

# RESEARCH CAREER DEVELOPMENT NEWSLETTER

WEBSITE: <http://medschool.umaryland.edu/career>

June 2019

The Research Career Development Program (RCD) offers workshops, classes and seminars in subjects that are crucial to an academic research career, including Grant Writing, Publishing Your Research and Identifying Funding Sources for Your Research. In addition, RCDP offers symposia on professional skills development, including Scientific Leadership & Professional Development. To view the events and services offered by RCD and upcoming grant deadlines etc., please visit: <http://medschool.umaryland.edu/career/>.

## UPCOMING EVENTS

### Getting Promoted in an Academic Medical Institution

Tuesday, June 4  
9:00 – 10:00am

621 W. Lombard Street, SMC Campus Center, Room 210

**Speaker:** Amy Fulton, PhD, Professor of Pathology, Chair, Appointment, Promotion and Tenure Review Committee, UMSOM

Dr. Fulton will present information outlining the SOM Appointments, Promotion and Tenure Policy and Procedures. She will describe the different academic titles, considerations for promotion, criteria for tenure, and specifics of scholarship, clinical activity, teaching and service that are evaluated.

Registration required online at: <http://registrationrcdp.eventbrite.com>

### Working Effectively with a Biostatistician

Wednesday, June 5  
9:00 – 10:00am

621 W. Lombard Street, SMC Campus Center, Room 351

The role of a statistician in quantitative biomedical research is fundamental. This seminar is intended to help investigators understand this role and establish an effective working relationship with a biostatistician. We will discuss how the statistician can help with the design and conduct of research, from refining the initial concept all the way to the analysis and interpretation of study outcomes.

Get answers to some frequently asked questions: When to enlist the help of a statistician? Which aspects of developing a research proposal/grant/manuscript can a statistician help with? How to find a statistician? And how to pay for his/her services?

**Speaker:** Soren M. Bentzen, Ph.D., D.M.Sc., Professor, Director of the Division of Biostatistics and Bioinformatics, Director of the UM Greenebaum Cancer Center; Biostatistics Shared Service, Departments of Epidemiology and Public Health and Radiation Oncology, UMSOM

Registration required online at: <http://registrationrcdp.eventbrite.com>

### Foundation Funding for Research Scientists: Building the Partnership between Scientists and Development Officers

Friday, June 7  
1:00 – 2:00pm

660 W. Redwood Street, Howard Hall, Room 224 (Epi conf room)

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 faculty at all levels can work with the School of Medicine Foundation Relations team to identify, develop, and submit private foundation and non-profit organization grants. Practical tips and strategies from successful submissions will be highlighted.

**Speakers:** Sarah E. Bradley, Director of Foundation Relations, Office of Development, UMSOM and Emily Boydston, Development Associate - Foundation Relations, Office of Development, UMSOM

Registration required online at: <http://registrationrcdp.eventbrite.com>

### NIH Loan Repayment Program Information Session

Wednesday, June 19  
9:00 – 10:00am

685 W. Baltimore Street, MSTF Building, Room 316

Join us for an information session on the National Institutes of Health Loan Repayment Program (LRPs). Dr. Kerri Thom is a past recipient of the NIH LRP and will discuss the basic elements of the application process, including eligibility, as well as share some of her own experience with this award. The LRP provides researchers with up to \$35,000 annually to help repay student loans. The LRPs repay the outstanding student loans of researchers who are or will be conducting nonprofit biomedical or behavioral research. Opportunities are available in five research areas: clinical, pediatric, health disparities, contraception and infertility and clinical research for individuals from disadvantaged backgrounds.

Visit the LRP website at <http://www.lrp.nih.gov> for more information and to access the online application. **ELIGIBILITY:** Applicants must possess a doctoral-level degree (with the exception of the contraception and infertility research LRP); be a U.S. citizen, national or permanent resident; devote 20 hours or more per week to conducting qualified research funded by a domestic nonprofit, university or government entity; and have qualified educational loan debt equal to or exceeding 20 percent of their institutional base salary.

