

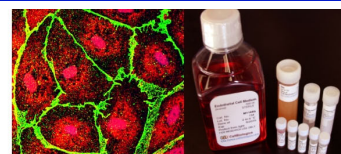


NewsBEAT

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2022 Awardees Announced



Earl P. Benditt Award

Joyce Bischoff has been named the 2022 Earl P. Benditt Awardee. Dr. Bischoff will present her lecture entitled, *Three Vignettes on Endothelial Plasticity, Vasculogenesis and Disruption*, at the 22nd International Vascular Biology Meeting on October 13. For more information about Dr. Bischoff and the Earl P. Benditt Award, [go to our web site.](#)



Judah Folkman Award

Stefania Nicoli is the 2022 Judah Folkman Award in Vascular Biology Recipient. Dr. Nicoli will present her lecture, *RNA based mechanisms guiding endothelial cell behaviors*, at IVBM 2022. For more information about Dr. Nicoli, click on the Folkman Award tab [on this page.](#)

If you would like to nominate a colleague for the 2023 Benditt or Folkman Awards, please go to <https://www.navbo.org/nominations/>

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->

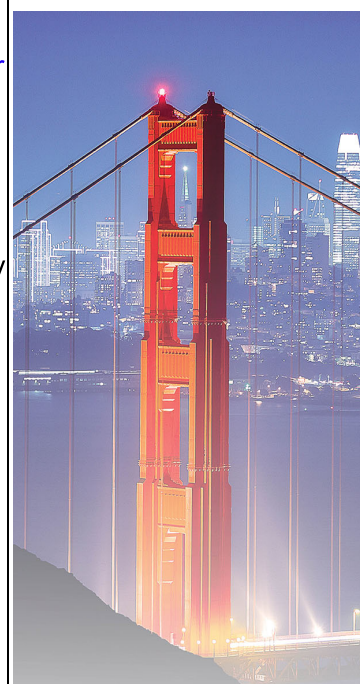
In this issue...

- 2022 Awards
- NIH Strategic DEIA Plan
- Call for Award Nominations
- Lab of the Month
- ASIP 2022 at EB
- New Terms and Conditions
- Member News
- Spotlight on Trainees
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- Summer Programs
- Call for Papers
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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](#))



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



Webinar Series



Corporate Partners

Call for Award Nominations

March 15 deadline!!



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.](#)

Lab of the Month

Principal Investigator



Dr. Claudia Rodrigues

Junior faculty



Dr. Jacqueline Machi



Dr. Janet Menzie-Sudaram

Postdoctoral Associate



Dr. Lara Mario

Graduate Students



Nikesh Katuwal



Nicole Jimenez

Lab of the Month - February 2022

The Lab of Dr. Claudia Rodrigues

This month we are highlighting the lab of Dr. Claudia Rodrigues, who is an Associate Professor at Florida Atlantic University. Find out more about Dr. Rodrigues' lab by visiting [her page](#) in our Lab of the Month listing.

NAVBO Session at ASIP 2022 at EB



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**.

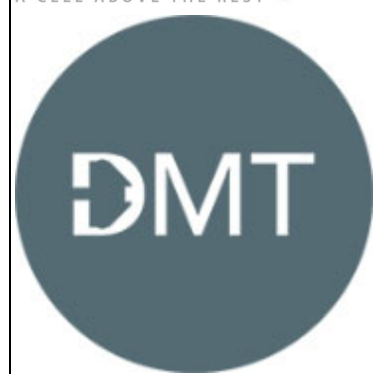
The 2022 ASIP Annual Meeting includes sessions communicating cutting edge science and translational research, commingled with educational, professional development, and diversity enhancement sessions that will appeal to trainees and junior and senior faculty. As a reflection of the research interests 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.](#)

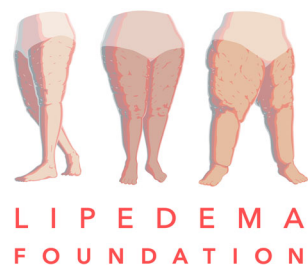
Early bird registration closes 2/28/22



Quantifying Cell Behavior



Corporate Members



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IVBM Exhibitors



VB2021 Supporters

NAVBO session at ASIP 2022:

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

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

Tuesday, April 5 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

NAVBO's Terms and Conditions

Update for Current NAVBO Members:

As you know, the NAVBO Council has approved Terms and Conditions, which we are asking all members to agree to follow. New members will agree to these terms when applying to NAVBO.

Existing members will be asked to agree to the Terms and Conditions the next time they log into the Member Portal (<https://members.navbo.org/MIC/login>)

We are confident that NAVBO members conduct themselves in accordance with these terms in their day to day lives, however, we want all members to see that NAVBO has taken the appropriate steps to deal with any situation that may cause discomfort to any member or anyone participating in a NAVBO activity.

