



NewsBEAT

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2022 Springer Award



Delphine Gomez Named 2022 Recipient of the Springer Junior Investigator Award

Congratulations to **Delphine Gomez, Ph.D.**, Assistant Professor of Medicine, Cardiology Division, University of Pittsburgh. Join us at the 22nd International Vascular Biology Meeting, where she will present her talk, "*H3K4me2 regulates microvascular SMC recruitment and coverage during hindlimb ischemia-induced angiogenesis*," on Sunday, October 16th at 2:00PM in the East Hall of the Oakland Marriott City Center.

Join us at the IVBM!

Don't Miss Out - Attend IVBM2022!



Workshops at the IVBM



Ultrasound and Photoacoustic Imaging Approaches to Vascular Research



Miltenyi Biotec
3D Visualization of Vasculature Using Light Sheet Microscopy



Vasculature-on-Chip Applications for Drug



Multimodality imaging – The key to answering

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](#))



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

Discovery Research critical biologic questions

More information is on the web site:
<https://ivbm2022.org/workshops>

Career Fair at the IVBM

Employers "buy space"
in the meeting's mobile app and
upload your job openings

Candidates view job openings in the app
and choose appointments to meet
one-on-one with recruiters

More information is on the web site:
<https://www.ivbm2022.org/career-fair/>



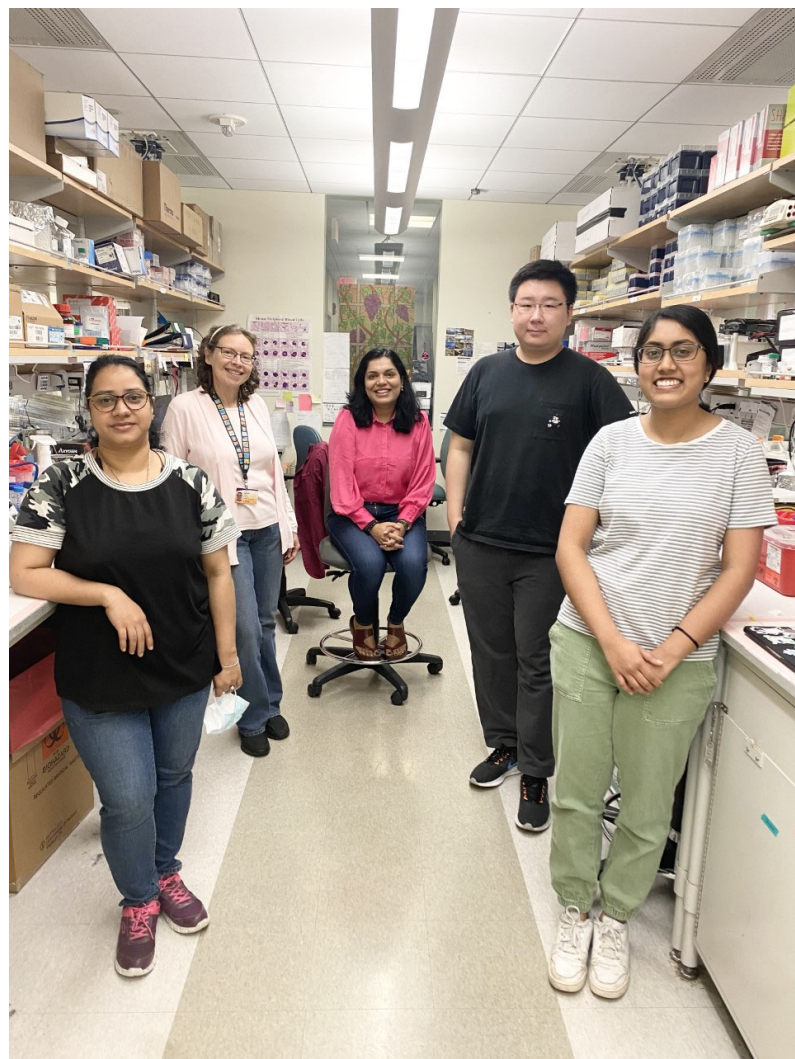
View the full program at <https://ivbm2022.org/program>

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

Follow the IVBM on Social Media!