**Speaker:** Kerri Thom, MD, MS, Associate Professor, Department of Epidemiology and Public Health; Assistant Dean for Student Research & Education & Director of the Office of Student Research at UMSOM

Registration required online at: <http://registrationrcdp.eventbrite.com>

### Department of Defense (DoD) Funding Seminar

Thursday, June 20  
9:00 – 10:00am

621 W. Lombard Street, SMC Campus Center, Room 210

The Department of Defense (DoD) offers a number of funding opportunities available to faculty and postdocs. This seminar will introduce participants to the various types of grant applications available through the DoD. Subjects will include how to identify the appropriate award mechanism, tips for applying, and insights into the review process.

**Speakers:** Gary Fiskum PhD, M. Jane Matjasko Professor for Research & Vice Chair, Research, Dept of Anesthesiology, UMSOM; and Mohummad Minhaj Siddiqui, MD, Associate Professor of Surgery, Director of Urologic Oncology and Robotic Surgery; Chief of Urology, Baltimore VA Medical Center

Registration required online at: <http://registrationrcdp.eventbrite.com>

## Tips for Developing the Budget and Justification for an NIH Grant Application

Tuesday, June 25

1:00 – 2:00pm

621 W. Lombard Street, SMC Campus Center, Room 351

This seminar is targeted to faculty and postdoctoral fellows who plan on submitting an NIH grant application and want to understand the basics of developing a budget. This seminar will address both the strategic questions involved in budgeting, as well as the basic components of a budget. Topics include the following: personnel issues, including differences between collaborators and consultants, as well as how to determine percent effort; direct vs indirect costs; budget categories, and what items to include, etc.

**Speaker:** Robert Mitchell, Associate Director for Administration of the Marlene & Stewart Greenebaum Comprehensive Cancer Center, UMSOM

**Registration required online at:** <http://registrationrcdp.eventbrite.com>

## Getting Your Protocol Through the IRB

Thursday, July 11

1:00 - 2:00pm

660 W. Redwood Street, Howard Hall, Room 224 (Epi conf room)

This seminar will cover the basics of conducting human subjects research at UMB including an introduction to the Human Research Protections Program (HRPP), the basics of conducting research at UMB, including principal investigators' responsibilities, as well as a discussion of the Comprehensive Institutional Collaborative Evaluation of Research On-line (CICERO) program for submitting and reviewing human subjects research protocols. It will also discuss recent changes to the federal regulations concerning human subjects research known as the "Common Rule". This is a must attend lecture for those new to conducting research at UMB and allows a great opportunity to ask questions to a senior member of the IRB.

**Speaker:** Jon Mark Hirshon, MD, MPH, PhD, Senior Vice Chair, IRB Professor, Department of Emergency Medicine, Professor, Department of Epidemiology and Public Health, UMSOM

**Registration required online at:** <http://registrationrcdp.eventbrite.com>

## Maryland Stem Cell Research Fund (MSCRF)

### Funding Information Session/Breakfast

Wednesday, September 18

9:00 – 11:00am

621 W. Lombard Street, SMC Campus Center, Room 351

This three-part information session will be led and moderated by **Curt Civin, MD**, Associate Dean for Research, UMSOM and Director of the Center for Stem Cell Biology & Regenerative Medicine and **Dan Gincel, PhD**, VP University Partnerships, TEDCO and Executive Director of MSCRF.

First, Dr. Gincel will provide an overview of the grant programs offered by the Maryland Stem Cell Research Fund (MSCRF) for human stem cell research in the state of Maryland; this will be followed by Q & A.

Next, **Tami Kingsbury, PhD**, Assistant Professor, Department of Physiology, will describe the Center for Stem Cell Biology & Regenerative Medicine's grant pre-review opportunity for UMB applicants, followed by Q & A.

Finally, participants will hear from a panel of three 2019 MSCRF Discovery Grant Awardees who will share their personal experience/advice on submitting an MSCRF grant, followed by Q & A. The 2019 MSCRF Discovery Grant Awardees on the panel will be: **Ola Awad, PhD**, Research Associate, Department of Microbiology and Immunology, UMSOM; **Charles Hong, MD, PhD**, Director of Cardiovascular Research, Melvin Sharoky Professor of Medicine, UMSOM; and **Marta Lipinski, PhD**, Associate Professor, Department of Anesthesiology, UMSOM

The panel will also include **Peixin Yang, PhD**, Professor, Department of Obstetrics, Gynecology and Reproductive Sciences and Deputy Director of Graduate & Postdoctoral Studies, who will focus on questions concerning the MSCRF Postdoctoral Awards.

