NABT
National Association of Biology Teachers







NABT 2026 Dallas

OCT 29–NOV 1





2026 NABT Professional Development Conference

October 29 - November 1, 2026
Hyatt Regency Dallas - Reunion Tower

NABT 2026 Dallas OCT 29–NOV 1

NABT National Association of Biology Teachers

NABT Professional Development Conference

October 29-November 1
Dallas Hyatt Regency Reunion Tower,
Dallas, TX

A Special Thanks

to Our Generous 2026 Conference Sponsors & Exhibitors!

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DART CONCOURSE
TRINITY RAILWAY EXPRESS
DART LIGHT RAIL PLATFORMS
DART
UNION STATION
SPECIAL EVENTS / CONFERENCE CENTER
Meeting Spaces
Restrooms
Elevators & Escalators
Nursing Room

THE ART *Of* FINDING OUR PRESIDENT



FIND THE PRESIDENT & WIN A PRIZE

PRIZE DRAWING: FRIDAY OCTOBER 30TH

KRISTY DANIEL - 2027 NABT PRESIDENT

From the President

It is my privilege to welcome NABT members to Dallas for the 2026 Professional Development Conference. This time of the year holds a special place in my heart because I get to spend time with fellow biology educators who share my deep passion for and commitment to science education. No other conference brings together hundreds of biology educators from across the K–16 education system to share ideas and connect over three-plus days.

The conference organizing team has meticulously developed this year's program with a few changes to the schedule. The **NABT Open Forum** is at 10:30 AM on Thursday, and the 30-minute and 75-minute sessions are scheduled to start at 12:30 PM. The Conference opening session will feature none other than the **Amoeba Sisters** sharing "Six Themes of Biology Misconceptions (and What to Do About Them)." The **Exhibit Hall Grand Opening** will be on Thursday afternoon and the **Closing Reception** will be the following evening. Get your snacks and grab a seat to enjoy **HHMI Tangled Bank's** much-awaited **Night at the Movies** on Thursday evening!

I would like to thank the member volunteers who have helped in many ways throughout this year in planning and organizing the Annual Conference. We have a record number of sponsors this year and their presence along with the exhibitors at the conference venue is deeply appreciated. The sponsors and exhibitors play a critical role in making the conference a huge success with their generous contributions; please stop by their booths to thank them for their commitment to supporting our community and to learn about the resources they offer. On behalf of all of us, I would also like to extend my deep gratitude to innumerable members who serve on various committees and in chapters and affiliates. Many thanks to my fellow Board members, regional directors and state representatives for their invaluable contributions to NABT.

On Friday, we will start with some favorite networking events – **NABT First Timers' Meet & Greet** and all the **Section Meetings** with breakfast. Friday's General Session Speaker is Julia van Kessel presenting **"Bridging Quorum Sensing Research and Education from K-12 to University."** Two popular events, the **Evolution Symposium** and the **Biology Education Research Symposium**, are scheduled for Friday morning and afternoon, respectively. The attendees have a great opportunity to welcome the new Editor-in-Chief of *The American Biology Teacher* (ABT), **Dr. Julie Minbiole**, and attend her session on Friday afternoon. We will end the evening with the fun-filled **NABT Science Disco & Halloween Party** – Halloween costumes are encouraged but optional! Please note that we have scheduled this event on October 30 so that conference events can conclude early on Saturday (October 31) afternoon.

On Saturday morning, enjoy the **Biology Education Poster Session**, where students and educators will showcase their research findings.

You won't want to miss the special program planned just for you: I will sit down with the Nobel laureate **Dr. Phillip A. Sharp** of MIT for a fireside chat. Dr. Sharp will receive our 2026 NABT Distinguished Service Award. This will be followed by another annual special event – **Honors Luncheon** – where we get to celebrate our colleagues for their invaluable service to students and science education. This celebratory event has special meaning at a time when science, education and citizenry face unprecedented and relentless attacks via disinformation and misinformation.

To seasoned NABT Conference attendees and first-time attendees alike: since January 2026, the Transition Task Force (TTF) has been working hard to develop a vision and plan for our organization's future. They have made tremendous progress and look forward to engaging with you at the Conference. Please find their table, learn about their work, and share ideas with them. NABT is our community and each of us helps define what this organization is and what it should look like moving forward. THANK YOU for being part of NABT and caring so deeply for our students.

I am eagerly looking forward to meeting you in Dallas soon!



Vedham Karpakakunjaram, PhD
NABT President, 2026

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Exhibit Hall Treasure Hunt

Visit each participating booth and have your badge scanned to be entered into our prize drawing!

SCIENCE COMMUNICATION LAB **Booth #214**	BIOZONE **Booth #306**	CAROLINA® UNLEASH LEARNING **Booth #204**
FLINN **Booth #207**	Anatomage® **Booth #411**	MIT Superfund Research Program and the Edgerton Center **Booth #215**
EDVOTEK® **Booth #301**	BFW Publishers **Booth #407**	BIO-RAD **Booth #404**

The winner will be drawn Friday at 5:00 PM during the Exhibit Hall Closing Experience.

ABOUT THE PROFESSIONAL DEVELOPMENT CONFERENCE

All functions, meetings, and exhibits will take place at the Hyatt Regency Dallas - Reunion Tower unless otherwise noted.

Please consult this guide and signage for room information.

FOR PERSONS WITH DISABILITIES

Careful consideration is made during the planning of the NABT Conference to make it accessible to all participants. Should you require special services, please go to the registration area to contact an NABT representative. We will strive to meet your needs.

NURSING ROOM

A quiet space has been set aside for you in the **Aerial Queen (3rd Level)**.

CERTIFICATE OF ATTENDANCE

See page 73

REGISTRATION HOURS

The NABT registration desk is located in Trinity A. It will be open during the following hours:

Thursday, October 29
8:00AM – 6:00PM

Friday, October 30
7:00AM – 6:00PM

Saturday, October 31
7:00AM – 2:00PM

FUTURE NABT CONFERENCE DATES & SITES

2027 Professional Development Conference

Hyatt Regency Minneapolis
Minneapolis, MN

November 4 - November 7, 2027

WiFi network is available.
NETWORK: Hyatt-Meeting
PASSWORD: NABT2026

ABOUT NABT

The National Association of Biology Teachers (NABT) is the leader in life science education.™ Our association is the largest national organization dedicated exclusively to supporting biology and life science educators. Our members—representing all grade levels— teach more than one million students each year!

Learn more by visiting www.NABT.org

VISITING THE EXHIBIT HALL

The NABT Exhibit Hall is your venue to interact with a diverse group of curriculum designers, publishers, manufacturers, developers, nonprofit partners, and other providers with resources to support you as a biology educator. Receptions, contests, and other special experiences will also be featured in the Exhibit Hall.

Registration badges are required for admission to the Exhibit Hall.

