

CARTI

CENTER for ADVANCED RESEARCH TRAINING & INNOVATION



The **Center for Advanced Research Training & Innovation (CARTI)** newsletter lists upcoming events, resources, services and research funding opportunities for UMB research faculty and fellows.

Highlights in this Issue

Upcoming CARTI Seminars:

- **Writing and Conducting a Systematic Review** (May 9 @ 9am; Zoom)
- **Staffing Your Lab** (May 14 @ 9am; Zoom)
- **Holding Effective Mentor Meetings** (May 15 @ 1pm; Zoom)
- **CARTI/OBGYN Distinguished Research Lecture Series:**
"Creating Paradigm Shifts in Molecular Diagnostics Through Circulating Fetal DNA" (May 17 @ 8am; UMMC STC Auditorium)
- **Tips for Making Your Research Understandable to Broad Audiences** (May 22 @ 2pm; Zoom)
- **Finding Foundation Grant Funding for Research Faculty** (May 30 @ 9am; Zoom)
- **Responding to Reviewers** (June 13 @ 9am; Zoom)

To register for CARTI's events, click [HERE](#).

Additional Events:

- **UMSON Research Seminar Series: The Voice of the Research Participant** (May 16 @ 12pm; Zoom)
- **UMB Graduate School: Science Communication 2.0: Navigating the Digital Era** (May 8 @ 12pm; Zoom)
- **UMB Graduate School: Science Communication Certificate Program** (Application Deadline: July 15)

Research Funding Opportunities:

- **UMB, Institute for Clinical & Translational Research (ICTR)** (*Community Engaged Research (CEnR) Partnership Development Voucher Award*)
- **Harrington Discovery Institute** (*Standard of care research*)
- **One Mind** (*Psychiatric disorders*)
- **Human Immunome Project** (*human immunology and vaccine and immunotherapy research for major global diseases*)
- **DoD, Congressionally Directed Medical Research Programs**

CARTI's Upcoming Seminars

Scientific Writing Seminar Series

Writing and Conducting a Systematic Review

Thursday, May 9

9:00 – 10:00am

Zoom

This seminar provides an overview of the systematic review process. According to the Cochrane Handbook, a systematic review is “...a review of a clearly formulated question that uses systematic and explicit methods to identify, select and critically appraise relevant research, and to collect and analyze data from the studies that are included in the review.” This differs from narrative reviews, which are often authored by experts in a field and are generally narrative summaries of a topic.

Find out what you should know before starting, important steps for conducting a review and resources to help you throughout the process, including the HSHSL Systematic Review Service.

Speaker: Emily Gorman, MLIS, Research and Education Librarian, School of Pharmacy Librarian, Health Sciences and Human Services Library, UMB

[Register](#)

Responding to Reviewers

Thursday, June 13

9:00 – 10:00am

Zoom

The ability to effectively respond to reviewers is an important aspect of resubmitting a research paper and having it accepted for publication; however, this process can be a daunting task. During this session, participants will receive helpful advice on how to best respond to reviewers' comments when resubmitting a research paper.

Speaker: Shannon Takala Harrison, PhD, Associate Professor of Medicine and Epidemiology and Public Health; Head, Genomic Epidemiology Unit, Malaria Research Program; Center for Vaccine Development and Global Health; Track Leader, Molecular Epidemiology, Program in Epidemiology and Human Genetics; Associate Director for the CARTI Research Training Tracks, UMSOM

[Register](#)

Managing Your Research Program Seminar Series

Staffing Your Lab

Tuesday, May 14

9:00 – 10:00am
Zoom

Staffing your lab with the right people is one of the most important things you can do to manage a successful research program. This session focuses on making the best hiring decisions, beginning with tips on how to attract postdocs and techs to your lab, which can be challenging if you are an early stage investigator. This session will provide advice on how to interview and evaluate applicants. The session will conclude with advice for handling staffing situations that aren't working, including how to handle terminating an employee's contract, which is always difficult – and hopefully can be avoided by identifying and recruiting the best employees at the outset.

