

August 25, 2022



NewsBEAT

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CellBiologics
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Early Bird Deadline Ends August 31

Save \$\$\$\$\$

Register Now!

The IVBM features three Keynote Lectures:



Thursday, October 13 -

The EMBO Keynote Lecture: Molecular anatomy of the vasculature

Christer Betsholtz, Ph.D.

Professor of Vascular and Tumor Biology, Uppsala University and Professor of Vascular Biology, Karolinska Institute

Friday, October 14 -

Keynote Lecture: Traveling the Path to Immune Tolerance

Jeffrey Bluestone, Ph.D.

A.W. and Mary Margaret Clausen Distinguished Professor of Metabolism and Endocrinology
Director, Hormone Research Institute in the Diabetes Center
University of California, San Francisco

Saturday, October 17 -

Keynote Lecture: Neurovascular crosstalks in the aging heart

Stefanie Dimmeler, Ph.D.

Professor of Experimental Medicine
Director of the Institute of Cardiovascular Regeneration
Center for Molecular Medicine, University of Frankfurt

Other highlights include Award Lectures and Presentations, Eye-Opener Sessions for Trainees, and Roundtables on Diversity, Equity and Inclusion

**Hotel reservation cut-off is September 13!
or when the room block is filled
Reserve your room soon!**

NAVBO has secured a room rate of \$229 a night. For more information about the **Oakland Marriott City Center**, go to our web page: <https://www.ivbm2022.org/hotel/>

In this issue...

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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](#))

Webinar Series



Did you know?

We've Improved the Career Center!

Simply log in using your NAVBO login (same one you use to access the Member Portal) and the job board will recognize you as an active member and automatically give you the correct member pricing. If your membership expired, you'll be able to log in, but you will not receive the member pricing. **Renew and save money on your job postings! Post an open position today!**

30-day postings are free for NAVBO members
(a savings of \$200)

The Member Portal Makes it Easy for NAVBO Members to:

- Register for an online event or upcoming conferences quickly
- Easily see events for which you have registered
- Access your data and update your profile
- Renew your membership, check your current status, print invoices or receipts



View the full program at <https://ivbm2022.org/program>

Please note that the IVBM is an in-person meeting.

Follow the IVBM on Social Media!



Lab of the Month



Lab of the Month - August 2022

The Lab of Dr. Zolt Arany

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

NAVBO's Going Back to High School

Engaging High School Students in Vascular Biology – How you can help!

We, in the NAVBO community, can all agree that there is a need to empower and engage the next generations of students with vascular biology basics. This knowledge will enable them to increase their critical thinking, improve their scientific literacy, and promote their perception of cardiovascular health as both necessary and relevant. Yet, this exciting field is minimally touched upon in high school and undergraduate biology textbooks or in online resources. It is a missed opportunity to introduce and stimulate students' interest in vascular biology research where they could potentially identify causes and develop new tools and treatments for vascular disease. The NAVBO Education Committee is trying to fill this gap.

Five years ago, the Education Committee began addressing the need at the high school level. Our initial step was to develop PowerPoint learning modules covering various aspects of basic and clinical vascular biology to provide teachers and students with tools to advance vascular biology learning in the classroom. Our next step is to further develop the material into high quality educational lessons/presentations online tools, and resources. The timing is right; teachers and students have learned the value of online learning. Currently, the committee is looking for suitable extramural funding mechanisms that will enable us to move this project forward. The funding would be used to produce and distribute these learning modules.

This is where we need your input. Please let us know of any resources (funding agencies, foundations, etc.) that could be beneficial in moving our goals forward OR any suggestions as to how we can best disseminate the learning tools, particularly to underserved geographic areas in the United State. If you have an interest in contributing to this project in any capacity, we welcome it. Please contact Sharon DeRosa Smolen (sharon@navbo.org) with your suggestions or interest in helping.