Thursday, October 29 4:15PM – 6:15PM
Friday, October 30 7:30AM – 5:30PM
(Closing Experience starts at 4:00PM)

Android

2026 NABT CONFERENCE APP

Download the Grupio App when you visit the App Store or Google Play. Search for NABT in the App to access the event!

iOS

PROVIDING SESSION FEEDBACK

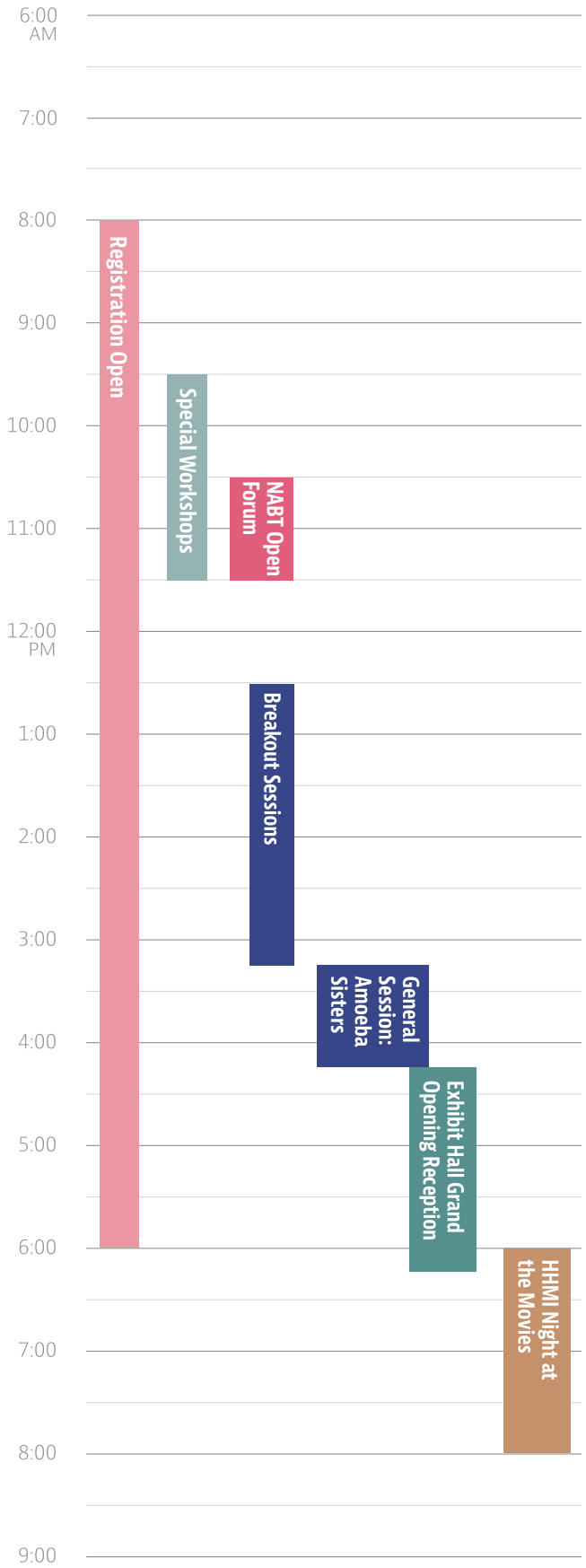
All education sessions are reviewed by the NABT Professional Development Committee for acceptance. Help us ensure you see great sessions at the NABT Conference by sharing your comments at

bit.ly/NABT26sessions

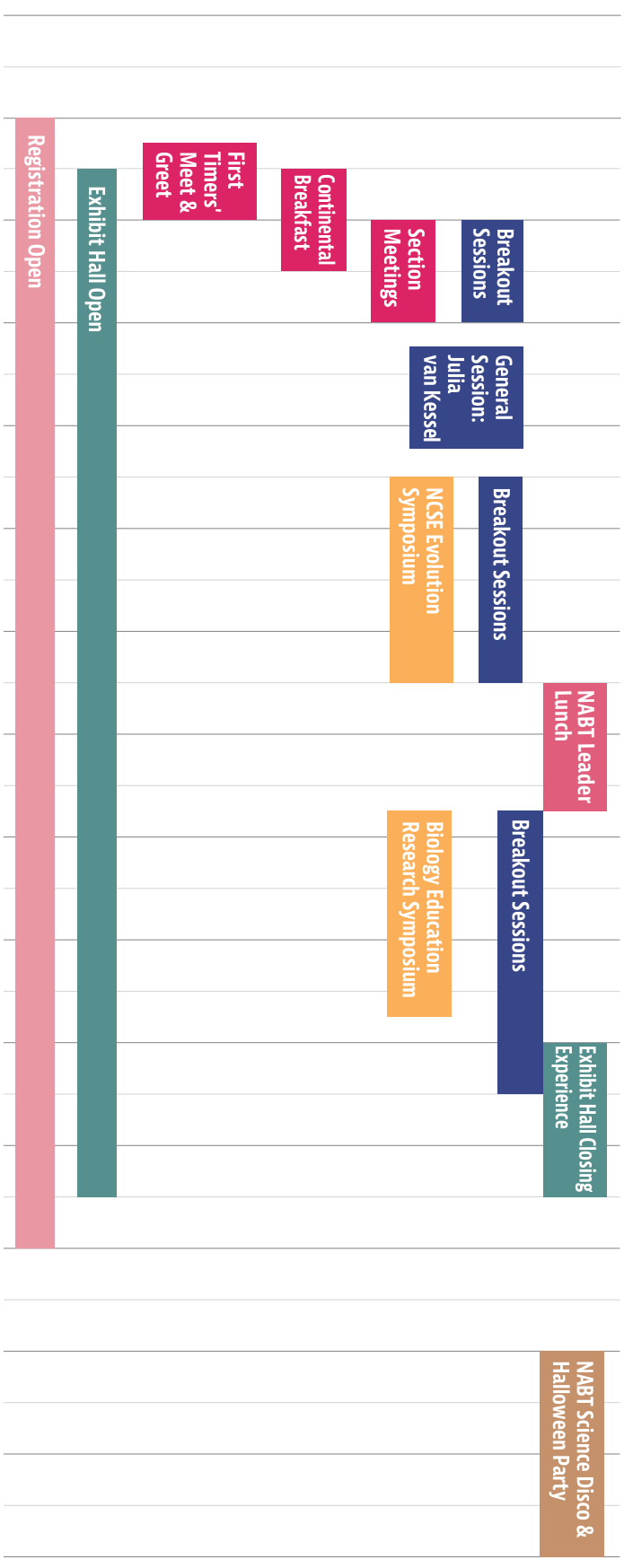
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PHONE: (888) 501-NABT
E-MAIL: office@NABT.org
WEBSITE: www.NABT.org

