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Late-Breaking Abstracts



Vascular Biology 2023
October 15-19 in Newport, RI
www.navbo.org/vb2023

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

Register online and save \$\$\$\$*
Online Registration ends October 13
**\$50 will be added to onsite registrations*

We are currently accepting late-breaking abstracts through September 28.
These abstracts will be programmed as posters.

Submit Your Abstract Today

Celebrating 20 years!

Join us in Commemorating 20 Years of Workshops in Developmental Vascular Biology

In celebration of the momentous 20th Anniversary of the Developmental Vascular Biology Workshop, the original chairs, **Luisa Iruela-Arispe** (Northwestern University) and **Brant Weinstein** (NICHD/NIH), and NAVBO are thrilled to announce a three-day virtual conference, February 12-14, 2024. This exceptional event will bring together pioneers and rising stars in the field, showcasing the remarkable progress made over the past two decades.

As we reflect on the journey that began with the inaugural workshop, we invite you to embark on a captivating scientific expedition. We will revisit the seminar speakers from that very first gathering, rekindling the spirit of discovery, and reexamining the key breakthroughs that have shaped vascular biology.

Our esteemed lineup of speakers will delve into exciting science, presenting cutting-edge research, and unveiling novel insights into vascular development. From the foundational principles to the latest advancements, each session promises to be an immersive experience that highlights the remarkable strides made in this dynamic field.

Through this event, we aim to foster connections, spark collaborations, and inspire the next generation of vascular biologists. Engage in lively discussions, explore new ideas and witness the power of collective knowledge as we continue to unravel the intricacies of vascular and lymphatic development.

Mark your calendars and be part of this extraordinary celebration of 20 years of Workshops on Developmental Vascular Biology. Topics will include: evolutionary origins and diversity of the vasculature, lymphatic vascular biology, cell-cell, cell-matrix, and cell-tissue interactions, vascular signaling, vascular morphogenesis, and vessel guidance and formation of vascular networks

Together, let us honor the past, celebrate the present and pave the way for a future brimming with groundbreaking discoveries. Join us as we embark on this remarkable journey through the rich tapestry of science.

Stay tuned for updates and registration details as we unveil the full lineup of speakers and presentations.

Lessons Learned

Cam McCarthy, Ph.D., FAHA

Throughout my career, I have been fortunate to find supportive mentors, collaborative colleagues, and compassionate friends, all of whom have assisted me in reaching my goals and my current position as an Assistant Professor

In this issue...

- Vascular Biology 2023
- DVB Workshop
- Lessons Learned
- Lab of the Month
- NAVBO Travel Award
- IVBM2024
- Member News
- Spotlight on Trainees
- Member Publications
- Industry News
- Summer Program
- Call for Papers/Proposals
- Calendar of Events
- Product Showcase - Worthington
- Job Postings

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



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



in the Cardiovascular Translational Research Center at the University of South Carolina School of Medicine-Columbia. However, I have also demonstrated a lot of hard work to get to where I am as I only found my love for vascular biology once I started my Ph.D. Originally, I pursued degrees in physical education (B.S.) and exercise science (M.S.), and while attenuation of cardiovascular diseases is a consistent theme among these areas, it took a lot of dedication during my M.S. and Ph.D. to catch up the “basic science” to get to

