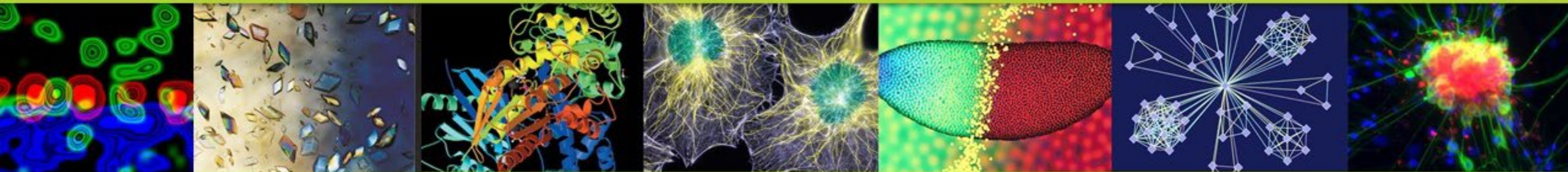


**Jon R. Lorsch, Ph.D., Director  
National Institute of General  
Medical Sciences**

February 2, 2023

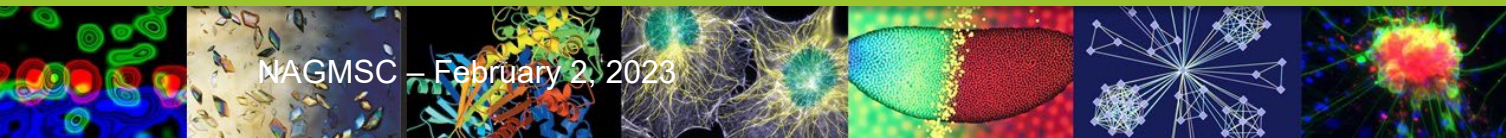
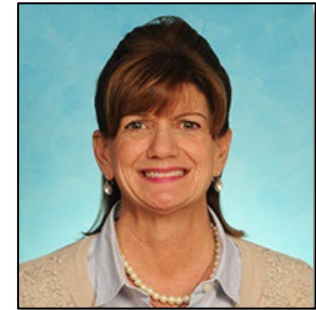
# National Advisory General Medical Sciences Council



# Retiring Council Member

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- **Laura F. Gibson, Ph.D.**  
Senior Associate Vice President for Research and Graduate Education  
Associate Dean for Research, School of Medicine  
Alexander B. Osborn Distinguished Professor  
Hematological Malignancies  
West Virginia University



# Ad hoc Council Participants

- **Michael S. Chapman, Ph.D.**  
Wurdack Professor and Chair  
Department of Biochemistry  
School of Medicine and College of Agriculture, Food and  
Natural Resources  
University of Missouri
- **Neil Garg, Ph.D.**  
Distinguished Professor and Kenneth N. Trueblood Chair  
Department of Chemistry and Biochemistry  
University of California, Los Angeles



# Ad hoc Council Participants (cont.)

- **Laurie Kilpatrick, Ph.D.**

Professor

Department of Microbiology, Immunology  
and Inflammation

Assistant Dean for Clinical Research

Lewis Katz School of Medicine

Temple University

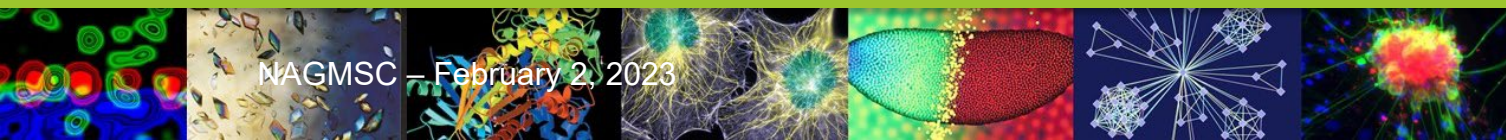


- **Gerald Marschke, Ph.D.**

Associate Professor

Department of Economics

University at Albany, State University of New York



# Early Career Investigator *Ad hoc* Council Participants

- **Catherine Fromen, Ph.D.**

Assistant Professor

Department of Chemical and Biomolecular Engineering

University of Delaware



- **Klarissa D. Jackson, Ph.D.**

Assistant Professor

Division of Pharmacotherapy and Experimental

Therapeutics

Eshelman School of Pharmacy

University of North Carolina at Chapel Hill

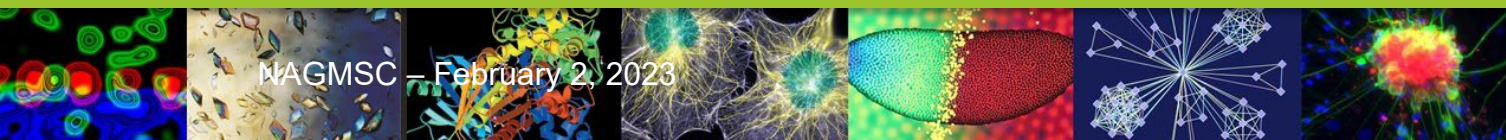


# New NIGMS Division Director

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## Shawn Drew Gaillard, Ph.D.