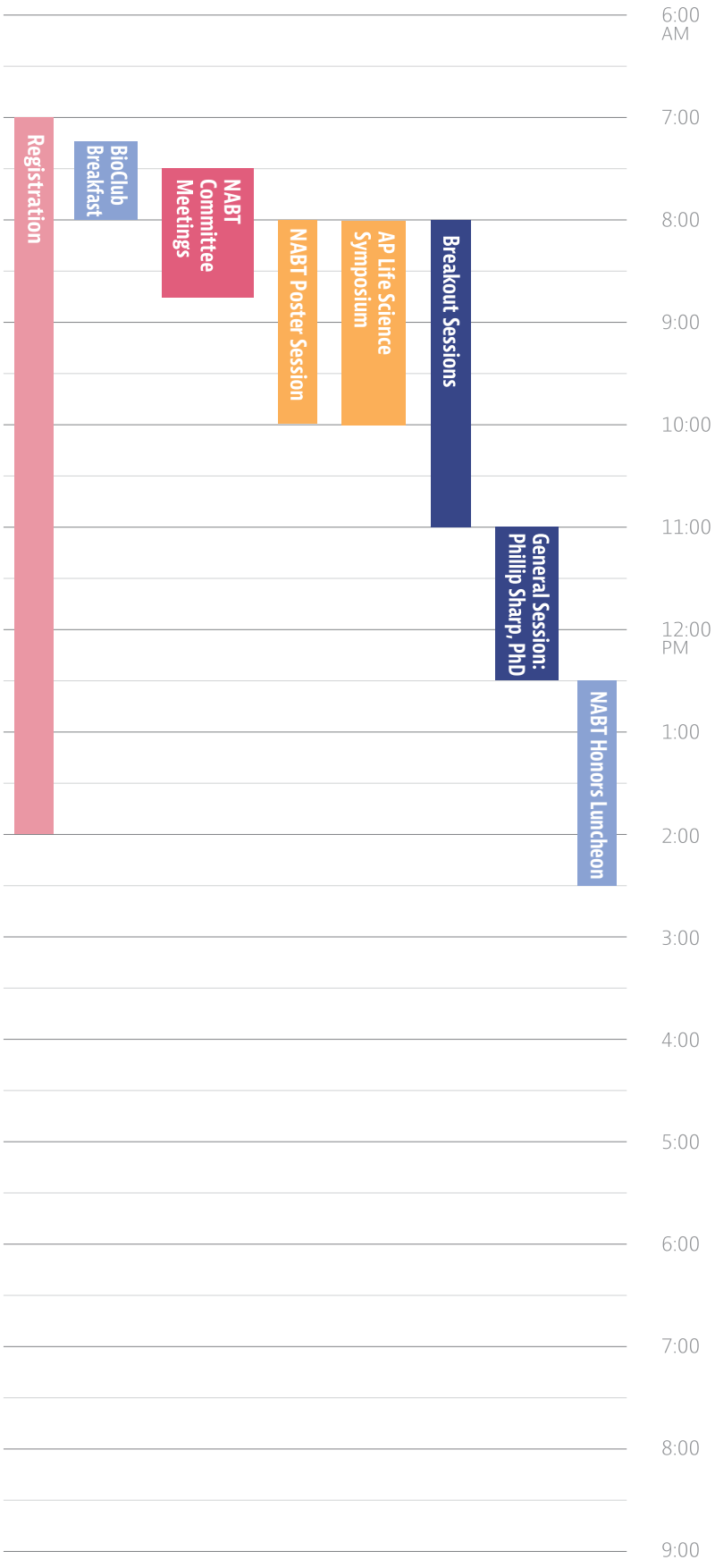
THURSDAY



FRIDAY



SATURDAY



EVENT KEY

- Committee Meetings & Other Meetings
- Exhibit Hall Open
- Registration
- Sessions & Speakers
- Special Event
- Special Program
- Tickets Required
- Workshops

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THURSDAY, OCTOBER 29

SPECIAL WORKSHOPS

Teaching Evolution Via Scientific Practices and an Open-source Software

9:30AM - 11:30AM

Explore how to bring authentic scientific practices into your evolution classroom using the EvolVEd software. In this hands-on workshop, you'll learn how to integrate simulations and authentic evolutionary datasets into active-learning activities tailored to your own teaching goals. Alternatively, you can adopt our ready-to-use classroom modules, designed to foster scientific reasoning and computational skills. This session is a special presentation by the 2026 Huxley Award Winner.

HHMI BioInteractive Presents: Nurturing the Science Practices by Engaging Students in Authentic Field Research With Caterpillar Decoys

9:30AM - 11:30AM

Build the confidence to engage your students in impactful field research experiences using clay caterpillar decoys to measure local biodiversity. Participants will obtain tips and resources to implement their own experiments, including complying with applicable regulations.

hhmi | BioInteractive

NCSE Presents: CER re-examined: Constructing and evaluating evidence-based claims

9:30AM - 11:30AM

The Claim, Evidence, Reasoning (CER) framework integrates multiple scientific practices into a simple, yet deceptively complex structure. We will re-examine the CER framework and extend it with strategies for evaluating claims in the media.

NCSE National Center for Science Education

The Society for College Science Teaching (SCST) Presents: Enhance your college science instruction

9:30AM - 11:30AM

Join SCST's interactive session as college science educators share their favorite techniques and explore strategies to optimize instructional efficacy, college student engagement, and course enjoyment.

20 in 20 and Beyond

9:30AM - 11:30AM

Come try numerous 20-minute inquiry based activities that are sure to engage and excite your students. You and your students will be glad you did!

FRIDAY, OCTOBER 30

NABT NETWORKING MEETINGS

8:00AM - 9:00AM

Grab your breakfast in the Exhibit Hall, starting at 7:30AM, and then join your colleagues at a section event, meet up with friends, visit the Exhibit Hall, or find a quiet spot to get ready for the day ahead.

Elementary and Middle-Level (K-8) Section Breakfast

Meet up with other awesome K-8 educators at this informal networking breakfast designed to help you connect with colleagues to support our youngest scientists.

FRIDAY, OCTOBER 30

AP® Life Science Section & High School Section Breakfast

Grab your breakfast and meet other high school teachers in a friendly, informal setting to share insights, ask questions and build community. The breakfast includes a special presentation of the Kim Foglia AP Biology Service Award.

Two-Year College Section Breakfast

Join a supportive community of two-year college educators to share your strategies, your struggles, and your successes! The winner of the *Two-Year College Biology Teaching Award* will also be recognized.

Four-Year College & University Section Breakfast

Faculty, education researchers, graduate students, and anyone associated with four-year colleges and universities are invited to network, build community, and learn about section programs and opportunities. There will also be a special presentation of the *Four-Year College & University Section Awards.*

NABT First Timers' Meet & Greet

7:15AM - 8:00AM

First-time conference attendees are invited to learn more about NABT and the 2026 Professional Development Conference and to connect with other first-time attendees. NABT leaders and former "first timers" will also be available to answer your questions and help you make the most of your time in Dallas.

2026 NABT HONORS LUNCHEON

Saturday, October 31
12:30PM - 2:30PM
$35 Advance/$45 Onsite

NABT is proud to honor the 2026 NABT Award Recipients during this celebratory event. We will recognize exceptional biology teachers from all levels, and everyone is welcome to join us to congratulate these remarkable professionals.



NABT Science Disco & Halloween Party

7:00PM - 9:00PM

Get ready to dance the night away at NABT's Science Disco & Halloween Party! This unique event will feature food, fun, and friends catching up and getting down. Don't have boogie fever? You can still show up in costume and enjoy a night of games, contests, and laughs. Tickets are not needed, and everyone is welcome!