**Registration required online at:** <http://registrationrcdp.eventbrite.com>

## SCIENTIFIC WRITING Monthly Seminar Series

The purpose of this seminar series is to help faculty, fellows and postdocs write clear, well-organized scientific papers. The series consists of ten (10), 1-hour stand-alone sessions, each of which focuses on an important aspect of scientific writing. Registration is available for the final session below. The series will be offered again starting in September.

## Tips for Writing Case Reports, Commentaries and Review Articles

Thursday, June 13

9:00 – 10:00 am

Howard Hall, Room 224 (Epi Conference room)

This session will help clinicians/clinician educators learn how to initiate and develop peer reviewed publications that don't involve "traditional" peer-reviewed research. Participants will also learn strategies to get the most out of being promoted with these types of publications (e.g. Do the literature search for a grand rounds talk and then publish a review; involve a trainee in a case report and get points for mentoring and a publication).

**Speaker:** Rose Viscardi, MD, Professor, Department of Pediatrics, UMSOM

**Registration required online at:** <http://registrationrcdp.eventbrite.com>

## MANAGING YOUR RESEARCH PROGRAM Monthly Seminar Series

The purpose of this new seminar series is to support faculty, fellows and senior postdocs who are either new to leading a research team or are interested in honing their leadership skills. This new monthly seminar series consists of ten (10), 1-hour stand-alone sessions, each of which focuses on a subject/skill set that is important to successfully developing and managing a research program/team. Registration is available for the final session below. The series will be offered again starting in September.

## Negotiation Skills

Tuesday, June 18

9:00 – 10:00am

621 W. Lombard Street, SMC Campus Center, Room 351

The ability to negotiate successfully is essential to managing a research program; however, early stage faculty often lack training in negotiations skills. In addition, frequently scientists – especially at the early stages of their careers – feel uncomfortable with the process of negotiating, and are uncertain how to do this effectively. This session will introduce the principles of effective negotiation and offer tips for how to approach a negotiation for necessary resources, including salary, research resources and protected time.

**Speaker:** Anastasia (Stacy) Watson Smith, JD, Director, Special Projects, Center for Dispute Resolution, University of Maryland Francis King Carey School of Law

**Registration required online at:** <http://registrationrcdp.eventbrite.com>

## Clinical and Translational Research Training

### Introduction to Clinical and Translational Research Course at UMB

August 5-9, 2019

9:00 – 3:45pm (Monday – Thursday)\*

9:00 – 12:00pm (Friday)

\*ending times vary

20 Penn Street, HSF II Auditorium, 1st floor

The Department of Epidemiology and Public Health is pleased to sponsor the 18th annual Introduction to Clinical and Translational Research Course at UMB.

This course is open to all UMB faculty, fellows, residents, students and staff with an interest in clinical and translational research at UMB.

This course is designed for new researchers, or those looking for a refresher, who struggle with designing good studies and/or writing publishable manuscripts/grants.

CME credits and other continuing medical education credits will not be offered for this one-week course.

The course is free of charge and only open to those affiliated with University of Maryland, Baltimore (UMB). Students are expected to attend the entire course as space is limited.

#### COURSE DIRECTORS:

**Kristen Stafford, PhD, MPH**, Assistant Professor, Department of Epidemiology and Public Health, UMSOM

**John Sorkin, MD, PhD**, Professor, Department of Medicine, Chief, Biostatistics and Informatics, UMSOM

#### COURSE AGENDA:

<http://www.medschool.umaryland.edu/k30/Summer-Short-Course-Introduction-to-Clinical-and-Translational-Research-at-UMB/>.

**REGISTRATION (required):** <https://intro-to-clinical-and-translational-research-umb.eventbrite.com>

**CREDITS:** To receive academic/graduate school credit, students already enrolled in a UMB graduate school program should register for PREV 616 in the 2019 fall semester. To register for PREV 616 in the fall, contact your graduate program office. Anyone who is interested in registering for PREV616 in the fall, MUST contact Dr. Kristen Stafford to discuss eligibility prior to registering. Dr. Stafford's email is [kstafford@ihv.umaryland.edu](mailto:kstafford@ihv.umaryland.edu).

