



# NewsBEAT

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## Lymphatic Forum 2023

**Abstract deadline is March 15!!**



The Lymphatic Forum 2023 (LF2023) will be held at the Banff Center from June 13-17, 2023. This 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. 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

[Download and post our flyer.](#) Thank you!

## Vasculata 2023

**Excited to be in NOLA!!**

Vasculata 2023 will be held at Tulane University in New Orleans from July 17-20, 2023. The meeting is being organized by **Dr. Amitabh Pandey** of Tulane and will feature NAVBO members: **Wayne Orr**, LSU Health Science Center at Shreveport; **Jorge A Castorena-Gonzalez**, **Jennifer Fang** and **Stryder Meadows**, Tulane University; and **Patty Lee**, Icahn School of Medicine at Mount Sinai, as the Keynote Lecture.

Registration and abstract submission sites are open. Go to <https://navbo.org/vasculata> for more information.

Early bird registration ends May 31, 2023!  
[Click here to register](#)

Abstract Submissions are due May 1, 2023  
[Submit your abstract](#)

**Scholarships are available - [complete this form.](#)**  
Applications are due May 10 - [see the website for details.](#)

## Vascular Biology 2023



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

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

The meeting begins on Sunday evening, October 15 with a Keynote Lecture by **Luisa Iruela-Arispe**, Northwestern University and the Benditt Award Lecture by **Miikka Vikkula**, de Duve

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?

**Subscribe Here**

Tune into NAVBO's Podcast - new episodes monthly.

**VASCULAR CROSSTALK**



**BY NAVBO**

**Meetings/Events**

Institute, University of Louvain, and concludes on Thursday, October 19 at 1:00pm with a general session on Plasticity of the Vasculature. New this year, we will have concurrent sessions in all four "workshop" themes: Development & Genetics, Inflammation, Signaling, and Matrix Biology and Bioengineering. The **Microcirculatory Society** is meeting with us and we will host their Landis Award Lecture and Dr. Pooneh Bagher's President's Symposium.

Be sure to join us and register super early with a special discount!

Super Early Bird registration ends on June 30!  
[Register early to save big!!!!](#)

We are also accepting abstracts - deadline is August 1, 2023!  
[Submit your abstract here](#)

## Call for Award Nominations

**Nominations are due March 15!!**



The **Stephen M. Schwartz Award** recognizes an outstanding mentor. This is a great opportunity to recognize your mentor!

Our newest award, the **Florence Sabin Award**, recognizes an individual who has 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.

[Click here for information about nominating a colleague.](#)

*We are also accepting nominations for the 2024 Earl P. Benditt and Judah Folkman Awards through July 15, 2023 (use the above link for more information).*

## Lessons Learned



### Laura Hansen, Ph.D.

Hello everyone! My name is Laura Hansen and I'm an assistant professor at Emory University in the Department of Medicine, Cardiology Division. I'm also a member of the Biomedical Engineering program faculty at Emory/Georgia and the Molecular and Systems Pharmacology graduate program at Emory and recently became the associate program director for our Basic Science Research Cardiology Fellowship at Emory. My undergraduate degree was in bioengineering at the University of Pittsburgh and my PhD was at Georgia Tech in Bioengineering. I

then did a postdoctoral fellowship at Emory University in cardiology.

I started my faculty position and lab in April 2019 with the help of an AHA Career Development Award. It has been an interesting time to start a lab with the pandemic closing in-person research just as I finally felt like my lab was getting going. Despite some challenges, I feel that I've learned a lot and my lab is currently doing well. My advice for new faculty fits into one overall theme of finding great people to help and support you. This includes mentors, colleagues, and lab members.

[Read more of Dr. Hansen's Lessons Learned here.](#)

## Member News

### Welcome to our New Members:

Soheila Aliakbarighavimi, Brigham and Women's Hospital  
 Shreya Bavishi, Tulane University  
 Meriem Bkhache, Temple University  
 Julien Coulie, Cliniques Universitaires Saint-Luc  
 Jesse Cullison, Medical College of Wisconsin