Speaker: Dudley Strickland, PhD, Professor, Department of Surgery; Director, Center for Vascular & Inflammatory Diseases, UMSOM

[Register](#)

Career Skills "*Short*" Seminar Series

Holding Effective Mentor Meetings

Wednesday, May 15

1:00 – 1:30pm

Zoom

Receiving regular feedback and guidance from your mentoring team is essential for achieving research and career development goals. This session will discuss recommendations for holding effective meetings with your mentoring team, including how to prepare for meetings, the best format to get the feedback you need, and how often you should meet with your mentoring committee.

Speaker: Marey Shriver, PhD, Executive Director for Faculty Development, Center for Advanced Research Training & Innovation (CARTI), UMSOM

[Register](#)

CARTI/OBGYN Distinguished Research Lecture Series

The **Center for Advanced Research Training and Innovation (CARTI)** in partnership with the **Department of Obstetrics, Gynecology, and Reproductive Sciences** announces the launch of a new, annual Distinguished Research Lecture Series. This series will feature world-renowned researchers who will share a peek behind the scenes at their paths to success. Join us for the inaugural lecture below:

"Creating Paradigm Shifts in Molecular Diagnostics Through Circulating Fetal DNA"

Friday, May 17

8:00 – 9:00am

UMMC Shock Trauma Center Auditorium

Continental Breakfast will be provided

(Virtual option will be available)

This lecture will be given by 2022 Lasker Award winner **Yuk-Ming Dennis Lo, DM, DPhil**, Chairman and Li Ka Shing Professor of Medicine at **The Chinese University of Hong Kong**.

Dr. Lo won the 2022 Lasker-DeBakey Clinical Medical Research Award for his discovery of cell-free fetal DNA in maternal blood, which he then leveraged to develop noninvasive prenatal testing for Down syndrome. Today, cell-free DNA testing has expanded beyond prenatal testing to determine the success of organ transplants, diagnose, and monitor cancer, and diagnose acute coronary syndrome, among other conditions. **Visit our [WEBSITE](#) for more information.**

Learning Objectives: Upon completion of this activity, participants should be able to:

- 1. Understand the importance of resilience in academic research**
- 2. Understand the utility of cell-free and circulating fetal DNA**
- 3. Understand the preclinical process of developing a molecular diagnostic**

Accreditation: The University of Maryland School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Credit Designation: The University of Maryland School of Medicine designates this live activity for a maximum of 1 *AMA PRA Category 1 Credit™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

[Register](#)

Science Communications Seminar Series

Tips for Making Your Research Understandable to Broad Audiences

Wednesday, May 22

2:00 – 3:00pm

Zoom

Your research is on a signal transduction pathway in an invertebrate model organism, and you find yourself at a social function with non-scientists where someone asks, “So what do you do?”

You’re in line at Starbucks and introduced to a successful businessperson who is looking to make a philanthropic gift to researchers at the University of Maryland, they ask you to describe your research before they get their order and must leave...

You are applying for funding from a foundation, and they ask you to give a lay summary of your project...

How do you start?

Join us for a panel discussion with three PhD scientists-turned-professional communicators—a fly geneticist, a developmental biologist, and a clinical psychologist—who will share best practices for making science understandable. We will talk about approaches that work, and pitfalls to avoid, and leave ample time to provide suggestions to attendees who would like to seek assistance from the experts.

Panelists:

- **Audrey Huang, PhD, MA**, Director, of Science Communications, CARTI, UMSOM
- **Melissa Laitner, PhD, MPH**, Senior Program Officer, National Academy of Medicine
- **Vanessa McMains, PhD**, Science Writer, National Institute of Dental and Craniofacial Research (NICDR)/NIH
- **John Timmer, PhD**, Senior Science Editor at Ars Technica

[Register](#)

Funding Seminar Series

Finding Foundation Grant Funding for Research Faculty

Thursday, May 30

9:00 - 10:00am

Zoom

As the pool of funding becomes increasingly competitive, private foundations and other non-government grants can fund research, fill funding gaps during lean times, keep work going while a principal investigator applies for government funds, or support a pilot project designed to obtain data necessary to compete for larger grants. This session will highlight how UMSOM early stage faculty can work with the School of Medicine Foundation Relations team to find and apply for funding opportunities that are geared toward early stage faculty. Even though this session will focus on early stage faculty, practical tips and strategies will be presented that are applicable to everyone.

