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Meet Our New President-Elect

**Christopher C.W. Hughes**

Chancellor's Professor in Molecular Biology and Biochemistry and Chancellor's Professor in Biomedical Engineering, UC Irvine

Dr. Hughes received his PhD from the University of London and completed post-doctoral fellowships at Harvard and Yale before starting his own lab at UCI in 1996. There, he has served as Chair of the Department of Molecular Biology and Biochemistry, Director of the Edwards Lifesciences Center for Advanced Cardiovascular Technology in the Henry Samueli School of Engineering, and Co-

Director of the Onco-Imaging and Biotechnology Program, part of the Chao Family Comprehensive Cancer Center.

Dr. Hughes's research focuses on the development and growth of blood vessels, from understanding basic molecular mechanisms of angiogenesis to engineering of artificial tissues. His lab has pioneered "Body-on-Chip" technology that allows vascularized micro-organoids to be grown in the lab, providing improved in vitro models for understanding tissue function. In recognition of his research and publication record, he was elected as a Fellow of the AAAS in 2014.

In addition to his research, Dr. Hughes served for eight years as Chair of the cureHHT organization's Global Research and Medical Advisory Board and now chairs its North American Scientific Advisory Council. Dr. Hughes has been a NAVBO member since the organization was established in 1994. He served on the NAVBO Council from 2015-2018 and on the Program Committee for IVBM 2016. He is on the Scientific Advisory Board for IVBM 2022, in San Francisco.

The Vascular Network

The NAVBO Communities Have Launched!

NAVBO has launched a new community site that we call [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. This network is a means of communicating with the entire NAVBO community simply by sending an email (or posting on the Network web site). It is also a site where you can share documents and other files in community libraries or write a blog. The Open Forum Community will link all NAVBO members. Other communities will be based on members' research interests, career level, attendance at a meeting or a group with which you identify.

Vascular Biology 2021

Abstract Deadline Extended!

Submit your abstract by August 10. We will be accepting abstracts for in-person posters and short talks as well as ePosters. In addition, we will be holding Virtual Poster Sessions.[Submit an Abstract](#)

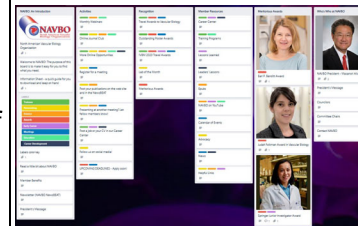
Register for the in-person meeting, which includes access to all virtual aspects of the meeting or register for just the virtual sessions (lectures, ePosters and virtual poster sessions).

[Find out more on our web site.](#)[Register](#)

In this issue...

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NAVBO Quick Overview



Meetings/Events



Webinars - 1st Thursday
Focus Sessions - 2nd and 4th Thursdays
Journal Clubs - 3rd Thursdays
Special Sessions on Tuesdays
 (check schedule)
 Download the NAVBO Events App from the App stores

**Register Now!**



Plan to join us from October 24-28, 2021 at the Asilomar Conference Center in Monterey, California! **Vascular Biology 2021** will feature the Developmental Vascular Biology & Genetics and the Vascular Matrix Biology & Bioengineering Workshops. [See the program on our web site.](#)

NEW! Online Career Development

Career Development Forum: Academic and Faculty Careers (Part One)

Join us for the launch of our new series: **Career Development Forum**. Our inaugural broadcast will feature a discussion about Academic/Faculty Careers with presentations by our panelists: Kathleen Caron, University of North Carolina; Anjelica Gonzalez, Yale University; Patrick A. Murphy, University of Connecticut, and Vinicio de Jesus Perez, Stanford University. Panelists will then answer your pre submitted questions, so be sure to send your questions to CareerForum@navbo.org.

[Click here to register for this Session!](#)

Please help us develop future panels by [taking our survey](#)

Finally, we look forward to seeing you on September 16 as Career Month at NAVBO continues with our Journal Club discussion of the paper "Ten Simple Rules to Becoming a Principal Investigator."

NEW! Mapping the Vasculature

Mapping Knowledge about Human Vasculature Across Body Scales

Join us Tuesday, August 31 at 1:00pmET

Agenda

Ondine Cleaver, UT Southwestern University:

The challenge of managing scientific knowledge about the organotypic vasculature

Zorina Galis, NHLBI/NIH:

From Mapping the Vasculome to Mapping the Human Body. And Back!