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)*

### Webinar Series



## IVBM 2022 Supporters

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

### Grant



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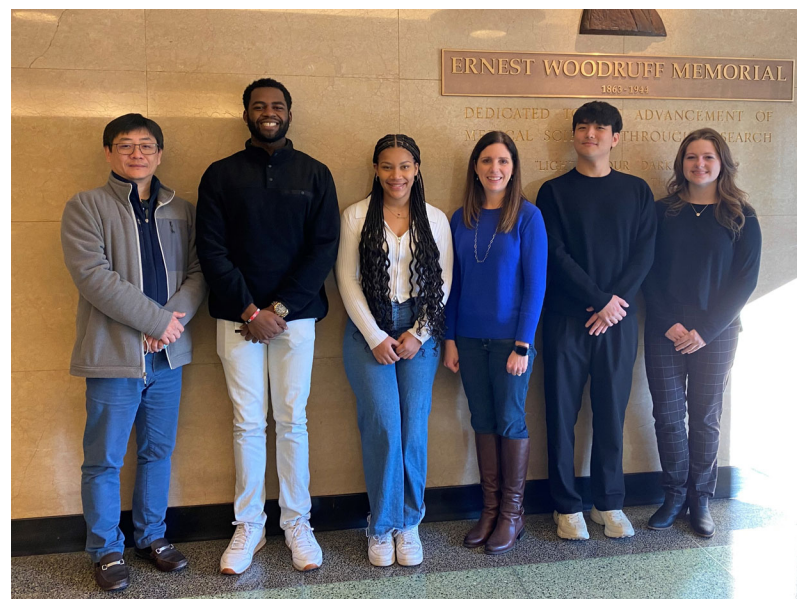
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 Brandon Hadland, Fred Hutchinson Cancer Center  
 Tiago Januario da Costa, University of South Carolina School of Medicine  
 Sheelu Monga, University of Texas Health Science Center at Houston  
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 Jessica Li Chang Teo, Boston University  
 Ling Wang, University of Iowa  
 Chen Yan, University of Rochester  
 Weiquan (Wendy) Zhu, University of Utah

If you have news to share with your colleagues, send it to [membership@navbo.org](mailto:membership@navbo.org)

## Lab of the Month



### Lab of the Month - March 2023

#### The Lab of Dr. Laura Hansen

This month we are highlighting the lab of Dr. Laura Hansen, Assistant Professor in the Department of Medicine, Cardiology Division at Emory University. Find out more about her lab by visiting [her page](#) in our Lab of the Month listing.

## Spotlight on Trainees

### NIH seeks information to bolster the postdoctoral experience and career prospects

The NIH has issued a [Request for Information](#) soliciting input on the current state of postdoctoral research training and support for career progression in the biomedical sciences. The RFI was developed by a subgroup of the NIH Advisory Committee to the Director. Responses received by April 14, 2023, will be used to craft strategies to address impacts of recent declines in postdoctoral numbers, a trend that affects U.S. competitiveness in biomedical innovation. In support of the RFI, a series of listening sessions are scheduled to gather perspectives on current infrastructure and promising solutions to the fundamental challenges faced by the postdoctoral trainee community. Friday, March 10: International trainee concerns; Friday, March 17: Compensation and benefits; Monday, March 20: Job security, career prospects, and quality of life.

## Recent Member Publications

### A Prox1 enhancer represses haematopoiesis in the lymphatic vasculature

Nature

Transcriptional enhancer elements are responsible for orchestrating the temporal and spatial control over gene expression that is crucial for programming cell identity during development<sup>1-3</sup>. Here we describe a novel enhancer element that is important for regulating the expression of Prox1 in lymphatic endothelial cells. [Read more](#)

### Angiogenesis precedes myogenesis during regeneration following biopsy injury of skeletal muscle

Skeletal Muscle

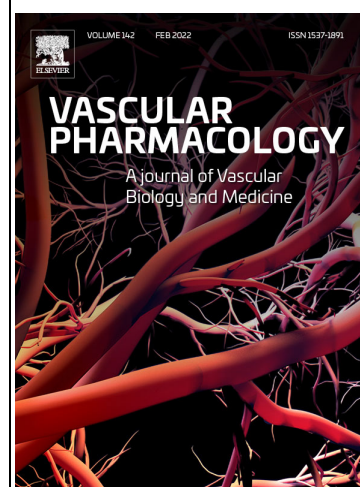
Acute injury to skeletal muscle damages myofibers and fragment capillaries, impairing contractile function and local perfusion. Myofibers and microvessels regenerate from satellite cells and from surviving microvessel fragments, respectively, to restore intact muscle. Established models of injury have used myotoxins and physical trauma to demonstrate the concurrence of myogenesis and angiogenesis during regeneration. [Read more](#)

### Mapping the lymphatic system across body scales and expertise domains: A report from the 2021 National Heart, Lung, and Blood Institute workshop at the Boston Lymphatic Symposium