**QUESTIONS:** Contact Stacie Mendoza [smendoza@som.umaryland.edu](mailto:smendoza@som.umaryland.edu)

This course is jointly sponsored by the University of Maryland Claude D. Pepper Older Americans Independence Center (UM-OAIC); Baltimore VA Medical Center, Geriatric Research Education and Clinical Centers (GREETC); and the Office of Research Career Development, UMSOM

## Individual Consultations (RCD)

### GRANT APPLICATION/SUMMARY STATEMENT CONSULTATIONS

**Wendy Sanders, MA**, Associate Dean for Research Career Development, is available to meet with junior faculty regarding how to plan and develop NIH grant applications. In addition, Ms. Sanders is available to discuss eligibility for various NIH applications. Finally, Ms. Sanders is also available to discuss strategies for addressing summary statements/revising a research grant application. Email: [wsanders@som.umaryland.edu](mailto:wsanders@som.umaryland.edu)

### RESEARCH QUESTION/HYPOTHESIS DEVELOPMENT CONSULTATIONS

**Marey Shriver, PhD**, Director for Research Career Development, meets with junior faculty regarding early project conception, including developing a clear research question and testable hypothesis. Email: [mshriver@som.umaryland.edu](mailto:mshriver@som.umaryland.edu)

### FUNDING SOURCE CONSULTATIONS

**Stacie Mendoza**, Program Director for Research Career Development, assists junior faculty and postdocs with identifying sources of funding for their research including how to navigate the NIH funding database. To schedule a funding consultation, complete a **Funding Search Request Form** online at <http://www.medschool.umaryland.edu/career/Grant-Funding-Consultation-Service/> Email: [smendoza@som.umaryland.edu](mailto:smendoza@som.umaryland.edu)

### Need to Increase Your Scientific Writing Productivity?

**Join A SWAG!**

#### Scientific Writing Accountability Group

SWAG is designed as a peer accountability/support program to increase scientific writing productivity for junior faculty. Groups meet for 1-hour a week for 10 consecutive weeks. These meetings consist of individual timed writing and discussion of/sharing weekly goals and updates. Space is limited to 4-8 participants in each group. Evidence supports that SWAG members significantly improve their writing productivity/quality, goal-setting and time management skills, and networking/community-building. - **New groups are forming!**

To learn more about SWAG or to join a group, contact **Stacie Mendoza** at [smendoza@som.umaryland.edu](mailto:smendoza@som.umaryland.edu) or 6-5434.

#### SWAG Website:

<http://www.medschool.umaryland.edu/career/Scientific-Writing-Accountability-Group-SWAG-Program/>

**SWAG is sponsored by the Research Career Development Program**

## Funding Opportunities ~ Upcoming Deadlines

### AMGEN, INC.

#### Competitive Grant Program in Bone Research

The Competitive Grant Program in Bone Research aims to improve quality of osteoporosis care and patient outcomes, related to osteoporosis screening, diagnosis, and adherence to therapy.

**DEADLINE:** June 28, 2019

**WEBSITE:** <https://www.amgenscientificgrants.com/bone/>

### AMERICAN HEART ASSOCIATION

#### Merit Award

This competition will enable AHA to further develop and strengthen the community of CV and stroke researchers and bring innovative approaches to basic, clinical, population and translational studies through funding a variety of disciplines.

**LOI DEADLINE:** July 11, 2019

**APPLICATION DEADLINE:** September 24, 2019

**WEBSITE:**

[https://professional.heart.org/professional/ResearchPrograms/UCM\\_475359\\_Merit-Award.jsp](https://professional.heart.org/professional/ResearchPrograms/UCM_475359_Merit-Award.jsp)

### MARYLAND STEM CELL RESEARCH FUND (MSCRF)

**-Clinical Program:** Universities/Research Institutes or Companies that wish to conduct human stem cell-based clinical trials in the State of Maryland.

**- Validation Program:** Faculty at Maryland-based Universities/Research institutes (not federal labs) with IP for human stem cell-based technologies that require additional validation before creation of start-up companies.