Lab of the Month



Lab of the Month - September 2022 The Lab of Dr. Tirthadipa Pradhan-Sundd

This month we are highlighting the lab of Dr. Tirthadipa Pradhan-Sundd, Assistant Professor at the University of Pittsburgh. Find out more about her lab by visiting [her page](#) in our Lab of the Month listing.

Committee Recruitment

NAVBO

Home Communities Events Browse Participate

Welcome to the Vascular Network

A network of communities, designed by and for you, serves as a dynamic virtual vascular biology research environment that aims to facilitate your research needs.

[Learn More](#)

Explore
Discover communities to enrich your experience and learning opportunities.
[More >](#)

Connect
Find others with whom you may seek advice and share common challenges.
[More >](#)

Engage
Join in discussions with your peers and industry leaders to expand your knowledge.
[More >](#)

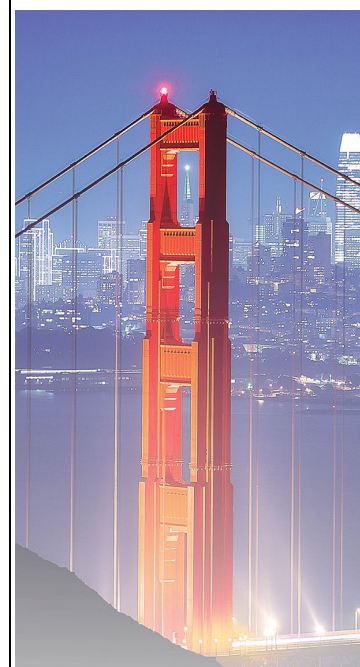
[Recent Activity](#) [Quick Links](#)

- Access your data and update your profile
- Renew your membership, check your current status, print invoices or receipts
- 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



Gold Level Partner

Seeking Members for our Communities Committee

Our Communities Committee, led by Drs. Henar Cuervo Grajal and Morgan Salmon, engage members in conversation and collaboration.

If you would like to become more active in NAVBO, please consider joining this committee. Members of this committee pose questions and start community-wide conversations to tap into NAVBO's most important resource - its members!

Interested? Contact [Dr. Cuervo](#) or [Dr. Salmon](#).

Visit the Vascular Network Community - <https://community.navbo.org>

NAVBO Business Meeting

We will hold the NAVBO Membership Business Meeting online.

Current NAVBO members - ***please mark your calendars for October 27th at 1:00pmET*** for the NAVBO Membership Business Meeting. A link will be emailed to members.

Join NAVBO President Christopher Hughes and the NAVBO Council for up to date information on NAVBO activities, financial status, awards, membership and upcoming meetings. The meeting usually takes 30 minutes.

Member News

Welcome to our New Members:

Anmol Banerjee, Yale School of Medicine
Neil Goldenberg, Hospital for Sick Children, University of Toronto
Roeben Munji, University of California San Diego
David Patrick, Vanderbilt University Medical Center
Satyamaanasa Polubothu, University College London
Monica Romero Lopez, Genentech
Sriharsha Talapaneni, UCLA
Yan Zhao, UCLA

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

Spotlight on Trainees

Tips and tools for success as a scientist

The Office of Intramural Training & Education at the NIH is offering, under the heading of "[Becoming a Resilient Scientist](#)," a series of webinars and small group discussions intended to help trainees develop the tools needed to navigate challenging situations in their professional and personal lives. The series of five webinars, each linked to a drop-in small-group discussion the following week, highlight strategies needed for academic success and for thriving in research and healthcare careers. The webinars, whose topics include wellness, self-advocacy, and optimizing mentoring relationships, are scheduled between early September and mid-November of 2022.