Frontiers in Physiology



Event Partners



Contributors



Participating Societies Partners





Enhancing our understanding of lymphatic anatomy from the microscopic to the anatomical scale is essential to discern how the structure and function of the lymphatic system interacts with different tissues and organs within the body and contributes to health and disease. The knowledge of molecular aspects of the lymphatic network is fundamental to understand the mechanisms of disease progression and prevention. [Read more](#)

### Endothelial Rbpj deletion normalizes Notch4-induced brain arteriovenous malformation in mice

Journal of Experimental Medicine

Upregulation of Notch signaling is associated with brain arteriovenous malformation (bAVM), a disease that lacks pharmacological treatments. Tetracycline (tet)-regulatable endothelial expression of constitutively active Notch4 (Notch4\*tetEC) from birth induced bAVMs in 100% of mice by P16. [Read more](#)

### Pathological pericyte expansion and impaired endothelial cell-pericyte communication in endothelial Rbpj deficient brain arteriovenous malformation

Frontiers in Human Neuroscience

Pericytes, like vascular smooth muscle cells, are perivascular cells closely associated with blood vessels throughout the body. Pericytes are necessary for vascular development and homeostasis, with particularly critical roles in the brain, where they are involved in regulating cerebral blood flow and establishing the blood-brain barrier. [Read more](#)

### Impaired Human Cardiac Cell Development due to NOTCH1 Deficiency

Circulation Research

Background: NOTCH1 pathogenic variants are implicated in multiple types of congenital heart defects including hypoplastic left heart syndrome, where the left ventricle is underdeveloped. It is unknown how NOTCH1 regulates human cardiac cell lineage determination and cardiomyocyte proliferation. [Read more](#)

### Establishment of NCHi009-A, an iPSC line from a patient with hypoplastic left heart syndrome (HLHS) carrying a heterozygous NOTCH1 mutation

Stem Cell Research

Hypoplastic left heart syndrome (HLHS) is a congenital heart malformation clinically characterized by an underdeveloped left ventricle, mitral or aortic valve stenosis or atresia, and narrowed ascending aorta. Although genetic etiology of HLHS is heterogenous, recurrent NOTCH1 variants have been associated with this defect. [Read more](#)

### Neurovascular development

Encyclopedia of Child and Adolescent Health

When considering the development and function of the human brain, the neural tissue—comprised of a multitude of neurons exquisitely connected through functional neural circuits—arguably receives the most attention. However, the brain's neural tissue must be supported by an equally elaborate and extensive vascular system to support the high metabolic activity of the human brain. [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](mailto:membership@navbo.org). Please note, only papers authored by current NAVBO members are accepted for inclusion.

## Industry News

### Bench-to-Bedside initiative promoted by Cell Press

Cell Press has developed an [initiative](#) intended to grease the wheels of the typically lengthy translational medicine process, speeding the development of basic science observations through disease models and human trials on their way to patients in need. Three flagship Cell Press journals – Med, Cell Reports Medicine, and iScience – are working in concerted fashion to drive the bench-to-bedside effort. Submissions to these journals of interconnected manuscripts that span the life cycle of clinical research are solicited. The multi-journal “hub” enables credit to be shared among all researchers involved in the research from its inception.

### Entries accepted for 2023 NOMIS & Science Young Explorer Award

The annual [NOMIS Foundation](#) & Science [Young Explorer Award](#) is open for applications. The award recognizes early-career M.D., Ph.D., or M.D./Ph.D. scientists who are pursuing research at the intersection of the social and life sciences. Entrants' essays are judged for scientific quality, creativity, and demonstration of cross-disciplinary approaches to address fundamental questions, leading to a cash prize and publication of winning essays in Science magazine. The deadline for [submissions](#) is May 15, 2023.

### Biosecurity experts caution on widening gulf between biology and policy

[Writing in The New York Times](#), Gregory Koblentz and Rocco Casagrande raise red flags about biosecurity risks brought into the spotlight by our shared and disruptive experience with the SARS-CoV2 pandemic. Irrespective of the actual lab-vs-zoonosis origin of the COVID-19 pathogen, Koblentz and Casagrande note that heightened scrutiny of gain-of-function research with pathogens is



The Japanese Vascular Biology and Medicine Organization



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Guests



British Microcirculation & Vascular Biology Society



Academic

Summa Cum Laude

warranted and applauded the work of the National Science Advisory Board for Biosecurity that led to their recommendation of a [revised oversight framework](#) for such work. The panel recommends a more comprehensive approach to oversight and updates to policy that takes into account availability of new, powerful molecular engineering technologies.

