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## January Newsletter

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## NEXUS YEAR IN REVIEW - 2025 -

By: NEXUS Leadership Team



The 2025 year marked key milestones for the Network for Exposomics in the United States (NEXUS), including expanded scientific collaborations, strengthened connections across scientific fields, and the development of the three NEXUS Hubs. This year, in particular, was characterized by key meetings and conferences that helped advance the field of exposomics, and provided an excellent opportunity for NEXUS members to engage with the exposomics community in the United States and around the world.

Notably, in May, the inaugural Exposome Moonshot Forum took place in Washington, D.C., which brought together diverse stakeholders from industry, academia, and government to chart the future of the Human Exposome. Over the course of three days, participants identified next steps and opportunities necessary to achieve the goals of the exposomics field and establish a global Human Exposome Initiative. The Exposome Moonshot Forum was hosted at the Johns Hopkins University Bloomberg Center by Fenna Sillé, Ph.D. and Thomas Hartung, M.D., Ph.D., and organized with input from an international [Organizing Committee](#). Drs. Sillé and Hartung lead a collaborative hub of NEXUS, and all of the hubs of NEXUS were involved in providing assistance to the team at Hopkins. Since May, the Global Exposome Forum has been established and aims to promote exposomics across the globe and engage the scientific and policy community. It will host their next event, the Global Exposome Summit, in collaboration with the International Human Exposome Network in Sitges (Barcelona, Spain) in April 2026. At the Exposome Moonshot Forum, NEXUS had the opportunity to connect with leaders in the field as a part of the [NEXUS Conversations series](#), which highlighted the key takeaways from the meeting. The NEXUS Leadership team [reflected on the meeting](#) as a key moment for the field, which is also represented in a [reflection video](#) of the event.

In July, the seventh annual Exposome Bootcamp took place at Columbia University, bringing investigators from all career stages and around the world for two days of intensive seminars and hands-on analytical sessions. These sessions provided an overview of concepts, techniques, and data analysis methods used in exposome research. The Bootcamp is structured to foster meaningful connections, professional development, and the open exchange of key ideas among all attendees. The collaborative nature of the event enabled participants from diverse backgrounds and disciplines to expand their knowledge and skillset to better understand the exposome. The Bootcamp was led by a team of scientists in the field of exposomics, whose expertise spans a wide array of disciplines, and most of the instructors are formally affiliated with NEXUS. After the Bootcamp, NEXUS Leadership team [reflected on the meeting](#) where NEXUS had the opportunity to [interview students](#) about their biggest takeaway from the event, including from [A Pulmonologist and Critical Care Physician's Perspective](#).

Continue reading to learn more about the work of the NEXUS Hubs

## Spotlight

### Carmen Marsit, Ph.D. Emory University



Learn more

Dr. Carmen Marsit is Rollins Distinguished Professor, Executive Associate Dean for Faculty Affairs and Research Strategy at the Rollins School of Public Health, and is co-lead of the NEXUS Emory University Collaborative Hub. His research focuses on the molecular mechanisms that underlie the developmental origins of health and disease utilizing state-of-the-art genomic and epigenomic tools. Through the development of the Rhode Island Child Health Study and through collaborations with additional cohorts both domestically and internationally, he has pioneered examinations of the role of the placenta in mediating the impacts of the pregnancy environment on children's health.

Dr. Marsit has led a continuously NIH funded research program in children's health for nearly 20 years and has published over 400 peer reviewed manuscripts. He broadly interprets the environment to include the chemical, physical, internal, and social factors that impact health, and applies this philosophy as the Director of the NIEHS supported Emory HERCULES Exposome Research Center (P30), which takes a holistic approach to understanding the impacts of the environment and supports the environmental health research community across Emory and Georgia Tech. He also directs the T32 Training Program in the Environmental Health Sciences and Toxicology, and is committed to the education, training, and mentorship of the next generation of researchers. Dr. Marsit received his PhD in the Biological Sciences in Public Health at Harvard University, which was followed by a postdoctoral fellowship at the Harvard School of Public Health. He later joined the faculty in the Department of Preventive Medicine

public health. Prior to joining the faculty in the Gaingarosa Department of Environmental Health at Emory in 2016, he held faculty appointments in Pathology and Laboratory Medicine at Brown University (2007-2011), and in Pharmacology and Toxicology and Epidemiology at the Geisel School of Medicine at Dartmouth (2011-2016).