Speaker: Emily Boydston, MBA, Assistant Director, Corporate and Foundation Relations, UMSOM

[Register](#)

Scholarly Writing Accountability Group (SWAG) Program

Virtual Program to Help Faculty Increase Their Scholarly Writing Productivity

The Center for Advanced Research Training & Innovation (CARTI) provides a virtual peer accountability/support program designed to increase writing productivity among UMB early stage faculty called **Scholarly Writing Accountability Group (SWAG)**. A description of our virtual SWAG program follows, including details on how to participate.

What is a VIRTUAL SWAG?

A virtual SWAG is an active peer-led writing group for **UMB junior faculty** that meets for 1-hour, once a week over a 10-week period using **Microsoft Teams/Zoom**. Groups follow a structured agenda including 15 minutes of updates and goal-setting followed by 30 minutes of individual writing and then 15 minutes of reporting and wrap-up. Each group is limited to 4-8 members who must commit to attending at

Writing accountability groups are being used at multiple major medical schools. The data which have been reported on the results of this program are very favorable, reflecting marked increases in the quantity and quality of writing by junior faculty participants.

What are the Benefits of Joining a SWAG?

Faculty who join SWAG will:

- Develop new writing habits to achieve writing goals
- Improved time management skills
- Gain a greater sense of control over the writing process
- Build a small community of support/social network

[Registration](#)

least 8 out of the 10 weekly sessions. In a SWAG, there is no peer review of writing; SWAGs focus on the process of writing, not the content. ***The purpose of SWAG is to help junior faculty get in the habit of 1) writing in short blocks of time daily or almost every day and 2) identifying and prioritizing feasible writing goals.***

New SWAGs at UMB are being formed on a rolling basis. If you're interested in participating, please submit the following **REQUEST FORM**.

Questions? Email **Stacie Mendoza**

CARTI'S Seminar Slides & Recordings



Join CARTI's Microsoft Teams Page!

This **page** serves as a hub for CARTI's seminar recordings and slides for the seminar series listed below:

- **Managing Your Research Program**
- **Scientific Writing**
- **Research Skills** (*grant writing, presentations, etc*)
- **Funding Seminar Series**
- **Introduction to Grant Writing**
- **Career Skills Short Seminar Series** (*30 minute lectures*)
- **Communicating Research Findings with a Broad Audience**
- **UM Ventures:** *Intellectual Property Protection, Commercialization, & Industry Partnerships*

To gain access, email **Stacie Mendoza**.

CARTI'S Individual Consultations

Research Grant Application/Summary Statement Consultations

Christy Chang, PhD, Senior Program Leader, is available to meet with faculty to discuss writing their first R01 NIH application. Dr. Chang offers consultations regarding readiness and eligibility for R01 level funding, specific aims, and other elements of an R01 application. In addition, she is available to discuss strategies for addressing summary statements and revising research grant applications for resubmission. **Email:** cchang@som.umaryland.edu

Career Development (K) Grant Application/Summary Statement Consultations

Marey Shriver, PhD, Executive Director for Faculty Development, is available to meet with junior faculty to discuss early project conception to the development of a complete NIH career development (K) application. Dr. Shriver offers consultations regarding developing a clear research question and testable hypothesis. In addition, she provides consultations regarding eligibility for K grant applications, planning for an upcoming grant proposal, and assembling a K application – including creating a training plan. Lastly, she is available to discuss strategies for addressing summary statements and revising research grant applications for resubmission. **Email:** mshriver@som.umaryland.edu

Identifying Sources of Funding Consultations

Stacie Mendoza, Program Director, assists junior faculty and postdocs with identifying sources of funding for their research. To schedule a funding consultation, complete the [Funding Search Request Form](#) online. **Email:** smendoza@som.umaryland.edu

