



QUBES

The Power of **Biology** × **Math** × **Community**

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Featured Resource:

Lessons from the Genomics Education Alliance



Description:

Lessons and exercises for those interested in using BLAST and/or genome browsers, bioinformatics and genomics approaches, or RNA-Seq analysis in their courses.

The GEA aims to curate resources and workflows to ensure the sustainability of undergraduate education in bioinformatics and genomics. They would like your help in piloting their BLAST, Genome Browser, or RNA-Seq modular curriculum and to provide them with feedback on whether these resources are effective in the classroom and help you manage your teaching responsibilities.

GEA Lessons

- [Introductory lesson on BLAST](#)
- [Modular curriculum using genome browsers to understand eukaryotic gene function](#)
- [RNA-Seq curriculum using Jupyter notebooks](#)

Action items:

You can pilot these lessons and contribute to revisions! [Fill out this form to connect with the group.](#)

[Subscribe to our Community Spotlight](#)

...this month, you'll learn about Anne Rosenwald, Professor at Georgetown University, and more teaching resources in genomics and bioinformatics!



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QUBES News

Applications Open for the 2021 BIOME Institute



We are so pleased to announce that the 2021 BIOME Institute, offered by BioQUEST in collaboration with QUBES, has opened applications!

From Pieces to Patterns: Building a Scientific Worldview

Summer Session: July 19 - August 6, 2021

Fall Working Groups: September 6 - November 19, 2021

During the Institute, participants will explore how pedagogy can guide students to see the forest and the trees—we'll focus on practices and resources that help learners incorporate detailed understandings into a meaningful framework, a scientific worldview, that will enable them to make predictions, solve problems, and see science in a broader, interdisciplinary context.

The Institute will have a parallel emphasis on how our scientific worldviews are enriched by the diversity of our communities. We aim to support faculty in incorporating more inclusive teaching practices, with the goal of better preparing students to build a broad scientific worldview that reflects the interdisciplinarity of modern scientific practice. We also want to help faculty empower students to communicate scientific ideas effectively both within and beyond the classroom.

[Visit the 2021 BIOME for more information and to apply.](#)

Early bird deadline is April 12.

QUBES Launches Community Spotlight

We've replaced our Resource of the Week newsletter with a monthly spotlight on a person, resource or set of resources, group, or project—we're very excited to feature the amazing work and people associated with QUBES (our first spotlight will be Anne Rosenwald!).

If you haven't already, you can [subscribe to the QUBES Community Spotlight here](#). We hope that this will be a way for people to learn more about our community and to connect and collaborate.

NEW - Open Science and Education Practices Tagging Ontology

- Open Science and Education Practices Ontology **OPTIONAL**
- Open Educational Practices
 - Open Access
 - Open Education
 - Open Educational Resources (OER)
 - Defining the "Open" in Open Content and Open Educational Resources
 - Open Source
 - Open Data
 - Open Science
 - Open Pedagogy

When publishing in the QUBES Resource System, users can both add their own tags and choose tags from set ontologies. The most recent addition is the Open Science and Education Practices Tagging Ontology. If your resource incorporates Open Science or Education practices be sure to tag it! Or, browse resources tagged this way by searching for tags from this ontology.

Learn more in [this resource about the Open Science and Education practices ontology](#) and at [the BuiLDs ontology page](#).

Kudos

Sarah Prescott, Ph.D., to Lead BioQUEST

BioQUEST is very excited to welcome Sarah Prescott, Ph.D., as our next Executive Director, effective March 1, 2021. Sarah is an Associate Professor of Biochemistry at the University of New Hampshire (UNH), where she teaches courses in biochemistry, genomics, and general, green, and organic chemistry.



Sarah's involvement with the BioQUEST community began when she was a graduate student, and she has recently taken on more responsibility, helping to plan the summer workshop and BIOME institutes, as well as serving as a mentor in multiple Faculty Mentoring Networks (FMNs).

"I am very excited to be expanding my role in this organization that has provided such support to me over the years," Sarah wrote. "I hope to provide stability and leadership as we continue to help faculty all over the world grow as educators and as we look ahead to a number of new and exciting projects."

Sarah succeeds Kristin Jenkins, who has taken a position as Executive Director of the [Texas Institute for Discovery Education in Science \(TIDES\)](#) at the University of Texas at Austin after more than 10 years at the helm of BioQUEST. [You can read more about Kristin's tenure at BioQUEST here.](#)

"I have really enjoyed my time at BioQUEST and will miss my daily interactions with the fantastic staff, leadership team, and community," Kristin wrote. "At the same time, I am excited about the ideas Sarah has for BioQUEST, and I look forward to seeing the community thrive under her leadership."