Originally published in September 8 issue

Recent Member Publications

Rab35 governs apicobasal polarity through regulation of actin dynamics during sprouting angiogenesis

Nature Communications

In early blood vessel development, trafficking programs, such as those using Rab GTPases, are tasked with delivering vesicular cargo with high spatiotemporal accuracy. However, the function of many Rab trafficking proteins remain ill-defined in endothelial tissue; therefore, their relevance to blood vessel development is unknown. [Read more](#)

Single-Cell Transcriptomic Census of Endothelial Changes Induced by Matrix Stiffness and the Association with Atherosclerosis

Advanced Functional Materials

Vascular endothelial cell (EC) plasticity plays a critical role in the progression of atherosclerosis by giving rise to mesenchymal phenotypes in the plaque lesion. Despite the evidence for arterial stiffening as a major contributor to atherosclerosis, the complex interplay among atherogenic stimuli in vivo has hindered attempts to determine the effects of extracellular matrix (ECM) stiffness on endothelial-mesenchymal transition (EndMT). [Read more](#)

Cre toxicity in mouse models of cardiovascular physiology and disease

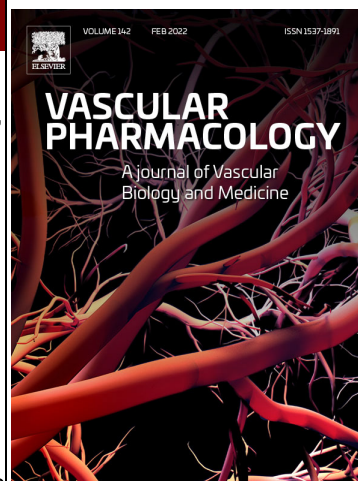
Nature Cardiovascular Research

The Cre-LoxP system provides a widely used method for studying gene requirements in the mouse as the main mammalian genetic model organism. To define the molecular and cellular mechanisms that underlie cardiovascular development, function and disease, various mouse strains have been engineered that allow Cre-LoxP-mediated gene targeting within specific cell types of the cardiovascular system. [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.



Event Partners



Contributors



Participating Societies Partners



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

AAAS and The BioInnovation Institute team to reward translational research

The [BioInnovation Institute \(BII\) and Science Prize for Innovation](#) is now accepting applications. This award seeks to encourage scientists to translate their research, asking fundamental questions at the intersection of the life sciences and entrepreneurship. Three winners will have their essays published in Science and will be invited into BII's "entrepreneurial ecosystem." In addition, the Grand Prize winner will receive a prize of USD 25,000 and each runner-up will receive USD 10,000 at a grand award ceremony in Copenhagen, Denmark. Applications, including a 1000-word essay describing the applicant's innovative work, are due November 1, 2022.

Legal tussle begins over SARS CoV-2 mRNA vaccine intellectual property

As [reported in The New York Times](#), vaccine manufacturer Moderna has sued Pfizer and BioNTech, alleging that its competitors had infringed Moderna's patents covering mRNA vaccine technology. The legal challenge portends a costly and extended battle between the firms that led the way in developing innovative coronavirus vaccines that benefitted millions and provided a stunning proof of principle for the efficacy of mRNA-based vaccines. Profits and industry dominance hang in the balance, although Moderna maintains that the suit would not hinder access to COVID vaccines or the development of new mRNA products.

NIH loan repayment programs offer debt relief and career continuity

The high cost of professional education and training in medicine and clinical specialties has compelled some investigators to abandon their research careers in favor of more lucrative positions in the private sector or private medical practice. To help retain highly qualified health professionals in biomedical research careers, the US Congress has established a set of [NIH Loan Repayment Programs](#) that enable defrayment of up to \$50,000 annually of a researcher's qualified educational debt, in exchange for a commitment to engage in NIH mission-relevant research. The online application submission window for this year's Extramural New & Renewal Awards is open until November 17, 2022.

Originally published in September 8 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.



Sponsors



Guests



Academic

Suma Cum Laude

Space is limited for the mentored program starting summer 2022. **Apply early!**

[Learn more . . .](#)

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

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.



BRIGHAM AND WOMEN'S HOSPITAL
CARDIOVASCULAR MEDICINE



Magna Cum Laude



Cum Laude



THE WALL CENTER
PULMONARY VASCULAR DISEASE
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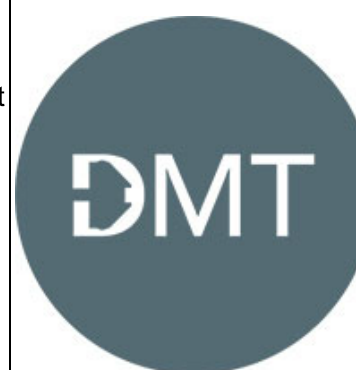
Contributors



