



NewsBEAT

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Meet Our New President-Elect



Jason Fish, PhD

Dr. Jason Fish received his PhD in 2006 from the University of Toronto, Canada, studying epigenetic regulation of gene expression in the endothelium with Dr. Philip Marsden. He then completed a postdoctoral fellowship in the laboratory of Dr. Deepak Srivastava at the Gladstone Institute of Cardiovascular Disease and the University of California San Francisco from 2006-2010. During this time, he discovered how endothelial microRNAs regulate angiogenesis and heart development.

Since moving back to Toronto in 2010, Dr. Fish and his team explore the mechanisms of gene regulation in the endothelium in health and disease. This includes studying the contribution of transcriptional and post-transcriptional mechanisms of gene regulation in the endothelium in the setting of inflammation and atherosclerosis, defining how somatic mutations in the endothelium lead to brain arteriovenous malformations and determining how the endothelium responds to chemotherapeutics to drive heart failure in cancer patients.

Dr. Fish has been an enthusiastic member of NAVBO since 2008 and an active participant in the vascular biology community. He was the recipient of the Springer Junior Investigator Award in 2014, he served on the NAVBO council from 2016-2019, and co-organized the NAVBO annual meeting in 2020 and 2023. Dr. Fish is very excited to continue to advocate for the NAVBO community as the president of the society.

Congratulations, Jason!!

Election Results

It is a pleasure to report the outcome of our recent Council Election. As you can see above, **Jason Fish** was elected to President-Elect and our two new Councilors are **Mingxia Gu**, Cincinnati Children's Hospital Medical Center and **Scott Johnstone**, Virginia Tech. You'll get a chance to learn more about Mingxia and Scott in next month's NewsBEAT.

In this issue...

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Did someone forward this newsletter to you?

Want keep up to date on opportunities in the vascular biology community?

Not a NAVBO member?

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Tune into NAVBO's Podcast - new episodes monthly.

**VASCULAR
CROSSTALK**



BY NAVBO

Meetings/Events

Vascular Biology 2023



October 15-19, 2023
Newport, Rhode Island, USA

Visit the web site to view the entire program -
<https://navbo.org/vb2023>

Abstract submission deadline is August 1!
Submit your abstract here

Register soon and save \$\$\$\$
Early Bird will end August 31

Special package deals are available for labs of four, five and six members (must be NAVBO members). Details are on the registration page.

Download the flyer and post it in your lab
Thank you!

Vasculata 2023 in New Orleans

Vasculata 2023

A four-day course providing an introduction and overview to the field of vascular biology

Tulane University in New Orleans
July 17-20, 2023

Last Chance to Register!!
<https://navbo.org/vasculata>

Online registration is open through July 15
[Click here to register](#)

Deadline Extended to July 31



Earl P. Benditt

This award recognizes an individual who has made an outstanding discovery or developed a concept that has been seminal to our understanding of vascular biology or pathology.

More information and the nomination forms are on our web site.



Judah Folkman

This award recognizes an individual at mid-career, who has made a significant impact on the field through his/her original research accomplishments.

Lymphatic Forum 2023

Vasculata 2023
July 17-20, 2023
Tulane University,
New Orleans, LA

Preliminary Program available on the web site



October 20-24, 2024
Monterey, CA

Topics in Vascular Biology:

Development & Genetics

Inflammation

Matrix Biology & Bioengineering

Signaling

Microcirculation

Mechanotransduction

Vascular Malformations

Preliminary Program available on the web site:

<https://navbo.org/vb2024>



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

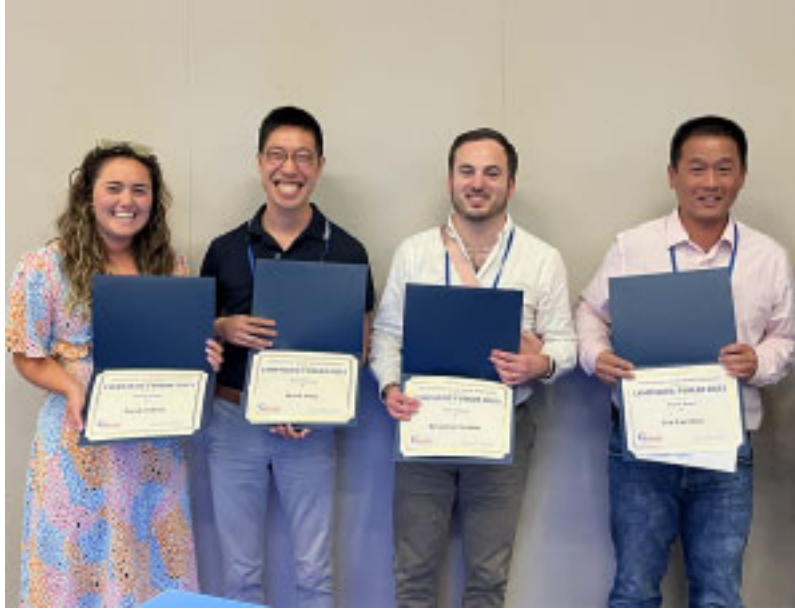
IVBM 2022 Supporters

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

Grant



Corporate Support
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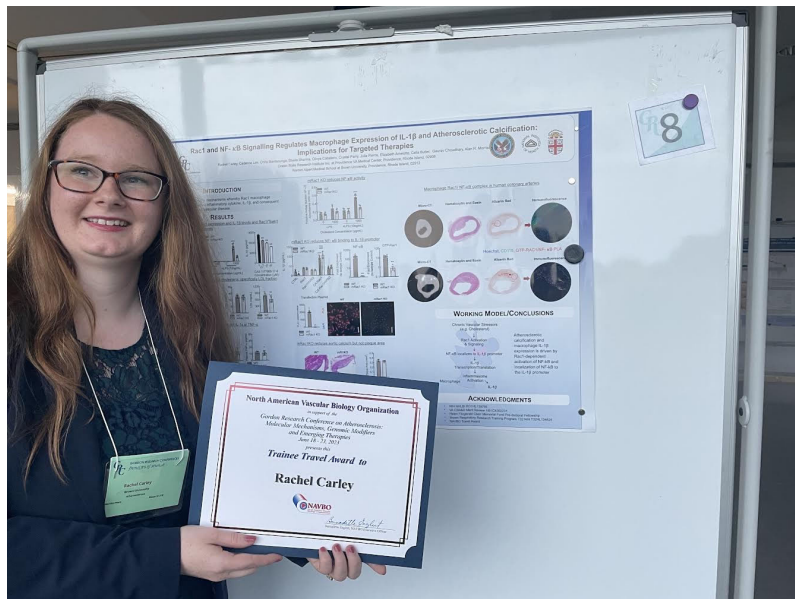


Congratulations to the NAVBO Travel Award winners: Zarah Tibrizi, University of Nottingham; Derek Sung, University of Pennsylvania; Benjamin Gordon, University of Illinois Chicago School of Medicine; and Yen-Lin Chen, University of Virginia School of Medicine.

The Lymphatic Forum 2023 was held at the Banff Centre in Calgary, Alberta, CA from June 13 to 17. The meeting gathered about 180 participants from across the world (Australia, Belgium, Canada, England, France, Greece, Hungary, the Netherlands, New Zealand, Poland, the USA, Switzerland), who enjoyed everything Banff has to offer, as well as great science revolving around the lymphatic system in health and diseases with a focus on functions and dysfunctions of the lymphatics in specific organs or tissues (Skin, Lung & Airway, Heart & Vasculature, Liver & Kidney, GI Tract, Brain). The forum was a huge success in a collegial and relaxed atmosphere.

The Lymphatic Forum was sponsored by NAVBO, The Snyder Institute at the University of Calgary and the Lymphatic Education & Research Network (LE&RN).