BOARD OF DIRECTORS

President: **Vedham Karpakakunjaram**
President-Elect: **Kristy Daniel**
Past President: **Kirstin Milks**
Secretary/Treasurer: **Jacqueline Washington**
Director-at-Large: **Lee Ferguson**
Director-at-Large: **Sheela Vemu**
Director/Coordinator: **Jennifer Jones**
Director/Coordinator: **Andrew Taylor**

REGIONAL COORDINATORS

Region I (CT, ME, MA, NH, RI, VT): **Don Pinkerton**
Region II (DE, DC, MD, NJ, NY, PA, VA): **Jennifer Jones**
Region III (IL, IN, MI, OH, WI): **David Butler**
Region IV (IA, KS, MN, MO, NE, ND, SD): **Andrew Taylor**
Region V (KY, NC, SC, TN, WV): **Robin Bulleri**
Region VI (AL, FL, GA, LA, MS, PR): **Abigail Warden**
Region VII (AZ, AR, NM, OK, TX): **Miranda Thornton**
Region VIII (CO, ID, MT, NV, UT, WY): **Katrina Marcos**
Region IX (AK, CA, HI, OR, WA, Pacific Territories): **Beth Cates**
Region X (Canadian Provinces & Territories): **Martha Schissler**

SECTION CHAIRS

NABT BioClub: **Tanya Z. Quiroz**
AP® Life Sciences Section: **Mark Little**
High School Section: **Ashlie Gowitzka**
Four-Year College & University Section: **Tamar Goulet**
Two-Year College Biology Section**: Heather Zimbler-DeLorenzo**

COMMITTEE CHAIRS

ABT Journal Advisory Committee: **William McComas**
Archival Committee: **Michael Vieth**
Awards Committee: **Kathy Van Hoeck**
Conference Committee**: Lee Ferguson**
Finance Committee: **Jacqueline Washington**
Honorary Membership Committee: **Kristy Daniel**
Long Range Planning Committee: **Steve Christensen**
Informal Science Education Committee: **Jill Maroo**
Justice, Equity, Diversity & Inclusion (JEDI): **Erika Freeman**
Member Resources Committee: **Kirstin Milks & David Butler**
Nominating Committee: **Stacey Kiser**
Past President Advisory Council: **Vedham Karpakakunjaram**
Professional Development Committee: **Vacant**
Retired Member Committee: **Mark Little**

Board-Appointed Representatives

Fundraising Task Force: **Lee Ferguson**
Introductory Biology Task Force: **Anna Hiatt**
Social Media Moderators: **Carrie Jo Bucklin & Stacey Kiser**

Affiliate Members

Biology Teachers Association of New Jersey **(BTANJ)**
Cleveland Regional Association of Biologists **(CRABS)**
Colorado Biology Teachers Association **(CBTA)**
Connecticut Association of Biology Teachers **(CTABT)**
Delaware Association of Biology Teachers **(DABT)**
Illinois Association of Biology Teachers **(IABT)**
Illinois Association of Community College Biologists **(IACCB)**
Indiana Association of Biology Teachers **(IABT)**
Kansas Association of Biology Teachers **(KABT)**
Louisiana Association of Biology Teachers **(LABT)**
Massachusetts Association of Biology Teachers **(MABT)**
Michigan Association of Biology Teachers **(MABT)**
Mississippi Association of Biology Educators **(MSABE)**
Missouri Association of Biology Teachers **(MOBioTA)**
New York Biology Teachers Association **(NYBTA)**
South Carolina Association of Biology Teachers **(SCABT)**
Texas Association of Biology Teachers **(TABT)**
Tennessee Association of Biology Teachers **(TNABT)**
Virginia Association of Biology Teachers **(VABT)**

NABT Committee Meetings

*Learn more about NABT committees and the programs they support during our annual meeting on **Saturday, October 31 at 7:30AM** in the Marsalis Hall. All committees will meet at the same time to better enable networking and coordination.*

ABT ADVISORY COMMITTEE

The ABT Advisory Committee helps ensure The American Biology Teacher publishes articles and highlights themes relevant to the teaching and learning of biology and life science at all levels.

William McComas, ABT Editor-in-Chief

ARCHIVAL COMMITTEE

Maintain the NABT physical archives and create digitized resources to preserve historical data as appropriate.

Michael Vieth, Committee Chair

AWARDS COMMITTEE

This committee coordinates the nomination and application process for the NABT Awards program. Committee members evaluate applications, select award recipients, and notify the honorees of their awards.

Kathy Van Hoeck, Committee Chair

INFORMAL SCIENCE COMMITTEE

This committee identifies programs, initiatives, and activities that highlight how informal and community science programs can support biology and life science instruction.

Jill Maroo, Committee Chair

JUSTICE, EQUITY, DIVERSITY & INCLUSION (JEDI) COMMITTEE

The JEDI Committee helps develop programs and resources that address the needs of a diverse community of biology teachers and students to ensure NABT fosters an inclusive, diverse environment and builds belonging among members and groups.

Erika Freeman, Committee Chair

LONG-RANGE PLANNING COMMITTEE

Working with the Board of Directors and other NABT leaders, the Long-Range Planning Committee develops goals and objectives that align with NABT's Strategic Plan.

Steve Christensen, Committee Chair

MEMBER RESOURCES COMMITTEE

This committee reviews resources, services, incentives, and program recommendations to assist with membership development and outreach.

Kirstin Milks and David Butler, Committee Chairs

NOMINATING COMMITTEE

Working with NABT members, this committee recruits individuals to serve in leadership positions within the association, including identifying and evaluating candidates for NABT elections.

Stacey Kiser, Committee Chair

OBTA DIRECTORS & REGIONAL COORDINATORS

Help NABT recognize outstanding biology teachers in your state! This meeting will include updates on the NABT Outstanding Biology Teacher Award (OBTA).

PROFESSIONAL DEVELOPMENT COMMITTEE

This committee helps evaluate and implement NABT's professional development activities, including reviewing the great sessions submitted for the NABT Professional Development Conference.

Committee Chair to be Named

RETIRED MEMBERS COMMITTEE

"Post Classroom Professionals" are a key part of the NABT community and continue to volunteer, serve as mentors, and promote different initiatives. Learn more about staying involved.

Mark Little, Committee Chair

SOCIAL MEDIA COMMITTEE

Using social media outlets to broaden the NABT Community and promote programs that support biology and life science teachers.

Carrie Jo Bucklin & Stacey Kiser, Committee Chairs

Interested in joining a committee or becoming a Committee Chair? Please fill out our Volunteer Form by scanning the QR code or going to this link: https://bit.ly/NABTvolunteer

BioClub Student Awards
Jasmine Cardona Mateo
Central Falls High School, Central Falls, RI

Evelyn Castillo
Butler Community College, El Dorado, KS

Outstanding student members of a NABT BioClub are eligible for this textbook scholarship, with one student from a BioClub high school chapter and one student from a community college chapter being eligible each year.

Sponsored by Carolina Biological Supply Company

Biology Educator Leadership Scholarship (BELS)
Kirsten Salonga
George Mason University, Fairfax, VA

The Biology Educator Leadership Scholarship (BELS) supports teachers who are furthering their education in the life sciences or science education. The award recipient is a practicing educator who has been accepted into a graduate program at a Masters or Doctoral level.

Sponsored by NABT Member Donations

Climate Science Education Award
Enya Granados
Clarke Central High School, Athens, GA

This award recognizes excellence in classroom/community education that specifically supports and promotes the accurate and robust teaching of climate science and the impact of the changing climate on society beyond the classroom.

Sponsored by NCSE

Distinguished Service Award
Phillip Sharp, PhD
Institute Professor Emeritus, MIT, Cambridge, MA

Established in 1988 to commemorate our 50th anniversary, this award is presented to a nationally recognized individual who has made major contributions to biology education through research, writing, and teaching.

Sponsored by the National Association of Biology Teachers

Ecology/Environmental Science Teaching Award
Gregory Barord, PhD
Central Campus, Des Moines, IA

This award recognizes a middle or high school teacher who has successfully developed and demonstrated an innovative approach in the teaching of ecology/environmental science and has carried their commitment to the environment into the community.

