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Announcing the NAVBO Podcast!

VASCULAR CROSSTALK



BY NAVBO

Members of NAVBO's Education Committee: **Lisandra Vila Ellis**, MD Anderson Cancer Center; **Stryder Meadows**, Tulane University; and **Neha Ahuja**, University of Texas Southwestern, have initiated a new podcast series, **Vascular Crosstalk**, featuring a variety of NAVBO members. Beginning on January 16, 2023, you can enjoy Lisandra's monthly interviews featuring conversations with established PIs, as well as roundtables about different topics of interest to our NAVBO community. You can access our monthly episodes on your preferred

podcast platform. **Add Vascular Crosstalk to your podcast library!**

Our first episode will feature **Hasina Outtz Reed** of Weill Cornell Medicine. Dr. Outtz Reed is an Assistant Professor of Medicine and a physician-scientist who is trained in Pulmonary and Critical Care Medicine as well as Cellular and Molecular Biology. She is a Co-Chair of the NAVBO Online Program Committee. Be sure to tune in on January 16!



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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](#))



Did you know?

You can connect with fellow NAVBO members through the **Vascular Network Community**

Respond to emails that you receive through the NAVBO Vascular Network or visit the site and post questions, comments and start conversations. The NAVBO Mentoring Program is within the Community site, **so visit today!**

Call for Award Nominations



Nominations are now being accepted for these awards through March 15, 2023.

As you know, the Stephen M. Schwartz Award recognizes an outstanding mentor, characterized by our 2021 and 2022 recipients, **Brant Weinstein** of NICHD/NIH and **Richard Hynes** of MIT. This is a great opportunity to recognize your mentor!

Our newest award, the Florence Sabin Award, recognizes an individual, like Dr. Sabin, who has championed an underrepresented group. Candidates, such as the 2022 recipient, **Lola Eniola-Adefeso** of the University of Michigan, 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.](#)

Thank You!!!

IVBM 2022 Supporters

We gratefully acknowledge the support of the following societies, academic centers and corporations.

Grant

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GIVING TUESDAY



Thank you so much to the NAVBO members that donated to our Giving Tuesday Campaign: **Hong Chen** (Harvard Medical School/Boston Children's Hospital), **David Dichek** (University of Washington), **Nicholas Gale** (Regeneron Pharmaceuticals), **Siqi Gao** (Oklahoma Medical Research Foundation), **Michael Gimbrone** (Harvard Medical School/Brigham & Women's Hospital), **Courtney Griffin** (Oklahoma Medical Research Foundation), **William Muller** (Northwestern University Feinberg School of Medicine) and **Hiromi Yanagisawa** (University of Tsukuba). With their contributions and those from other anonymous donors we raised \$3,550 which will be used to support our ongoing educational activities including our webinars, journal clubs, career development forums and videos for high school students, as well as the new Vascular Crosstalk podcast.

You can donate to NAVBO at any time. The society is designated as a charitable organization by the IRS and your donation is therefore tax deductible. Just send a check to NAVBO - 18501 Kingsill Road, Germantown, MD 20874 USA. Thank you!

Committee Recruitment



NAVBO is currently recruiting members for its Online Program, Communications and Communities Committees. These committees offer their members the opportunity to engage with fellow NAVBO members in exciting ways.

Online Program Committee - is responsible for organizing and presenting InFocus Sessions (twice a month) and Symposia (once a month). The committee is comprised of three teams (two for InFocus Sessions and one for the symposium). Team members take turns being the lead organizer on a project with assistance from their team's other members. Those organizing the sessions can expect to spend an average of 7 hours in a month; members assisting the organizer, about 3 hours.

The Online Program Committee is seeking postdocs and graduate students in at least their third year.

Communities Committee - is responsible for triggering and maintaining engagement on the [NAVBO Vascular Network](#), our online community. Currently this committee is spurring new conversations within the NAVBO community. Our goal is to engage members and grow participation within the community so that members will initiate conversations. Our immediate goal is to make the NAVBO members aware of this important tool, which provides the opportunity to tap into NAVBO's greatest resource, its members.

