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2023 Stephen Schwartz Award Recipient



Luisa Iruela-Arispe Recognized with 2023 Stephen Schwartz Award for Outstanding Mentorship

Congratulations to Luisa Iruela-Arispe, the 2023 recipient of the Stephen Schwartz Award. This award honors Dr. Stephen Schwartz, a co-founder of NAVBO and devoted mentor, and recognizes a mentor who has contributed significantly to the successful career of their scientist trainees. Dr. Iruela-Arispe, the Stephen Walter Ranson Professor of Cell Biology and Chair of the Department of Cell and Developmental Biology at Northwestern University, has trained dozens of doctoral students and post-docs whose careers in academia, publishing, and industry have flourished. In the words of a trainee: "Luisa's mentoring philosophy is built on the foundation of strong communication and respect for the individual. She goes above and beyond for her trainees and truly makes an effort for them to feel seen and heard." Dr. Iruela-Arispe will receive the Schwartz Award in October at VB2023 in Newport, RI. [\[Read More\]](#)

2023 Florence E. Sabin Award Recipient



Naomi Chesler to Receive 2023 Florence R. Sabin Award

In this issue...

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**VASCULAR
CROSSTALK**



BY NAVBO

Meetings/Events

Dr. Naomi Chesler, Chancellor's Inclusive Excellence Professor in the Department of Biomedical Engineering at UC-Irvine and a member of NAVBO's DEI committee, has been named as the 2023 recipient of the Florence R. Sabin Award. The award recognizes an individual who embodies the spirit of Dr. Florence Sabin, who broke scientific and social barriers with her research and community engagement. Dr. Chesler has made significant contributions to the scholarship of inclusive teaching and mentorship at her academic homes and across her professional networks. Her work has been recognized by numerous mentoring awards from her professional organizations, evidence of her far-reaching impact. The Sabin Award will be presented to Dr. Chesler at VB2023 in Newport, RI, in October. Read more about Dr. Chesler's accomplishments here. [\[Read more\]](#)

Vasculata 2023 in New Orleans



See the Preliminary Program - <https://navbo.org/vasculata>

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.

New Lectures have been added - see the updated program at <https://navbo.org/vasculata>.

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

Vascular Biology 2023



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

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

Lots of opportunities for trainees at Vascular Biology 2023!

- Pre-Conference Meeting for Trainees - *Sunday, October 15, from 1:00-5:00pm. Organized by Tendai Hunyenyiwa, Medical College of Wisconsin and Heena Kumra, Massachusetts General Hospital/Harvard Medical School*
- Travel Awards
- Outstanding Poster Awards
- Childcare Grants
- Career Development Panel Discussions
- Ambassador program for new members and first time attendees (you can volunteer to be an ambassador or request an ambassador)
- Lead Poster Discussions
- Many trainee abstracts will be selected for short talks

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

Super Early Bird registration ends on June 30!



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



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**Register early to save big!!!!
Early Bird will end August 31**

Abstract submission deadline is August 1, 2023!
Submit your abstract here

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

Deadlines Coming Soon!!

Travel Awards Available

NAVBO is sponsoring Travel Awards for our trainee members to attend the following conferences:

- GRC on Angiogenesis and Angiostability in Development, Disease and Engineered - **applications due July 3, 2023**
- GRC on Biomechanics in Vascular Biology and Disease: Integrating Vascular Mechanics, Biology and Medicine - **applications due July 7, 2023**
- 5th Annual Gulf Coast Vascular Research Consortium - **applications due July 1, 2023**

For more information, go to <https://www.navbo.org/trainee-awards/> and click on the "Travel Awards - Other" tab.