[Read more about Sarah's background and the leadership transition in our full announcement.](#) You can connect with Sarah on Twitter [@drsarahgrace](#) or reach out at [sarah "dot" prescott "at" bioquest "dot" org](mailto:sarah.prescott@bioquest.org).

Over 25 Letters of Support Written for New Grants Involving QUBES

Since the beginning of the past year's grant cycle (June 1, 2020), QUBES and BioQUEST staff have written over 25 letters of support for new projects--some of which have already been funded.

As always, this process makes us appreciate (and be in awe of) the incredible work being done to improve STEM education--and we're so grateful to those who have included us in their plans.

For those looking ahead to the next grant cycle, QUBES has a comprehensive project support infrastructure, built by and for STEM educators. Hosting a project on QUBES can help address challenges such as building and coordinating your community, disseminating your products, and documenting your impacts. Contract services to QUBES also help support keeping QUBES open and accessible to all.

Please visit our new [Grant Services page](#) to learn more about how QUBES can be used to support education projects. [Or fill out this brief form](#), and we will get in touch with you.

Partner News and Opportunities

Genomics Education Alliance Seeks Input on Genomics Concepts for Curriculum Development



The Genomics Education Alliance is seeking community input on a set of Genomics Concepts. If you are involved in genomics and/or bioinformatics, we would greatly appreciate your feedback.

[Learn more and fill out the Google form here.](#)

Deadline for HITS Case Fellows is Extended to April 16



Faculty and postdoctoral fellows devoted to the use of case studies and problem-based learning pedagogies can apply to become HITS Case Fellows!

The HITS network will train Case Fellows in the use of case studies based on HT data by using a yearly workshop. Case Fellows receive a yearly stipend and support to attend two workshops. Our HITS 2021 workshop will be held, tentatively, during the month of June 2021.

For more information, download our [Case Fellows flyer](#) or [visit the HITS QUBEShub page](#).

The deadline is now April 16, 2021.

NEON Calls for Advisory Committee Nominations



NEON is seeking nominations for its Science, Technology & Education Advisory Committee. Please consider nominating yourself or a peer by April 1, 2021!

NEON's STEAC is an advisory body to the NEON Program that provides strategic advice to Battelle, the NEON Principal Investigator (PI), and NEON Program staff on the planning and operation of the NEON Program and other relevant programs. We are seeking nominees that represent a diversity of institution types, expertise, backgrounds, perspectives, identities, and career stages. In particular, we are seeking scientists with specialization in organismal biology, remote sensing, and cyberinfrastructure.

[Find information on how to submit nominations.](#)

NSF-Sponsored R Learning Community Seeks Participants

Are you interested in learning how to use R in your teaching or research? The R in Education and Assessment of Learning (REAL) network is an NSF-funded research coordination network focused on bringing together communities of scholars who are interested in learning and using R in their teaching and/or their education research.

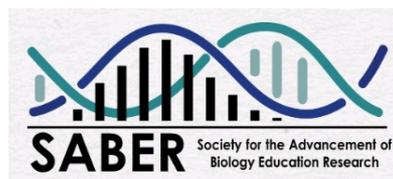
In this program, 12 scholars work together throughout the year to learn the R language and then develop educational and research modules that they can share with the community at large under the guidance of experienced colleagues. It is open to scholars at any stage of their career and assumes no prior knowledge of R or coding. [See the summary of the benefits and expectations for scholars in the program.](#)

[You can find the application here](#) (please note that the form will take approximately 15 minutes to complete). The deadline is March 31st.

For more information contact Rob Erdmann: [rerdmann "at" r "dot" umn "dot" edu](mailto:rerdmann@r-dot-umn-dot-edu).

Partner Events

SABER Continues Spring 2021 Seminar Series on Inclusion in Academic Biology



SABER is sponsoring a virtual seminar series "Striving for inclusion in academic biology," every other Thursday in Spring 2021 at 9:00 AM PT. All sessions are virtual, free, and no registration is required. [Learn more about the Spring Series here.](#)

The upcoming seminars are:

Thursday, March 18th, 9 am PT

"Systemic disadvantages for LGBTQ professionals in STEM"

Erin Cech, PhD, University of Michigan

Thursday, April 1st, 9 am PT

"Disability culture in the academy: Stories, lessons & research"

Anjali Forber-Pratt, PhD, Vanderbilt University

Webinar on Using NEON's Mobile Deployment Platforms, March 16

Did you know you can request your own mobile NEON site? NEON is excited to get its Mobile Deployment Platforms (MDPs) out into the field and working for you! Learn how to request an MDP, what measurements it can take, costs, potential use cases, and more!