The Communities Committee is seeking any NAVBO member interested in engaging with the society and their fellow members.

Communications Committee – is responsible for our broad communications to the public. This includes our newsletter, web site and social media platforms. We are also currently working on NAVBO's Wikipedia page. If you are active on Twitter, Facebook, etc. consider joining this team.

The Communications Committee is seeking NAVBO members at any stage in their career who are interested in promoting NAVBO and its activities.

Feel free to [apply](#) to more than one committee if you are interested.

Lessons Learned

Dr. Yanbo Fan

My name is Yanbo Fan. I have been an Assistant Professor of Cancer Cell Biology and Cardiovascular Health and Disease at the University of Cincinnati College of Medicine since Oct 2019. Although I have learned a lot from my mentor, effective management of the lab, including recruitment, budgeting, project

Diamond Level



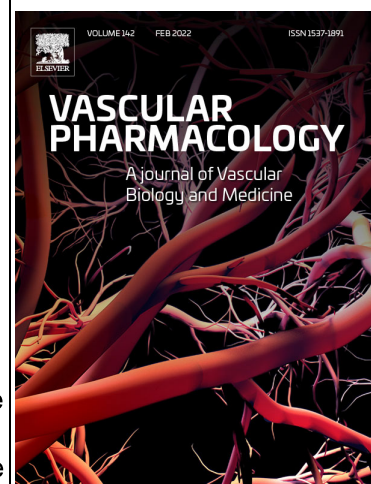
Gold Level Partner



Strategic Partners

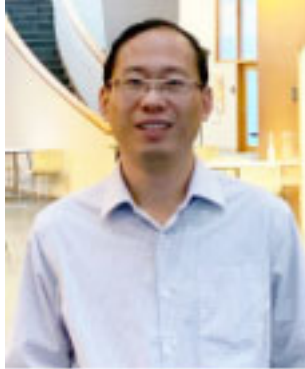


Event Partners



Contributors



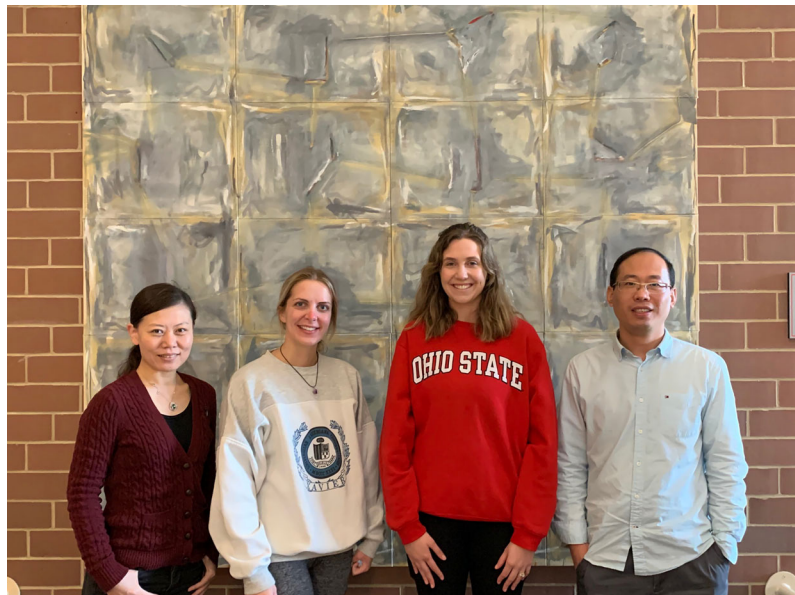


progress, animal protocol, manuscript writing, and grant preparation, still needs to be learned as a PI. I am grateful for the support from my mentors, colleagues, and administrators.