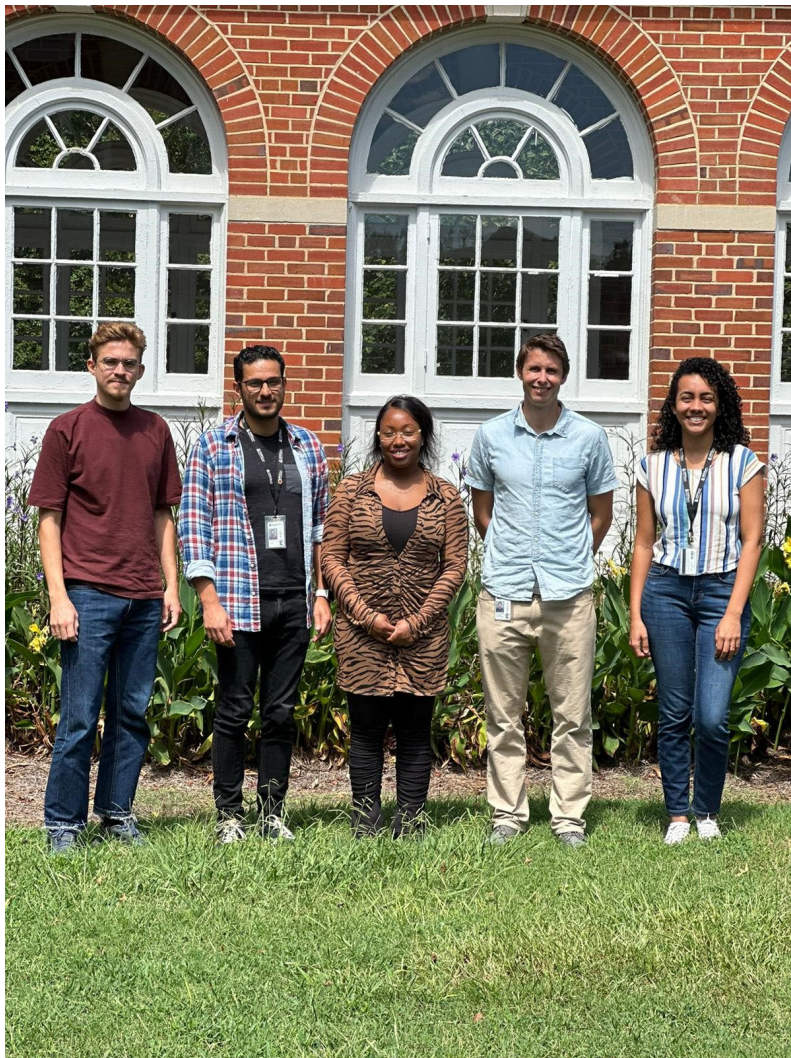
where I am today. I am proud to be an example of someone who found their professional calling after undergrad.

Now as an independent P.I., I have made an entirely different transition. Obviously, managing a laboratory and mentoring young scientists is very different than solely dedicating yourself to an individual project, like we all did as trainees. Therefore, the one major piece of advice I wanted to share with other young PI's is not to spread yourself too thin to start. In other words, when I started my own lab, I wanted all the people joining to have their own individual project, which they would be responsible and accountable for. This was even the case for volunteer undergrads. I quickly realized that this was not an efficient way to collect data, especially as an ESI, and that I needed to focus our projects and have people work more cohesively. Therefore, I have concentrated our lab, for the time being, on three major projects, driven by two post-docs, and myself and our lab technician (collaboratively). These projects include: (1) identifying the vasculoprotective mechanisms of autophagy, (2) investigating how O-GlcNAc post-translational modifications cause vascular damage, and (3) determining how ANGPTL3- and ANGPTL4-lipase crosstalk contributes to vascular dysfunction. Therefore, anyone else wanting to volunteer or rotate in my lab works on specific experiments related to these projects and this has resulted in more streamlined data collection, manuscripts in preparation, and several grant submissions!

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

[Visit our webpage](#) to see past Lessons Learned.