Sponsored by Vernier Software and Technology

Evolution Education Award
Blake Touchet, PhD
Vermilion Parish School System, Abbeville, LA

This award recognizes innovative classroom teachers and their efforts to promote the accurate understanding of biological evolution within the larger community.

Sponsored by Vernier Science Education & NCSE

Excellence in Encouraging JEDI Award
Lindsay Reustle
Moberly Area Community College, Columbia, MO

The NABT Excellence in Encouraging Justice, Equity, Diversity, and Inclusion (JEDI) Award recognizes efforts to promote equity in life science education. The recipient demonstrates a passion for JEDI through their teaching while also identifying successful strategies that increase enthusiasm for biology.

Sponsored by National Association of Biology Teachers

Four-Year College & University Section Biology Teaching Award
Sara Brownell, PhD
Arizona State University, Tempe, AZ

This award recognizes creativity and innovation in undergraduate biology teaching, including curriculum design, teaching strategies, and laboratory utilization that have been implemented and demonstrated to be effective.

Sponsored by NABT's Four-Year College & University Section

Four-Year College & University Section Research in Biology Education Award
Cissy Ballen, PhD
Auburn University, Auburn, AL

Recognizing innovation in research that furthers our understanding of undergraduate biology teaching, this award is given to an individual who displays creativity in scholarship and research in biology education.

Sponsored by NABT's Four-Year College & University Section

Genetics Education Award
David Micklos, DSc (Hon.)
Cold Spring Harbor Laboratory, New York, NY

This award recognizes innovative, student-centered classroom instruction that promotes the understanding of genetics and its impact on inheritance, health, and biological research.

Sponsored by National Association of Biology Teachers

Honorary Membership
Elizabeth Cowles, PhD
Eastern Connecticut State University, Broad Brook, CT

The highest honor from the association, the Honorary Membership recognizes those individuals who have achieved distinction in teaching, research, or service in the biological sciences and designates them lifetime members of NABT.

Sponsored by the National Association of Biology Teachers

Jennifer Pfannerstill Travel Award
Bella Jezierski
Lee College Huntsville Center, Huntsville, TX

Established to honor the memory of Jennifer Pfannerstill, this scholarship supports a teacher who has demonstrated a commitment to personal and professional development by helping that individual attend the NABT Conference for the first time.

Sponsored by NABT, BFW Publishers, and Donations

The Kim Foglia AP® Biology Service Award
Audra Brown Ward
The Westminster Schools, Atlanta, GA

This Award recognizes an AP® Biology teacher who displays a willingness to share materials, serves as a mentor to both students and professional colleagues, creates an innovative and student-centered classroom environment, and exemplifies a personal philosophy that encourages professional growth as a teacher and member of the AP® community.

Sponsored by the National Association of Biology Teachers

Lindsey Fields Allied Health Education Award
Ryan Lacson
Ozark High School, Republic, MO

Established to honor Lindsey Fields, this award recognizes innovative, student-centered classroom instruction that supports an understanding in the diverse fields that comprise allied health sciences (Ex. Human A&P, Pre-Nursing/Med, Pathology, etc.).

Sponsored by NABT and Carolina Science

Outstanding New Biology Teacher Achievement Award
Kyla Hooker
Los Alamos High School, Los Alamos, NM

This award recognizes outstanding teaching in grades 7-12 by a "new" biology/life science instructor within their first three years of teaching biology who has developed an original and outstanding program or technique while also making a contribution to the profession at the start of their career.

Sponsored by the National Association of Biology Teachers

The Ron Mardigian Biotechnology Teaching Award
Rebecca Brewer
Troy High School, Lake Orion, MI

This award recognizes a secondary school teacher or undergraduate college biology instructor who demonstrates outstanding and creative teaching of biotechnology by incorporating active laboratory work in the classroom.

Sponsored by Bio-Rad Laboratories

Two-Year College Biology Teaching Award
Kelly Moore, EdD
Walters State Community College, Rutledge, TN

This award recognizes a two-year college biology educator who employs new and creative techniques to demonstrate excellence in teaching and scholarship through publications, teaching strategies, curriculum design, or laboratory utilization.

Sponsored by NABT's Two-Year College Section

OBTA OUTSTANDING

Outstanding Biology Teacher Award

For over 50 years, the National Association of Biology Teachers has been committed to recognizing outstanding biology teachers.

THE OUTSTANDING BIOLOGY TEACHER AWARD IS PROUDLY SPONSORED BY:

CAROLINA®
www.carolina.com

Other consideration provided by Bio-Rad Laboratories, the Botanical Society of America, and miniPCR.

THANK YOU TO OBTA DIRECTORS

NABT would like to thank our OBTA Directors, whose ongoing commitment to this program has helped NABT present the award to thousands of outstanding teachers.