Recruitment is a critical factor for a new lab. The increased cost of lab expenses but limited funding would be significant issues for many new PIs who have to deal with it. When recruiting lab members, motivation is as important as the previous research experience of the researcher. The passions and dedication of a researcher create more possibilities and lead to success. Supervising the postdoc fellows and graduate students promptly and regularly could help resolve problems and facilitate the project's progress. As a PI, I learned how to assign tasks/projects to the appropriate lab members according to their experience and skills and set reasonable expectations. It is noteworthy that maintaining the lab in a positive and aspiring environment can facilitate interactions among lab members.

[Read more from Dr. Fan here.](#)

Lab of the Month



Lab of the Month - January 2023

The Lab of Dr. Yanbo Fan

This month we are highlighting the lab of Dr. Yanbo Fan, Assistant Professor at University of Cincinnati College of Medicine. Find out more about his lab by visiting [his page](#) in our Lab of the Month listing.

Lymphatic Forum 2023

EXPLORING THE LYMPHATIC CONTINUUM LYMPHATIC FORUM 2023

The Banff Center - June 13-17, 2023

The Lymphatic Forum 2023 (LF2023) is the fifth iteration of this biennial event that brings together researchers from around the world to present and discuss studies of lymphatics in health and disease. This year's event will address the significant role and functions of the lymphatic system in the various organs of the human body.

The program revolves around the general theme: The Lymphatic System in Health and Disease – Role of the lymphatics in organ-specific functions and dysfunctions and incorporates general sessions where the lymphatic system will be discussed across organs (Development, Function & Drainage, Cancer & Metastasis, Immunity & Infection) and concurrent sessions where the role of the lymphatics will be addressed in the context of specific organs or tissues (Skin, Lung & Airway, Heart & Vasculature, Liver & Kidney, GI Tract, Brain). Each session will include presentations by invited speakers and short presentations selected from abstracts. For more information and the full program, visit the web site: <http://lymphaticforum.org>

[Register for the meeting here](#)
Early bird deadline is April 10, 2023

[Submit your abstract here](#)
Deadline is March 15, 2023

Member News

Welcome to our New Members:

Kristyn Carter, Yale University
Emily Clifford, Medical College of Wisconsin
Katherine Hamm, Medical College of Wisconsin
Derek Sung, University of Pennsylvania
Benjamin Thomson, Northwestern University Feinberg School of Medicine

Kudos to NAVBO President **Chris Hughes**, University of California Irvine, who is featured in a recent [interview](#) in "On

Participating Societies

Partners



American Society for Investigative Pathology



EUROPEAN VASCULAR BIOLOGY ORGANISATION



The Japanese Vascular Biology and Medicine Organization



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Guests



British Microcirculation & Vascular Biology Society



the Cutting Edge” published by Cure HHT. Dr. Hughes serves on Cure HHT’s North American Scientific and Medical Advisory Council and as Director of Cure HHT Basic and Translational Science Research. In the interview, Chris shares the history of his involvement in HHT research, recent discoveries of interest, and his hopes for the future of HHT therapies.



Thanks to diligent Open Forum contributor **Leah Greenspan** and NAVBO's vigilant Sharon Smolen, we have learned that a gorgeous zebrafish image by David Castranova in **Brant Weinstein's** lab has not only earned 2020 Nikon Small World Photomicrography [top honors](#) but also is in line for inclusion on an upcoming "Life Magnified" stamp from the US Postal Service. Let's get small!

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

Spotlight on Trainees

Relief for student loan debt still a prospect?

The Biden administration's plan advanced in August 2022 proposed loan forgiveness between \$10,000 and \$20,000 of federal student loan debt for borrowers making less than \$125,000 per year. While the plan has encountered serious legal and political challenges, the White House and US Department of Education [remain committed to its implementation](#). Indications are that these qualifications would include relief of federal loans in support of [graduate education](#) as well as undergraduate. Stay tuned!