Exhibitors



Quantifying Cell Behavior



FLUXION



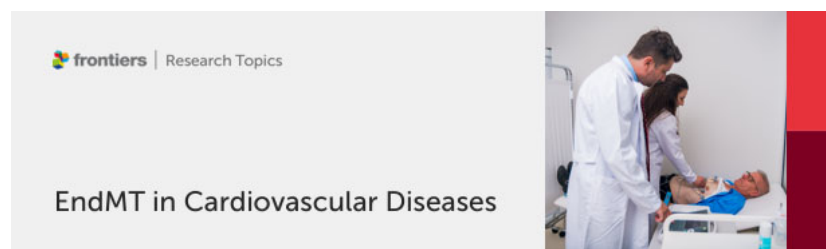
VISUALSONICS



cells in focus



For more information or to submit an abstract, please email us or use this link: <https://www.frontiersin.org/research-topics/37616/molecular-mechanisms-underlying-single-ventricle-defect>



“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

September 22, 2022	InFocus - Endothelium in Disease
September 27, 2022	Symposium: Mitochondrial function in cardiovascular disease
Sept. 28 - Oct. 1, 2022	18th Biennial ISACB Meeting
October 13 - 16, 2022	Career Fair at the IVBM
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
January 7 - 8, 2023	First Regional EVSS Conference
January 15 - 20, 2023	Vascular Complexity, Heterogeneity, and Metabolism in Health and Disease
Jan. 31 - Feb. 3, 2023	VAC 2023

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

TRON

JUNIOR GROUP LEADER (M/F/D)

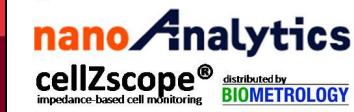
to establish a Research Group on "Modulating inflammation in cardiovascular disease".

Job Postings

Job Title	Company	Location
Postdoctoral fellow/Research Associate-Laboratory of Molecular and Translational Vascular Research	Weill Cornell Medical College	New York, NY
Postdoctoral Fellow Position	Cleveland Clinic Lerner Research Institute	Cleveland, OH
Research Assistant Professor	University of Illinois Chicago	Chicago, IL
Life Science Research Professional 1 - Laboratory Manager	Stanford University	Stanford, CA
Postdoctoral Fellow Position	Johns Hopkins University School of Medicine	Baltimore, MD



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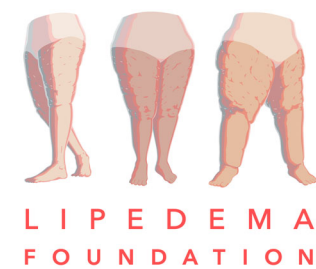
Quantifying Cell Behavior



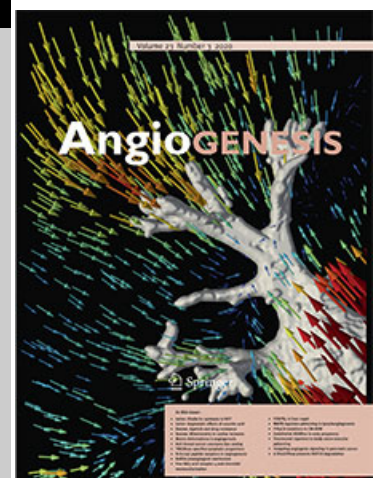
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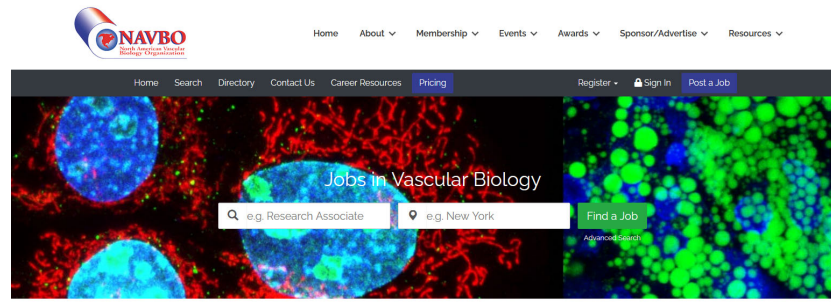
Corporate Members



Affiliated Journals



Cardiovascular
Pathology



Are You An Employer?

[Post a Job!](#)

Post an open position today!

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

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