WEBINAR SERIES
May-November 2019

Audience: faculty, early/mid career professionals, postdoctoral scientists and graduate students

Strategies for Teaching Undergraduate Biology Online Series

This series focuses on innovative approaches that participants can integrate into their classrooms or teaching labs. Registration is available as a six-part webinar bundle or individual webinars.

May 14, 2019, 2:00 – 3:00 p.m. ET

Developing Interdisciplinary Curricula for Introductory Biology
To understand foundational biological principles, students must have a working knowledge of scientific and non-scientific disciplines. The objective is to create interdisciplinary curricula to increase students’ conceptual understanding of key biological concepts.

September 10, 2019, 2:00 – 3:00 p.m. ET

Developing Quantitative Skills Using Educational Resources
Strong qualitative skills are critical for students to excel in data-rich fields. Webinar will explore how inclusive teaching practices can be used to increase students’ quantitative literacy and confidence working with data.

October 8, 2019, 2:00 – 3:00 p.m. ET

Staying Current: What Science & Skills do Educators Need to Know and Teach in Biotechnology?
The biotechnology and bio manufacturing work force requires unique skillsets. Webinar will focus on three-part strategy for identifying the science knowledge and skills that are important in biotechnology and bio manufacturing industry for student success.

October 28, 2019, 2:00 – 3:00 p.m. ET

Incorporating Scientific Primary Literature in your Course’s Learning Activities
Getting students to understand scientific papers can be a valuable activity to help students connect microbiology concepts, think critically, and also appreciate the nature and difficulty of science. Discussion will focus on ways to incorporate scientific literature into a course and pros and cons are for the different methods.

November 18, 2019, 2:00 – 3:00 p.m. ET

Active Learning: A Strategy Supported by Data
Engaging students in active learning is not a new concept, but is one that needs to be well-developed to allow instructors to measure student gains. Many strategies exist, but sifting through resources is daunting. Learn about this pedagogy and data that support it.

December 9, 2019, 2:00 – 3:00 p.m. ET

Active Learning: Creating Connections between Students and Knowledge
The session will be an application of active learning and will share vetted techniques. Participants will leave with new activities to use in their face-to-face, virtual or hybrid classroom environment. Learn how to select an appropriate activity and how to assess its impact on student learning.

Grant Writing Online Series

Learn tips and tools to find and write competitive (NIH, NSF, and foundation) grant applications through this seven-part webinar series. Webinar includes in-person consultations at ASM Microbe. Registration is available as a seven-part webinar bundle or individual webinars.

September 19, 2019, 2:00 – 3:00 p.m. ET

The Funding Landscape and an Overview of the Grant-Writing Enterprise
Learn the key elements of a grant solicitation, finding sources and best practices.

October 10, 2019, 2:00 – 3:00 p.m. ET

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.

October 31, 2019, 2:00 – 3:00 p.m. ET

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.
November 7, 2019, 2:00 – 3:00 p.m. ET
Introduction Yourself to Reviewers: Impactful Biosketches
Biosketches are hallmarks to grant proposals. Learn how to develop a strong biosketch.

November 21, 2019, 2:00 – 3:00 p.m. ET
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.

December 5, 2019, 2:00 – 3:00 p.m. ET
Applying for Foundation Funding
The landscape of private foundation funding is a unique funding opportunity. Learn about how to connect with foundation staff and shape a proposal for unique opportunities.

December 12, 2019, 2:00 – 3:00 p.m. ET
What Do You Still Need to Know to Write a Winning Proposal?
This open Question and Answer format allows participants to submit lingering questions about the grant writing and review process.

September 11, 2019, 2:00 – 3:00 p.m. ET
Features of a Strong DBER Research Question (RQ) and the Role of Theory in DBER Research
Understanding the characteristics of DBER questions is critical to evaluate and make use of the DBER literature to inform one’s teaching and scholarship. Participants will review DBER research questions and examine how theory can inform their development.

September 25, 2019, 2:00 – 3:00 p.m. ET
Journal Article 1 - Classroom Interventions
The DBER experimental design process has some parallels and differences to bench research. Learn how theory informs the process and start developing your unique research question.

October 9, 2019, 2:00 – 3:00 p.m. ET
Journal Article 2 - Revealing Student Knowledge and Skill
Unpack methodologies that guide qualitative research and learn how to create DBER questions that align to existing frameworks. Participants will gain a better understanding of qualitative research methods.

October 23, 2019, 2:00 – 3:00 p.m. ET
Exploring Qualitative and Quantitative Analyses Beyond the Bench
Link DBER theory with a research question, experimental design and rigorous analyses. Discussion will focus on basics of qualitative data analyses and strategies.

November 6, 2019, 2:00 – 3:00 p.m. ET
Journal Article 3 - Factors Affecting Student Success
The factors which affect student success in our classrooms are multiple and complex, but are often invisible and overlooked by us as we plan and implement our courses. Participants will learn the affordances and limitations of qualitative research methodologies which reveal deep insight into the personal experiences of people.
November 20, 2019, 2:00 – 3:00 p.m. ET

Journal Article 4 - Developing Assessment Tools
Assessment tools are critical in DBER and will be the focus of this webinar. Explore instruments and resources the DBER community leverages to guide their work.