Recent Member Publications

Cancer immunotherapies transition endothelial cells into HEVs that generate TCF1+ T lymphocyte niches through a feed-forward loop

Cancer Cell

The lack of T cell infiltrates is a major obstacle to effective immunotherapy in cancer. Conversely, the formation of tumor-associated tertiary-lymphoid-like structures (TA-TLLSs), which are the local site of humoral and cellular immune responses against cancers, is associated with good prognosis, and they have recently been detected in immune checkpoint blockade (ICB)-responding patients. [Read more](#)

Elevated vascular transformation blood biomarkers in Long-COVID indicate angiogenesis as a key pathophysiological mechanism

Molecular Medicine

Long-COVID is characterized by prolonged, diffuse symptoms months after acute COVID-19. Accurate diagnosis and targeted therapies for Long-COVID are lacking. We investigated vascular transformation biomarkers in Long-COVID patients. [Read more](#)

COVID-19 plasma proteome reveals novel temporal and cell-specific signatures for disease severity and high-precision disease management

Journal of Cellular and Molecular Medicine

Coronavirus disease 2019 (COVID-19) is a systemic inflammatory condition with high mortality that may benefit from personalized medicine and high-precision approaches. COVID-19 patient plasma was analysed with targeted proteomics of 1161 proteins. Patients were monitored from Days 1 to 10 of their intensive care unit (ICU) stay. [Read more](#)

Novel plasma protein biomarkers from critically ill sepsis patients management

Clinical Proteomics

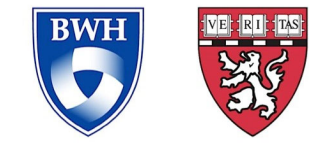
Despite the high morbidity and mortality associated with sepsis, the relationship between the plasma proteome and clinical outcome is poorly understood. In this study, we used targeted plasma proteomics to identify novel biomarkers of sepsis in critically ill patients. [Read more](#)

Proprotein Convertase Subtilisin/Kexin 9 (PCSK9) Promotes Macrophage Activation via LDL Receptor-Independent Mechanisms

Circulation Research



Academic
Summa Cum Laude



BRIGHAM AND WOMEN'S
HOSPITAL
CARDIOVASCULAR MEDICINE

UIC UNIVERSITY OF ILLINOIS
COLLEGE OF MEDICINE

Magna Cum Laude

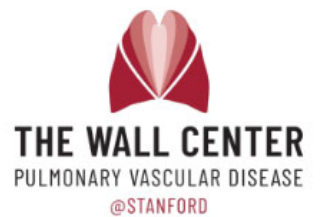
Northwestern Medicine
Feinberg School of Medicine



Cum Laude



UCSF



Contributors



WRI Wihuri Research Institute



Exhibitors



Activated macrophages contribute to the pathogenesis of vascular disease. Vein graft failure is a major clinical problem with limited therapeutic options. PCSK9 (proprotein convertase subtilisin/kexin 9) increases low-density lipoprotein (LDL)-cholesterol levels via LDL receptor (LDLR) degradation. [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

Distinguishing fact from fiction

Cabell's, an analytics company that seeks to "...provide academics with accurate information and reputable outlets for publication," has released *The Predator Effect: Understanding the Past, Present and Future of Deceptive Academic Journals* by Simon Linacre. [Available for download](#), Linacre's book reviews the history of scientific publication in academic journals and explores the mixed blessings imparted by the advent of digital communications and Open-Access. Is it the case that "...we are losing the arms race when it comes to research integrity and publishing ethics," or can the next wave of digital advances work to restore, rather than further undermine, the public's trust in academic research?

Comments sought on NIH peer review revisions

In December 2022, the NIH issued an RFI (NOT-OD-23-034) on its "Proposed [Simplified Review Framework](#) for NIH Research Project Grant Applications." The draft framework, which seeks to allow peer reviewers to refocus on judging scientific merit in a manner less subject to bias, will reorganize five major regulatory criteria under three scored categories (Importance; Feasibility and Rigor; Expertise and Resources) and reduce the number of non-score driving review considerations that reviewers evaluate. Comments on the proposed revisions must be [submitted](#) by March 10, 2023, to ensure consideration.