- Became director of the Division of Genetics and Molecular, Cellular, and Developmental Biology (GMCDB) in January
- Has been acting director of GMCDB since February 2022 and joined the Division as chief of the Developmental and Cellular Processes Branch in 2019, overseeing grants focused on organismal response to environmental stressors
- Earned a bachelor's degree in natural sciences with a concentration in chemistry from Spelman College and a Ph.D. in biology from Howard University

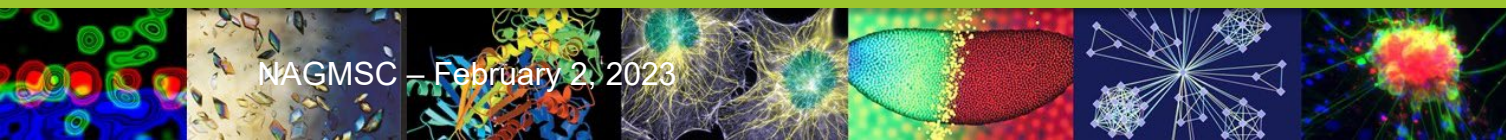


# NIGMS Personnel Changes

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## New Hires

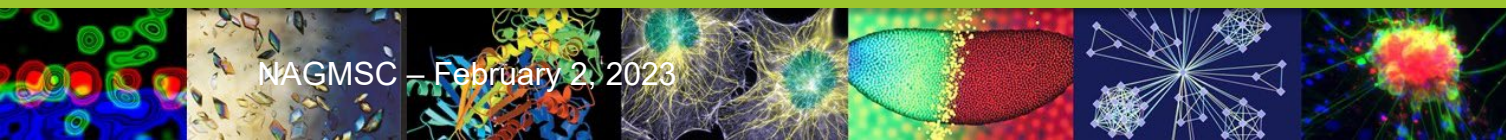
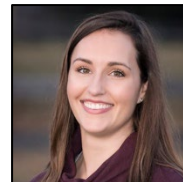
- **Eddie Billingslea, Ph.D.**, Small Business Strategy Coordinator, Office of the Director
- **Jason Chan, Ph.D.**, Scientific Review Officer, Scientific Review Branch, Division of Extramural Activities
- **Shannon Doyle, Ph.D.**, Health Science Policy Analyst, Division of Extramural Activities
- **Jennifer Levithan**, Deputy Executive Officer, Division of Management



# NIGMS Personnel Changes (cont.)

## New Hires (cont.)

- **Leslie Nichols**, Grants Management Specialist, Grants Administration Branch, Division of Extramural Activities
- **Katherine Patel, Ph.D.**, Health Scientist (Data Science), Data Modeling and Analytics Branch, Division of Data Integration, Modeling, and Analytics
- **Wuhong Pei, Ph.D.**, Program Director, Research Advancement Programs Branch, Division for Research Capacity Building
- **Brian Quay, Ph.D.**, Economist, Data Modeling and Analytics Branch, Division of Data Integration, Modeling, and Analytics



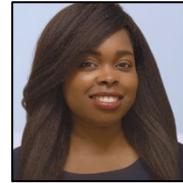


# NIGMS Personnel Changes (cont.)

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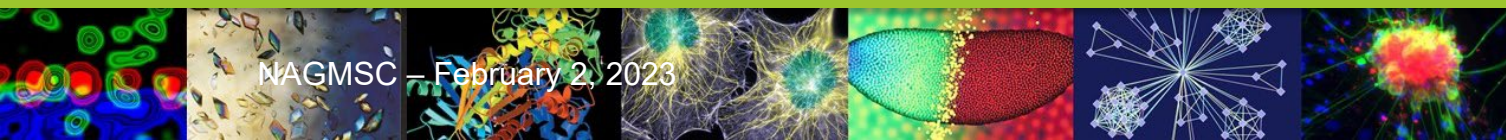
## New Hires (cont.)

