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LIVE WEBINAR SERIES

These webinars are live and available on-demand after the event. Register for individual webinars or an entire series.

Focusing on Minoritized and Nontraditional Students Webinar Series

Faculty Series Presented by ABRCMS Online. Funded by National Institute of General Medical Sciences.

This series focuses on a range of topics about creating diverse and inclusive campuses and tools for mentoring students.

Audience: Postdoctoral scientists, early/mid-career professionals, faculty, and program directors/administrators.

Community College Undergraduate Research Initiatives to Foster a Culture of Inclusion and Innovation
June 9, 2020 | 2–3 p.m. ET

This webinar will highlight the role community colleges play in diversifying the talent pool for STEM researchers, describe nationwide efforts to foster innovative and inclusive research, and discuss opportunities for engagement.

Improving Nontraditional Student Performance in STEM
June 2, 2020 | 2–3 p.m. ET

This webinar will review scholarly literature concerning nontraditional student performance in STEM, discuss potential applications of evidence-based strategies on different types of campuses, and identify metrics for analyzing nontraditional student performance in STEM.

Addressing STEM Equity Gaps Through Data
July 14, 2020 | 2–3 p.m. ET

This webinar will review efforts to close performance gaps between and among STEM students using data and analytics. Learn about the tools for using data to develop strategies to ensure equitable outcomes.
Professional Development Series for Trainees

Trainee Series Presented by ABRCMS Online. Funded by National Institute of General Medical Sciences.

This live, interactive series covers a range of topics about professional skillsets and scientific development, writing abstracts, and preparing for graduate school.

Audience: Community college students, undergraduate students, post-baccalaureate students, and graduate students.

Graduate School Application Preparation by Leveraging Your Summer Work
June 16, 2020 | 6–7 p.m. ET

For trainees applying to graduate schools in fall 2020, this session will identify tasks for the summer, describe choosing a program, review application strategies, and discuss how to gain an advantage.

Writing a Compelling Abstract
June 18 and 19, 2020 | 6–7 p.m. ET

Review ways to formulate your abstract to be as compelling as possible. Topics include the essential elements of an abstract, good examples of abstracts, presentation of data in abstracts, and crafting a coherent narrative.

Network Your Way to Success in STEM
June 23, 2020 | 3–4 p.m. ET, 6–7 p.m. ET

Learn the basics of networking and the importance of having and utilizing your network. This webinar will focus on skills that trainees can gain through experiences at academic meetings and conferences.

Communicate Your Science: Preparing the ABRCMS Abstract
July 31 and August 5, 2020 | 6–7 p.m. ET

For trainees submitting abstracts to ABRCMS, this session will review criteria that reviewers use to rate abstracts for ABRCMS, describe the elements of successful abstract submissions, and discuss examples from previous ABRCMS awardees.

Data Preparation and Presentation
September 18, 2020 | 6–7 p.m. ET

Learn the principles of conveying scientific data, including exploration of the differences between quantitative and qualitative data, techniques for presenting, describing, and analyzing data, and examples of data presentation in scientific conference presentations.

Presenting Your Data at a Scientific Conference
October 2, 2020 | 3–4 p.m. ET

For trainees preparing for presentations at conferences, this session will review techniques for making a coherent story, analyze examples of effective scientific presentations, and discuss the elements of presentations appropriate for poster and oral presentations.

Scientific Conference Preparation: Gearing Up for ABRCMS
October 20, 2020 | 6-7 p.m. ET
October 22, 2020 | 3-4 p.m. ET
October 23, 2020 | 12-1 p.m. ET

For trainees preparing to attend ABRCMS, this session reviews the ABRCMS Code of Conduct, schedule planning resources, and principles of the scientific program, networking, and exhibitor interactions.
Personal Statement Preparation
December 10, 2020 | 6–7 p.m. ET

For trainees preparing graduate school applications, this session will conduct peer review of personal statements, discover the most common errors and mistakes on personal statements, and review best practices with writing experts.

