



NewsBEAT

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Giving Tuesday



Please Support NAVBO

Yes, Giving Tuesday has passed, but you can make a contribution to NAVBO on Thursday, Friday, or any day of the week! Please consider NAVBO in your end of the year giving. All proceeds from this campaign will be used to support our educational activities including webinars, journal clubs, career development forums, [our mentoring program](#), other resources such as the listing of [Training Programs](#), [Vasculata](#) and our video series for high school students.

NAVBO is a 501(c) 3 charitable organization as designated by the IRS. If you live in the US, your donation to NAVBO is tax deductible. Please consider donating today!

[Click here to contribute!](#)

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You can help contribute to NAVBO by shopping through Amazon Smile and designating NAVBO as your charitable organization. NAVBO will receive .5% of the value of your purchase.

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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 Newest Member:
Nunzia Caporarello, Mayo Clinic

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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!](#)

Spotlight on Trainees

NPA plans workshop on public policy and advocacy

The National Postdoctoral Association offers SmartSkills, a monthly series of virtual courses for postdocs that are free to [members of the NPA](#). Upcoming on December 13, 2022, is "Advocacy," a venue for trainees to learn to engage in improve the policy and legislative landscape surrounding the research community. Participants will become acquainted with advocacy tactics, effective communication, and the application of their scientific research know-how to advocacy activities. Attendees will also discover opportunities to participate in policy and advocacy initiatives during their postdoctoral training and potential paths to careers in government relations. The session will be led by FASEB's Yvette Seger, Director of Science Policy, and Jennifer Zeitzer, Director of the Office of Public Affairs.

Recent Member Publications

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

New book explores history of biotech's impact on rare diseases

Cold Spring Harbor Laboratory Press has published [Inside the Orphan Drug Revolution: The Promise of Patient-Centered Biotechnology](#) by biotech executive and consultant James Geraghty. The book focuses on the class of diseases, many genetic in origin, that each afflict only a small number of people. Development of therapies for these rare diseases is typically a lower priority for big pharma, owing to the small potential market and high cost of bringing drugs to market. Passage of the U.S. Orphan Drug Act in 1983, coupled with the emergence in the early 1980s of biotechnology companies like Genentech, Amgen, and Biogen, transformed the industry and made possible novel approaches to the treatment of overlooked diseases.

Microbiome Prize entries invited

Submission of entries for the [NOSTER & Science Microbiome Prize](#) is now open. This award recognizes innovative research by investigators who received their M.D., Ph.D, or M.D/Ph.D. in the last ten years and are working on the functional attributes of the microbiota. The research can include any organism that has potential to contribute to our understanding of human or veterinary health and disease, or to guide therapeutic interventions. The top prize includes a cash award and publication of the winning essay published in Science. [Previous winning entries](#) have included studies on the relationship between cardiovascular disease and infectious gastroenteritis. Deadline for entry is 24 January 2023.

Calibration of alternative methods in biomedical research

A working group associated with the NIH's Advisory Committee to the Director has shared progress on their assessment of [alternative methods to advance biomedical research](#). The ACD is tasked with making recommendations to senior HHS officials concerning program development, resource allocation, NIH administrative regulation, and other specific or general aspects of NIH policy. The alternative methods project is examining advances in methodologies (in chemico, in silico, in vitro) that are complementary to, and not by intention replacements for, research using animal models. The group expects to present its final report with recommendations to the ACD by December 2023.

CSR's Early Career Reviewers

The Center for Scientific Review (CSR) at the National Institutes of Health invites early career scientists to join our Early Career Reviewer program. Participants gain first-hand NIH grant review experience which can be helpful in preparing their own grants.

In brief, the program is open to those who:

- Have at least 1 year of independent research experience (assistant professors and similar roles; associate professors are not eligible and post-docs are not eligible)
- Have not held an R01 or equivalent
- Have at least one senior-authored publication (first, last, or corresponding) since earning a Ph.D. or M.D. and at least one in the last 2 years
- Have submitted an NIH grant application and received the summary statement

Details and the application can be found here:

<https://public.csr.nih.gov/ForReviewers/BecomeARewriter/ECR>

Questions are welcome – CSRearlycareerreviewer@mail.nih.gov

Summer Programs



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



IVBM 2022 Supporters

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

Grant



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Strategic Partners



Event Partners





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!