Plumbing big data for indications of statin risks and benefits

As described by Linda Searing in [The Washington Post](#), an international team of researchers [reports in the journal Neurology](#) that current use of statin drugs was associated with reduced risk of intracerebral hemorrhage at either lobar or non-lobar sites. The study took advantage of linked nationwide registries in Denmark that enabled investigators not only to identify patients with verified, site-determined ICH diagnoses but also match them by age, sex, and calendar year to general population (non-ICH) controls. A nationwide prescription registry then was queried to learn prior statin use timing and dosage.

Summer Program

10 weeks of hands-on experience in cardiovascular research within our laboratories, professional skill-building, and seminars focused on STEM careers, how to apply to medical school and other allied health programs, and how to navigate graduate and medical school.





Apply Now:
Deadline: February 1, 2023
Complete an MCW SPUR (yes, SPUR) application, selecting "cardiovascular research" within the application



Eligibility:
-from under-represented ethnic/racial group &/or LGBTQ+
-U.S. Citizen or Permanent Resident
-undergraduate (rising sophomore, junior, senior)
-have expressed interest in biomedical research/healthcare
-available for full-time, in-person commitment on MCW's Milwaukee campus from May 31 - Aug 4, 2023
-for more information: www.mcw.edu/SURE

Benefits:
-\$6,000 stipend
-free lodging on nearby campus housing if not locally-based
-gain experience for a career in STEM!

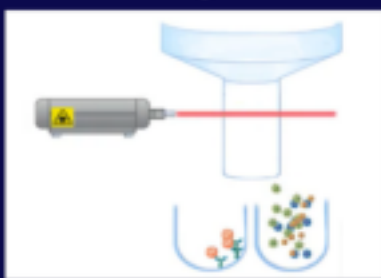
Questions: CVC@mcw.edu


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Summer Program at the Medical College of Wisconsin (click on the image for more info)

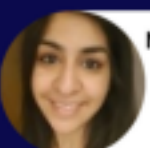
Call for Papers/Proposals

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

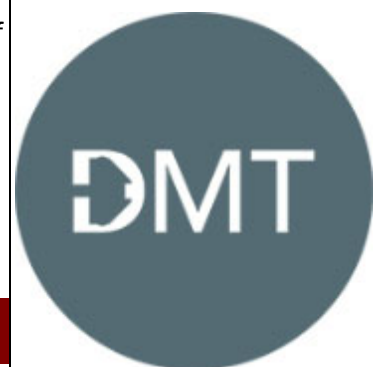
Are you using leading-edge techniques to profile endothelial cells at single-cell resolution? Consider submitting your work to a new JoVE collection guest-edited by NAVBO members, **Dr Zhen Bouman Chen** (2020 Springer Junior Investigator Award winner) and **Dr. Naseeb Malhi** at City of Hope! For more information or to submit an abstract, please email zhenchen@coh.org or [follow this link](#).



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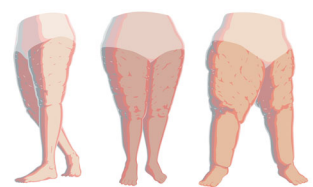
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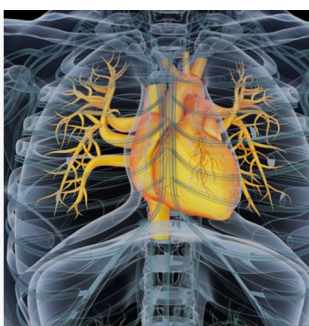


Affiliated Journals

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

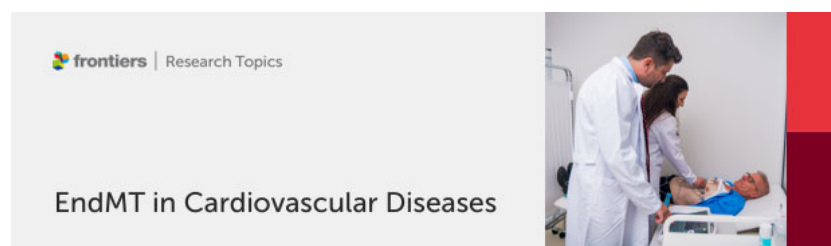


Cardiovascular Pathology

frontiers Impact Factor 6.050
in Cardiovascular
Medicine

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. [Submit your paper here](#)



“EndMT in Cardiovascular Diseases” hosted by Drs. Mabruka Alfaidi (LSU Health Shreveport, USA), J. Geoffrey Pickering (Western University London, Canada) and Paul Evans (University of Sheffield, UK).