GRC Travel Award Recipient



Congratulations to Rachel Carley, Brown University and Ocean State Research Institute! Rachel is a graduate student in the lab of Dr. Alan Morrison and received the NAVBO Travel Award to the GRC on Atherosclerosis. She presented a poster on "Rac1 and NF-κB Signaling Regulate Macrophage Expression of IL-1 β and Atherosclerotic Calcification: Implications for Targeted Therapies."

HuBMAP Kaggle Competition

HuBMAP - Hacking the Human Vasculature Kaggle Competition

The 3rd HuBMAP Kaggle competition is now live!

The teams are tasked to develop machine learning methods to segment instances of microvascular structures, including capillaries, arterioles, and venules in 2D PAS-stained histology images from human kidney tissue slides.

A total prize amount of \$50,000 (sponsored by Google and Kaggle) will be distributed among the five winning teams.

Dates: May 22 to July 31, 2023

[Link to the competition](#)

Lessons Learned

Zhiyu Dai, Ph.D.

My name is Zhiyu Dai. I am an Assistant Professor at the Department of Internal Medicine University of Arizona College of



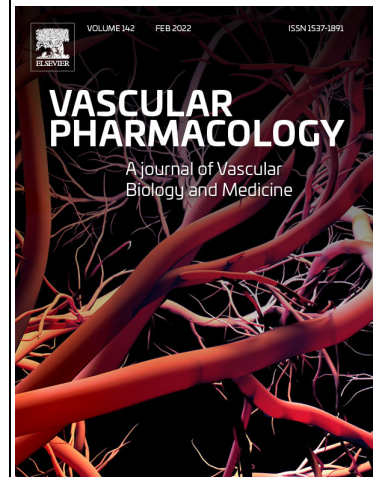
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Strategic Partners

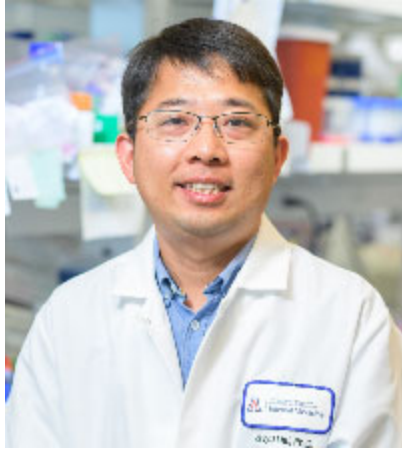


Event Partners



Contributors





Medicine-Phoenix. I graduated from Sun Yat-sen University, Guangzhou, China. I was trained as a lung vascular biologist at the University of Illinois at Chicago and Northwestern University for 6 years. My lab started in July 2019, not far from the COVID-19 outbreak. It has been very challenging to start a new lab during the COVID-19 era. I have learned a lot from my mentors, administrative supervisors, collaborators, senior investigators, junior peer

investigators including recruitment, personnel management, and grant submission, etc.

Seeking Mentorship

The transition from a postdoc researcher or young scientist to an independent principal investigator (PI) is a very exciting moment and comes with new challenges including recruitment of postdoc, research technician, and students. In addition to my previous mentor, finding mentorship in the new institute was a very valuable experience when I started my lab. I had reached out to a few colleagues in our institute who could quickly answer a lot of questions about how to handle almost every step of starting a new lab such as hiring process, budget, and different protocols. These colleagues could be your neighbors, departmental head, center director, and faculty affair director. They are your resources and are willing to help you navigate the new institute.

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

Member News

Welcome to our New Members:

Cyrine Ben Dhaou, LSUHS Shreveport
 Ahmed bey Chaker, Queen Mary University of London
 Kareen Coulombe, Brown University
 Silvia Gonzalez Nieves, Saint Louis University
 Merry Faye Graff, University of Calgary
 Yaqing Huang, Yale University
 Madeline Jackson, University of Virginia
 Zuzanna Juskiewicz, University of Virginia
 Rajan K C, Tulane University
 Shrinidhi Kadkol, University of Illinois at Chicago
 Jared Kushner, Columbia University
 Valentina Laverde, University of South Florida
 Skylar Loeb, University of Virginia
 Xiang Ma, OMRF
 Kevin Mangum, University of Michigan
 Vishal Mardhekar, University of South Florida
 Edward Marti, Stanford University
 Lauren Miller, Oklahoma Medical Research Foundation
 Peter Polverini, University of Michigan
 Shokofeh Rahimpourkaldeh, West Virginia University
 Tiffany Riascos, UNC Chapel Hill
 Mika Sawane, Shiseido Global Innovation Center
 Wyatt Schug, University of Virginia
 Hongwei Yao, Brown University
 Dan Yi, University of Arizona
 Debiao Zhao, Mayo Clinic
 Jenny Zhou, Yale University
 Wenkai Zhu, University of Pennsylvania