These terms are accessible along with our Privacy Policy, our DEI Statement of Commitment and our meetings' Code of Conduct on this page of our web site: <https://www.navbo.org/policies>

Member News

NAVBO members author top-viewed articles in Angiogenesis journal

Members of NAVBO have earned top marks in the tabulation of 2021's most-viewed articles in *Angiogenesis*, published by Springer. Senior author Peter Carmeliet and his colleagues scored with their research paper "[Endothelial cell plasticity at the single-cell level](#)" while Anna Randi shared authorship of the highly-accessed review "[COVID-19 is a systemic vascular hemopathy: insight for mechanistic and clinical aspects.](#)" VB2020 speaker Jean-Phillipe Gerard's review on "[High endothelial venules \(HEVs\) in immunity, inflammation and cancer](#)" rounded out the top three. Kudos to these authors and our thanks to the publisher for its sponsorship of NAVBO's [Springer Junior investigator Award](#).

Welcome to our New Members:

Sara Gonzalez-Hernandez, National Institutes of Health

Xiaoran Guo, Stanford University

Udeshika Kariyawasam, Johns Hopkins School of Medicine

Abishai Dominic Louis Raj, Texas A&M University Health Science Center

Liming Yu, UT Southwestern Medical Center

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

Spotlight on Trainees

Sifting the paradoxical impacts of the COVID-19 pandemic on student well-being

Varadarajan and colleagues at Vanderbilt, [writing in the 9/16/21 issue of PLoSOne](#), explore the impacts of COVID-19-associated university closures and research interruptions on learning and sense of well-being of first year and senior biomedical sciences PhD students. Survey responses indicate that university closure affected negatively the overall psychological health of about one-third of student respondents, with perturbed time management associated with the highest stress for nearly half of the students. Forgone interaction with peers and loss of in-person discussions were missed most acutely during the remote learning interval. On the other hand, responding students also revealed positive associations with remote learning, such as increased time spent with family, on self-care, or for dissertation or manuscript writing. "It's an ill wind that blows nobody any good."

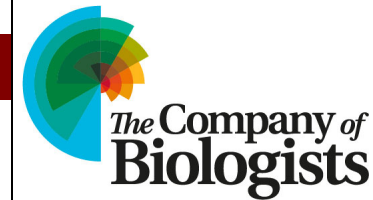
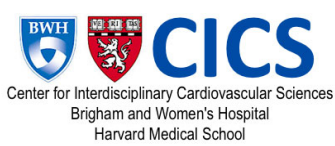
Originally published in our February 10 issue

Recent Member Publications

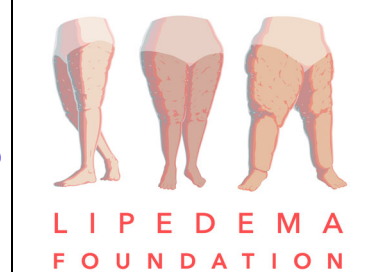
IL-1 β Impacts Vascular Integrity and Lymphatic Function in the Embryonic Omentum

Circulation Research

Background: The chromatin-remodeling enzyme BRG1 (brahma-related gene 1) regulates gene expression in a variety of rapidly differentiating cells during embryonic development. However, the



VB2021 Exhibitors



VB21 Guest Society



Affiliated Journals



critical genes that BRG1 regulates during lymphatic vascular development are unknown. [Read more](#)

Macrophage IL-1 β promotes arteriogenesis by autocrine STAT3- and NF- κ B-mediated transcription of pro-angiogenic VEGF-A

Cell Reports

Peripheral artery disease (PAD) leads to considerable morbidity, yet strategies for therapeutic angiogenesis fall short of being impactful. Inflammatory macrophage subsets play an important role in orchestrating post-developmental angiogenesis, but the underlying mechanisms are unclear. [Read more](#)

Diet-induced hypertension in rats is associated with increased renal vasoconstrictor response to angiotensin II after imitated endothelial dysfunction

Microvascular Research

The mechanisms behind development of diet-induced hypertension remain unclear. The kidneys play a paramount role in blood volume and blood pressure regulation. Increases in renal vascular resistance lead to increased mean arterial blood pressure (MAP) due to reduced glomerular filtration rate and Na⁺ excretion. [Read more](#)

Angioplasty induces epigenomic remodeling in injured arteries

Life Science Alliance

Neointimal hyperplasia/proliferation (IH) is the primary etiology of vascular stenosis. Epigenomic studies concerning IH have been largely confined to in vitro models, and IH-underlying epigenetic mechanisms remain poorly understood. This study integrates information from in vivo epigenomic mapping, conditional knockout, gene transfer and pharmacology in rodent models of IH. [Read more](#)