Endothelial-to-mesenchymal transition (EndMT) is characterized by multiple morphological and physiological changes, including loss of endothelial cell polarity, disruption of intercellular junctions, migration, altered extracellular matrix secretion, and increased proliferation. EndMT is a fundamental process during early development, however, it has been identified in a multitude of cardiovascular disease processes such as progressive atherosclerotic plaques, valvular heart disease, myocardial infarction, pulmonary hypertension, and cardiac fibrosis and remodeling in heart failure. EndMT entails a spectrum of cell phenotypic changes in which endothelial cells (ECs) downregulate their adhesion junction molecules (e.g. CD31, VECAD) and upregulate contractile and invasive markers (e.g. SMA, nCAD, CNN1). During development and in the process of transition, ECs delaminate from an organized cell layer and invade the underlying tissue. However, there is less understanding of these processes in the post-development stages, especially during the pathogenesis of cardiovascular diseases. [Submit your paper here](#)

Manuscript Submission Deadline: January 4, 2023



International Journal of
Molecular Sciences
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Angiogenic and Pathological Performance
of Vascular Endothelial Cells

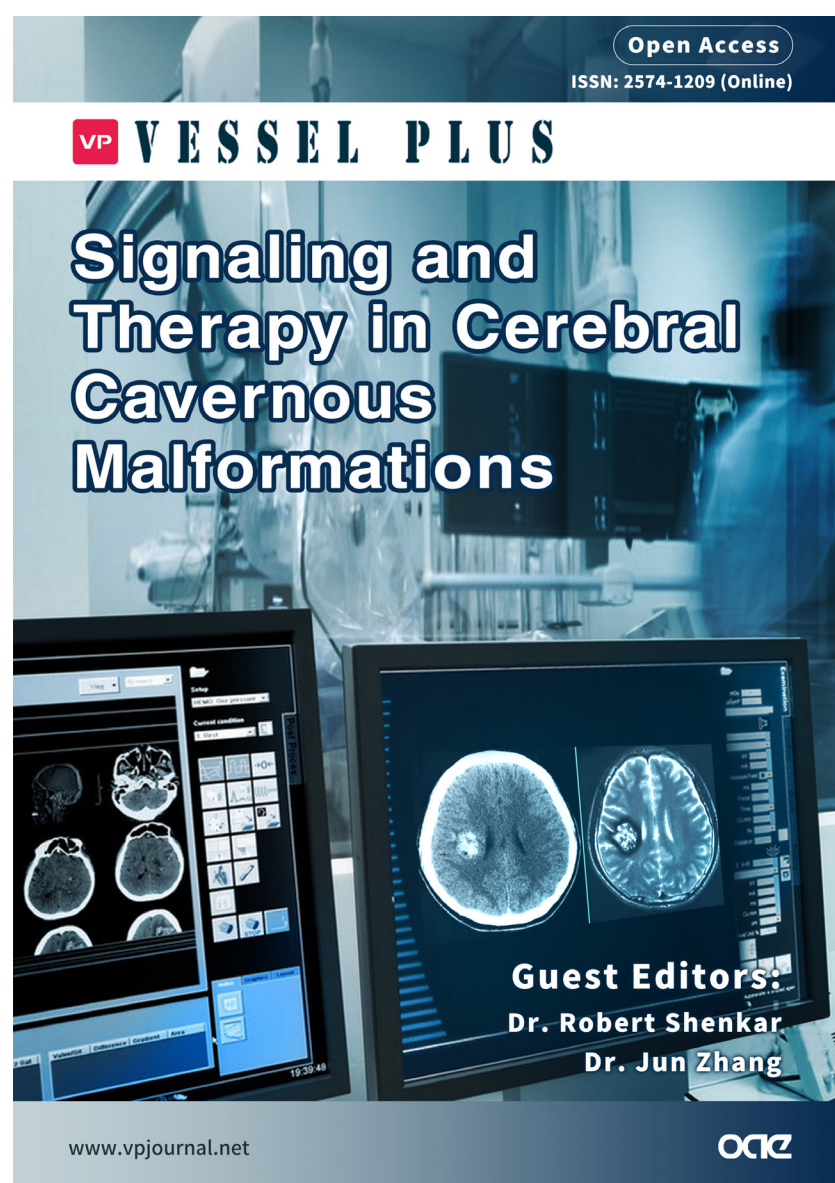
Guest Editors
Dr. Jun Zhang, Prof. Dr. Daniele Rigamonti, Dr. Mary C. Wallingford