Griffin Weber, Harvard Medical School:

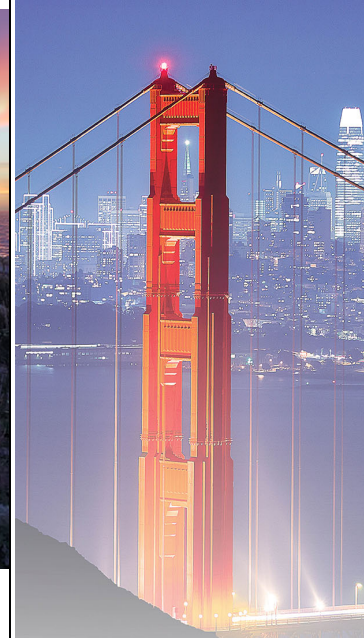
Creating a map of the human blood vasculature: anatomical level and beyond

Discussion

In this exciting session we want to explore new scientific and technological opportunities that allow overcoming the traditional challenge of systematically organizing knowledge of vasculature identity, diversity of structure and function, and its coordination and interactions with all body tissues and organs.

We will share the progress in mapping the vasculature at the anatomical level and in organizing knowledge about a number of human tissues and organs at single cell level through the Anatomical Structures Cell Types and biomarkers (ASCT+B) effort championed by the NIH Common Fund Human BioMolecular Program (NIH HuBMAP), for which NHLBI is a leading institute. All the tools and data generated, including tissue mapping information, are available to the entire scientific community through the HuBMAP Data Portal, encouraging wide scientific interrogation and collaborations.

Do you know what is still missing from the maps of all these human organs??? The organotypic vasculature! Can you imagine a kidney, a heart, or any other organ



22nd International Vascular Biology Meeting
San Francisco Bay Area
October 13-17, 2022



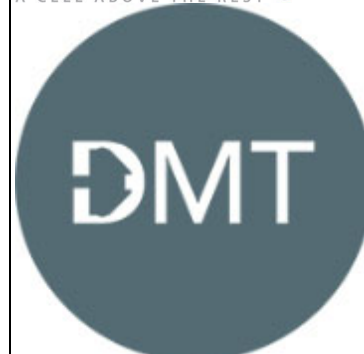
Webinar Series



Corporate Partners



Quantifying Cell Behavior



VISUALSONICS



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without a vasculature? NAVBO is calling upon all vascular experts! Would you like to learn how YOU can help?

[Register](#)

Travel Awards Available for Trainees



4TH ANNUAL MEETING
Gulf Coast Vascular Research Consortium
Travel Awards sponsored by NAVBO



Clinical and Basic Science Poster Awards

Highlighting Vascular Disease And Remodeling



SHREVEPORT CONVENTION CENTER
September 24th & 25th, 2021

Abstract Deadline August 20, 2021
Registration Deadline September 3, 2021
Website <http://lsuhsc.edu/qvrc>

TENTATIVE SCHEDULE

September 24th 9 AM – 12 PM Scientific Session I 1:30 PM – 5 PM Scientific Session II 5 PM – 7 PM Poster Session	September 25th 9 AM – 12 PM Scientific Session III
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Upcoming Journal Club

The August 19 Journal Club at 1:00pm will be presented by **Dr. Alexandra Newman** from New York University. She will present Dr. Peter Carmeliet's article, "Endothelial cell plasticity at the single-cell level" originally published in *Angiogenesis*. [Here is the link to the paper being discussed](#)

This Journal Club will be moderated by Dr. Ke Yuan from Harvard Medical School.

[Register for the August Journal Club here.](#)

Upcoming Symposia



Shaping Cell Behavior

Tuesday, August 17, 2021 from 11:00am - 12:30pmET
Organized by **Katie Bentley**, The Francis Crick Institute



Partial EndMT in Cardiovascular Disease

Tuesday, September 21 from 1:00pm-2:30pmET
Organized by **Joyce Bischoff**, Harvard Medical School

Online Symposia and Focus Sessions are Sponsored by the NAVBO Online Program Committee

Upcoming Webinars



Join us on August 12, 2021 at 1:00PM ET for our webinar "Elucidating the mechanisms underlying maternal vascular adaptation to pregnancy" with **Dr. Ramon Lorca**, of University of Colorado Anschutz Medical Campus. [More information is on our web site.](#)

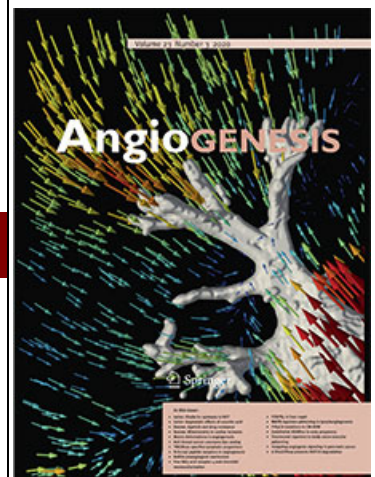
On September 7, 2021 at 1:00PM ET, **Dr. Garth Graham**, Director and



VB20 Guest Societies



Affiliated Journals



Cardiovascular Pathology





Global Head of Healthcare and Public Health Partnerships at YouTube and Google Health, will present a webinar for the NAVBO Diversity, Inclusion and Equity Committee. [Visit our website for more information and to register!](#)

Look for more webinars and [bookmark this page on our web site](#) for more exciting 2021 webinars.

