

RESEARCH CAREER DEVELOPMENT NEWSLETTER

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

April 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

NIH High-Risk High-Reward Research Program: Funding Information Session

Wednesday, April 17
1:00 - 2:30pm

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

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**".

Dr. Ravi Basavappa, Program Leader, High-Risk, High Reward Research Program, will discuss the following topics:

- Elements of a competitive proposal
- Determining whether these awards are an appropriate match
- Funding requirements
- Advice on how to apply
- Overview of the review process

Recent NIH High-Risk High-Reward awardees will also share their personal experiences with applying for and receiving these awards.

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

- NIH Director's Pioneer Award
- NIH Director's New Innovator Award
- NIH Director's Transformative Research Award
- NIH Director's Early Independence Award

More information about this program can be found at: <https://commonfund.nih.gov/highrisk>

Speakers:

Ravi Basavappa, PhD, Program Leader, High-Risk High-Reward Research Program, Office of Strategic Coordination (The Common Fund Office), Division of Program Coordination, Planning, and Strategic Initiatives, Office of the Director, National Institutes of Health (NIH)

Daniel Morgan, MD, MS, Associate Professor, Department of Epidemiology & Public Health/Infectious Diseases, UMSOM

Julie Dunning Hotopp, PhD, Associate Professor, Department of Microbiology and Immunology, UMSOM

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

Funding Opportunities through the US Department of Veteran Affairs (VA)

Tuesday, April 30
1:00 - 2:00pm

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

The US Department of Veteran Affairs (VA) offers a number of funding opportunities available to faculty and postdocs.

Dr. Carol Fowler, Deputy Associate Chief of Staff for the VA Research and Development Program, will lead this session. This seminar will introduce participants to the various types of grant applications available through the VA, including eligibility requirements, tips for applying, and insights into the review process. Recent VA awardees will also share their personal experiences with applying and receiving a VA award.

Speakers:

Carol Fowler, PhD, Deputy Associate Chief of Staff, Research and Development VA Maryland Health Care System

France Carrier, PhD, VA Research Health Scientist at the VAMHCS; Professor, Department of Radiation Oncology, UMSOM

Samantha Hack, PhD, LGSW, Research Health Scientist, Department of Veterans Affairs VISN 5 Mental Illness Research, Education, and Clinical Center

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

Identifying Funding Sources for Faculty

Wednesday, May 8
9:00 - 10:00am

685 W. Baltimore Street, MSTF Building, Room 316

This interactive workshop, given by **Stacie Mendoza**, Program Director, will assist faculty in identifying non-NIH sources of funding for their research. Topics will include:

- Comprehensive introduction to various funding resources, including searchable databases and useful websites
- Helpful tips for identifying sources of funding
- Interactive demonstration using funding databases

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

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. Dr. Fulton 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>

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 following two sessions. Dates and subjects for the monthly sessions are outlined below and will be described in detail in subsequent newsletters.

Please note: faculty, fellows and postdocs are welcome to attend every session in the series or single sessions of interest.

Please register for each session in the series.

Tips for Scientific Writing with a Focus on Clarity/Editing

Thursday, April 11

9:00 – 10:00am

660 W. Redwood Street, Howard Hall, Room 224

Scientific papers that are well-written have higher rates of acceptance, but often scientists are unsure of how to present their research succinctly and clearly. This seminar focuses on tips for writing scientific research papers with a primary emphasis on clarity and editing. The session makes use of examples to reflect common errors in scientific writing, and how to address these.

Speaker: Isabell May, PhD, Director, Writing Center, UMB

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

Ethical Considerations in Scientific Writing

Thursday, May 9

9:00 – 10:00am

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

Adam Puche, PhD, Professor, Department Anatomy & Neurobiology, UMSOM, will discuss misconduct in scientific writing, its consequences and how to avoid it, with a focus on authorship issues, plagiarism and data ownership.

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

SAVE THE DATE!

SCIENTIFIC WRITING: Monthly Seminar Series

Please mark your calendar for the following scheduled session on **Thursday, 9-10am**. Registration information and subject will be announced in the May newsletter.

Jun 13: TBD

(Howard Hall, Room 224)

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 following two sessions. Dates and subjects for the monthly sessions are outlined below and will be described in detail in subsequent newsletters.

Please note: faculty, fellows and postdocs are welcome to attend every session in the series or single sessions of interest.

Please register for each session in the series.