- **Kamilah Rashid, Ph.D.**, Senior Health Science Policy Analyst, Data Integration and Dissemination Branch, Division of Data Integration, Modeling, and Analytics
- **Troy Zarcone, Ph.D.**, Health Scientist (Data Scientist), Data Integration and Dissemination Branch, Division of Data Integration, Modeling, and Analytics



## Promotion

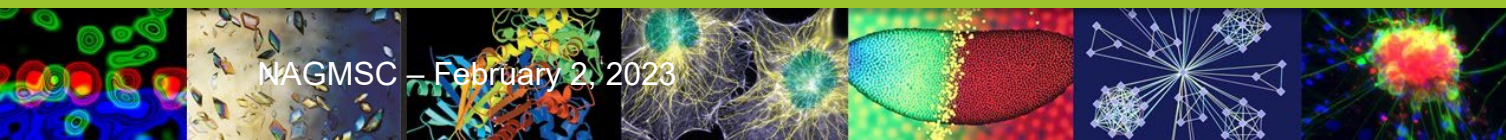
- **Nathan Moore, Ph.D.**, Data Science Strategy Coordinator, Office of the Director



# NIGMS Personnel Changes (cont.)

## Departures

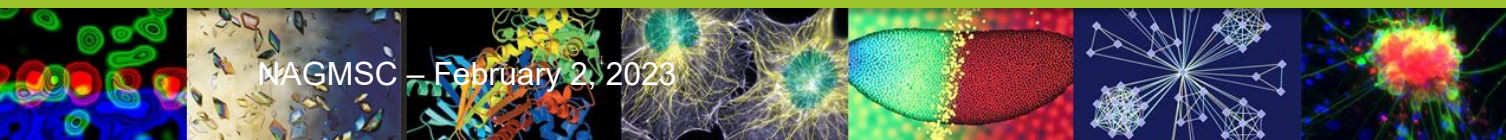
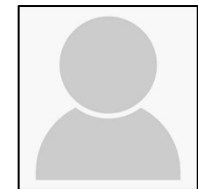
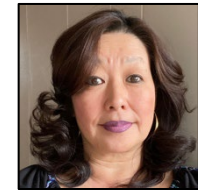
- **Patrick Brown, Ph.D.**, Undergraduate and Predoctoral Cross-Disciplinary Training Branch, Division of Training, Workforce Development, and Diversity (move to the National Center for Advancing Translational Sciences)
- **Tony Carter, Ph.D.**, Developmental and Cellular Processes Branch, Division of Genetics and Molecular, Cellular, and Developmental Biology (retirement)
- **Dmitriy Krepkiy, Ph.D.**, Biomedical Technology Branch, Division of Biophysics, Biomedical Technology, and Computational Biosciences (move to the National Center for Advancing Translational Sciences)



# NIGMS Personnel Changes (cont.)

## Departures (cont.)

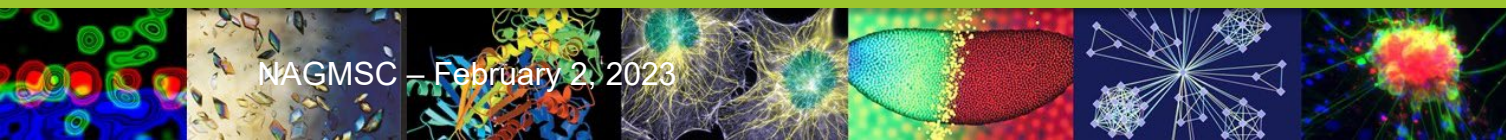
- **Veerasamy Ravichandran, Ph.D.**, Bioinformatics and Computational Biology Branch, Division of Biophysics, Biomedical Technology, and Computational Biosciences (move to the National Library of Medicine)
- **Lumy Sawaki-Adams, MD, Ph.D.**, Research Advancement Programs Branch, Division for Research Capacity Building (move to the National Institute of Neurological Disorders and Stroke)
- **Peggy Schnoor**, Data Integration and Dissemination Branch, Division of Data Integration, Modeling, and Analytics (retirement)
- **Vickie Southers**, Division of Management (retirement)



# NIH Deputy Director for Intramural Research

## Nina F. Schor, M.D., Ph.D.

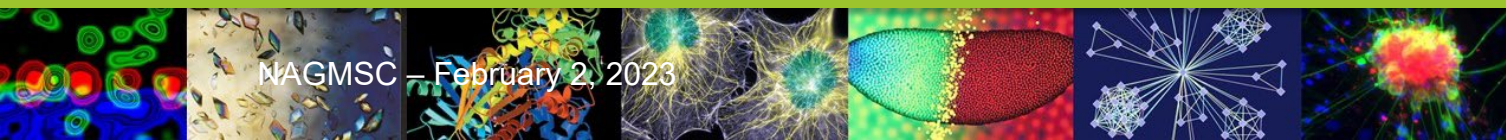
- Appointed NIH deputy director for intramural research in the NIH Office of the Director effective November 2022; replaced Michael M. Gottesman, M.D., who served as NIH deputy director for 29 years
- Will lead the NIH Intramural Research Program and facilitate coordination and collaboration among the 24 NIH institutes and centers that have intramural research components
- Brings substantial experience as an educator, scientist, clinician, and administrator; joined NIH in January 2018 as deputy director of the National Institute of Neurological Disorders and Stroke