**DEADLINE:** July 11, 2019

**WEBSITE:** <https://www.mscref.org/funding-opportunities>

### AMERICAN DIABETES ASSOCIATION

#### Innovative Basic Science Core Research Grant

These awards support basic research with novel and innovative hypotheses in any area relevant to the etiology or pathophysiology of diabetes and its complications that holds significant promise for advancing the prevention, cure or treatment of diabetes.

Applications proposing high-risk projects with the potential for high-impact results are encouraged, as are studies that may not be sufficiently developed for traditional funding sources.

**APPLICATION DEADLINE:** July 15, 2019

**WEBSITE:** <https://professional.diabetes.org/meetings/core-program>

### AMERICAN HEART ASSOCIATION

#### Grand Challenge: Precision Health and Precision Medicine

This award supports research that conducts and explores modern experimental techniques (in all fields) coupled with robust data sources to make significant advances in understanding and/or deployment of precision health and precision medicine practices.

**DEADLINE:** July 31, 2019

**WEBSITE:** [https://www.heart.org/-/media/files/professional/institute/rfa\\_grand-challenge.pdf?la=en&hash=CE8B0E3ABD1F49D124E1BB42EF0BA7D5E55DF94E](https://www.heart.org/-/media/files/professional/institute/rfa_grand-challenge.pdf?la=en&hash=CE8B0E3ABD1F49D124E1BB42EF0BA7D5E55DF94E)

### NATIONAL MULTIPLE SCLEROSIS SOCIETY

#### Harry Weaver Neuroscience Scholar Award

Harry Weaver awards to highly qualified candidates who have concluded their research training and begun academic careers as independent investigators in an area related to multiple sclerosis. The awards are designed to provide salary and grant support for a five year period, thus permitting the awardee to establish competence in his/her chosen research area.

**PRE-APPLICATIONS DUE:** August 14, 2019

**FULL APPLICATIONS DUE:** August 21, 2019

**WEBSITE:** <https://www.nationalmssociety.org/For-Professionals/Researchers/Society-Funding/Training-Grants-and-Fellowships/Harry-Weaver-Neuroscience-Scholar-Awards>

### NATIONAL INSTITUTES OF HEALTH

#### High-Risk High-Reward Research Program

The High-Risk, High-Reward Research program supports "exceptionally creative scientists pursuing highly innovative research with the potential for broad impact in biomedical or behavioral science".

This program consists of the following four (4) constituent NIH Director's awards:

1. **NIH Director's Pioneer Award (DP1 Clinical Trial Optional)** ~ **DEADLINE:** September 6, 2019
2. **NIH Director's New Innovator Award (DP2 Clinical Trial Optional)** ~ **DEADLINE:** August 26, 2019
3. **NIH Director's Transformative Research Award (R01 Clinical Trial Optional)** ~ **DEADLINE:** September 20, 2019
4. **NIH Director's Early Independence Award (DP5 Clinical Trial Optional)** ~ **DEADLINE:** September 13, 2019

**WEBSITE:** <https://commonfund.nih.gov/highrisk>

### AMERICAN AUTOIMMUNE RELATED DISEASES ASSOCIATION, LLC

#### Young Investigator Grants

These grants are meant to support and encourage younger researchers in studying basic autoimmunity issues, to foster future breakthroughs and developments in autoimmune disease understanding and treatment. (Basic refers to the whole autoimmune disease picture, or in research that could benefit the larger autoimmune community as opposed to a single or specific disease.) These grants will be awarded to researchers under the age of 45, who hold a status of a postdoctoral fellow or junior faculty. The grants are for up to \$20,000 for one year of research.

**DEADLINE:** September 1, 2019

**WEBSITE:** <https://www.aarda.org/grant-applications-now-available/>

### MORE FUNDING OPPORTUNITIES CAN BE FOUND AT:

#### UMB Internal Grant Announcements

<http://www.umaryland.edu/ictr/funding/umb-internal-funding-highlights/>

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

<https://umgcccfundingopps.org/>

To receive weekly UMGCC funding announcements, contact: Sarah Laye at [SLaye@som.umaryland.edu](mailto:SLaye@som.umaryland.edu)

### Foundation Funding Assistance

To learn more about foundation funding opportunities, individual funding searches, and assistance with foundation grant development and submission, please contact:

**Ms. Sarah Bradley**

Director, Foundation Relations

Office of Development

[sbradley@som.umaryland.edu](mailto:sbradley@som.umaryland.edu)

410-706-0107

### PLEASE NOTE:

We strongly encourage faculty to discuss their research application plans with their supervisor/Chairman. For some applications, such as career development awards or foundation applications, approval of the Chairperson is required to apply.