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](#)

CDD Update

NIH Cardiovascular Differentiation and Development Study Section to become Special Emphasis Panel

Beginning with upcoming June/July 2023 NIH application deadlines, with first review dates in Sept/Oct 2023, Cardiovascular Differentiation and Development (CDD) Special Emphasis Panel (SEP) ZRG1 CDD 81 will replace the CDD standing study section. In the near future, ZRG1 CDD 81 will participate in the Center for Scientific Review's ENQUIRE process, which functions to align the review infrastructure with advances in science. Per [NIH's announcement](#): "The ZRG1 CDD 81 Special Emphasis Panel reviews basic research applications related to development and differentiation of cardiovascular systems that include heart, vascular and lymphatics. Experimental approaches and technologies typically include, but are not limited to cellular, molecular, genetic, genomic/proteomic and use of transgenic models. Studies utilize varied experimental model systems including mouse, chick, zebrafish, xenopus and drosophila, among others. ZRG1 CDD 81 reviews molecular and genetic studies of human cells and tissues as well as the evaluation of bioengineered cells and tissues in the context of cardiac, vascular or lymphatic systems." Many thanks to NIH Respiratory, Cardiac and Circulatory SRO Sara Ahlgren and NAVBO President Chris Hughes for helping to bring this change to the attention of NAVBO members who target CDD for grant review. Please contact Dr. Ahlgren (sara.ahlgren@nih.gov) for more information.

Nominate a Colleague by July 15



Earl P. Benditt

This award recognizes an individual who has made an outstanding discovery or developed a concept that has



Judah Folkman

This award recognizes an individual at mid-career, who has made a significant impact on the



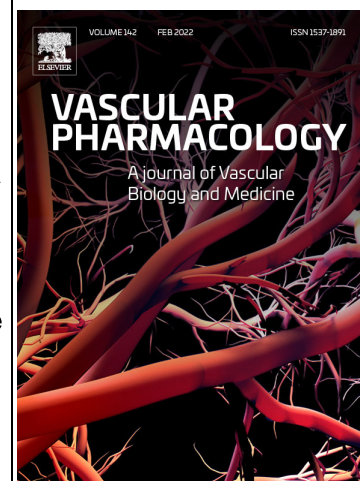
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Event Partners



Contributors



AAAS

been seminal to our understanding of vascular biology or pathology.

field through his/her original research accomplishments.

More information, and the application forms, are [available on our web site](#).

Member News

Welcome to our New Members:

Huajun Bai, Children's Hospital of Philadelphia
Rhonda Drewes, University at Buffalo
Wendy Espinoza Camejo, The Johns Hopkins University School of Medicine
Apurva Gahankari, Tulane University
Ajay Kumar, University of Maryland Baltimore
Laurel Lee, Brigham and Women's Hospital
ivian Lee-Kim, Brigham and Women's Hospital
Allan Kardec Nogueira de Alencar, Tulane University
Suellen Darc Oliveira, University of Illinois at Chicago
Amitabh C. Pandey, Tulane University School of Medicine
Kailash N Pandey, Tulane University Health Sciences Center
Le Gia Cat Pham, Albany Medical College
Maryann Platt, Yale University
Nathalie Reinhard, Novartis Institutes of Biomedical Research (NIBR)
Chase Richard, Tulane University
Shaligram Sharma, Georgia State University
Anton Smith, The University of Nottingham
Lauren Smith, University of Maryland, College Park
Utsab Subedi, LSU Health Sciences Center Shreveport
Xenia Tigno, ORWH/NIH
Nikolaos Tsoukias, Florida International University
Ying Wu, Tulane University
Qi Zhou, Tulane University
Janet Zoldan, The University of Texas at Austin

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

Lab of the Month



Lab of the Month - June 2023

The Lab of Dr. Arndt Siekmann

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

NAVBO Committees

NAVBO is currently recruiting members for its Communications, Communities, Diversity, Equity and Inclusion, Education, and Membership Committees. These committees offer their members numerous opportunities to engage with fellow NAVBO members.

If you are interested in getting more involved with NAVBO, there are many opportunities. Details and descriptions of each committee are included at the top of the application form.

Complete this form.

Please note - Membership in a committee is limited to active NAVBO members.