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

Lab of the Month



Lab of the Month - July 2023

The Lab of Dr. Zhiyu Dai

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

Participating Societies

Partners



The Japanese Vascular Biology and Medicine Organization



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AUSTRALIAN VASCULAR BIOLOGY SOCIETY



Guests



British Microcirculation & Vascular Biology Society



Spotlight on Trainees

Challenges to postdoctoral pipeline threaten worldwide biomedical workforce

Survey results collected by an NIH working group have documented widespread concerns among postdoctoral trainees regarding their compensation, career prospects, and work-life balance. Numbers of US postdocs filling NIH-funded positions have declined by 9.5% over the past two years, as PIs in many regions are seeing the number of applications drop. Academic researchers in Europe are encountering a similar phenomenon. Salaries in academe relative to those in industry are just one concern; others include limitations in available benefits such as childcare (NRSA recipients do receive an annual childcare allowance of \$2,500). Challenges are even steeper for international trainees and those from under-represented groups. The NIH working group's recommendations, due in December, will emphasize the importance of cost-of-living adjustments, employee-level benefits, workplace culture and safety, and career development alongside expanded funding mechanisms.

Recent Member Publications

Behold the appearance of the seemingly "absent" fibula: Reconsidering the taxonomy of congenital limb anomalies

American Journal of Medical Genetics

This article reveals clinical evidence that most human congenital long bone deficiencies of the lower limbs are the result of downstream effects of embryonic arterial dysgenesis, similar to that of thalidomide embryopathy; such limb deficiencies are, in fact, indistinguishable from those seen in the notorious thalidomide epidemic of the 1950s and 1960s. [Read More](#)

Fibrillin-1 regulates endothelial sprouting during angiogenesis

PNAS

Mutations in the gene coding for fibrillin-1, a protein in the extracellular matrix, cause Marfan syndrome, which is characterized by pathological changes in large blood vessels. We show that fibrillin-1 regulates angiogenesis, the formation of new blood vessels. [Read More](#)

A case report of sirolimus use in early fetal management of lymphatic malformation

Nature Cardiovascular Research

Sirolimus, by targeting the mammalian target of rapamycin (mTOR) pathway, has demonstrated efficacy on lymphatic malformations (LMs) in adults and neonates. The current hypothesis is that the earlier the lesion is treated, the better it responds. [Read More](#)

Differential role for rapid proteostasis in Rho GTPase-mediated control of quiescent endothelial integrity

Journal of Biological Chemistry

Endothelial monolayer permeability is regulated by actin dynamics and vesicular traffic. Recently, ubiquitination was also implicated in the integrity of quiescent endothelium, as it differentially controls the localization and stability of adhesion and signaling proteins. [Read More](#)

Cytokine-Mediated Degradation of the Transcription Factor ERG Impacts the Pulmonary Vascular Response to Systemic Inflammatory Challenge

Arteriosclerosis, Thrombosis, and Vascular Biology

BACKGROUND: During infectious diseases, proinflammatory cytokines transiently destabilize interactions between adjacent vascular endothelial cells (ECs) to facilitate the passage of immune molecules and cells into tissues. However, in the lung, the resulting vascular hyperpermeability can lead to organ dysfunction. [Read More](#)

Plasma proteome of Long-COVID patients indicates HIF-mediated vasculo-proliferative disease with impact on brain and heart function