Nuts and Bolts of Science Outreach Webinar Series


This series will focus on the practical elements of beginning or advancing your work in public science outreach, with a focus on microbiology outreach. Presentations will include tips and tricks, tools for planning and evaluation, case studies, and links to relevant resources. Series includes three live 1-hour webinars, and recordings will be made available for on-demand viewing.

Audience: Faculty, early/mid-career professionals, postdoctoral scientists, and graduate students.

Outreach Possibilities & the Exploration Station
Live: October 7 | 2–3 p.m. ET

Participants will hear a series of brief case studies of the types of outreach work that fellow scientists are doing around the world and learn about the concept of an Exploration Station. Examples of tools for planning objectives for outreach activities and selection and identification of audiences/venues will be provided.

The Exploration Station Part II & Presentation Opportunities
Live: November 4 | 2–3 p.m. ET

Participants will develop Exploration Stations specific to their research topic (or area of interest) and learn about practical tips for “science café”-style outreach presentations, including strategies for encouraging dialogue and ways to link research topics to practical examples.

Expand Your Impact of Outreach and Professional Development
Live: December 2 | 2–3 p.m. ET

Participants will learn about opportunities to connect their work in science outreach to their careers and professional development. Also, participants will learn about two vital elements of expanding the scope of outreach initiatives.
On-Demand Webinar Series

These webinars are available on-demand. Register for individual webinars or an entire series.

COVID-19 Impacts on Minoritized Scientists Series


The current COVID-19 pandemic has changed the academic and research experience for students, and is sure to impact marginalized and minoritized populations. This 5-part series offers guidance and perspectives on the impact of COVID-19 on the training and scientific maturation of minority scientists.

*Audience: Students, postdoctoral scientists, early/mid-career professionals, faculty, and program directors/administrators.*

Research Experience in the Time of COVID-19

With many programs not offering research experiences this summer, how can you still get the benefits of research experience? This series will provide resources, activities, and strategies within the ABRCMS network to consider for remote summer research opportunities.

Research Careers and the COVID-19 Impacts on Minoritized Students

The current pandemic has long-ranging implications for research careers and scientific progression of trainees at all levels. This series will present current research, resources, and perspectives on the impact of COVID-19 on diversity in the biomedical sciences.

Mental and Emotional Health of Minoritized Students during COVID-19

Of all the impacts of COVID-19, minoritized student populations stand to be disproportionately affected by rapid changes. This series will explore research, resources, and perspectives on working with minoritized students and supporting their mental and emotional health.

Implicit Bias in the Time of COVID-19

During times of crisis, incidents of implicit bias may be more pronounced—especially given the rapidly changing landscape for internships and jobs. This series will analyze current research, best practices, and perspectives on the impact of COVID-19 on implicit bias in the biomedical sciences.

The Changing Grant Landscape for Minoritized Scientists

The current pandemic is certain to change grant priorities and opportunities for minoritized scientists. This webinar will provide perspectives on the changing grant landscape and explore emerging opportunities for minoritized scientists.
Manuscript Writing and Publishing for Scientists Webinar Series


This series equips you with the skills you need to publish in top tier scientific journals, no matter what the field. Learn from scientists who frequently publish and review in ASM journals.

**Audience:** Graduate students, postdoctoral scientists, and faculty.

**Writing Compelling Titles and Abstracts**
Titles and abstracts are the reader’s first, and sometimes only, encounter with your work. Learn tips to help your title and abstract grab the reader’s attention and convey the most critical finding and their importance within a few words or sentences.

**Setting the Stage: Writing Introductions**
The introduction must give the reader the necessary information to understand the study, state the knowledge gap and/or the hypothesis to be tested, and provide a hint to the approaches taken. Learn proven strategies to guide you through the writing process for the introduction section.

**Rendering Your Awesome Data with Figures, Tables, and Figure Legends**
You worked very hard to collect your data, so do not sell your data short with ineffective figures, tables, and figure legends. Learn how to create better visual elements in your manuscript to show a more exciting and clear story with your data.