Spotlight on Trainees

3-Minute Thesis competitions gain worldwide popularity

Does your [institution participate in the 3-Minute Thesis](#) (3MT) competition? The 3MT was born in 2008 at the University of Queensland in Australia to help students develop their academic, presentation, and research communication skills, by challenging them to effectively explain orally their research in three minutes with only one projected visual aid. In the US, the winners of each

Participating Societies

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American Society for Investigative Pathology



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VASCULAR BIOLOGY
ORGANISATION



The Japanese Vascular Biology and
Medicine Organization



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INTERNATIONAL SOCIETY FOR
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Cardiovascular
Biology



Guests



BMVBS
British Microcirculation &
Vascular Biology Society



institution's 3MT competition can move to lively regional and national-level "playoffs" hosted at Graduate School professional organization conferences. Buoyed by our collective leaps into real-time, online conferencing during the coronavirus pandemic, 3MT has developed a robust virtual competition platform offering alongside the traditional live, in-person versions. Currently, more than 900 universities across more than 85 countries worldwide have adopted the 3MT. Check it out!

Recent Member Publications

Genetic Deletion of FXR1 Reduces Intimal Hyperplasia and Induces Senescence in Vascular Smooth Muscle Cells

The American Journal of Pathology

Vascular smooth muscle cells (VSMC) play a critical role in the development and pathogenesis of intimal hyperplasia indicative of restenosis and other vascular diseases. Fragile-X related protein-1 (FXR1) is a muscle-enhanced RNA binding protein whose expression is increased in injured arteries. [Read More](#)

Repetitive schistosoma exposure causes perivascular lung fibrosis and persistent pulmonary hypertension

Clinical Science

Background: Pulmonary hypertension (PH) can occur as a complication of schistosomiasis. In humans, schistosomiasis-PH persists despite antihelminthic therapy and parasite eradication. We hypothesized that persistent disease arises as a consequence of exposure repetition. [Read More](#)

Nitric oxide synthase and reduced arterial tone contribute to arteriovenous malformation

Science Advances

Mechanisms underlying arteriovenous malformations (AVMs) are poorly understood. Using mice with endothelial cell (EC) expression of constitutively active Notch4 (Notch4*EC), we show decreased arteriolar tone in vivo during brain AVM initiation. [Read More](#)

Effects of Interleukin-4 (IL-4)-releasing microparticles and adoptive transfer of macrophages on immunomodulation and angiogenesis

Biomaterials

Macrophages are major regulators of angiogenesis in response to injury, but the mechanisms behind their diverse and phenotypically specific functions are still poorly understood. In particular, the effects of interleukin-4 (IL-4) on macrophage behavior have been well studied in vitro, but it remains unclear whether the release of IL-4 from biomaterials can be used to control macrophage phenotype and subsequent effects on angiogenesis in vivo. [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 Research Career Enhancement awards deadline extended to June 16th

The American Physiological Society is soliciting applications for two award mechanisms available to APS members. The [APS Teaching Career Enhancement Award](#) of up to \$10,000 allows a member to develop innovative and potentially widely applicable programs for teaching and learning physiology. The [John F. Perkins, Jr. Research Career Enhancement Award](#) of up to \$20,000 allows a member in the early phases of their career to obtain special training or a member in the later phases of his/her career to develop new skills or retrain in areas of developing interest. Both awards can support visits to other institutions to acquire specific new skills or support attendance at special courses devoted to instructional methodologies.

Monica Bertagnolli nominated to become Director of the NIH

The [White House has announced](#) President Biden's intent to nominate Dr. Monica Bertagnolli, who currently serves as Director of the National Cancer Institute, as Director of the NIH. Dr. Bertagnolli, a world-renowned surgical oncologist, cancer researcher, educator, and physician-leader, will be tasked with providing the vision and leadership needed to deliver on NIH's mission to seek fundamental knowledge and promote human health. Dr. Bertagnolli was previously the Richard E. Wilson Professor of Surgery at Harvard Medical School, an oncologic surgeon at Brigham and Women's Hospital, and a member of the Gastrointestinal Cancer Treatment and Sarcoma Centers at Dana-Farber Cancer Institute. She served as group chair of the Alliance for Clinical Trials in Oncology, a National Clinical Trials Network member organization, and was the Chief Executive Officer of Alliance Foundation Trials, LLC, a not-for-profit corporation that conducts international cancer clinical trials and focuses on the inclusion of rural communities in clinical studies. Dr. Bertagnolli is a member of the National Academy of Medicine, a past president and chair of the board of directors of the American Society of Clinical Oncology, and has served on the board of directors of the American Cancer Society and the Prevent Cancer Foundation.