## Summer Programs

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.





**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](http://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](mailto:CVC@mcw.edu)

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



Funded by the American Heart Association and the American College of Cardiology Cardiovascular Center

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

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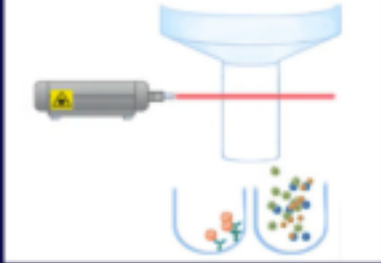
This program is supported by the National Heart, Lung, and Blood Institute (NHLBI).

Contact us: [radiance@wustl.edu](mailto:radiance@wustl.edu)


[Click here for more information.](#)

## Call for Papers/Proposals


### Emerging Methods in Profiling Endothelial Cells at Single-Cell Resolution



JoVE | Methods Collections



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




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

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](mailto:zhenchen@coh.org) or [follow this link](#).

## 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!](#)



International Journal of  
*Molecular Sciences*

an Open Access Journal by MDPI

IMPACT FACTOR 6.208

Indexed in: PubMed

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

Invitation to submit

[mdpi.com/si/135975](http://mdpi.com/si/135975)

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



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Contributors



Exhibitors



FLUXION



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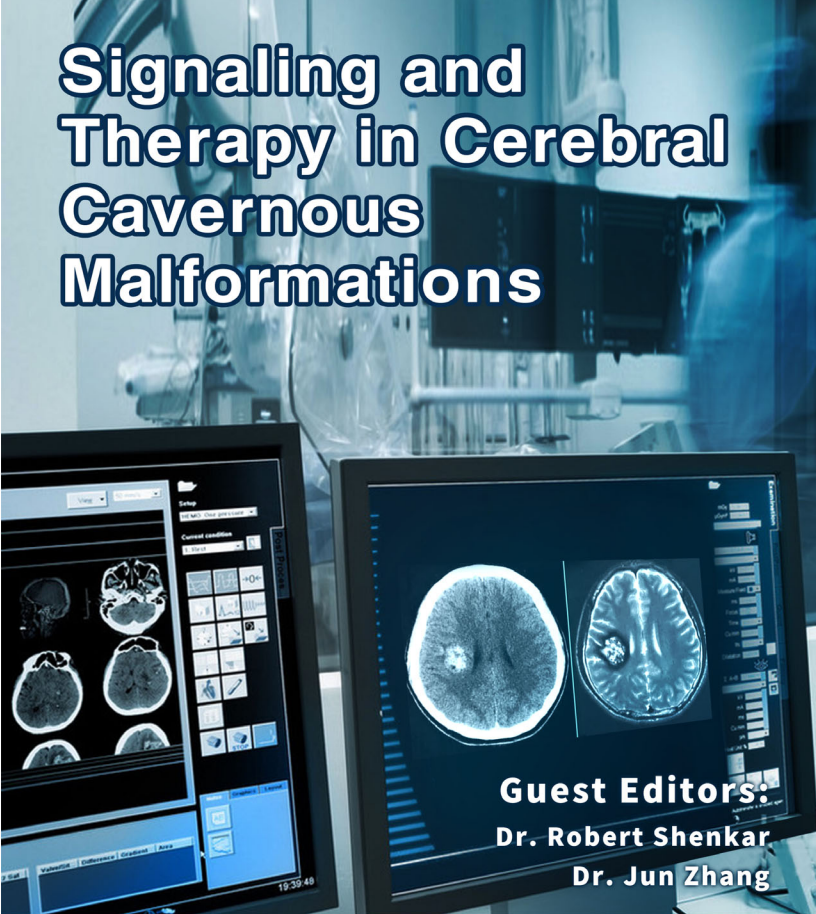


on the angiogenic and pathological performance of vascular/microvascular ECs, covering activation, proliferation, migration, invasion, tube formation, the clonal expansion of ECs and cell junctions, maintenance and the malformations of vasculatures and the blood–brain barrier (BBB). Papers will be published 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**

Open Access  
ISSN: 2574-1209 (Online)