# Director, National Center for Advancing Translational Sciences

## Joni L. Rutter, Ph.D.

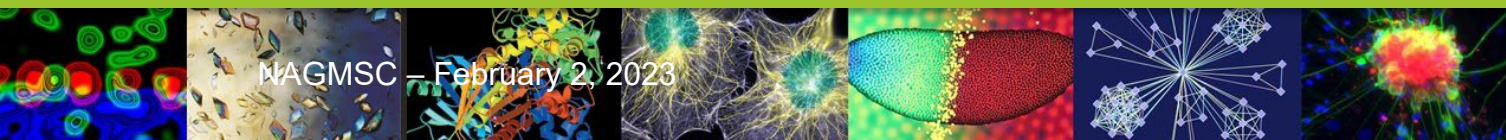
- Appointed director of NIH's National Center for Advancing Translational Sciences (NCATS) effective November 2022; previously served as acting NCATS director since April 2021
- Will oversee a diverse portfolio of research activities focused on improving the translational process of turning scientific discoveries into health interventions
- Has been a leader at NIH in enhancing community engagement and inclusion of underrepresented groups in biomedical research



# Director, Advanced Research Projects Agency for Health

## Renee Wegrzyn, Ph.D.

- Appointed as the first director of the Advanced Research Projects Agency for Health (ARPA-H), which was newly established to drive biomedical innovation that supports the health of all Americans
  - ARPA-H is an independent entity within NIH, and its director reports directly to the secretary of Health and Human Services
- Responsible for driving the agency's nascent research portfolio and associated budget, which is expected to support a broad range of programs to take on challenging health problems in pursuit of high-reward solutions

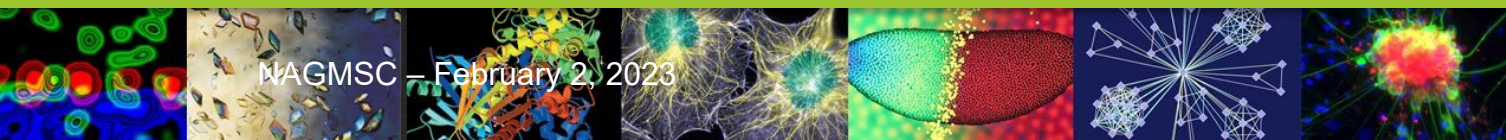


# NIH Departures

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## Roger I. Glass, M.D., Ph.D.

- Served as the director of the Fogarty International Center (FIC) and NIH associate director for international research for nearly 17 years
- As the longest-serving director of FIC, broadened NIH's global health footprint, partnering with all NIH institutes and centers to advance global health research
- Stepped down in January but will continue to serve as senior scientist emeritus at FIC, focusing on bolstering diversity and equity in Fogarty programs, working with NIH leadership to expand engagement in global health, and reinforcing existing partnerships abroad

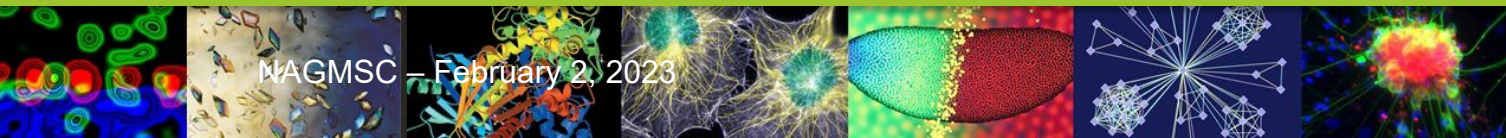
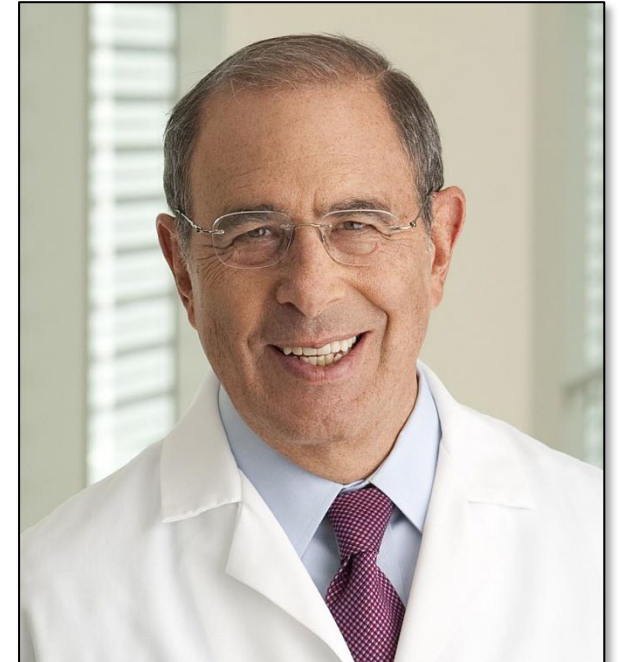