Journal of Translational Medicine

Long-COVID occurs after SARS-CoV-2 infection and results in diverse, prolonged symptoms. The present study aimed to unveil potential mechanisms, and to inform prognosis and treatment. [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

APS plans conference on Translational Physiology of Cardio-oncology

The American Physiological Society is organizing a [Translational Physiology of Cardio-oncology](#) conference (October 22–25, 2023, in Snowmass Village, Colorado), examining this emerging field at the intersection of cardiology, hematology and oncology. Cardiovascular disease is a leading cause of death in cancer survivors, and adverse cardiovascular side effects of anti-cancer therapies often arise during therapy, resulting in heart failure, coronary artery disease, myocarditis and pericardial disease. The APS conference will focus on topics, from cells to communities, that are critical for addressing the increased observed adverse



Academic Summa Cum Laude



BRIGHAM AND WOMEN'S
HOSPITAL
CARDIOVASCULAR MEDICINE



Magna Cum Laude

Northwestern Medicine
Feinberg School of Medicine



Cum Laude

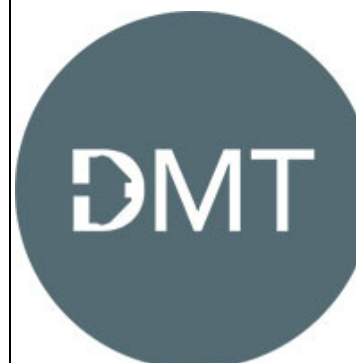


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Contributors



Exhibitors



FLUXION



VISUALSONICS



cardiovascular events in cancer patients. Programming will include basic scientific research, clinical and community-engaged work. Deadline for [abstract submission](#) is July 17, 2023.

National Academies invites applications to New Voices program

The NACEM [New Voices in Sciences, Engineering, and Medicine](#) leadership experience promotes collaboration among a cohort of outstanding early- and mid-career scientists, engineers, and medical professionals over a two-year term of service. The program aims to build a diverse network of emerging U.S. leaders to address national and global challenges via interdisciplinary approaches. Interested persons with an established track record of professional excellence and demonstrated commitment to service beyond their immediate discipline (e.g., in science communication, international scientific collaboration, and science policy) are encouraged to apply. [Applications](#) are due August 10, 2023.

“Resting on Their Laureates?”

[Bhattacharya et al.](#), in a working paper recently published by the National Bureau of Economic Research, compared the productivity of winners of the Nobel Prize in Physiology or Medicine to that of age-matched winners of the [Lasker Award](#). The Nobel winners published more novel and impactful papers prior to their award; the productivity of the Lasker awardees held steady after winning while the Nobel Prize winners experienced a notable drop in productivity and novelty. The investigators postulate that these changes are related in part to social factors and new demands on the Nobel winners' time as they are thrust into the public eye.

Summer Programs

Institute for Public Health Summer Research Program

CARDIOVASCULAR DISEASE & HEMATOLOGY



Students in our *new* Summer Research Diversity Program in Cardiovascular Disease & Hematology (RADIANCE) track learn about the broad scope of heart and blood disorders and their interdisciplinary and multidimensional impact.

 Washington University in St. Louis
INSTITUTE FOR PUBLIC HEALTH

This program is supported by the National Heart, Lung, and Blood Institute (NHLBI).

Contact us: radiance@wustl.edu

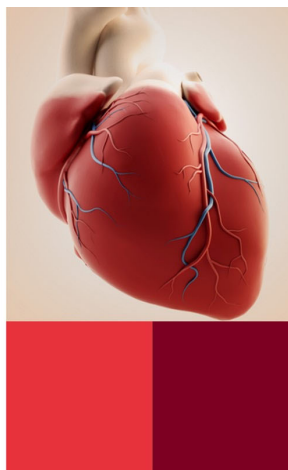
[Click here for more information.](#)

Call for Papers/Proposals

 **frontiers** | Research Topics
Frontiers in Cardiovascular Medicine

New Trends in Vascular Biology 2023

[Open for submissions](#)