[Join NEON staff for a webinar Tuesday, March 16, 11-11:45 AM Mountain Time.](#)

You can find more info on MDPs and other [Assignable Assets here](#). [Learn more and register.](#)

Ecological Forecasting Initiative to Host Panel on Resources for Remote Teaching, March 25

The Ecological Forecasting Initiative Diversity, Equity, and Inclusion Working Group is hosting a 4 part virtual seminar series to foster conversations and actions for increasing diversity in ecological forecasting. [Video replays and resources from their first three panels are available here.](#)

The fourth panel will be held on March 25, 2021 and will focus on online resources that are useful for remote teaching & learning. Participants will hear from three panelists about their experiences using, creating, and promoting materials, followed by a Q&A session. The formal portion of the call will last one hour with an optional 30 minutes for unstructured, casual discussions.

[Find more information about the panelists and register for the workshop and to receive the Zoom link.](#)

Anyone interested in thoughtful discussions about diversity and teaching or conducting data analysis are welcome to join the call. Feel free to share this event with your colleagues.

Webinar Series to Share Immunology Teaching Resources

This webinar series is focused on sharing resources that can be applied to the undergraduate, graduate, and professional immunology classrooms and building a network of immunology educators. For each webinar, panelists will share their approaches to teaching immunology followed by time for discussion among attendees. Materials for learning activities that are discussed will be provided for those interested in incorporating them into their own classroom.

Registration is complimentary and is open to Society for Leukocyte Biology members and those interested in the topic. [To see the schedule and register, visit the SLB website.](#)

NABT Conference Announced, Call for Session Proposals



NABT is currently accepting sessions for the [2021 Professional Development Conference](#). Scheduled for November 11 - 14 at the Atlanta

Marriott Marquis in Atlanta, Georgia, the NABT conference is the place to share your favorite strategies and resources with your favorite community of biology teachers.

All proposals are being accepted online at 2021 Session Proposals and [submission guidelines](#) are available to help you prepare.

The call for education sessions will be open until April 1. [Submit a proposal](#).

Resources and Opportunities

CBE–LSE and the ASCB Host Online with LSE Free Webinars

The Editorial Board of CBE–Life Sciences Education (LSE) and the American Society for Cell Biology invite you to our upcoming Online with LSE free webinars:

[Exploring the Anatomy of a Research Study – Behind the Scenes of a Qualitative Research Study with Strong Theoretical Framing](#)

When: Friday, March 12, at 12:00 pm EST, 11:00 am CST, 10:00 MST, 9:00 am PST

In this session of Online with LSE, we will meet the co-authors of the LSE feature, Exploring the Anatomy of a Research Study, and learn more about their approach to annotating LSE research articles. Authors Rebecca Price, Clark Coffman, Danielle Jensen-Ryan, and Jennifer Jo Thompson will be the speakers.

[Investigating Undergraduate Biology Students' Science Identity Production](#)

When: Friday, April 9, at 12:00 pm EDT, 11:00 am CDT, 10:00 MDT, 9:00 am PDT

This session of Online with LSE will feature Paul Le, Assistant Professor of Biology, at Red Rocks Community College. During the session, we'll discuss his research team's interview study that explored how students' socially constructed identities (race, ethnicity, gender, etc.) and experiences may have impacted the production of their science identities.

Biology Education Intersegmental Collaborative Seeks Participants and Mentors

The call for proposals to the NSF-Research Coordination Network [BEIC](#) (Biology Education Intersegmental Collaborative), which aims to facilitate the development, implementation, and dissemination of teaching or research projects collaboratively developed by 2yr/4yr teams, has now opened for both new [participants](#) as well as [mentors](#). This is the second year of our RCN with a wonderful [first cohort](#) of participants from institutions across the country.

The BEIC process includes each team being paired with a mentor, attending a Summer Institute on Scientific Teaching specific for the program, and working with the journal CourseSource to disseminate the developed projects. Participants will also be encouraged to share their work at SABER and SABER West.

Applications for both teams and mentors are open until March 12th.

Apply for the Nature Award for Driving Global Impact

[The Nature Award for Driving Global Impact](#) was launched in 2019 with the aim of championing researchers who are striving towards the achievement of one or more of the United Nations Sustainable Development Goals.

From the award manager:

“While we have received substantial numbers of submissions, these have tended to be greatly dominated by medical researchers in specific fields, whereas we are aiming to recognise and promote the work of researchers in a wider variety of fields.”

[Apply by March 21.](#)

Members of the QUBES team are always looking to meet others who have a passion for quantitative biology education. Reach out so we can help you gather your collaborators, move projects forward, and continue to move quantitative biology forward. [Connect with us by submitting a support ticket.](#)

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BioQUEST/QUBES Newsletter: Issue 36