Deadline
24 April 2023

Special Issue

mdpi.com/si/135975 Invitation to submit

Special Issue **“Angiogenic and Pathological Performance of Vascular Endothelial Cells”** co-edited by our NAVBO members, *Dr. Jun Zhang (TTUHSC) and Dr. Mary C. Wallingford (Tufts)*. Soliciting contributions from experts from NAVBO community in the vascular endothelial cell (EC) research field. This issue will focus on the angiogenic and pathological performance of vascular/microvascular ECs, covering activation, proliferation, migration, invasion, tube formation, the clonal expansion of ECs and cell junctions, maintenance and the malformations of vasculatures and the blood–brain barrier (BBB). Papers will be




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VP VESSEL PLUS

Signaling and Therapy in Cerebral Cavernous Malformations

Guest Editors:
Dr. Robert Shenkar
Dr. Jun Zhang

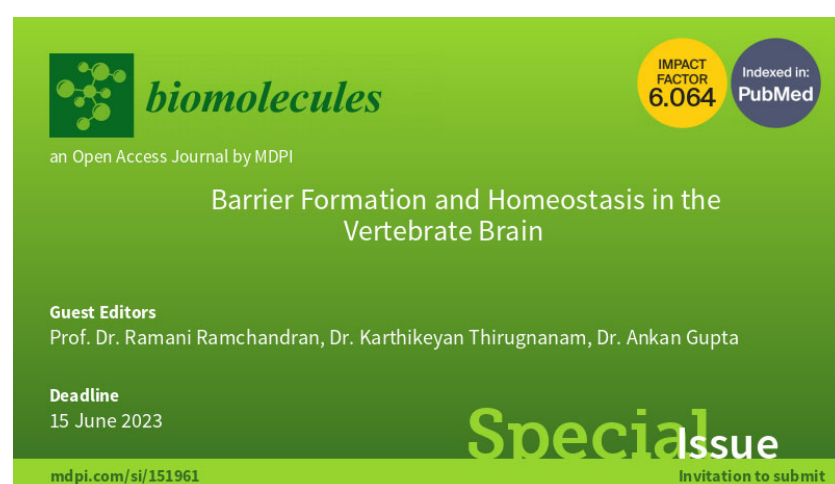
www.vpjournal.net 


Special issue title: **Signaling and Therapy in Cerebral Cavernous Malformations**

Introduction: Cerebral cavernous malformations (CCMs) are ectatic capillary-venous malformations that develop in approximately 0.5% of the population. These malformations, which can vary in size from 2 millimeters to several centimeters in diameter, may be hereditary but most often occur on their own. As opposed to other kinds of hemangiomas, CCM vessels, which have the appearance of a small mulberry, develop and create problems in the brain or spinal cord. Patients with CCMs may develop headaches, focal neurologic deficits, seizures, and hemorrhages. In this special issue, we aim to report latest advances of CCMs.