Maintaining Morale and Guiding Your Research Team in Difficult Times

Tuesday, April 16
9:00 – 10:00am

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

The role of leading a research lab or program is challenging, requiring investigators to balance numerous competing needs, including the need to provide direction to their program, mentor their trainees, publish, fund their research program, have enough time to carry out research, teach and more. These challenges increase when the funding rate is low or unpredictable. The need to balance the multiple facets of an academic research career while also having time for a personal life can be daunting. This session focuses on identifying strategies to manage competing professional demands, while also leaving time for family life and personal interests.

This session will consist of a 45 minute talk, followed by a Q & A session based on participants' interests and concerns. Participants are welcome to submit questions they wish to have addressed anonymously, and a questionnaire link will be set up for this purpose and emailed to all participants.

Speaker: Wendy Sanders, MA, Associate Dean, Office for Research Career Development, UMSOM

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

Setting Up Collaborations

Tuesday, May 21
9:00 – 10:00am

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

Collaborations are a crucial aspect of developing and maintaining a successful research program and should be developed and maintained carefully. Often, early stage faculty are uncertain as to how to identify the best collaborators, as well as how to obtain the most meaningful input from collaborators. This session will focus on: 1) building successful collaborations and maintaining productive relationships over time; 2) identifying appropriate venues to network and creating your own networking opportunities; and 3) getting the most out of meetings and conferences, including how to use these experiences for your professional development.

Speaker: Toni Pollin, PhD, Associate Professor, Departments of Medicine & Epidemiology and Public Health, UMSOM

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

SAVE THE DATE!

MANAGING YOUR RESEARCH PROGRAM: Monthly Seminar Series

Please mark your calendar for the following scheduled session on **Tuesday, 9-10am** at the **SMC Campus Center, Room 351**. Registration information will be announced in the May newsletter.

Jun 18: Negotiation Skills

HS/HS LIBRARY Citation Manager Workshops

The Health Sciences and Human Services Library's subscription to RefWorks will end on June 30, 2019.

There are many options for transitioning to other citation management systems. To read more about the tools that are available, visit the HS/HS Library's website explaining three alternate citation managers, EndNote, Zotero, and Mendeley. Please note that while EndNote is a paid software, some departments provide licenses for their faculty. Please contact your department's IT representative for more information on installing any new software.

To learn more about the citation managers available, please consider attending these upcoming workshops:

- **Which Citation Manager is Right for Me?**
April 9, 12-12:30pm, HS/HSL room LL03
- **Managing Citations Using Zotero**
April 10, 12-1pm, HS/HSL room LL03
April 24, 1-2pm, online

Register online at:

<http://www2.hshsl.umaryland.edu/hshsl/workshops/register.cfm>

Registration is encouraged but not required.

Questions? Please contact **Andrea Shipper** at
ashipper@hshsl.umaryland.edu

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

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

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

Funding Opportunities ~ Upcoming Deadlines

MARCH OF DIMES

2020 Research Program

- Innovative Challenge Grants
- Novel Discovery Grants
- Clinical and Social Science Challenge Grants

Research Grant Priorities/Areas of Interest

- Pregnancy-related disorders
- Genetic and environmentally-induced birth defects
- Opioid exposure and dependency
- Health disparities surrounding all of the above areas

LOI DUE: April 19, 2019

FULL APPLICATION DUE: September 4, 2019

WEBSITE: <https://www.marchofdimes.org/research/request-for-applications-2020-research-program.aspx>

THE PEW CHARITABLE TRUSTS

Pew Scholars Program in the Biomedical Sciences provides funding to young investigators of outstanding promise in science relevant to the advancement of human health. The program makes grants to selected academic institutions to support the independent research of outstanding individuals who are in their first few years of their appointment at the assistant professor level. Strong proposals will incorporate particularly creative and pioneering approaches and candidates whose work is based on biomedical principles, but who bring in concepts and theories from more diverse fields are encouraged to apply. Ideas with the potential to produce an unusually high impact are encouraged.

NOMINATIONS: Applicants must be nominated by their institution, and only one applicant is allowed per institution. Nominations are due to the Pew Biomedical Scholars by June 14, 2019, and final applications will be due on October 17, 2019.

Any interested individuals must submit a one page pre-proposal and NIH style biosketch to **Dr. Joni Prasad** (jprasad@som.umaryland.edu) by April 30, 2019 at 5pm.