CARTI'S Funded Grants Library

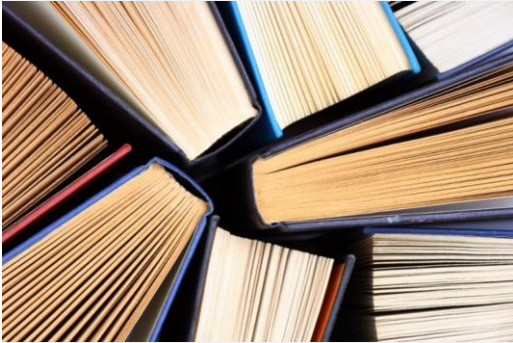
The **Center for Advanced Research Training & Innovation (CARTI)** now has a funded grants library available to faculty who are preparing an NIH grant application. These samples were shared by UMSOM faculty who have funded NIH grant applications including, but not limited to the following mechanisms:

- Loan Repayment Program (LRP) Awards
- Career Development Awards (K): K01, K08, K23, K24
- NIH Research (R) Grants

- Diversity Supplements

[Gain Access](#)

CARTI'S Mini Library



The CARTI's "Mini Library" provides access to books that are relevant to developing the professional skills and success of an academic research career of SOM faculty.

A complete list of books can be found [HERE](#)

Books are available in the CARTI office located at **MSTF Building, Room 319** and can be signed out for up to 3 weeks. Email [Stacie Mendoza](#) if you would like to set up a time to visit our library.

University of Maryland School of Nursing

Research Seminar Series

The Voice of the Research Participant

Thursday, May 16

12:00 - 1:00pm

Zoom

Please join the UMSON's May Monthly research seminar along with the Baltimore SOCRA Chapter as they virtually host Mr. Jeffrey Wells. Mr. Wells is a patient participant advocate and expert consultant in participant-based research initiatives. He will be sharing his wisdom and experiences from the field.

Speaker: Jeffrey Wells, Patient and Research Participant

[Register](#)

UMB Graduate School

Science Communication

Science Communication 2.0: Navigating the Digital Era

Wednesday, May 8

12:00 - 12:30pm

Zoom

Science communication is evolving as part of the changing digital landscape. As technology shapes how information is consumed and shared, scientists face new challenges in effectively communicating their work to diverse audiences. Whether you're a seasoned researcher or just curious about the intersection of science and media, this talk offers valuable insights into navigating the complexities of the digital age and equips you with practical strategies to amplify your scientific message and combat misinformation.

Join us for a 30-minute presentation and Q&A Session with Dr. Zakiya Whatley hosted by the [Science Communication certificate program](#) in UMB's Graduate School.

[Register](#)

Science Communication Certificate Program

Application Deadline: July 15th

Interested in expanding your science communication skills? Effective and equitable science communication plays a critical role for many professions

intersecting with science. This certificate emphasizes various approaches towards effective science communication and towards representing diverse voices across all communities involved in science.

Successful science communication, we think, includes lots of practice. We have designed a program that exposes learners to different strategies in science communication, current research on the science of science communication, and examples of science communication across various platforms and modalities.

Complete the certificate in 9 months, 4 courses, 12 credits, completely online, and walk away with a well-developed science communication portfolio.

Application Deadline: July 15 (early submissions will be reviewed right away)
Contact [Dr. Isabell May](#), program director, for additional questions or check the [program website](#).

Research Funding Opportunities

UNIVERSITY OF MARYLAND BALTIMORE, INSTITUTE FOR CLINICAL & TRANSLATIONAL RESEARCH

Community Engaged Research (CEnR) Partnership Development Voucher Award

The purpose of the **UMB ICTR Community Engaged Research (CEnR) Partnership Development Voucher Award** is to support the preparatory work of developing a sustainable community partnership, identifying the research question, and laying the foundation for future CEnR grant opportunities to address the health needs of our community, particularly those of the traditionally underserved or marginalized/minoritized populations.

