributing an article to this topic – it will be a valuable resource for the field. All the details can be found at: <https://www.frontiersin.org/research-topics/30037/brain-arteriovenous-malformations-cerebrovasculature-behaving-badly>



frontiers | Frontiers in Physiology

Novel Adipose Regulation of Vascular Physiology and Cardiovascular Disease

Carolina Restini, Michigan State University, United States
Cameron G McCarthy, University of South Carolina, United States
Jessica Faulkner, Augusta University, United States

Topic Editors

Research Topic now open for submissions

Novel Adipose Regulation of Vascular Physiology and Cardiovascular Disease hosted by Drs. Carolina Restini (Michigan State University), Cameron G. McCarthy (University of South Carolina School of Medicine) and Jessica L. Faulkner (Medical College of Georgia at Augusta University).

It is well established that adipose tissue has profound influence on organ function via paracrine and endocrine signaling. Specifically, adipose tissue is able to express and secrete various bioactive molecules (e.g. adipokines). However, depending on the type of fat (brown or white), the organ, and the embryological origin, adipose tissues may diverge in the production/secretion of specific metabolites and how they subsequently affect organ function. Therefore, how adipose tissue contributes to homeostatic vascular physiology and the pathogenesis of cardiovascular disease is far-reaching, as are possible therapeutic targets. In this issue, we aim to bring together a collection of state-of-the-art articles that illustrates this potential and contributes significantly to combating the prevalence and incidence of cardiovascular disease by targeting adipose tissue depots.

Due: 31st March 2022

Submit your paper here: <https://www.frontiersin.org/research-topics/27566/novel-adipose-regulation-of-vascular-physiology-and-cardiovascular-disease>

Calendar of Events

March 24, 2022	InFocus - Vascular Diseases and Anomalies
March 29, 2022	Symposium: Organoids, Organs-on-Chips, and Vasculature
April 2 - 5, 2022	ASIP Annual Meeting at Experimental Biology 2022
April 7, 2022	Webinar Featuring Karen Christman
April 26, 2022	Symposium: Genetic and Epigenetic control of VSMC phenotype
May 5, 2022	Webinar Featuring Zhiyu Dai
May 9 -11, 2022	EMBO Workshop on Building Networks: Engineering in Vascular Biology
October 13-17, 2022	22nd International Vascular Biology Meeting

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



Job Postings

Job Title	Company	Location
Postdoc Fellow/Associate	Yale University	New Haven, CT
Postdoctoral Fellow in Immuno-Oncology/Vascular Biology Research	Johns Hopkins University	St. Petersburg, FL
Postdoctoral Opportunities	Harvard Medical School	Boston, MA
Postdoctoral position at Cincinnati Children's Hospital	Cincinnati Children's Hospital	Cincinnati, OH
Postdoctoral Researcher	University of Pennsylvania	Philadelphia, PA
Postdoctoral Fellowship Opportunities in Regenerative Medicine and Stem Cell Biology	University of Illinois College of Medicine	Chicago, IL
Assistant Professor of Pathology, Member UNC McAllister Heart Institute	University of North Carolina	Chapel Hill, NC
Assistant Professor (tenure-track) in Department of Molecular and Cellular Physiology	Albany Medical College	Albany, NY

North American Vascular Biology Organization

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20874
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