# NIH Departures (cont.)

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## John I. Gallin, M.D.

- Serves as the NIH associate director for clinical research and chief scientific officer of the NIH Clinical Center; will retire from federal service in March
- During his career of over 50 years at NIH, played an instrumental role in developing the NIH Clinical Center's research portfolio and training the next generation of clinical researchers





# NIGMS 2022 Fall Lecture Recordings

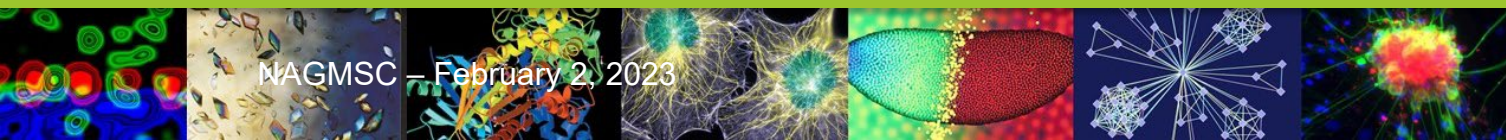
## Judith H. Greenberg Early Career Investigator Lecture

- César de la Fuente, Ph.D.
- University of Pennsylvania
- “Artificial Intelligence Approaches for Antibiotic Discovery”
- Recorded lecture: [videocast.nih.gov/watch=45918](https://videocast.nih.gov/watch=45918)