Lessons Learned

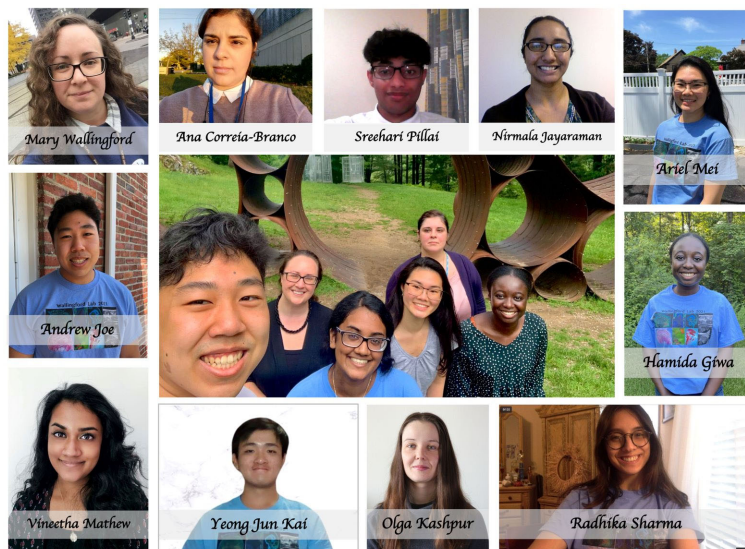


Mary Wallingford, Tufts Medical Center

Thank you for this opportunity to share some of the lessons that I've learned as a new PI and Assistant Professor at Tufts Medical Center (TMC). My lab pursues questions related to the vascular biology of pregnancy. Much of our work focuses specifically on the placenta, which is a highly vascularized organ that forms de novo with each pregnancy and mediates the transport of nutrients, oxygen, and waste between the maternal and fetal circulations. Normal placental vascular development is essential for fetal growth and development, as well as maternal cardiovascular

health during pregnancy. [Read More](#)

Lab of the Month



Lab of the Month - July 2021

The Lab of Dr. Mary Wallingford

This month we are highlighting the lab of Dr. Mary Wallingford, who is an Assistant Professor at Tufts University School of Medicine. Find out more about Dr. Wallingford's lab by [visiting her page](#) in our Lab of the Month listing.

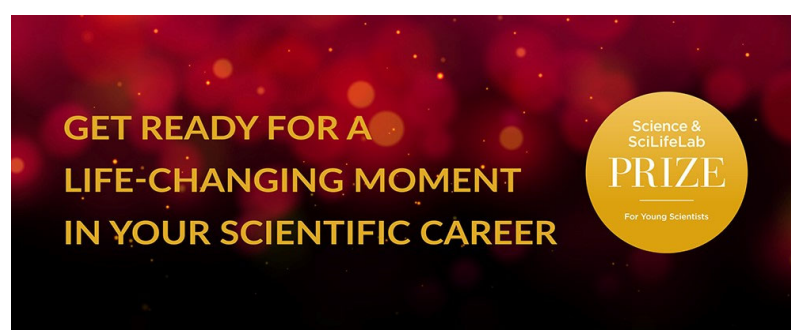
Member News

Welcome to our New Members:

- Dongying Chen, Yale University School of Medicine
- Rebecca Deaton, University of Virginia
- Meghan Fallon, Oregon Health & Science University
- Hamida Giwa, Tufts University
- Scott Johnstone, Virginia Tech
- Gaganpreet Kaur, LSU Health Shreveport
- Zuzana Mironovova, Virginia Tech/Fralin Biomedical Research Institute
- Sreehari Pillai, Research Science Institute
- Tanvi Sinha, UCSF
- Dmitry Traktuev, University of Florida

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

Spotlight on Trainees



Applications for 2021 Science & SciLifeLab Prize Now Open

The Science & SciLifeLab [Prize for Young Scientists](#) is now open for application by entrants who received their doctoral degree between 1/1/19 and 12/31/20. This annual prize is awarded in four categories: Cell and Molecular Biology, Ecology and Environment, Molecular Medicine, and Genomics, Proteomics and Systems Biology Approaches. Applicants submit a 1000-word essay that is judged by an independent editorial team organized by the journal Science. Essays are judged on the quality of research and the applicants' ability to articulate how their work would contribute to their scientific field. Winners will have their essays published by Science, receive up to \$30,000, and be invited to Sweden to present their research and meet with other leading scientists. Application deadline is July 15, 2021.