Communicating science effectively across the social media abyss



Academic
Summa Cum Laude



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CARDIOVASCULAR MEDICINE

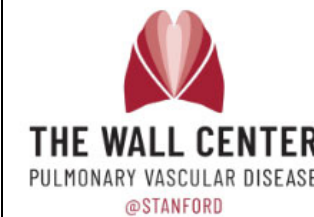


Magna Cum Laude

Northwestern Medicine
Feinberg School of Medicine



Cum Laude



Contributors



Exhibitors



Interviewed in the May 16 issue of *Issues in Science and Technology*, ethicist Tristan Harris discusses a variety of hazards of modernity: online misinformation, the challenge of governing AI, and how technology could strengthen democracy. Asked whether scientific information can be effectively communicated in the current online environment, Harris noted the limits to what change individuals can accomplish by being nuanced and factual, given the impact of social media-based algorithms that governs content we encounter online – a consequence of the design and business model of social media platforms. Regarding artificial intelligence, Harris offers: “[H]ow are we going to do AI ethics and design ethics for technology? The most obvious thought is we need a Hippocratic oath for technologists—a ‘do no harm’ oath. We need the equivalent of a white lab coat. But ethical training doesn’t get you all the way to the level of responsibility we would need.”

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

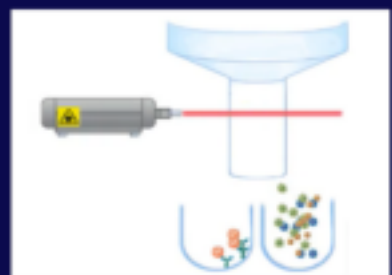
This program is supported by the National Heart, Lung, and Blood Institute (NHLBI).

Contact us: radiance@wustl.edu

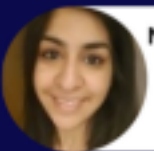
[Click here for more information.](#)

Call for Papers/Proposals

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

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biomolecules
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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

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

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

June 8, 2023	InFocus - Cardiac Endothelial Cells
June 13 - 17, 2023	Lymphatic Forum 2023
June 18 - 23, 2023	GRC - Molecular Mechanisms, Genomic Modifiers and Emerging Therapies

Kent Scientific CORPORATION



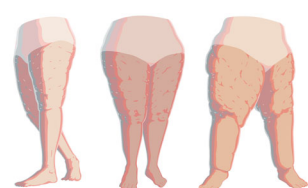
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Affiliated Journals

June 27, 2023	Symposium: Angiogenesis
July 17 - 20, 2023	Vasculata 2023
July 23 - 28, 2023	Gordon Research Conferences 2023 on Elastin, Elastic Fibers, and Microfibrils
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
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](#)

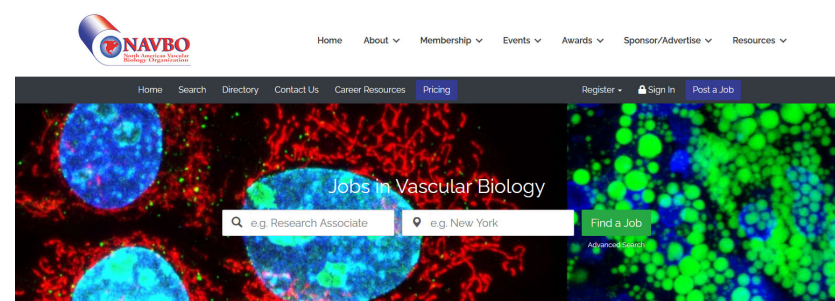
Job Postings

Research Professor/Postdoctoral fellow in Cardiovascular Research	Florida International University	Miami, FL
Postdoctoral Fellow	University of Illinois at Chicago	Chicago, IL
Associate Senior Lecturer in Vascular Biology	Uppsala University	Uppsala, Sweden
Postdoctoral Fellow, Lung Homeostasis and Aging - Gillich Lab	Calico Life Sciences	South San Francisco, CA
Schepens Eye Research Inst/Harvard Med School	Postdoctoral fellowship	Boston, MA



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