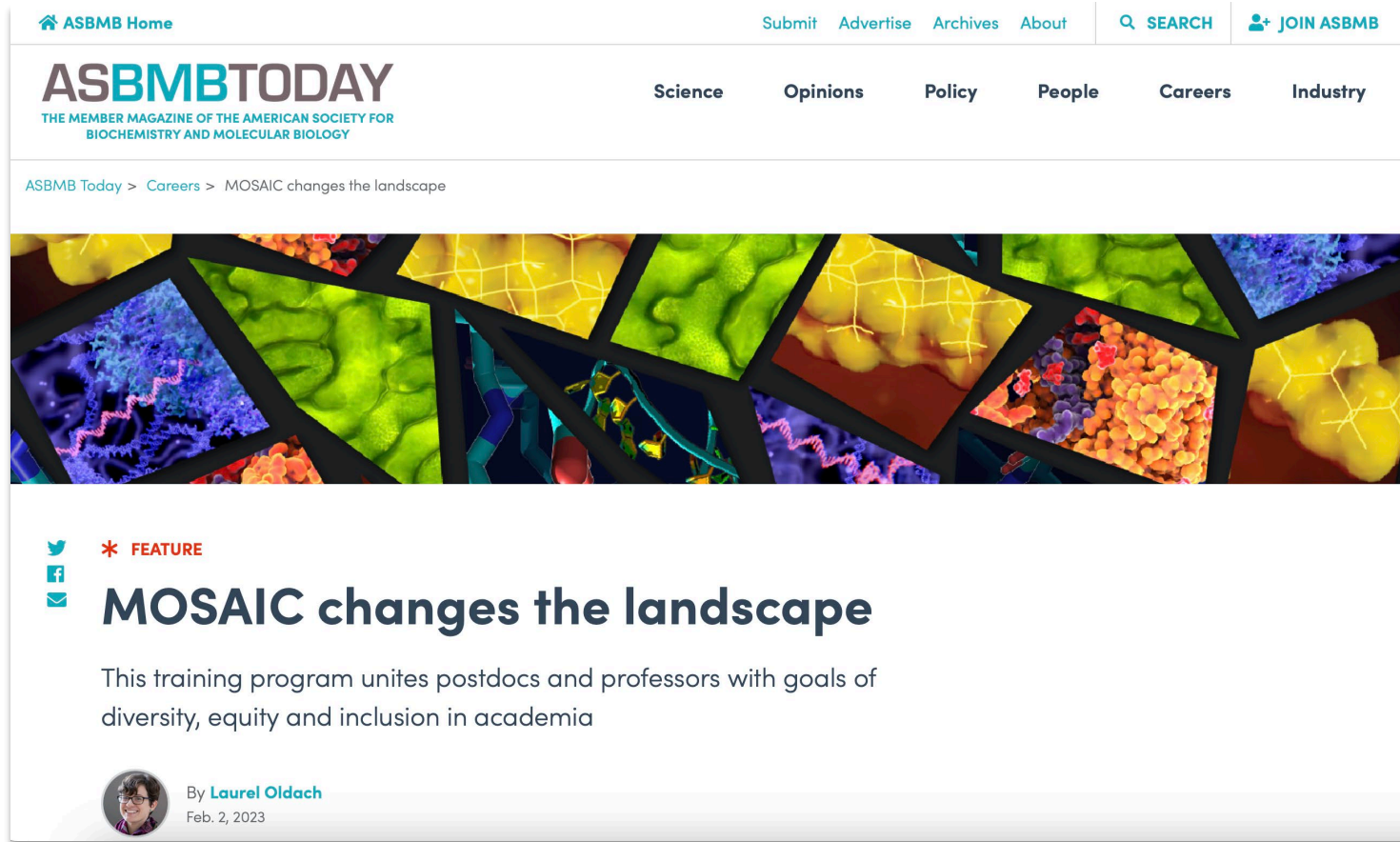


## DeWitt Stetten Jr. Lecture

- Sally L. Hodder, M.D.
- West Virginia University
- “Biomedical Research in Rural America: Much Accomplished, Much To Do”
- Recorded lecture: [videocast.nih.gov/watch=46035](https://videocast.nih.gov/watch=46035)

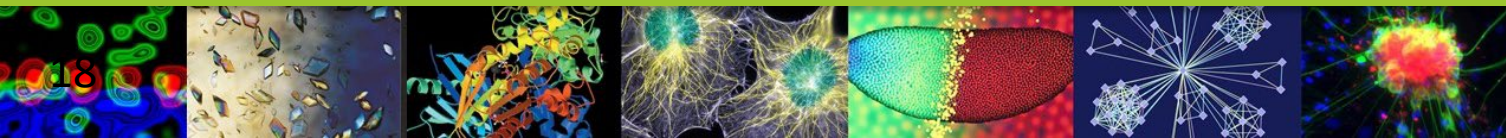


# MOSAIC In the News



The screenshot shows the ASBMB Today website. At the top, there is a navigation bar with links for 'ASBMB Home', 'Submit', 'Advertise', 'Archives', 'About', 'SEARCH', and 'JOIN ASBMB'. Below this is the ASBMB Today logo and a secondary navigation bar with categories: 'Science', 'Opinions', 'Policy', 'People', 'Careers', and 'Industry'. The main content area features a breadcrumb trail: 'ASBMB Today > Careers > MOSAIC changes the landscape'. A large, colorful mosaic image of various biological structures is displayed. Below the image, there is a 'FEATURE' tag with social media icons, followed by the article title 'MOSAIC changes the landscape'. A short paragraph describes the program as one that unites postdocs and professors with goals of diversity, equity, and inclusion. The author's name, 'Laurel Oldach', and the date, 'Feb. 2, 2023', are listed at the bottom of the article preview.

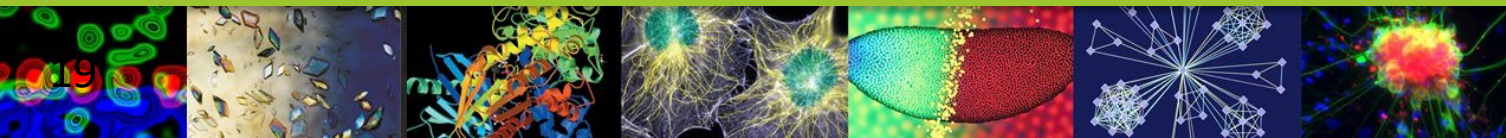
<https://www.asbmb.org/asbmb-today/careers/020223/mosaic-changes-the-landscape>



# LEAD MSTP FOA Published: PAR-23-030

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- Will support dual-degree clinician-scientist training (e.g., M.D.-Ph.D., D.O.-Ph.D., etc.), with a goal of broadening the institutional and geographic distribution of NIGMS Medical Scientist Training Programs
- Eligibility limited to Historically-Black Colleges and Universities, Tribal Colleges and Universities, and IDeA-State Institutions
- First due date is February 10, 2023; yearly in January thereafter
- Please help us spread the word to eligible institutions!