(originally published in our July 1 issue)

Recent Member Publications

Foxo1 deletion promotes the growth of new lymphatic valves

The Journal of Clinical Investigation

Patients with congenital lymphedema suffer from tissue swelling in part due to mutations in genes regulating lymphatic valve development. Lymphatic valve leaflets grow and are maintained throughout life in response to oscillatory shear stress (OSS), which regulates gene transcription in lymphatic endothelial cells (LECs).

[Read more](#)

Review of treatment and therapeutic targets in brain arteriovenous malformation

Journal of Cerebral Blood Flow and Metabolism

Brain arteriovenous malformations (bAVM) are an important cause of intracranial hemorrhage (ICH), especially in younger patients. The pathogenesis of bAVM are largely unknown. Current understanding of bAVM etiology is based on studying genetic syndromes, animal models, and surgically resected specimens from patients. [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

Changes to NIH Biosketch Guidelines

The NIH has announced changes to the Biographical Sketch and Other Support Format Page for grant applications due on or after May 25, 2021. As described in [NOT-OD-21-073](#), the NIH is endeavoring to align the Biosketch, Other Support format page and Application Form Instructions with the guidance issued by the Office of Science and Technology Policy Joint Committee on the Research Environment. These efforts aim to support strong collaboration between Federal research agencies. Application forms and instructions have been updated to support the need for applicants and recipients to provide full transparency and disclosure of all research activities, foreign and domestic.

T32 Training Program for Institutions That Promote Diversity

Funding opportunity announcement [RFA-HL-22-001](#) from the NHLBI renews the institute's encouragement of the participation of individuals from from groups that are nationally underrepresented in cardiovascular, pulmonary, hematologic and sleep disorders research across the career development continuum by providing support to institutions that promote diversity. In the view of federal sponsors, these institutions are uniquely positioned to engage minority and other health disparity populations in research, translation, and implementation of research advances that impact health outcomes, as well as provide health care for these populations. The NHLBI efforts reflect the [NIH's commitment](#) to addressing structural racism in the biomedical research enterprise.

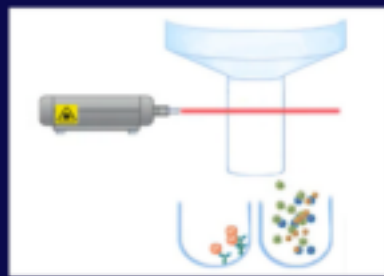
Heart Effects Rare Following mRNA COVID-19 Vaccination

With more than 177 million people in the US have received at least one dose of COVID-19 vaccine, the CDC has received upwards of a thousand reports to the [Vaccine Adverse Event Reporting System](#) of cases of inflammation of the heart (myocarditis and pericarditis) happening after vaccination with either the Pfizer-BioNTech or Moderna mRNA COVID-19 vaccine. Confirmed cases have occurred mostly in male adolescents and young adults age 16 years or older. Most patients who received care responded well to treatment and rest and quickly felt better. The CDC notes that getting vaccinated remains the best way to help protect from COVID-19.

(originally published in our July 1 issue)

Call for Abstracts - JoVE

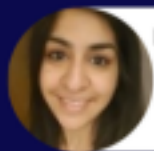
Emerging Methods in Profiling Endothelial Cells at Single-Cell Resolution



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 or [follow this link](#).

Calendar of Events

August 12, 2021	Elucidating the Mechanisms Underlying Maternal Vascular Adaptation to Pregnancy
August 17, 2021	NAVBO Symposium: Shaping Cell Behavior
September 21, 2021	NAVBO Symposium: Partial EndMT in Cardiovascular Disease
September 24 - 25, 2021	4th Annual Gulf Coast Vascular Research Consortium
October 24 - 28, 2021	Vascular Biology 2021
October 24 - 27, 2021	ISA 2021
October 28 & 29, 2021	International Scientific Meeting for PIK3CA Related Conditions
November 1 - 4, 2021	36th Annual Critical Issues in Tumor Microenvironment: Angiogenesis, Metastasis and Immunology

Job Postings

Job Title	Company	Location
Postdoc position in lymphatic vasculature research	Northwestern University	Chicago, IL
Postdoctoral Fellow	Rutgers University	Newark, NJ
Research Assistant	Weill Cornell Medicine	New York, NY
Postdoctoral Fellow in Vascular Biology and Immunology	University of Pennsylvania	Philadelphia, PA
Research Technician	Northwestern University	Chicago, IL
Postdoctoral Fellow	University of Washington	Seattle, WA
Postdoctoral Positions in Metabolism, Angiogenesis and Muscle Regeneration	UTHealth McGovern Medical School	Houston, TX

North American Vascular Biology Organization

18501 Kingshill Road | Germantown, MD
20874
(301) 760-7745

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