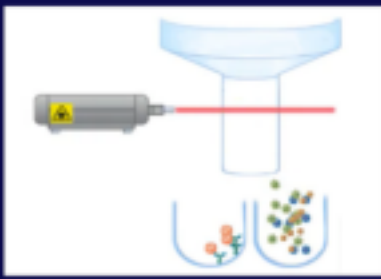
[Learn more . . .](#)


More PRIDE Programs:

- [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)

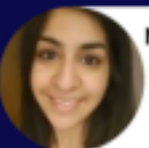
Call for Papers/Proposals

Emerging Methods in Profiling Endothelial Cells at Single-Cell Resolution





Zhen B. Chen
City of Hope,
Department of Diabetes
Complications and
Metabolism



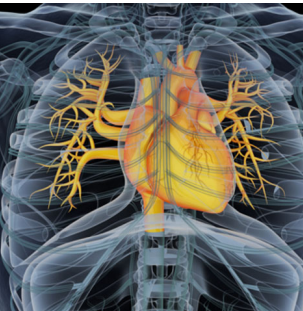
Naseeb Kaur Malhi
City of Hope,
Department of Diabetes
Complications and
Metabolism

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](#).

frontiers | Frontiers in Physiology

Novel Adipose Regulation of Vascular Physiology and Cardiovascular Disease



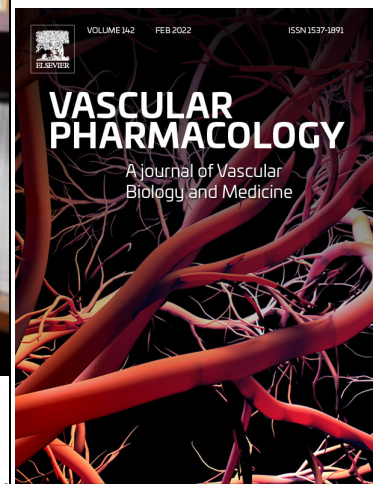
Carolina Restini, Michigan State University, United States
Cameron G McCarthy, University of South Carolina, United States
Jessica Faulkner, Augusta University, United States

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



Contributors

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The Japanese Vascular Biology and
Medicine Organization



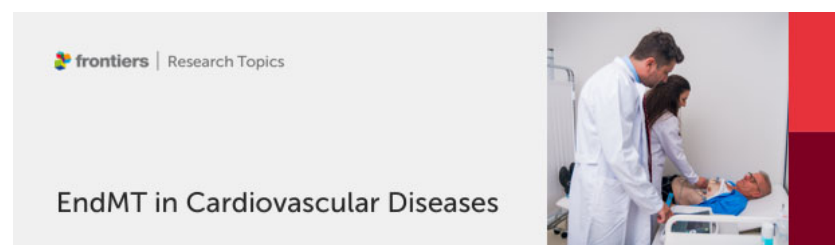
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AUSTRALIAN VASCULAR
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the prevalence and incidence of cardiovascular disease by targeting adipose tissue depots.