# SCORE → Support for Research Excellence (SuRE)

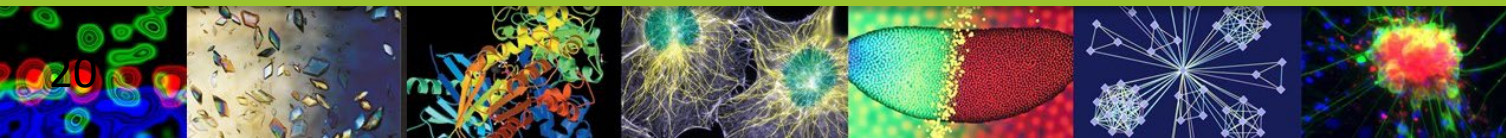
## Revised Program Objectives

- “Supporting research excellence” instead of “developing R01 grantees” in grantee institutions
- Emphasizing student participation in funded research
- Catalyzing and developing research culture at applicant institutions
- Broadening participation by eligible institutions nationwide

(In 2019 the SCORE portfolio had 194 awards to 48 institutions, 65% of them in CA, NY, and TX)

## New SuRE Grants

- Support for Research Excellence (SuRE) Award (R16) - \$100k DC/yr, 4 years, renewable
- Support for Research Excellence (SuRE-First) Award (R16)
  - for investigators with no prior research funding. \$125k DC/yr, 4 years, not renewable
- SuRE Resource Center (U24)--to broaden participation by building infrastructure & training



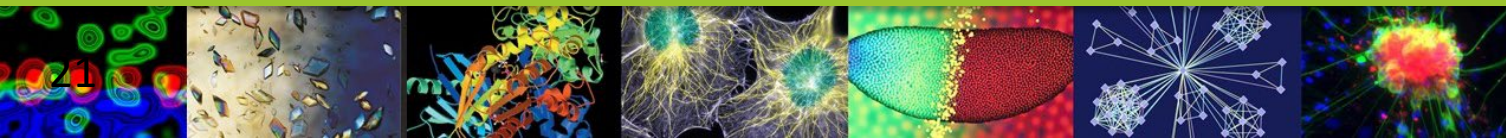
# Broadening Participation by Eligible Institutions Nationwide

## Programmatic efforts to broaden participation

- Established easy-to-follow institutional eligibility using publicly available data
- Extensive outreach activities, including
  - Pre-application webinars prior to every application due date
  - Staff presentations at more than 20 conferences
  - Encouraging faculty at INBRE affiliate institutions to apply

## Outcomes

- In the first two years (FY22-23) since launching the SuRE program, 60 applications were submitted from 37 institutions that had never participated in the SCORE program
- From the 30 applications submitted in FY22, 15 received SuRE awards. The 30 submitted in FY23 are currently under review



# U24 SuRE Resource Center: Broadening Participation Nationwide

- Establish/strengthen Office of Sponsored Programs through a Seed Grants Program
- Provide training and mentoring to faculty investigators on grant applications
- Nationwide outreach by the PIs and Regional Coordinators and a Steering Committee of stakeholders

## PIs (Univ. of Kentucky)



Brett Spear, PhD  
*U24 PI*



Paul Murphy, PhD  
*U24 PI*

## Regional Coordinators



Brittany Smalls, PhD  
U of Kentucky  
*North/East*



Ruby Broadway, PhD  
Dillard University  
*South/Midwest*



Arica Lubin, PhD  
UC-Santa Barbara  
*West*

## Steering Committee



James Ntambi, PhD  
U of Wisconsin  
*ASBMB Council*



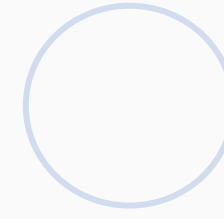
Carolyn Bohach, PhD  
U of Idaho  
*Sr. Institutional Official*



Michelle Martinez, PhD  
U. Central del Caribe  
*SuRE PI*



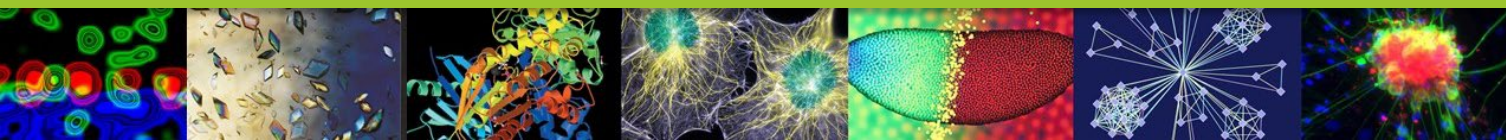
Zhu Zhou, PhD  
CUNY- York College  
*SuRE-First PI*