Posted deadlines are subject to change. Contact the funder's program officer before applying to ensure you have the most recent announcement information.

# CENTER FOR INNOVATIVE BIOMEDICAL RESOURCES (CIBR)

WEBSITE: <http://medschool.umaryland.edu/cibr>

The **Center for Innovative Biomedical Resources (CIBR)** is the administrative umbrella for the wide portfolio of core facilities UMSOM investigators have available to support their research. In addition to the cutting-edge services, instrumentation and expertise CIBR cores provide, CIBR also hosts seminars, workshops, symposia and an annual retreat.

## CIBR Lunch and Learn Series

**“Save the Dates” for 2019-2020 CIBR Lunch & Learn Series:**

September 12, 2019	February 13, 2020
October 10, 2019	March 12, 2020
November 14, 2019	April 9, 2020
December 12, 2019	May 14, 2020
January 9, 2020	

All sessions will be held in the MSTF Atrium.

Participating cores/presentations will be announced at a later date.

**CIBR Lunch & Learns are organized by the Center for Innovative Biomedical Resources (CIBR)**

## Spotlight on CIBR Resources

### CRISPR Services

CRISPR-based technologies are revolutionizing scientific research. In 2018, the Cancer Center Translational Shared Services Laboratory, in conjunction with the Center for Stem Cell Biology & Regenerative Medicine established CRISPR Services to facilitate the incorporation of CRISPR gene editing technology on campus. CRISPR Services are available for the generation of edited cell lines, including knockout cell lines for loss-of-function studies and gene edited cell lines to test the functional consequences of specific gene mutations and single nucleotide polymorphisms (SNPs). Gene editing can also be performed to introduce epitope tags to facilitate downstream biochemical or imaging based experiments. CRISPR Services uses Cas9 ribonucleoprotein complexes (Cas9 RNP) and lentivirus-based approaches, depending upon project needs and objectives. All cell lines are confirmed genetically by DNA sequencing by NGS prior to delivery. Constitutive and inducible lentivirus-mediated CRISPRa and CRISPRi services are also available, for gene activation and knockdown, respectively. CRISPRa and CRISPRi utilize catalytically inactive Cas9 (dCas9) molecules tethered to transcriptional activators and repressors to regulate gene expression. CRISPRi provides a valuable alternative to siRNA/shRNA, and enables the interrogation of knockdown phenotypes for essential genes. The repertoire of dCas9 fusion proteins available is continually expanding. Additional CRISPR-based tools enable the targeted manipulation of the epigenetic landscape at specific gene loci, regulation of gene splicing, and fluorescent labeling of chromosomal regions for imaging. CRISPR Services is also happy to work with researchers to develop novel CRISPR reagents. In late 2019, CRISPR Services will pilot CRISPR-based screening platforms before introducing CRISPR screening as a service in 2020.

[CRISPR Services](#) is provided under the Translation Shared Services umbrella and directed by Dr. Tami Kingsbury. All projects begin with a cost-free consultation to discuss which CRISPR strategies fit best with your project goals. To accommodate the diverse needs of individual laboratories, CRISPR Services has flexible project structures spanning the completion of projects in their entirety from design through cell line delivery to the generation of validated CRISPR reagents for end users.

Email Dr. Tami Kingsbury ([Tkingsbury@som.umaryland.edu](mailto:Tkingsbury@som.umaryland.edu)) to set up an appointment to discuss how to leverage CRISPR Services to promote your research program.

**University of Maryland School of Medicine  
Center for Innovative Biomedical Resources**  
655 W. Baltimore Street  
Baltimore, Maryland 21201  
Email: [CIBR@som.umaryland.edu](mailto:CIBR@som.umaryland.edu)