NABT National Association of Biology Teachers

OBTA Honorees 2026

REGION I

Stacy Leone
South Windsor High School
South Windsor, CT

Bradley Lepak
East Boston High School
Boston, MA

Donna Lizotte
Wheeler School
Providence, RI

REGION II

Robert Smoot
McDonogh School
Owings Mills, MD

Wahab Ashraf
Science Park High School
Newark, NJ

Michael Delmont
Frontier Senior High School
Hamburg, NY

Deanna Gallion
Collegium Charter School
Exton, PA

REGION III

Nicole Daihl
North Farmington High School
Farmington Hills, MI

Brooke Griffin
Seneca East High School
Attica, OH

Cherrie Anne Maner
Kohler High School
Kohler, WI

REGION IV

Charles Hunter IV
St Anthony Village High School
St Anthony, MN

David Ganey
Maplewood Richmond Heights High School
Maplewood, MO

Andrew Ising
Baldwin High School
Baldwin City, KS

REGION V

Sarmistha Ghosh
Hawthorne Academy of Health Sciences
Charlotte, NC

Susan Javon
Nation Ford High School
Fort Mill, SC

REGION VI

Jason Russell
Southside High School
Gadsden, AL

Lori Neves
Athens Academy
Athens, GA

REGION VII

Anna Verdiguel Gillet
Flowing Wells High School
Tucson, AZ

Jennifer Giannou-Moore
Highland Park High School
Dallas, TX

REGION IX

William Baur
Washougal High School
Washougal, WA

David Steakley
North Tahoe High School
Tahoe City, CA

PAST PRESIDENTS & CONFERENCE LOCATIONS

2025 Kirstin Milks, St. Louis, MO
2024 Amanda Townley, Anaheim, CA
2023 Tara Jo Holmberg, Baltimore, MD
2022 Chris Monsour, Indianapolis, IN
2021 Julie Angle, Atlanta, GA
2020 Sharon Gusky, Online Conference
2019 Sherry Annee, Chicago, IL
2018 Elizabeth Cowles, San Diego, CA
2017 Susan Finazzo, St. Louis, MO
2016 Bob Melton, Denver, CO
2015 Jane Ellis, Providence, RI
2014 Stacey Kiser, Cleveland, OH
2013 Mark Little, Atlanta, GA
2012 Donald French, Dallas, TX
2011 Dan Ward, Anaheim, CA
2010 Bunny Jaskot, Minneapolis, MN
2009 John M. Moore, Denver, CO
2008 Todd Carter, Memphis, TN
2007 Pat Waller, Atlanta, GA
2006 Toby Horn, Albuquerque, NM
2005 Rebecca E. Ross, Milwaukee, WI
2004 Betsy Ott, Chicago, IL
2003 Catherine W. Ueckert, Portland, OR
2002 Brad Williamson, Cincinnati, OH
2001 Ann S. Lumsden, Montreal, QC, Canada
2000 Phil McCrea, Orlando, FL
1999 Richard D. Storey, Ft. Worth, TX
1998 ViviannLee Ward, Reno, NV
1997 Alan McCormack, Minneapolis, MN
1996 Elizabeth Carvellas, Charlotte, NC
1995 Gordon E. Uno, Phoenix, AZ
1994 Barbara Schulz, St. Louis, MO
1993 Ivo E. Lindauer, Boston, MA
1992 Alton L. Biggs, Denver, CO
1991 Joseph D. McInerney, Nashville, TN
1990 Nancy V. Ridenour, Houston, TX
1989 John Penick, San Diego, CA
1988 Jane Abbott, Chicago, IL
1987 Donald S. Emmeluth, Cincinnati, OH
1986 George S. Zahrobsky, Baltimore, MD
1985 Thomas R. Mertens, Orlando, FL
1984 Marjorie King, Purdue Univ., IN
1983 Jane Butler Kahle, Philadelphia, PA
1982 Jerry Resnick, Detroit, MI
1981 Edward J. Kormondy, Las Vegas, NV
1980 Stanley D. Roth, Boston, MA
1979 Manert Kennedy, New Orleans, LA
1978 Glen E. Peterson, Chicago, IL
1977 Jack L. Carter, Anaheim, CA
1976 Haven Kolb, Denver, CO
1975 Thomas J. Cleaver, Portland, OR
1974 Barbara K. Hopper, New York, NY
1973 Addison E. Lee, St. Louis, MO
1972 Claude A. Welch, San Francisco, CA
1971 H. Bentley Glass, Chicago, IL
1970 Robert E. Yager, Denver, CO
1969 Burton E. Voss, Philadelphia, PA
1968 Jack Fishleder, Anaheim, CA
1967 William V. Mayer, New York, NY w/AAAS
1966 Arnold B. Grobman, Washington, D.C. w/AAAS
1965 L. S. McClung, U of CA, Berkeley w/AAAS
1964 Ted F. Andrews, Boulder, CO w/AIBS
1963 Philip R. Fordyce, U of MA, Amherst, MA w/ AIBS
1962 Muriel Beuschlein, Corvallis, OR w/AIBS
1961 Paul V. Webster, Denver, CO w/AAAS
1960 Howard E. Weaver, New York, NY w/AAAS
1959 Paul Klinge, Chicago, IL w/AAAS
1958 Irene Hollenbeck, Washington, D.C. w/AAAS
1957 John Breukelman, Indianapolis, IN w/AAAS
1956 John P. Harrold, New York, NY w/AAAS
1955 Bro. H. Charles Severin, Atlanta, GA w/AAAS
1954 Arthur J. Baker, Berkeley, CA w/AAAS
1953 Leo F. Hadsall, Boston, MA w/AAAS
1952 Harvey E. Stork, St. Louis, MO w/AAAS
1951 Richard L. Weaver, Philadelphia, PA w/AAAS
1950 Betty L. Wheeler, Cleveland, OH w/AAAS
1949 Ruth A. Dodge, New York, NY w/AAAS
1948 Howard A. Michaud, Washington, D.C. w/AAAS
1947 E. Laurence Palmer, Chicago, IL w/AAAS
1946 Prevo L. Whitaker, Boston, MA w/AAAS
1945 Helen Trowbridge, St. Louis, MO w/AAAS
1944 Merle A. Russell, No Meeting
1943 Merle A. Russell, No Meeting
1942 Homer A. Stephens, No Meeting
1941 George W. Jeffers, Dallas, TX w/AAAS
1940 Malcolm D. Campbell, Philadelphia, PA w/AAAS
1939 Myrl C. Lichtenwalter, Columbus, OH w/AAAS
1938 First Formal Meeting*, Richmond, VA w/ AAAS

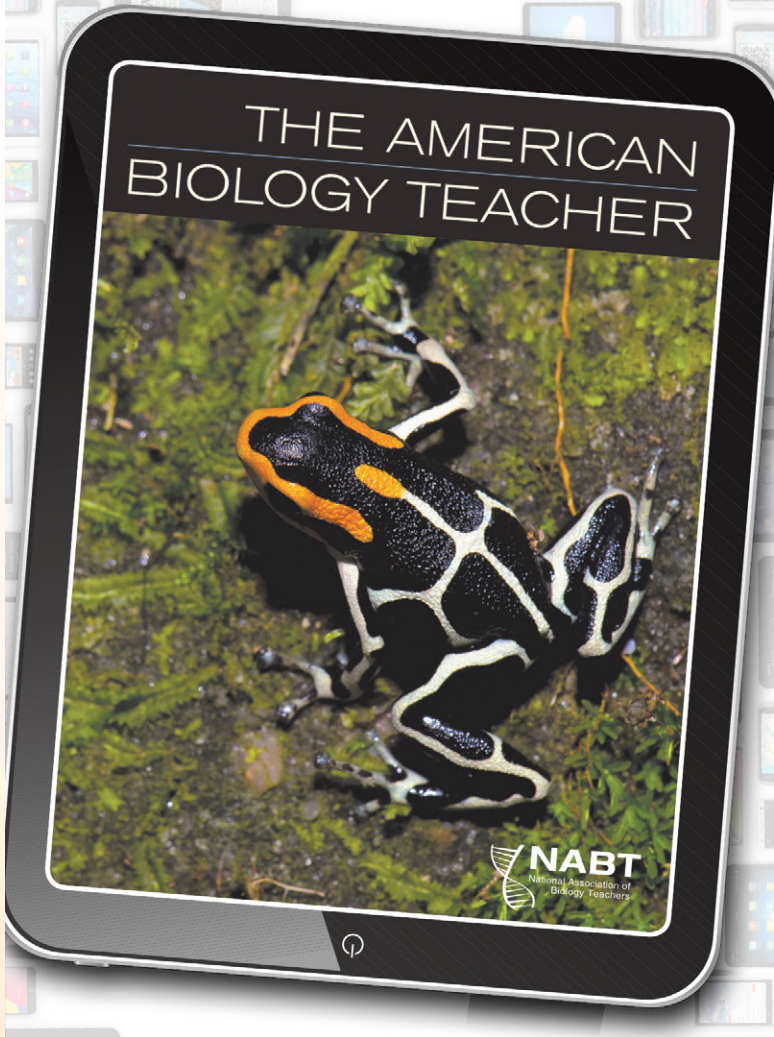
* NABT established on July 1, 1938 in New York City, NY