Lab of the Month



Lab of the Month - September 2023

The Lab of Dr. Cam McCarthy

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

NAVBO Travel Award to GVRC



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:

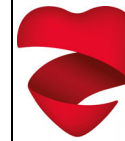
<https://navbo.org/vb2024>



VB2023 Supporters



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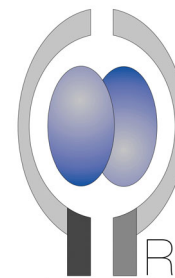
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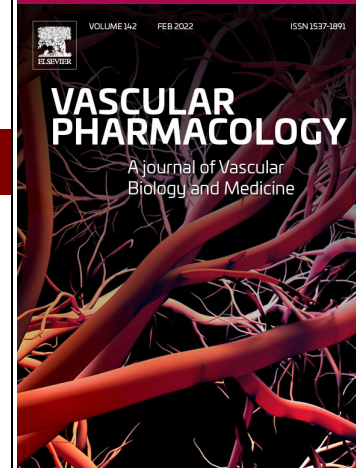


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Congratulations to **Cyrine Ben Dhaou** of Louisiana State University Health Sciences Center Shreveport, recipient of a NAVBO Travel Award to the 5th Annual Gulf Coast Vascular Research Consortium (GVRC), organized by **Kayla Bayless**, Texas A&M Health Science Center. Cyrine's abstract was titled, "*Endothelial deletion of Nck1 reduces atherosclerosis in ApoE mice.*"



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

Member News

Welcome to our New Members:

Shailaja Agrawal, Penn State
Celia Butler, Providence VA Medical Center
Grace de Malona Eriksen, Technical University of Denmark
Cassi Friday, Cure HHT
Thomas Gast, IU school of optometry
Liyan Gong, Boston Children's Hospital
Zhongkui Hong, Texas Tech University
Rachel Knipe, Massachusetts General Hospital
Michelle Kossack, Brown University
Mary Landmesser, Penn State Hershey College of Medicine
Bojana Lazovic, AstraZeneca & Oulu University
Xiang Li, Boston Children's Hospital
Yunfei Li, The City College of New York
Yao Wei Lu, Boston Children's Hospital
Aldons Lusic, University of California, Los Angeles
Syed Mehdi, UAMS
Eric Aian Pereira da Silva, University of California, Davis
Milagros Romay, Northwestern University
Amr Salem, Medical College of Georgia, AU
Dylan Sebo, University of Wisconsin - Madison
Jade Taylor, UC Davis
Michael Taylor, University of Wisconsin at Madison
Daniel Tremmel, Boston Children's Hospital
Taylor Turner, Geisel School of Medicine at Dartmouth

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

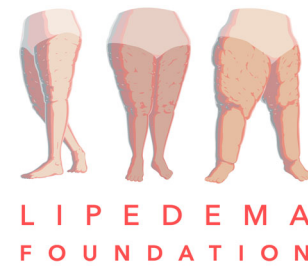
Spotlight on Trainees

Contemplating grad school? Many variables feed in to the decision

Washington Post columnist [Renee Yaseen reflects](#) on her own deliberations, as well as those of other recent college graduates, about whether to pursue an advanced degree. As all current grad students are well aware, a host of factors – cost, availability of support, prospects for future employment, intrinsic intellectual interest, and many more – have a bearing on this decision. The weights able to be assigned to these variables are of course highly individualized and discipline-specific. The article's Comments section provides a sobering spectrum of public views on the value of education beyond the baccalaureate, ranging from the snarky "who-needs-it" to the starry-eyed "It was the most rewarding experience I've ever had."

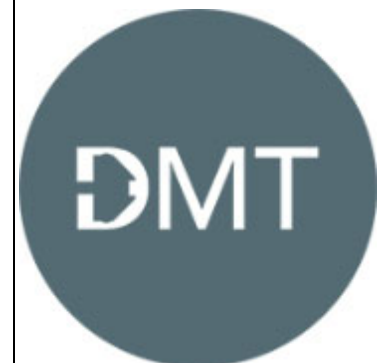
Recent Member Publications

Exhibitors



NAVBO

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Unique miRNome and transcriptome profiles underlie microvascular heterogeneity in mouse kidney

American Journal of Physiology Renal Physiology

Endothelial cells in blood vessels in the kidney exert different functions depending on the (micro)vascular bed they are located in. The present study aimed to investigate microRNA and mRNA transcription patterns that underlie these differences. [Read more](#)