NAVBO Mentor Match



Take Advantage of the NAVBO Mentor Match Program

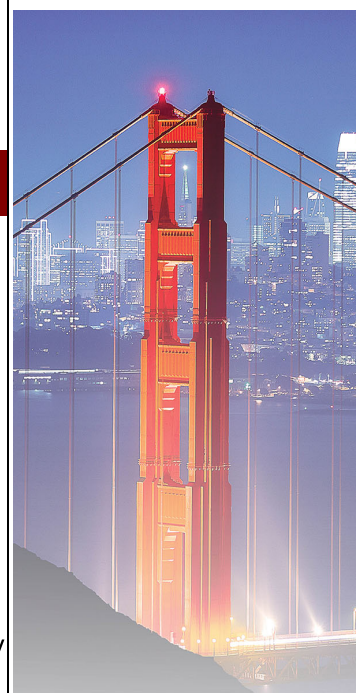
NAVBO is providing our community with a mentor-mentee matching program. Mentors must be NAVBO members. If someone is interested in enrolling as a mentee and is not a NAVBO member, contact Danielle (membership@navbo.org).

- Search the Directory for other NAVBO members
- Use Research Categories to find those with like interests
- Connect directly to the Vascular Network and our Career Center



There's an app for that!

Download the **MemberPlus** app to register for events, find other NAVBO members and access resources such as the **Career Center** and the **NAVBO Academy** on your phone or tablet. **Go to the App Store or Google Play.**



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.

Corporate Support Diamond Level



When you enroll, select the area in which you would like to concentrate on - managing a lab, looking for a postdoc position, diversity and inclusion, developing a research program, life balance, etc. The system will make mentor suggestions to mentees and mentees can reach out to suggested Mentors.

Find out more about the program within the Vascular Network
- <https://community.navbo.org/mentoring>

Member News

NAVBO members are well-represented among the authors of top-scoring articles appearing in the journal *Angiogenesis*, published by Springer. According to metrics released on the occasion of the 10th anniversary of the journal, the most highly downloaded article of 2021 was "Endothelial cell plasticity at the single-cell level," co-authored by members **Alessandra Pasut** and **Peter Carmeliet** and their colleagues. Member **Anna Randi's** publication titled "COVID-19 is a systemic vascular hemopathy: Insight for mechanistic and clinical aspects" led the way as most Highly Mentioned in Social Media. Hearty congratulations to our members for their high-profile publications and to Springer and *Angiogenesis* for their success and strong citation impact!

Welcome to our New Members:

Alexis Abigail Albuero, University of California San Francisco
Pietro Maria Bertelli, Queen's University Belfast
Kui Cui, Boston Children's Hospital/ Harvard Medical School
Amanda Doran, Vanderbilt University Medical Center
Elvira Forte, Springer Nature
Anna Golebiewski, University of Arizona
Nadia Jahroudi, University of Alberta
Hillary Le, OHSU
Stephanie Lindsey, UC San Diego
Lakyn Mayo, UCSF
Kiran Mcloughlin, Queen's University Belfast
Amreen Mughal, University of Vermont
Hyojin Park, Yale University
Ying Shen, Baylor College of Medicine
Mengcheng Shen, Stanford University
Karthikeyan Thirugnanam, Medical College of Wisconsin
Yin Tintut, University of California, Los Angeles
Ksenia Yrigoin, University of South Florida
Li Zhang, UCLA
Changcheng Zhou, University of California, Riverside

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

Spotlight on Trainees

National Postdoc Appreciation Week, September 19-23, 2022

The National Postdoctoral Association (NPA) is pleased to announce the thirteenth celebration of [National Postdoc Appreciation Week](#). The NPA has sponsored this event since 2009 in recognition of the impactful contributions that postdoctoral scholars make to U.S. research and discovery across multiple disciplines. Institutions nationwide and from other parts of the world can participate by holding local events suited to their setting and circumstances during the week of September 19-23. In 2010, this week was officially recognized by the U.S. House of Representatives. Events seek to create broader awareness of the important role played by postdocs in the scholarly enterprise. This year also will mark the third virtual, multi-institutional NPAW celebration, spawned by the necessity to connect postdocs while the world was interacting largely virtually. Virtual events planned include a special keynote event to kick off NPAW, followed by networking events later in the week. NPA organizers invite [submission of possible program events](#) to open to postdocs from across the world.