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

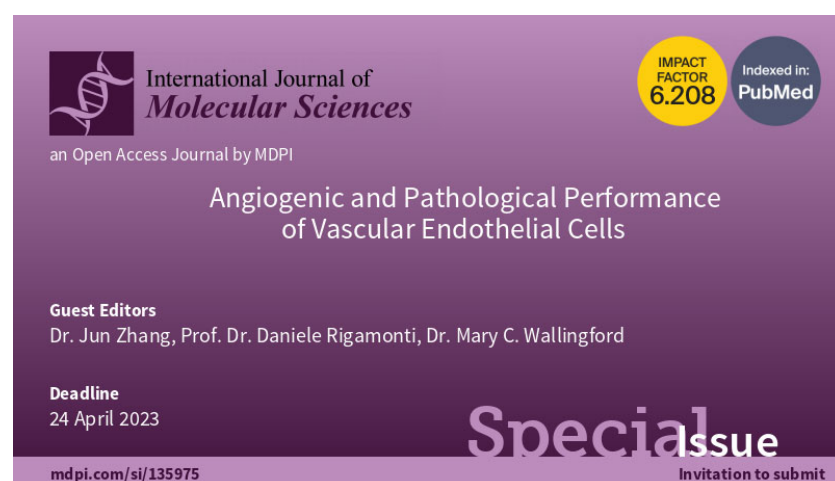


“**EndMT in Cardiovascular Diseases**” hosted by Drs. Mabruka Alfaidi (LSU Health Shreveport, USA), J. Geoffrey Pickering (Western University London, Canada) and Paul Evans (University of Sheffield, UK).

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: <https://www.frontiersin.org/research-topics/42648/endmt-in-cardiovascular-diseases>

Abstract Submission Deadline: 04 October 2022
Manuscript Submission Deadline: 04 December 2022



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).

We are 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 published in IJMS (International Journal of Molecular Sciences, impact factor, 6.208) are welcome in order to include results at both the cellular and molecular level.

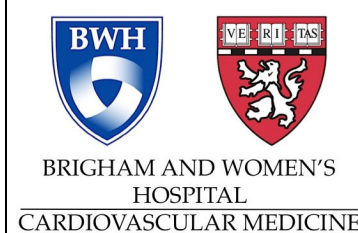
For detailed Manuscript Submission Information, please go to website:
https://www.mdpi.com/journal/ijms/special_issues/48C0H1HFX7



Guests



Academic
Summa Cum Laude



Magna Cum Laude



Cum Laude



Signaling and Therapy in Cerebral Cavernous Malformations



Guest Editors:
Dr. Robert Shenkar
Dr. Jun Zhang

www.vpjournal.net

OCZ

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:

https://vpjournal.net/journal/special_detail/1090

Submission Deadline: 31 March 2023

Calendar of Events

December 8, 2022	InFocus - Molecular Control of Vascular Heterogeneity
December 13, 2022	Symposium - Vascular Stem Cells
January 7 - 8, 2023	First Regional EVSS Conference
January 15 - 20, 2023	Vascular Complexity, Heterogeneity, and Metabolism in Health and Disease
Jan. 31 - Feb. 3, 2023	VAC 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](#)

TRON

JUNIOR GROUP LEADER (M/F/D)

to establish a Research Group on "Modulating inflammation in cardiovascular disease".

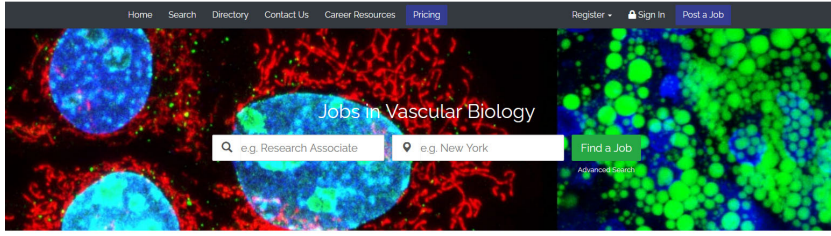
Job Postings

Job Title	Company	Location
Postdoctoral Fellow Position	Johns Hopkins University School of Medicine	Baltimore, MD
Postdoc - Yale University - Vascular or Lung Biology	Yale University School of Medicine	New Haven, CT
Postdoctoral Fellow at Weill Cornell Medicine	Weill Cornell Medical College	New York, NY
Postdoctoral Opportunities	Harvard Medical School	Boston, MA
Assistant/Associate/Full - Internal Medicine- Cardiovascular Medicine	Yale School of Medicine	New Haven, CT

Contributors

Exhibitors

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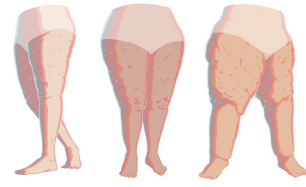
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