MC3/SAINT-O-Somes, a novel liposomal delivery system for efficient and safe delivery of siRNA into endothelial cells

Journal of Liposome Research

Increased understanding of chronic inflammatory diseases and the role of endothelial cell (EC) activation herein, have urged interest in sophisticated strategies to therapeutically intervene in activated EC to treat these diseases. Liposome-mediated delivery of therapeutic siRNA in inflammation-activated EC is such a strategy. [Read more](#)

Reduced Tie2 in Microvascular Endothelial Cells Is Associated with Organ-Specific Adhesion Molecule Expression in Murine Health and Endotoxemia

Cells

Endothelial cells (ECs) in the microvasculature in organs are active participants in the pathophysiology of sepsis. Tyrosine protein kinase receptor Tie2 (Tek; Tunica interna Endothelial cell Kinase) is thought to play a role in their inflammatory response, yet data are inconclusive. [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

Shared responsibility for safeguarding research integrity

Writing in [Science](#), H. Holden Thorp notes that recent high-profile investigations of scientific misconduct represent threats to broad public confidence in the research enterprise. Organizational theory has highlighted the virtues of a “generative” culture, one oriented on performance and where potentially damaging information is shared and dealt with openly, over cultures that are termed pathological or bureaucratic. While individual investigators may succeed in creating a healthy generative culture in their own labs, most operate against the headwinds of large bureaucratic institutions and interact with publishers and corporations with their own imperatives. “Although science’s bureaucratic culture doesn’t cause misconduct, it appears to define how misconduct is handled...It’s the generative culture that needs fostering.”

Your faithful editor’s morning query to ChatGPT. Your impression of its response?

Cite a clinical example of human tumor growth in the absence of angiogenesis: “I apologize for any confusion, but as of my last knowledge update in September 2021, there were no clinical examples of human tumor growth in the complete absence of angiogenesis. The formation of new blood vessels (angiogenesis) or alternative mechanisms for supplying tumors with oxygen and nutrients are considered essential for tumor growth beyond a certain size in humans. Research in this field continues to advance, and new findings may have emerged since then. However, as of my last update, angiogenesis remained a universally recognized and critical process in the growth and progression of most solid tumors in humans. If there have been groundbreaking developments in this area, I recommend consulting more recent scientific literature or medical sources for the latest information and clinical examples.”

Lipedema Foundation flags new R01 grant opportunity

NAVBO collaborator The Lipedema Foundation is pleased to share that the [Notice of Special Interest \(NOSI\): Lymphatic System in Health and Disease \(R01\)](#) grant opportunity is now available. This research emphasis seeks to broaden understanding of lymphatic system biology and factors that account for individual differences in disease resistance, pathobiology, and response to treatments for lymphatic diseases and secondary heart, lung, blood, and sleep (HLBS) disorders. The NOSI may also engage the multidisciplinary research community needed to determine the function and role lymphatics in health and disease. First available application due date is October 5, 2023.

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.

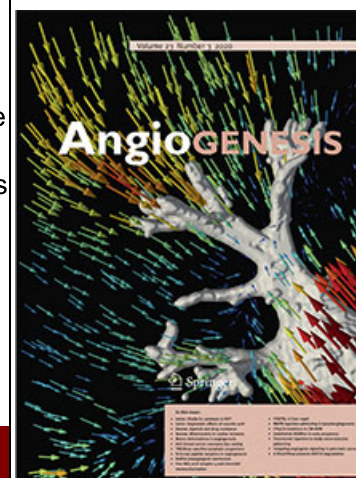


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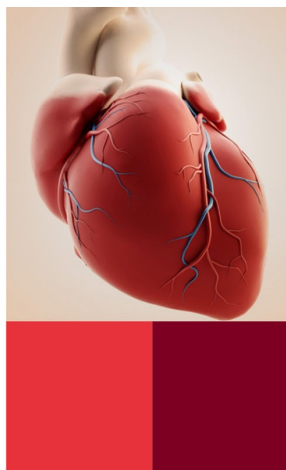
frontiers Impact Factor 6.050
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Medicine

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 March 18, 2024. If you have any questions, please do not hesitate to contact the editorial office at: cardiovascularmedicine.editorial.office@frontiersin.org or Masanori Aikawa maikawa@bwh.harvard.edu

We look forward to receiving your manuscripts!