HONORARY MEMBERS

2025 Lindsey Fields
2024 Donald French, Mark Little
2023 William F. McComas
2022 John A. Jungck
2021 Patsye Peebles
2020 Bob Melton
2019 Dennis Gathmann
2018 Michael Sipes
2017 John M. Moore
2016 Margaret (Betsy) Ott
2015 Sharon Radford
2014 Jay Labov
2013 Todd Carter
2012 Maura Flannery
2011 Louisa Stark
2010 Patricia Waller, Brad Williamson
2009 *NOT AWARDED*
2008 Donald Cronkite
2007 William H. Leonard
2006 Terry Hufford
2005 Randy Moore, Eugenie Scott
2004 John Penick
2003 Donald Emmeluth
2002 Leonard Blessing
2001 Gordon E. Uno
2000 Elizabeth Carvellas
1999 *NOT AWARDED*
1998 Ivo Lindauer
1997 Sam Rhine
1996 Kenneth S. House
1995 Joseph D. Novak
1994 Nancy V. Ridenour, Alton L. Biggs
1993 George S. Zahrobsky
1992 Jon R. Hendrix
1991 Robert E. Yager
1990 Jane Butler Kahle
1989 Joseph D. McInerney
1988 Thomas Mertens, Marjorie King
1987 Floyd Nordland
1986 Donald S. Dean
1985 Stanley Weinberg
1984 Jack Carter, Samuel Postlethwait
1983 Manert Kennedy
1982 Harold "Sandy" Wiper, Jerry P. Lightner
1981 Sophie Wolfe
1980 Sister M. Gabrielle, Ted F. Andrews, Sister Marian Catherine McGrann
1979 Ingrith Olsen
1978 John A. Moore
1977 Addison E. Lee
1976 Paul DeHart Hurd
1975 Garrett Hardin, Stanley E. Williamson
1974 H. Seymour Fowler
1973 William V. Mayer
1972 Chester A. Lawson, Paul E. Klinge, Robert L. Gantert
1971 *NOT AWARDED*
1970 *NOT AWARDED*
1969 Arnold B. Grobman
1968 *NOT AWARDED*
1967 *NOT AWARDED*
1966 *NOT AWARDED*
1965 John Breukelman, H. Bentley Glass, George W. Beadle, Paul B. Sears, Brother H. Charles Severin
1964 E. Laurence Palmer, Hermann J. Muller, Roger Tory Peterson, Oscar Riddle, Helen Irene Battle

NABT DISTINGUISHED SERVICE AWARD RECIPIENTS

2026 Phillip A. Sharp, PhD, Professor of Biology Emeritus at the Massachusetts Institute of Technology, Cambridge, MA
2025 Jackie Joyner-Kersee, Jackie Joyner-Kersee Foundation, East St. Louis, MO
2024 *NOT AWARDED*
2023 Lee Berger, Explorer in Residence at National Geographic, Johannesburg, South Africa
2022 Michael Osterholm, CIDRAP, University of Minnesota, Minneapolis, MN
2021 Jeff Corwin, Marshfield, MA
2020 *NOT AWARDED*
2019 Bonnie Bassler, Princeton University, Princeton, NJ
2018 Ed Yong, The Atlantic, Washington, D.C.
2017 May Berenbaum, University of Illinois Urbana-Champaign, Urbana, IL
2016 Temple Grandin, Colorado State University, Fort Collins, CO
2015 Carl Zimmer, Yale University, New Haven, CT
2014 The Lacks Family (descendants of Henrietta Lacks), Baltimore, MD
2013 Rita R. Colwell, University of Maryland College Park and Johns Hopkins University Bloomberg School of Public Health, College Park, MD
2012 Michael Pollan, UC Berkeley Graduate School of Journalism, Berkeley, CA
2011 Neil Shubin, University of Chicago, Chicago, IL
2010 Richard Dawkins, The Richard Dawkins Foundation for Reason and Science, Falcon, CO
2009 Mario Capecchi, University of Utah, Salt Lake City, UT
2008 Ken Miller, Brown University, Providence, RI
2007 Sean Carroll, University of Wisconsin — Madison, Madison, WI
2006 Shirley Malcom, AAAS, Washington, D.C.
2005 James A. Thompson, University of Wisconsin–Madison, Madison, WI; and Nina Leopold Bradley, Aldo Leopold Foundation, Baraboo, WI
2004 Barbara Bancroft, RN, CPP Associates, Inc., Chicago, IL
2003 Roberta Pagon, M.D., Children's Hospital & Regional Medical Center, Seattle, WA
2002 Thomas E. Lovejoy, The H. John Heinz III Center for Science, Economics and the Environment, Washington, D.C.
2001 E.O. Wilson, Harvard University, Cambridge, MA
2000 Roger and Deborah Fouts, Chimpanzee and Human Communication Institute, Ellensburg, WA
1999 Jack Horner, Museum of the Rockies, Bozeman, MT
1998 Leroy Hood, University of Washington, Seattle, WA
1997 Neal Lane, National Science Foundation, Washington, D.C.; and Donald Kennedy, Stanford University, Palo Alto, CA
1996 Francis Collins, National Institutes of Health, Bethesda, MD
1995 Carl Djerassi, Stanford University, Palo Alto, CA
1994 Bruce Alberts, National Academy of Sciences, Washington, D.C.
1993 Nancy S. Wexler, College of Physicians and Surgeons of Columbia University, New York State Psychiatric Institute, New York, NY
1992 Paul R. Ehrlich, Stanford University, Palo Alto, CA
1991 Stephen Jay Gould, Harvard University, Cambridge, MA
1990 Peter Raven, Missouri Botanical Garden, St. Louis, MO
1989 Stanley Cohen, Stanford University, Palo Alto, CA
1988 Lynn Margulis, University of Massachusetts, Boston, MA; and James D. Watson, Cold Spring Laboratory, Cold Spring Harbor, NY



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NABT
National Association of Biology Teachers

Thursday
October 29

About the *Amoeba Sisters* Channel:

*The **Amoeba Sisters** is a science YouTube channel created by sisters Brianna Rapini (a former high school biology teacher) and Sarina Peterson (a self-taught cartoonist). The channel specializes in teaching science concepts by using illustrated cartoons. Run by only the sister team of two, the channel has grown to over 2.5 million subscribers with a cumulative view count of over 300 million. Their online community has translated the Amoeba Sisters videos into over 22 different languages. In addition to the videos on the channel, the sisters have created biology comics, biology GIFs, student resources that complement their videos, a webtoon, and a cartoon biology book.*



GENERAL SESSION SPEAKER

Brianna Rapini
Writer & Voicing
Amoeba Sisters

Brianna Rapini, also known as "Pinky" from the Amoeba Sisters YouTube Channel, has dreamt of becoming a biology teacher her whole life. After majoring in biology, her dream of teaching came true. Over the course of twelve years in public education, Brianna wore many hats, including classroom biology teacher, instructional technology specialist, campus science specialist, and district science coordinator.
In a plot twist, Brianna and her sister, Sarina Peterson, started a YouTube channel called the Amoeba Sisters. The channel is known for its engaging illustrated cartoons that simplify complex biological concepts. Brianna serves as the channel's voice and writer behind "Pinky," the illustrated amoeba character on the channel. After Brianna went on to get her master's in biological sciences, she realized Amoeba Sisters will never run out of introductory biology content to cover. There's still so much biology to learn, and she loves to emphasize to viewers that she continues to learn new things that she didn't know all the time. When she is not immersed in channel work, Brianna enjoys spending time with her family outdoors and is excited about now living closer to her sister in the Dallas, TX area.



GENERAL SESSION SPEAKER

Sarina Peterson
Illustrator
Amoeba Sisters

Sarina Peterson, also known as "Petunia" on the Amoeba Sisters YouTube channel, graduated with a degree in economics and worked in education program evaluation for four years before veering off course to pursue her true calling: illustrating cartoon amoebas. She is a self-taught artist who eventually realized that there were other art programs available besides MS Paint.
Although she never considered herself a science enthusiast, Sarina loves breaking down complicated science concepts with cartoons in a way her younger self would have appreciated. She works out of her home studio in Dallas, Texas, living the introvert's dream with two doggy coworkers. When she's not infusing personality into microscopic organisms, Sarina enjoys playing video games, watching anime, reading comics, and letting her nerd flag fly high with her husband and budding player 3 daughter.