Originally published in August 11 issue

Recent Member Publications

Endothelial Rbpj Is Required for Cerebellar Morphogenesis and Motor Control in the Early Postnatal Mouse Brain

The Cerebellum

Intercellular influences are necessary for coordinated development and function of vascular and neural components in the brain. In the early postnatal period after birth, the mammalian cerebellum undergoes extensive morphogenesis — developing its characteristic lobules, organizing its diverse cell types into defined cellular layers, and establishing neural circuits that support cerebellar function, such as coordinated movement. [Read more](#)

Protein disulfide isomerase A1 as a novel redox sensor in VEGFR2 signaling and angiogenesis

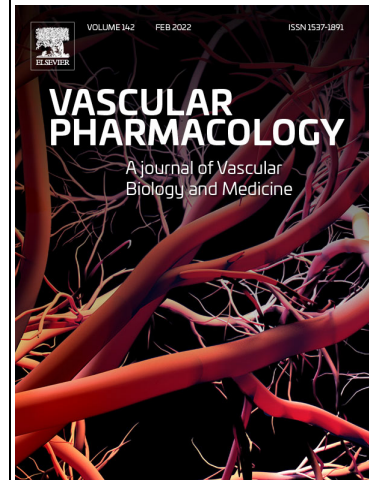
Angiogenesis

VEGFR2 signaling in endothelial cells (ECs) is regulated by reactive oxygen species (ROS) derived from NADPH oxidases (NOXs) and mitochondria, which plays an important role in postnatal angiogenesis. However, it remains unclear how highly diffusible ROS signal enhances VEGFR2 signaling and reparative angiogenesis. [Read more](#)

If you have a recent paper that you would like to share with NAVBO NewsBEAT subscribers, send the title and link to



Event Partners



Contributors



Participating Societies Partners



membership@navbo.org. Please note, only papers authored by current NAVBO members are accepted for inclusion.

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/BecomeAReviewer/ECR>

Questions are welcome – CSREarlycareerreviewer@mail.nih.gov

Industry News

Early-stage NIH investigator funding on the rise

Writing in the [extramural NEXUS](#), the NIH's Mike Lauer reports an all-time high in the funding of [early-stage investigators \(ESIs\)](#) as first-time PIs on R01-equivalent awards. The 1,513 new ESIs supported via R01 in FY21 surpasses the 1,412 notched in FY20 and crowns the steady growth seen since adoption of [NIH's Next Generation Researchers Initiative \(NGRI\)](#) five years ago. This effort has sought to address longstanding challenges faced by researchers trying to launch and sustain independent research careers, and to take steps to promote the growth, stability and diversity of the biomedical research workforce.

OHRP plans New Frontiers in Human Subjects Research conference in September

The NIH's Office for Human Research Protections, in conjunction with Indiana University, is organizing a [Research Community Forum](#) on a variety of aspects of human subjects research, September 20-21, 2022, in suburban Indianapolis. The conference will feature keynote, plenary, and breakout sessions addressing challenges facing human research protection programs, including an exploration of the IRB's role in promoting diversity, equity, and inclusion in research, ethical challenges in review of AI research, and the institution's role in handling detrimental research practices.

NIH Common Fund ideas sought

The Office of Strategic Coordination at the NIH has issued [NOT-RM-22-016](#), inviting the submission of new [Common Fund](#) ideas that fit one of the Fund's designated categories (Transformational Science and Discovery; Catalytic Data Resources; Re-engineering the Research Enterprise). A small group of submitted ideas (due September 30, 2022) judged by NIH staff to best meet established criteria and have the highest potential to be selected as Common Fund programs will be provided to senior NIH leaders for further consideration.