WEBSITE: <https://www.pewtrusts.org/en/projects/pew-biomedical-scholars>

AMERICAN CANCER SOCIETY INSTITUTIONAL RESEARCH GRANTS (ACS-IRG)

Pilot Projects

PI: Dr. Stuart Martin, Ph.D.

2 Funding Mechanisms / 3 pilot awards will be funded

- Cancer Related
 - Cancer Health Disparities
- \$30,000 direct for 1 year

APPLICATION DEADLINE: May 1, 2019 at 4:00pm

Any applicants who are interested in award opportunity can contact Dr. Stuart Martin (SSMartin@umaryland.edu), Sarah Laye (SLaye@som.umaryland.edu), or Leanne Simington (LSimington@som.umaryland.edu).

WEBSITE: <https://www.umms.org/umgcc/cancer-services/cancer-care/research-clinical-trials/research/american-cancer-society-research-grants>

Funding Opportunities ~ Upcoming Deadlines

DEPARTMENT OF DEFENSE – CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS

FY19 Autism Research Program (ARP)

- Clinical Trial Award (*Pre-Application due: May 1, 2019*)
- Idea Development Award (*Pre-Application due: May 1, 2019*)
- Clinical Translational Research Award (*Pre-Application due: May 1, 2019*)

WEBSITE: <https://cdmrp.army.mil/funding/arp>

FY19 Lung Cancer Research Program (LCRP)

- Career Development Award (*LOI due: Aug 1, 2019*)
- Idea Development Award (*Pre-proposal due: May 15, 2019*)
- Investigator Initiated Translational Research Award (*Pre-proposal due: May 15, 2019*)
- Translational Research Partnership Award (*Pre-proposal due: May 15, 2019*)

WEBSITE: <https://cdmrp.army.mil/funding/lcrp>

FY19 Ovarian Cancer Program (OGRP)

- Clinical Development Award (*Pre-application due: April 30, 2019*)
- Investigator-Initiated Research Award (*Pre-Application due: April 23, 2019*)
- Ovarian Cancer Academy Award – Early-career Investigator (*Pre-application due: April 30, 2019*)
- Pilot Award (*Pre-application due: April 23, 2019*)

WEBSITE: <https://cdmrp.army.mil/funding/ogrp>

FY19 Parkinson's Research Program (RPR)

- Early Investigator Research Award (*LOI due July 9, 2019*)
- Investigator-Initiated Research Award (*LOI due: July 9, 2019*)

WEBSITE: <https://cdmrp.army.mil/funding/prp>

FY19 Peer Reviewed Cancer Research Program (PRCRP)

- Career Development Award (*LOI due: Aug 21, 2019*)
- Horizon Award (*LOI due: Aug 21, 2019*)
- Idea Award with Special focus (*Preproposal due: May 22, 2019*)
- Impact Award (*Pre-proposal due May 22, 2019*)
- Translational Team Science Award (*Pre-proposal due: May 22, 2019*)

WEBSITE: <https://cdmrp.army.mil/funding/prcrp>

Free DoD Funding Info Webinars!

The Congressionally Directed Medical Research Programs (CDMRP) invites the research community to view a webinar series on funding opportunities in both research and career development. The first of these webinars "Funding Opportunities and Strategies for Success", participants will learn how to find the latest CDMRP funding opportunities, how to navigate a program announcement (funding opportunity announcement), and use what they learn to create a competitive application. Over the next four months, webinars covering topics from innovative research applications to clinical research will be published. **View the webinar schedule here:** https://cdmrp.army.mil/pubs/Webinars/webinar_series

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
410-706-0107

ONE MIND INSTITUTE

Rising Star Research Award

The goal of the Rising Star Research Awards is to recognize and fund promising, early career investigators through a competitive grants process to accelerate research on major neuropsychiatric disorders.

APPLICATIONS DUE: May 15, 2019

WEBSITE: <https://onemind.org/guiding-focus/rising-star-awards/>

GERBER FOUNDATION

Research Grant

The Gerber Foundation awards grants for research focused on issues faced by care providers that, when implemented, will improve health, nutrition, and/or development outcomes for infants and young children. Grant focus areas include: pediatric health, pediatric nutrition, and environmental hazards.

CONCEPT PAPER DEADLINE: May 15, 2019

APPLICATION DEADLINE: August 15, 2019

WEBSITE: <http://www.gerberfoundation.org/how-to-apply/>

CHILDREN'S CARDIOMYOPATHY FOUNDATION

Research Grant

The Children's Cardiomyopathy Foundation's research grant program aims to advance medical knowledge on the causes and mechanism of pediatric cardiomyopathy and to develop diagnostic guidelines and targeted therapies.