[Submit your paper here](#)

Submission Deadline: March 31, 2023



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Barrier Formation and Homeostasis in the Vertebrate Brain

Guest Editors
Prof. Dr. Ramani Ramchandran, Dr. Karthikeyan Thirugnanam, Dr. Ankan Gupta

Deadline
15 June 2023

Special Issue
Invitation to submit

[mdpi.com/si/151961](https://www.mdpi.com/si/151961)

Barrier Formation and Homeostasis in the Vertebrate Brain

In this Special Edition, the guest editors, including **Ramani Ramchandran, Medical College of Wisconsin**, invite you to submit articles that study the various barriers associated with child and adult brains, such as the blood–brain barrier, blood–retinal barrier, blood–lymph barrier and the blood–cerebrospinal fluid barrier. Studies focused on cell–cell interactions and the mechanisms underlying barrier formation or disruption are welcome. Approaches utilizing 3D microfluidic-based primary cell culture model systems, organoids, induced pluripotent stem cells, zebrafish, rodent model systems and human brain tissue are welcome. Computational modelling studies that mimic and provide novel hypotheses in barrier formation will also be considered. In general, we are interested in a multi-faceted innovative approach to barrier formation in vertebrates, and its role in disease. Endothelial barrier formation in tissues outside the brain will also be considered on a case-by-case basis. Original articles, reviews, hypotheses, and perspectives are welcome. Studies must be focused on basic science using in vitro, in vivo, and pre-clinical models. Manuscripts with exclusive clinical studies will not be considered.

<https://www.mdpi.com/si/151961>

Deadline for manuscript submission is June 15, 2023.

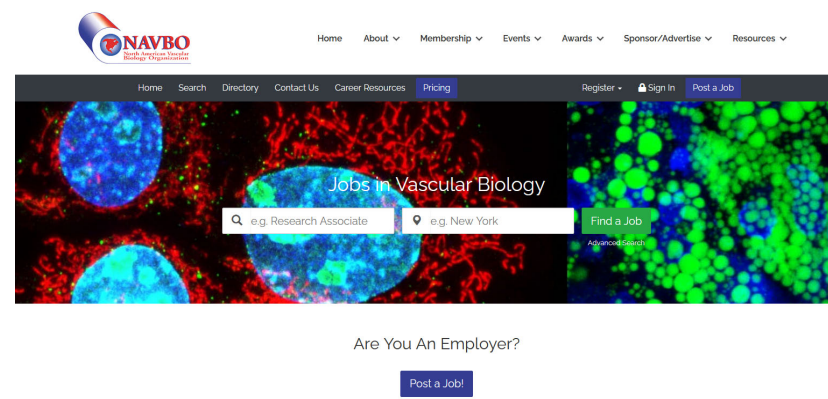
Calendar of Events

January 15 - 20, 2023	Vascular Complexity, Heterogeneity, and Metabolism in Health and Disease
Jan. 17, 2023	Symposium: Clonal Hematopoiesis of Indeterminate Potential in Cardiovascular Disease
January 19, 2023	Journal Club - January 2023
January 26, 2023	InFocus - Endothelial Flow Sensing
Jan. 31 - Feb. 3, 2023	VAC 2023
Feb. 2, 2023	Webinar with Dr. Delphine Gomez, Springer Award Recipient
February 2023	FASB Short Course - Center for Complex Biological Systems
June 13 - 17, 2023	Lymphatic Forum 2023
August 6 - 11, 2023	Gordon Research Conferences 2023 in Biomechanics on Vascular Biology and Disease

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

Job Postings

Job Title	Company	Location
Yale University School of Medicine	Weill Cornell Medical College	New Haven, CT
Postdoctoral Researcher in Cell & Developmental Biology	University of Virginia	Charlottesville, VA
Post-doctoral and/or Staff Specialist positions in vascular biology	UCSF	San Francisco, CA
Postdoctoral Research Associate	The University of Illinois at Chicago	Chicago, IL
Postdoc - Yale University - Vascular or Lung Biology	Yale University School of Medicine	New Haven, CT



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