**Fun Fact:** Carmen is a dog Dad to a Wheaton Terrier named Koby, and in January 2026 will be welcoming a new Schnoodle puppy into the family.

[Read the full spotlight](#)

## NEXUS Podcast

Season 1 | Episode 4

### Wrangling the Chemical Space using Wearables and Mass Spectrometry with Dr. Krystal Pollitt

In this episode NEXUS MPI Rima Habre, ScD, University of Southern California, sits down with NEXUS Chem Bio Analytical Sciences Hub Co-Lead Krystal Pollitt, PhD, PEng, Yale University where they discuss wearables and sensor development, exposure assessments in indoor air environments, and the work being completed by the NEXUS Chem Bio Analytical Sciences Hub, among much more.

The objective of the NEXUS Podcast is to bring together stakeholders of the field of exposomics to foster dialogue around key topics, further the understanding, facilitate the advancement of the field of exposomics along with identifying ways that exposomics can support other scientific fields.

[Listen to the episode on Spotify!](#)



[Visit the NEXUS Youtube Channel](#)

## NEXUS In the Scientific Community



### TOWARDS A HUMAN EXPOSOME ATLAS

#### Towards a Human Exposome Cell Atlas

December 9, 2025  
Virtual Webinar

In December, the first session of the webinar series '[Towards a Human Exposome Cell Atlas](#)', co-hosted by [UNESCO](#), the [Global Exposure Forum](#), and the [Human Cell Atlas](#) took place to explore how connecting the Exposome and the Human Cell Atlas can advance global health understanding and impact. This session focused on endocrine disruptors and examined opportunities and challenges in combining single cell mapping (HCA) and exposomics to advance the Human Exposome Project and human health in general. The meeting brought together a [wide range of experts](#) for lightning talks and a panel discussion.

[Continue Reading](#)

[Watch the Webinar](#)



#### Naomie Berrie Diabetes Center

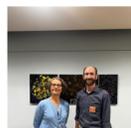
December 18, 2025  
New York, New York

In December, Dr. Michael Snyder, Stanford W. Ascherman Professor of Genetics and Director of Center for Genomics and Personalized Medicine, presented at the Naomi Berrie Diabetes Center Seminar at Columbia University Irving Medical School, and was hosted by Blandine Laferrère, MD, PhD.

His talk, titled "Precision Diabetes: Controlling glucose dysregulation in diabetes using deep data and remote monitoring," discussed how integrating multi-omics data along with continuous monitoring technologies can enable personalized insights specifically about glucose regulation. In addition, he emphasized how these practices can promote early detection and inform potential interventions for diabetes prevention and management.

The Berrie Center brings scientists together to share ideas, approaches, advances in the field, as well as training the next generation of researchers to continue the crusade against diabetes.

Dr. Snyder is a global leader in genomics and other omics. He has expanded his work to include exposomics and wearables with a variety of innovative approaches and studies. Dr. Snyder will also be featured on an upcoming NEXUS Podcast.





Dr. Mike Snyder presenting at the Naomi Berrie Diabetes Center



Dr. Mike Snyder and Dr. Blandine Laferrère

[Learn more Dr. Mike Snyder](#)

[NEXUS Spotlight: Dr. Mike Snyder](#)

[Learn more about the Berrie Diabetes Center](#)

## NEXUS In The News

**WIRED**

Scientists Thought Parkinson's Was in Our Genes. It Might Be in the Water

[Read Article Here](#)

**SF WEEKLY**

Mapping the Exposome: Science Broadens Focus to Environmental Disease Triggers

[Read Article Here](#)