HUMAN IMMUNOME PROJECT Michelson Prizes: Next Generation Grants

These annual awards of \$150,000, which support early-career investigators who are working to significantly advance human immunology and vaccine and immunotherapy research for major global diseases. The Prizes are awarded by the Michelson Medical Research Foundation and the Human Immunome Project (previously the Human Vaccines Project)

About the Prizes: We are looking for research aimed at tackling the current roadblocks that exist in human vaccine development and expanding our limited understanding of key immune processes that are

Applications are Accepted Semi-Annually (June and December)

ELIGIBILITY: Faculty at the level of Assistant Professor, Associate Professor, or Professor with a minimum 51% FTE appointment from University of Maryland, Baltimore (UMB), University of Maryland, Baltimore County (UMBC), or University of Maryland, College Park (UMCP)

BUDGET: Up to \$10,000 in Direct costs for 12 months

DEADLINE: Monday, June 3, 2024, 5pm EST

Visit [WEBSITE](#) for more Information

HARRINGTON DISCOVERY INSTITUTE

Harrington Scholar-Innovator Grant

The Harrington Scholar-Innovator Grant recognizes physician-scientist innovators throughout the US and Canada, whose research has the potential to change standard of care. The Scholar-Innovator Grant provides research and drug development support to help bridge the gap between basic discovery and the clinical realm.

LOI DEADLINE: June 5, 2024

APPLICATION DEADLINE: August 7, 2024

Visit [WEBSITE](#) for more information.

ONE MIND

One Mind Rising Star Awards

fundamental to successful vaccine and immunotherapy development.

Eligibility: Early-career investigators, postdoctoral fellows, clinical fellows (including residents and interns), doctoral students and other researchers currently in training positions are all eligible for the Michelson Prizes. Applicants must be 35 or younger at the time of submission.

Disciplines: Applicants from the full spectrum of immunology-related disciplines, including clinical research, biochemistry, molecular biology, protein engineering, computer science, artificial intelligence/machine learning, biophysics, environmental health, nanotechnology, etc.

APPLICATION DEADLINE: June 9, 2024

Visit [WEBSITE](#) for more information

DEPARTMENT OF DEFENSE - CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS

Funding Opportunities now available:

- [Amyotrophic Lateral Sclerosis](#)
- [Autism](#)
- [Breast Cancer](#)
- [Epilepsy](#)
- [Hearing Restoration](#)
- [Joint Warfighter Medical](#)

One Mind invites applications from early career investigators in neuroscience, psychiatry, and related disciplines for research grants to accelerate the understanding, diagnosis, treatment, and prevent of psychiatric disorders. These include, but are not limited to, schizophrenia, bipolar disorder, depression, obsessive-compulsive disorder, eating disorders, post-traumatic stress disorders, anxiety disorders, and suicidality. Please note that addiction/substance use disorders are outside the scope of this award. **APPLICATION DEADLINE:** June 6, 2024
Visit [WEBSITE](#) for more information.

- [Lung Cancer](#)
- [Military Burn](#)
- [Multiple Sclerosis](#)
- [Ovarian Cancer](#)
- [Peer Reviewed Alzheimer's](#)
- [Peer Reviewed Medical](#)
- [Rare Cancers](#)
- [Spinal Cord Injury](#)
- [Tick-Borne Disease](#)
- [Tuberous Sclerosis Complex](#)
- [Vision](#)

Visit [WEBSITE](#) for more information on upcoming deadlines and eligibility requirements for each program.

Seeking Foundation Funding for your Research?

The **SOM's Office of Development, Corporate and Foundation Relations**, provides services and resources to assist UMSOM faculty with identifying private foundation funding for research, programs, educational initiative, and community outreach at the local, regional, and national level. **Visit their [website](#) for more information and to schedule an appointment.**

Additional funding opportunities can be found at:

[UMSOM Internal Funding Opportunities & External Funding Databases](#)

[UMGCC Funding Database](#)
(Cancer related research)

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Visit CARTI's [Website!](#)

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