LOI DEADLINE: June 13, 2019

APPLICATION DEADLINE: September 7, 2019

WEBSITE: <https://dev.childrenscardiomyopathy.org/Research-Grant-Programs-71-76>

AMERICAN DIABETES ASSOCIATION

2019 Core Research Program

- Research Awards
 - o Innovative Basic Science
 - o Innovative Clinical or Translational Science
- Development Awards
 - o Junior Faculty Development
 - o Minority Junior Faculty Development
- Training Awards
 - o Postdoc Fellowship
 - o Minority Postdoc Fellowship

DEADLINE: July 15, 2019

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

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

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

Plan to attend the **April** Lunch and Learn, hosted by **Genomics Resource Center (IGS)** featuring:

“Single Cell Analysis of Malaria Parasites”

David Serre, PhD, Associate Professor, SOM Institute of Genome Sciences

“Biology at True Resolution: Enabling a Comprehensive View of Genomics”

Alissa Nolan, MS, Field Applications Manager, 10x Genomics

It will be held on **Thursday, April 11** from **12:00 PM – 1:00 PM** in the **MSTF Atrium, 685 West Baltimore Street**.

Lunch will be provided!

This seminar is free but you must register: <http://tiny.cc/CIBRApril>

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

Spotlight on CIBR Resources

Genomics Resource Center

The Genomics Resource Center is a high-throughput genomics laboratory and data analysis team within IGS utilizing state-of-the-art technology to generate high-quality genomic data in a cost-effective manner. Our team is comprised of scientists, bioinformaticians, project managers, and research specialists with extensive experience in planning and managing both small and large-scale projects. We operate multiple sequencing platforms, including Pacific Biosciences, Illumina, and Oxford Nanopore, with a combined annual capacity exceeding 200 trillion bases of high-quality, passed-filter data. As part of our mandate, we strive to maintain cutting-edge genomic capabilities and continually upgrade our platforms and pipelines to the latest technologies. We provide a full range of genomic laboratory and analysis services, which are available on a fee-for-service basis and we will work directly with you and your team to customize the project to your needs. Each project begins with a cost-free consultation.

As we approach the spring of 2019, new genomic technologies and platforms are on the horizon. Since moving into our new laboratory in HSF III last year, we have rapidly expanded our capacity and capabilities. The 10x Genomics Chromium platform is now a widely used system for single-cell transcriptomics, immune profiling, linked-read variant phasing and *de novo* genome sequencing. We have also expanded our low-throughput single-cell offerings with new library prep methods from Takara. So, whether you have a few cells or thousands, we have the technologies to sequence their genomes and transcriptomes!

As an extension of our long-term partnership as a PacBio Certified Service Provider, we have joined the Early Access Program for their new Sequel II platform. This new instrument, utilizing an 8M ZMW SMRT Cell, promises significant increases in throughput compared to prior PacBio platforms and other long-read technologies. We have generated some exciting early data with this instrument, including ultra-long library runs exceeding 100Gbp and 10kb HiFi CCS runs exceeding 280Gbp, both of which represent >8x increases over current runs. This impressive throughput has the potential to change the landscape of non-model *de novo* genome sequencing, human structural variation analysis, and metagenome/microbiome sequencing. We hope to begin offering sequencing services on the Sequel II in April 2019.

In addition to the new Sequel II platform and expanding single-cell offerings, we plan to dramatically increase our short-read sequencing capacity with the acquisition of an Illumina NovaSeq in the coming months. The newest flagship sequencer for Illumina has a more flexible design with four different flowcells that span the spectrum from medium to ultra-high throughput. Not only will this platform increase our capacity and reduce sequencing costs, but it will provide for more flexible turn-around time for small and medium size projects.

Upcoming GRC events:

March 29: NanoString Brain Awareness Week workshop: 10 - 11 am, HSF III Room 1010
April 11: CIBR Lunch & Learn featuring 10x Genomics technology talks: 12 – 1pm, MSTF Atrium
June 20-24: ASM Microbe meeting in San Francisco – come see us at booth #861

Please check out our [blog](#) or [email us!](#)

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



OFFICE FOR RESEARCH CAREER DEVELOPMENT
685 W. Baltimore Street, MSTF 3-19
Baltimore, MD 21201 Phone: 410-706-5434
<http://www.medschool.umaryland.edu/career/>