Originally published in August 11 issue

Summer Programs



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 . . .](#)



The Japanese Vascular Biology and
Medicine Organization



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Vascular Biology Society



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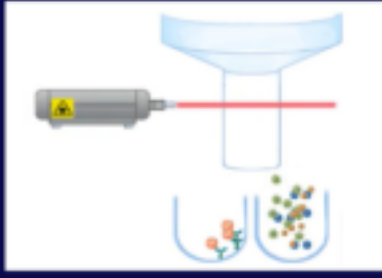
Suma Cum Laude

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 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>

frontiers in Cardiovascular Medicine
Impact factor: 6.05

frontiers in Pediatrics
Impact factor: 3.418

Molecular Mechanisms Underlying Single Ventricle Defect



Yifei Miao, Cincinnati Children's Hospital Medical Center, United States
Shuyi Nie, Georgia Institute of Technology, United States
Mingtao Zhao, Nationwide Children's Hospital, United States

Topic Editors

Molecular Mechanisms Underlying Single Ventricle Defect hosted by Drs. Yifei Miao (Cincinnati Children's Hospital Medical Center), Shuyi Nie (Georgia Institute of Technology), and Mingtao Zhao (Nationwide Children's Hospital).

Single ventricle defects (SVD) are among the most complex congenital heart problems and manifest as the underdevelopment of one heart chamber and associated valvular structures. We have organized a special issue on **Frontier in Pediatrics and Cardiovascular Medicine** to collect the current progress into understanding the molecular contributions to SVD.

For more information or to submit an abstract, please email us or use this link: <https://www.frontiersin.org/research->



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HOSPITAL
CARDIOVASCULAR MEDICINE

UIC UNIVERSITY OF ILLINOIS
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Magna Cum Laude



Cum Laude



THE WALL CENTER
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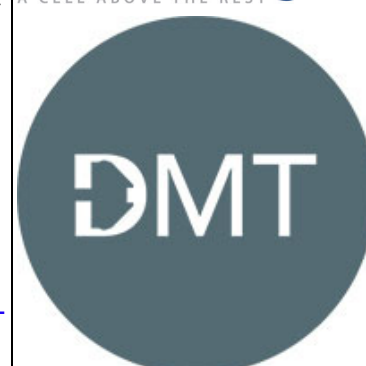
Exhibitors



Quantifying Cell Behavior



A CELL ABOVE THE REST

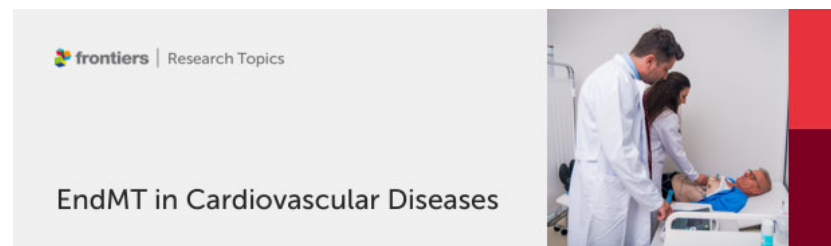


FLUXION



VISUALSONICS





“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

Calendar of Events

August 25, 2022	InFocus - Vascular Signaling and Crosstalk
September 1, 2022	Webinar Featuring Dr. Maya Elise Kumar
September 6, 2022	"Integrating Health Equity in Medical Education: the Time is Now" : A DEI Seminar with Dr. Nada Fadul
Sept. 15, 2022	Journal Club - September 15, 2022
Sept. 17 - 20, 2022	12th International Kloster Seeon Meeting "Angiogenesis": Molecular Mechanisms and Functional Interactions
Sept. 28 - Oct. 1, 2022	18th Biennial ISACB Meeting
October 13 - 17, 2022	22nd International Vascular Biology Meeting
October 20, 2022	International Symposium on Retinal and Choroidal Angiogenesis
October 24 - 27, 2022	Critical Issues in Tumor Microenvironment: Angiogenesis, Metastasis and Immunology
Oct. 30 - Nov. 4, 2022	The 2022 Gordon Research Conference on Lymphatics
Jan. 31 - Feb. 3, 2023	VAC 2023

[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
Post-Doctoral Fellowship	National Institutes of Health/NICHD	Bethesda, MD
Postdoctoral Fellow Position	Cleveland Clinic Lerner Research Institute	Cleveland, OH

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30-day postings are free for NAVBO members
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