**VP VESSEL PLUS**

# 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](#)

Submission Deadline: March 31, 2023



**biomolecules**  
an Open Access Journal by MDPI

IMPACT FACTOR 6.064  
Indexed in: PubMed

## 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

**Barrier Formation and Homeostasis in the Vertebrate Brain**

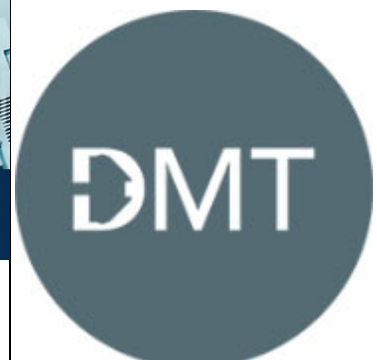
In this Special Edition, the guest editors, including **Ramani Ramchandran, Medical College of Wisconsin**, invite you to submit articles that study the various barriers associated with child and adult brains, such as the blood–brain barrier, blood–retinal barrier, blood–lymph barrier and the blood–cerebrospinal 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,



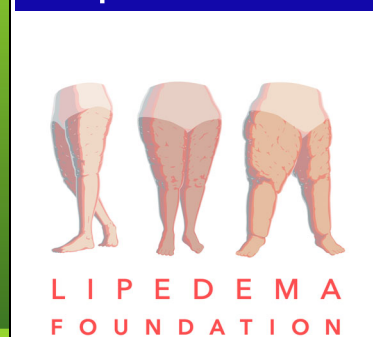
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in vivo, and pre-clinical models. Manuscripts with exclusive clinical studies will not be considered.

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

Deadline for manuscript submission is June 15, 2023.

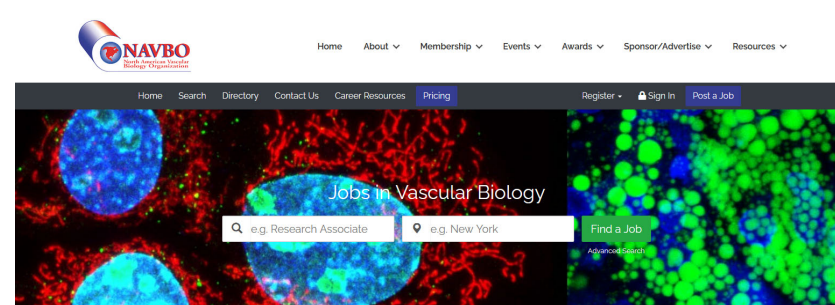
## Calendar of Events

March 9, 2023	<a href="#">InFocus - Extracellular Vesicles</a>
March 21, 2023	<a href="#">Symposium: Molecular Guidance in Endothelial Behavior</a>
March 21, 2023	<a href="#">Frontiers in Cardiovascular Sciences Seminar Series with Sharon Gerecht</a>
March 22 - 24, 2023	<a href="#">SEISC - Franco-Belgian-British multinational meeting</a>
March 23, 2023	<a href="#">InFocus - Lymphatics</a>
March 28, 2023	<a href="#">DEI Seminar: Navigating the Immigration System in the USA--Meet the Experts</a>
April 24 - 25, 2023	<a href="#">7th Annual Stanford Drug Discovery Symposium (SDDS 2023)</a>
June 13 - 17, 2023	<a href="#">Lymphatic Forum 2023</a>
July 17 - 20, 2023	<a href="#">Vasculata 2023</a>
July 30 - August 4, 2023	<a href="#">GRC - Angiogenesis and Angiostability in Development, Disease and Engineered Tissues</a>
August 6 - 11, 2023	<a href="#">Gordon Research Conferences 2023 in Biomechanics on Vascular Biology and Disease</a>
October 15 - 19, 2023	<a href="#">Vascular Biology 2023</a>
October 24 - 27, 2023	<a href="#">Critical Issues in Tumor Microenvironment: Angiogenesis, Metastasis and Immunology</a>

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

## Job Postings

<a href="#">Postdoctoral Scholar</a>	UC Irvine	Irvine, CA
<a href="#">Postdoctoral researcher in ocular vascular biology</a>	Northwestern University, Feinberg School of Medicine	Chicago, IL
<a href="#">Postdoctoral Fellowship Opportunities in Regenerative Medicine</a>	University of Illinois College of Medicine	Chicago, IL
<a href="#">JOHNS HOPKINS FELLOWSHIP IN VASCULAR AND CARDIAC IMMUNOLOGY</a>	Johns Hopkins Medicine	Baltimore, MD
<a href="#">PostDoctoral/staff scientist</a>	Temple University School of Medicine	Philadelphia, PA
<a href="#">Postdoctoral Scholar</a>	Northwestern University, Feinberg School of Medicine	Chicago, IL



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