**PNAS**

Exposome research comes of age

[Read Article Here](#)

[More news about Exposomics](#)



## Upcoming Events

### NEXUS Community Events

#### Advancing Exposome Research in Neurological Disorders and Stroke

January 13-14, 2026 | Rockville, MD



This workshop hosted by The National Institute of Neurological Disorders and Stroke will center on understanding the interaction of exposome factors and their composite effect across the lifespan on neurological disorders and on neurological resilience. It will also provide a platform for idea exchange, collaboration, and networking. Keynote speakers include Robert O. Wright, M.D., M.P.H., Icahn School of Medicine at Mount Sinai and NEXUS MPI Gary W. Miller, Ph.D., Columbia University.

[Learn more](#)

#### AAAS Meeting: How the Human Exposome Will Unlock Better Health and Medicine

February 14, 2026 | Phoenix, AZ



At the AAAS Annual Meeting, the Exposome will be featured during a discussion panel "How the Human Exposome Will Unlock Better Health and Medicine" organized by NEXUS Collaborator Thomas Hartung, MD, PhD, Johns Hopkins University, co-organized by Aidan Gilligan, SciCom - Making Sense of Science, and the discussion will be moderated by Clive Cookson, Financial Times Kingdom. Panelists include NEXUS MPI Gary Miller, PhD, Columbia University, NEXUS Collaborator Fenna Sillé, PhD, Johns Hopkins University and Rémi Quirion, PhD, Chief Scientist of Québec. This panel brings together architects of the Exposome Moonshot Forum, an event setting the foundation for The Human Exposome Project, to give a mapping progress update. Speakers will discuss how newly established exposomic committees are maximizing science at scale via inherent advantages such as the convergence of artificial intelligence, advanced sensors, metabolomics, and big data analytics. They will show how this consortium is embracing the challenge of implementing science and policy at scale for the benefit of society. Speakers will also discuss the craft of feeding in complex advice into policymaking on hotly contested new technologies.

[Learn more](#)

#### Global Exposome Summit

April 27-29, 2026 | Sitges, Spain



The Global Exposome Summit 2026 will promote international research and coordination on the exposome. It will bring together researchers, policymakers, industry, funders, and other stakeholders working on advancing human health through exposome research and practice. The International Human Exposome Network (IHEN) and the Global Exposome Forum (GEF) are joining forces to organize the Global Exposome Summit 2026.

[Learn more](#)

#### Bordeaux Exposome Symposium

June 17-19, 2026 | Bordeaux, France



The Bordeaux Symposium hosted and organized by Mount Sinai Icahn School of Medicine

Institute for Exposomic Research will convene leading scientists and trainees dedicated to advancing the integration of environmental exposures into research on Alzheimer's Disease and Related Dementias (AD/ADRD). Drawing on a global network of researchers with complementary expertise in exposomics, data science, and neurodegenerative disease, the meeting provides a powerful foundation for discovery.

Travel Awards Available for Early Career Researchers and Trainees.

[Learn more](#)

### ISES 2026 Annual Meeting

October 4 - 8, 2026 | Vancouver, Canada



The ISES 2026 Annual Meeting aims to explore groundbreaking research in exposure science, epidemiology, toxicology, and risk assessments, and will be bringing together researchers, students, academics, government and private sector attendees from around the world in the exposure science field.

Stay tuned for more registration details!

[Learn more](#)

[Visit the NEXUS Calendar](#)

## Community Podcasts

### Mendelspod Podcast

[mendelspod.com](https://mendelspod.com)

"From GWAS to EWAS: Chirag Patel and Gary Miller on the Rise of Exposomics"

Featuring: Gary Miller, PhD, Columbia University and Chirag Patel, PhD, Harvard University

[Listen to the Episode](#)

[Exposomics Community Podcasts](#)

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We are proud to have funding support from the following

National Institute of Environmental Health Sciences (NIEHS)

National Institute on Aging (NIA)

National Institute of Neurological Disorders and Stroke (NINDS)

National Cancer Institute (NCI)

National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

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