TBN  
*OSP Professional*



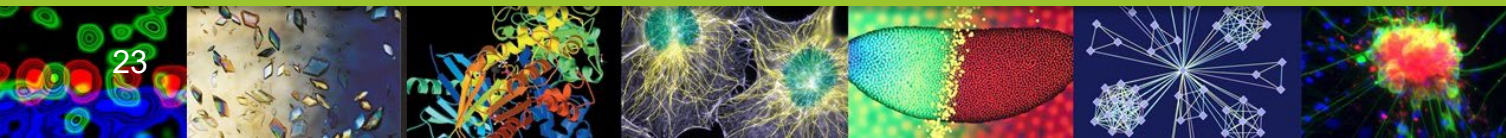
Fed Bernal, PhD  
NIGMS  
*Project Coordinator*



# Broadening Support for IDeA States via Partnerships

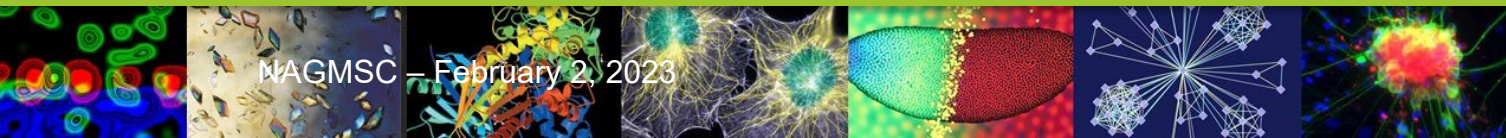
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- **Office of Research on Women's Health (ORWH)**
  - A partnership of 16 NIH ICOs to supplement IDeA awards for women's health research
    - FY20: 27 apps/19 awards; FY21: 26 apps/15 awards; FY23: 42 apps received, awards pending
  - ORWH plans to fund a COBRE in women's health research
- **Office of Data Science Strategy (ODSS) and NIH STRIDES**
  - Providing free cloud computing training (60 6-hour interactive sessions, each for 15 students)
  - Co-developing cloud-based self-learning tools (NIGMS Sandbox) for biomedical research
  - ODSS plans to fund a COBRE in data science for biomedical research



# Excellence in DEIA Mentorship Supplements

- Part of a new NIH program supported by the Chief Officer for Scientific Workforce Diversity (COSWD) that recognizes outstanding mentoring and contributions to enhancing diversity, equity, inclusion, and accessibility (DEIA) in the biomedical sciences
- In 2022, 17 NIGMS grants received more than \$3.7 million in administrative supplements to recognize excellence in mentorship and contributions to DEIA
- Applications for 2023 supplements are due February 17; visit [bit.ly/3BhhdgG](https://bit.ly/3BhhdgG) to review COSWD's DEIA mentorship supplements webpage and learn more





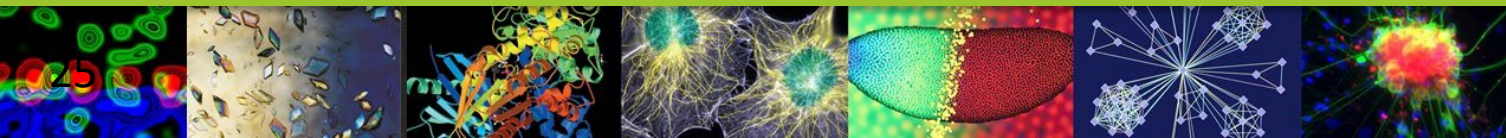
# ACD Working Group on Re-envisioning NIH-Supported Postdoctoral Training

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## Charge

- Evaluate whether there is evidence to support the perceived decline and shortage in PhDs seeking U.S. postdoctoral training positions, and document trends in PhDs choosing nonacademic post-graduate employment
- Assess and consider the factors influencing the scope and persistence of the issue, including COVID-19, the economy and inflation, trends in academic job markets, time to publish, immigration policy, and the growing biotechnology and biopharmaceutical industries
- Review and compare the mechanisms, effects, and relevance of other approaches to postdoctoral training (e.g., in other countries, other systems)
- Consider ways to increase support and retention of postdoctoral trainees on key issues related to quality-of-life and work-life balance concerns
- Engage key parties, both internal and external to the NIH, to understand and strengthen the U.S. postdoctoral training system

<https://www.acd.od.nih.gov/working-groups/postdocs.html>



# How to Improve Communication with the Research Community?

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- Getting the word out about programs, policies, outcomes, data, etc. seems to be increasingly difficult
- Social media is rife with misinformation, even about NIGMS programs and policies
- What are the most effective ways for NIGMS to communicate with:
  - Researchers
  - Trainees
  - Administrators & Institutional Leaders