Methamphetamine enhances caveolar transport of therapeutic agents across the rodent blood-brain barrier

Cell Reports Medicine

The blood-brain barrier (BBB) restricts clinically relevant accumulation of many therapeutics in the CNS. Low-dose methamphetamine (METH) induces fluid-phase transcytosis across BBB endothelial cells in vitro and could be used to enhance CNS drug delivery. [Read more](#)

Exercise improves angiogenic function of circulating exosomes in type 2 diabetes: Role of exosomal SOD3

FASEB Journal

Exosomes, key mediators of cell-cell communication, derived from type 2 diabetes mellitus (T2DM) exhibit detrimental effects. Exercise improves endothelial function in part via the secretion of exosomes into circulation. [Read more](#)

Angiogenesis depends upon EPHB4-mediated export of collagen IV from vascular endothelial cells

JCI Insight

Capillary malformation-arteriovenous malformation (CM-AVM) is a blood vascular anomaly caused by inherited loss-of-function mutations in RASA1 or EPHB4 genes, which encode p120 Ras GTPase-activating protein (p120 RasGAP/RASA1) and Ephrin receptor B4 (EPHB4). [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

Neuromodulation prize competition accepting applications

The Science & PINS Prize for Neuromodulation is awarded for innovative research that selectively modifies neural activity through physical (electrical, magnetic, optical) stimulation of sites in the nervous system with implications for translational medicine. Established in 2016, the prize is awarded annually for outstanding research as described in a 1,500 word essay that provides an account of research performed within the past three years. The winner receives US\$25k and will have his or her essay published journal Science. The Grand Prize essay and that of the Runner-up are also published on Science Online. Deadline for [submitting applications](#) is March 15, 2022.

Early Career Women Faculty Leadership Development Seminar

Are you an Assistant Professor at an AAMC member school of medicine, with a minimum of two years of experience in your role? If so, make note of the [Early Career Women Faculty Leadership Development Seminar](#) to be held July 19-22, 2022, at the Hyatt Regency in Minneapolis. The seminar curriculum aims to equip participants with leadership knowledge and skills to enable participants to better prepare for advancement and promotion. This popular program has limited capacity and important changes to the application process will take effect during the 2022 application cycle. The application period opens in mid-February.

Originally published in our February 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 . . .](#)

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.

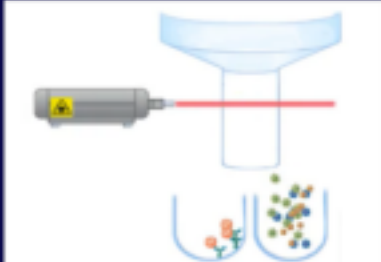
Applications for the 2022 program will be available on-line at www.chp.edu in early January 2022. Selected participants are notified in April. The 2022 program will commence in June and conclude at the end of July. Participants are expected to complete the 8-week program. Housing is provided.

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

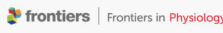
Deadline for manuscript: May 21, 2022

[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>




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

February 24, 2022	InFocus - Vascular Aging
March 3, 2022	Webinar Featuring Paolo Madeddu
March 18-19, 2022	4th Annual Gulf Coast Vascular Research Consortium
April 2 - 5, 2022	ASIP Annual Meeting at Experimental Biology 2022
October 13-17, 2022	22nd International Vascular Biology Meeting
October 24 - 27, 2022	Critical Issues in Tumor Microenvironment: Angiogenesis, Metastasis and Immunology

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



Job Postings

Job Title	Company	Location
Postdoctoral Fellow – Cardiovascular Biology	University of Pittsburgh	Pittsburgh, PA
Postdoctoral Opportunities	Harvard Medical School	Boston, MA
Postdoctoral Fellows	University of Michigan	Ann Arbor, MI
Postdoctoral Researcher	University of Pennsylvania	Philadelphia, PA
Research Fellow position from National University of Singapore	National University of Singapore	Central Singapore, Singapore
Postdoctoral Research Fellowship in Tissue Engineering: Harvard Medical School	Beth Israel Deaconess Medical Center	Boston, MA
Postdoctoral Research Fellowship in Cancer-Associated Thrombosis: Harvard Medical School	Beth Israel Deaconess Medical Center	Boston, MA
Postdoctoral Research in Tampa Bay, Florida	University of South Florida Morsani College of Medicine	Tampa, FL
Postdoctoral Fellowship Opportunities in Regenerative Medicine and Stem Cell Biology	University of Illinois College of Medicine	Chicago, IL

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