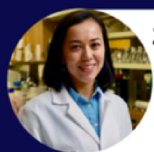
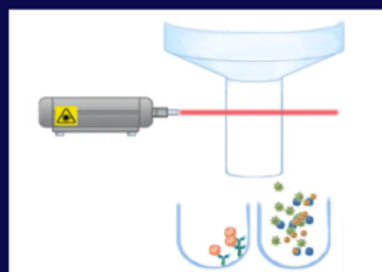


Deputy Editor Dr. Stefano Tarantini and Editor-in-Chief Dr. Zoltan Ungvari, and the editorial team of GeroScience (Official Journal of the American Aging Association, published by Springer) invite submission of original research articles, opinion papers and review articles related to research focused on understanding the mechanisms involved in vascular aging, the factors promoting accelerated aging in vascular cells and the role of vascular cells in the pathogenesis of age-related diseases. NAVBO Member, **Zoltan Arany**, of the University of Pennsylvania, is an Associate Editor in Cardiovascular Function.

All manuscripts should be submitted online here: <https://www.editorialmanager.com/jaaa/default.aspx>

For more information, [click here](#).

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

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](#).

Calendar of Events

September 14, 2023	InFocus - Endothelial function and inflammation
September 19, 2023	Symposium: The vasculature in tumor biology
September 21, 2023	Journal Club - September 2023
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
March 17 - 19, 2024	Keystone Symposia - UNRAVELING VASCULAR LAYERS TO UNDERSTAND

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

Product Showcase

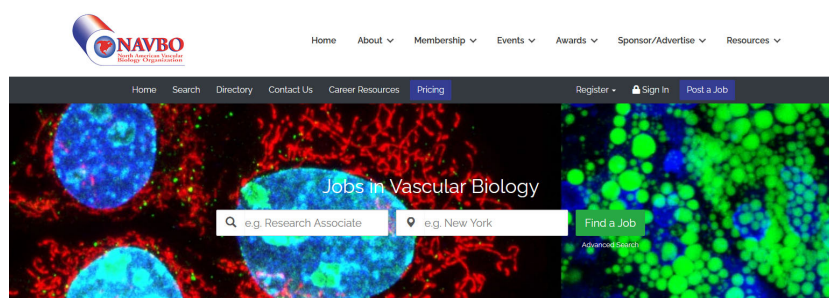


Collagenase Sampling Program Now Available Online

The Worthington Collagenase Sampling Program provides 100 mg samples, up to three different lots of collagenase for evaluation in your cell isolation systems. A period of 60 days is allowed for sample evaluation. A minimum of 3 grams of each lot of collagenase is placed on HOLD in your name. There is no charge for participating in the program. Worthington's Collagenase Lot Selection Tool is at our website or contact: techservice@Worthington-Biochem.com.

Job Postings

Postdoctoral Fellow in Cardio-Pulmonary-Vascular Research	Stanford University School of Medicine	Stanford, CA
Postdoctoral Fellowship in Endothelial Cell Biology	The University of Texas Southwestern Medical Center	Dallas, TX
Research Scientist/Post-doctoral fellow to work in Neonatal Lung Biology/Translational Research	Childrens Mercy Hospital	Kansas City, MO
Research Associate - Immunology Center of Georgia	Immunology Center of Georgia at Augusta University	Augusta, GA
Research Assistant - Immunology Center of Georgia	Immunology Center of Georgia at Augusta University	Augusta, GA
Postdoctoral Fellow - Immunology Center of Georgia	Immunology Center of Georgia at Augusta University	Augusta, GA



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