Frontiers in Cardiovascular Medicine launched the new Research Topic “**New Trends in Vascular Biology 2023**” (co-editors: **Masanori Aikawa, Hong Chen, Margreet R. De Vries, Yung Fang, Gabrielle Fredman, Delphine Gomez, Hiroshi Iwata, Shizuka Uchida, Hiromi Yanagisawa**; and assistant editor: **Sarvesh Chelvanambi**). IVBM2022, that NAVBO successfully hosted, inspired us to develop this Research Topic. We hope many of you who presented at the meeting would be interested in submitting original reports, review articles, or methodology papers. The Research Topic is open to everyone. We will also welcome submissions from any investigators who did not participate in IVBM2022. The Research Topic will consider manuscripts across all the areas or disciplines in vascular biology. <https://www.frontiersin.org/research-topics/47678/new-trends-in-vascular-biology-2023>

The deadline for manuscript submission is December 17, 2023. If you have any questions, please do not hesitate to contact the editorial office cardiovascularmedicine.editorial.office@frontiersin.org or Masanori Aikawa maikawa@bwh.harvard.edu

We look forward to receiving your manuscripts!

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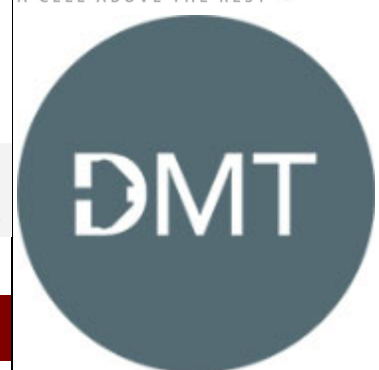
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in disease, injury & regeneration

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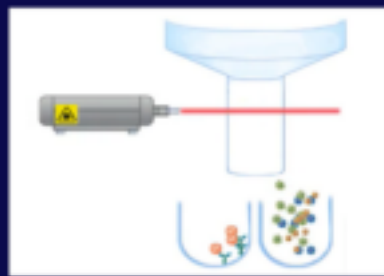
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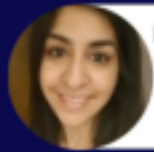
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Affiliated Journals

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](#).



Cardiovascular Pathology

frontiers Impact Factor 6.050
in Cardiovascular
Medicine

2-5 July 2024, Amsterdam, the Netherlands



KEYNOTES: Kari Alitalo, Kristy Red-Horse, Hans Clevers
Stefanie Dimmeler, Nikolaus Rajewsky, Anne Eichmann
Didier Stainier, Stefania Nicoli



Calendar of Events

July 17 - 20, 2023	Vasculata 2023
July 20, 2023	Journal Club - July 2023
July 23 - 28, 2023	Gordon Research Conferences 2023 on Elastin, Elastic Fibers, and Microfibrils
July 25, 2023	Symposium: Vascular Calcification: The Good, The Bad & The Ugly
July 30 - August 4, 2023	GRC - Angiogenesis and Angiostability in Development, Disease and Engineered Tissues
August 4 - 5, 2023	5th Annual Gulf Coast Vascular Research Consortium (GVRC)
August 6 - 11, 2023	Gordon Research Conferences 2023 in Biomechanics on Vascular Biology and Disease
September 5 - 8, 2023	Adhesion and migration in disease: Translational and therapeutic opportunities
October 5 - 7, 2023	Lipedema World Congress
October 15 - 19, 2023	Vascular Biology 2023
October 24 - 27, 2023	Critical Issues in Tumor Microenvironment: Angiogenesis, Metastasis and Immunology

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

Job Postings

Postdoctoral Research Fellow	Yale University	New Haven, CT
Postdoctoral Fellowship in Endothelial Cell Biology	The University of Texas Southwestern Medical Center	Dallas, TX
Research Assistant/Associate/Full Professors	University of Chicago	Chicago, IL
Postdoctoral fellow, Boa Kim Lab	University of North Carolina at Chapel Hill	Chapel Hill, NC

Post an open position today!

30-day postings are free for NAVBO members
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