**Tell Your Story with Clear, Logical Results (and Associated Methods)**
This webinar will discuss approaches for organizing and writing results and associated methods. Learn the level of detail and verb tense for each section, as well as the difference between data interpretation, conclusions, and the discussion section.

**The Big Picture: Writing Discussions That Highlight the Significance of Your Results**
Most people agree that writing the discussion section is the most challenging part of writing a scientific manuscript. Learn two “first paragraph” approaches to get you started, as well as strategies for deciding what to include, what to exclude, and how much to speculate.

**Authors Are From Mars; Reviewers Are From Venus**
There is much more to getting published than just writing the manuscript! Here, learn publication tips unrelated to writing the content, such as choosing a journal, finalizing the manuscript, and interpreting and working with reviewer and editor comments.

**How to Review a Manuscript**
Reviewing manuscripts is a great way to learn to improve your writing while making an important contribution to your field. This webinar will discuss guidelines to help you review manuscripts fairly and effectively, using microbiology manuscripts as models.
Teaching Undergraduate Biology Webinar Series


This series introduces fundamental concepts of evidence-based teaching that you can immediately apply in the undergraduate classroom or lab, as well as essential career development tips for educators.

*Audience: Faculty, early/mid-career professionals, postdoctoral scientists, and graduate students.*

Learning for All: The Practice of Inclusive Teaching
Inclusive teaching is the practice of using evidence-based methods to ensure that all of your students have the opportunity to succeed. Educators will get ideas for how to implement inclusive teaching strategies for their students.

Curriculum Design for Biology
Backward design is a common course design framework in STEM. Instructors will learn the value of backward design, how the backward-designed classroom is different, and to start to construct assessable learning outcomes.

Aligning Assessment with Learning Outcomes
Student learning can be assessed using many techniques, but must always align with the learning outcomes. This webinar will discuss the different types of classroom assessments, formative and summative, and show you how to determine whether your assessments are measuring what you intend.

Engaging Students in the Classroom
Students who are engaged during the entire learning process retain more and improve their skills. Learn how a learner-centered classroom is different from an instructor-centered classroom and the principles and research behind active learning.

Active Learning Techniques
Active learning encompasses any activity where the student is actively engaged in the learning process, rather than passively sitting in a lecture. Here, you will see concrete examples of engaging activities for biology and microbiology.

Writing a Teaching Philosophy Statement
Many applications to positions in higher education that include teaching duties will request a teaching philosophy statement. Learn how to make the visible and invisible aspects of your teaching evident in this crucial job application document.

Grant Writing Webinar Series


Learn tips and tools to find and write competitive grant applications through seven webinars. The goal is to (i) understand core aspects of successful grant applications, (ii) become familiar with funders (i.e., NIH, NSF, and foundations) and (iii) learn the nature of review panels.

*Audience: Faculty, early/mid-career professionals, postdoctoral scientists, and graduate students.*
The Funding Landscape and an Overview of the Grant-Writing Enterprise
Learn the key elements of a grant solicitation, funding sources, and best practices.

The Core of a Successful Grant Application
Beginning a grant application is an overwhelming endeavor. This webinar will highlight writing strategies and key components of an application, using the NIH/NSF as models.

Addressing Rigor and Reproducibility in Grant Applications
Funding agencies are leaders in promoting rigor in scientific research. Using the NIH/NSF as models, learn how to shape your grant proposal to follow explicit guidelines.

Introducing Yourself to Reviewers: Impactful Biosketches
Biosketches are hallmarks of grant proposals. Learn how to develop a strong biosketch.

The Grant Review Process
The review process can seem like a black box to those submitting grants. Learn from seasoned grant reviewers and avoid common mistakes in your submission.

Applying for Foundation Funding
The landscape of private foundation funding is a unique funding opportunity. Learn how to connect with foundation staff and shape a proposal for unique opportunities.

What Do You Still Need to Know to Write a Winning Proposal?
This open Question and Answer format allows participants to learn from lingering questions about the grant writing and review process.

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