December 4, 2019, 2:00 – 3:00 p.m. ET

Getting Started in DBER Work
Learn pathways bench scientists take to begin education research. The webinar shares approaches educators take to leverage DBER theory and inform teaching practices.

ABRCMS Online Faculty Series

This series focus on a range of topics on creating diverse and inclusive campuses and tools for mentoring students. Offerings are complimentary due to grant funding. Registration is required.

Audience: faculty, early /mid career professionals, and postdoctoral scientists

May 28, 2019, 2:00 – 3:00 p.m. ET

Cultivating Strategic Partnerships for Promoting Diversity and Inclusion in the Biosciences
Join ABRCMS for a discussion about using strategic partnerships between various stakeholders in the biomedical research workforce to further diversity and inclusion initiatives. Participants will discover models of strategic partnerships that work for cultivating diversity, explore methods for evaluating the effectiveness of programs, and review the current state of diversity in the biosciences.

July 23, 2019, 2:00 – 3:00 p.m. ET

Engaging Diverse Student Populations in Undergraduate Research
Discussion will focus on best practices for targeted engagement of diverse students in undergraduate biomedical research. Review current statistics for undergraduate research among diverse students, discuss techniques for recruiting and retaining diverse students, and explore innovative approaches to fostering diversity in student research and scientific interest.

August 27, 2019, 2:00 – 3:00 p.m. ET

Creating a Diverse and Inclusive Campus: Strategies for Helping Nontraditional Students Succeed
Participants will review techniques for gauging the effectiveness of initiatives targeting nontraditional students in biomedical sciences, engage in discussion about the unique needs and explore techniques for working with nontraditional students.

December 3, 2019, 2:00 – 3:00 p.m. ET

Evidence-Based Strategies to Improve Nontraditional Student Performance in STEM
Participants will review scholarly literature concerning nontraditional student performance in STEM, discuss potential applications of evidence-based strategies on different types of campuses, identify metrics for analyzing nontraditional student performance in STEM, and explore the barriers and solutions for incorporating programs.

ABRCMS Online Student Series

This series cover a range of topics on professional skillset and scientific development, writing abstracts, and preparing for graduate school. Offerings are complimentary due to grant funding. Registration is required.

Audience: undergraduate students, post baccalaureate students, community college students.

May 21, 2019, 6:00 – 7:00 p.m. ET

So You’ve Got a Research Mentor…So What?
Having a research mentor is only the first step. What can you do to cultivate a career-long relationship with your research mentor? Participants will discuss the benefits of research mentors, practical skills for working with research mentors, communication skills, and navigating difficulties in the mentor-mentee relationship.

Week of June 17 & Week of August 5, 6:00 – 7:00 p.m. ET

Writing a Compelling Abstract
Doing some interesting research and thinking about submitting an abstract to ABRCMS? Learn the essential elements of an abstract, identify good examples of abstracts, discuss presentation of data, and explore ways to craft a coherent narrative in an abstract.
July 16, 2019, 3:00 – 4:00 p.m. ET, 6:00 – 7:00 p.m. ET

**Networking Essentials**
Networking is essential as a scientist. Learn about the different settings for networking, explore tools for networking in different settings, and discuss effective follow-up strategies after attending networking events.

August 20, 2019, 3:00 – 4:00 p.m. ET, 6:00 – 7:00 p.m. ET

**Data Preparation and Presentation**
Preparing and conveying scientific data is a critical skill. Explore the differences between quantitative and qualitative data, discover field-specific techniques for presenting, describing, and analyzing data, and interpret different examples of data presentation in scientific conference presentations.

September 17, 2019, 3:00 – 4:00 p.m. ET, 6:00 – 7:00 p.m. ET

**Telling Your Story through the Data**
You’ve gotten all of your data together…are you ready to present? Review techniques for making a coherent story from their project, analyze examples of effective scientific presentations, and discuss the elements of presentations appropriate for poster and oral presentations.

December 10, 2019, 6:00 – 7:00 p.m. ET

**Personal Statement Preparation**
Participants will conduct peer review of personal statements, discover the most common errors and mistakes on personal statements, and review best practices with writing experts.

**WORKSHOP AND CONFERENCES**

June 19–20, 2019, San Francisco, CA

**The Microbe Academy for Professional Development (MAPD)**
In-person workshop held prior to ASM Microbe 2019, this 1½ day professional development workshop provides undergraduate and graduate students skillset training in presentations techniques, networking and gives the science answers they have been looking for. Abstract submission and attendance to Microbe is required. Registration is required.

August 1–4, 2019, Tysons, VA

**ASM Conference for Undergraduate Educators (ASMCUE)**
ASMCUE is driven by, for and with the community! Attendees gain best practices and classroom strategies, hear biology education research updates, and learn from scientific speakers. Presentations include interactive workshops, education sessions, posters, and short oral talks. Educators are invited to contribute to the program and learn from peers. Travel awards are available to presenters.

November 13–16, 2019, Anaheim, CA

**Annual Biomedical Research Conference for Minority Students (ABRCMS)**
Premier STEM conference showcasing cutting-edge science talks, poster and oral presentations, professional development training, graduate school opportunities, and networking opportunity. Travel awards available to students and researchers in twelve scientific disciplines.
www.asm.org/catalogue

For questions or more information about ABRCMS online, contact abrcms@asmusa.org.

For questions about all other offerings, contact education@asmusa.org.