Friday
October 30



GENERAL SESSION SPEAKER

Julia van Kessel, PhD

Professor of Biology
Indiana University Bloomington
Bloomington, Indiana

Dr. Julia van Kessel is Professor of Biology at Indiana University Bloomington and President of Quornix, LLC. She completed her B.S. in Biology at Utica College of Syracuse University in 2003, and she went on to earn her Ph.D. in Molecular, Cellular, and Developmental Biology from the University of Pittsburgh in 2008 under the mentorship of Dr. Graham Hatfull. She deepened her specialization as a postdoctoral researcher at Princeton University, working alongside world-renowned scientist Dr. Bonnie Bassler to study the transcriptional control of bacterial communication systems. Dr. van Kessel joined the faculty at Indiana University in 2014, earning tenure as an Associate Professor in 2022 and Full Professor in 2026. Her research lab focuses primarily on quorum sensing in Vibrio bacteria, pathogens capable of causing severe disease in humans, marine aquaculture, and fragile coral reef systems. Backed by grants from the National Science Foundation (NSF) and the National Institutes of Health (NIH), her lab develops anti-quorum sensing strategies to disrupt bacterial communication. These innovative therapies aim to treat infections without triggering the global threat of antibiotic resistance. Bridging the gap between the lab and real-world application, Dr. van Kessel co-founded the biotechnology company Quornix, LLC in 2023. The venture applies her research to combat disease and support sustainability in the commercial aquaculture industry. Throughout her time at Indiana University, she has connected her lab's research to academics and outreach in the community by developing educational platforms spanning elementary, high school, and undergraduate levels through hands-on discovery with quorum sensing bacteria.

Saturday
October 31



GENERAL SESSION SPEAKER

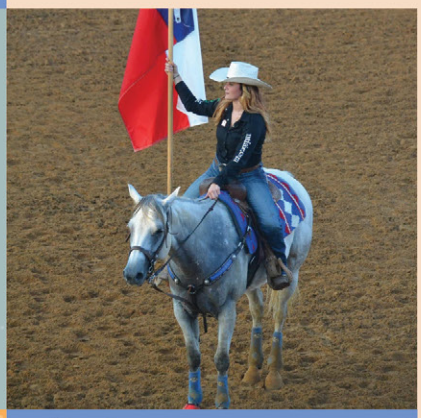
Phillip A. Sharp, PhD
Institute Professor Emeritus at Massachusetts Institute of Technology
Cambridge, Massachusetts

Phillip A. Sharp is an Institute Professor emeritus at MIT and a member of the Department of Biology and the Koch Institute for Integrative Cancer Research. His research interests have centered on the molecular biology of gene expression relevant to cancer and the mechanisms of RNA splicing. His work in 1977 provided the first indications of "discontinuous genes" in mammalian cells. This discovery fundamentally changed scientists' understanding of gene structure and earned him the 1993 Nobel Prize in Physiology or Medicine. A native of Kentucky, Dr. Sharp earned a B.A. degree from Union College, Barbourville, KY, and a Ph.D. in chemistry from the University of Illinois, Champaign-Urbana. Dr. Sharp was a co-founder of Biogen (1978) and served as chair of its Scientific Advisory Board and member of the Board of Directors. He co-founded Alnylam Pharmaceuticals (2002) and serves on its Scientific Advisory Board.









ES - Elementary
GA - General Audience
ML - Middle, Junior High
HS - High School
2Y - 2-year College
4Y - 4-year College & University

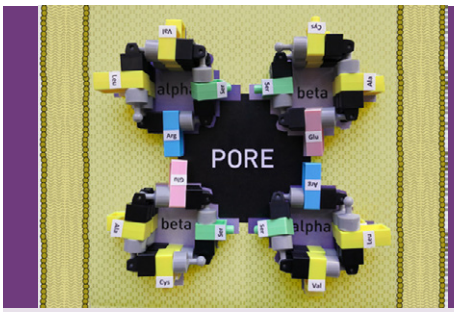
FUTURES

Superfund Research Program and the Edgerton Center

MIT Hands-on Biology Models

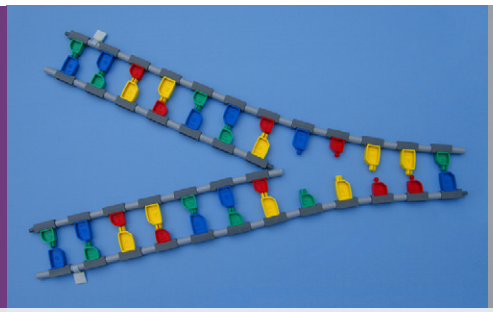
Middle School through University Levels

Visit Booths 215 and 217!



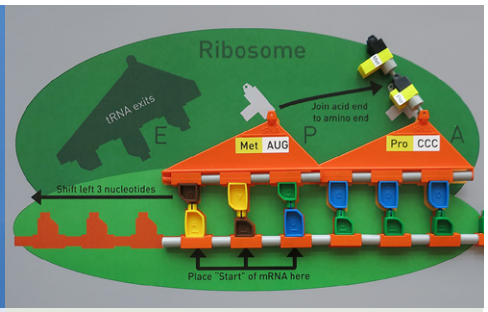
Protein Sets

Students can build and fold protein chains, learn about hydrophobic and hydrophilic interactions, demonstrate 4 levels of protein structure, create models of proteins they know like hemoglobin, antibodies, spike proteins, and more.



DNA/RNA Sets

Students can explore DNA and RNA structure, practice simple and advanced versions of replication, demonstrate DNA damage and repair, create different kinds of mutations, model lab techniques like gel electrophoresis, PCR, and more.



tRNA Sets

With all 3 kits (Protein, DNA/RNA, and tRNA), students can model protein synthesis: transcribing a gene into mRNA, translating the mRNA into a protein chain on a ribosome, and folding the protein chain into a functional shape.

All Workshops in Pegasus Ballroom B

Thursday, October 29

1:15 PM–2:30 PM	Introduction to DNA, Proteins, and Protein Synthesis

Friday, October 30

8:00 AM–9:00 AM	Lesson Sampler with MIT Biology Hands-on Models*
10:30 AM–11:45 AM	Introduction to DNA, Proteins, and Protein Synthesis
12:00 PM–12:30 PM	Cytochrome P450 Proteins, Vaping, and Cancer*
1:45 PM–2:15 PM	Hemoglobin and Sickle Cell Disease*
2:30 PM–3:45 PM	Biotechnology and Lab Techniques*
4:00 PM–4:30 PM	Cytochrome P450 Proteins, Vaping, and Cancer*

***Featuring NEW curriculum from our Health and Biotechnology Packs!**

9:30 AM – 11:30 AM

1922-132703 20 in 20 And Beyond

Pegasus B · General Biology · Special Workshop (2 hours) · ML, HS, 2Y

Come try numerous 20-minute inquiry-based activities that are sure to engage and excite your students. You and your students will be glad you did!

Whitney Hagins, Retired, Bolton, MA

1922-128765 The Society for College Science Teaching (SCST) Presents: Enhance Your College Science Instruction

Reunion A · Instructional Strategies · Special Workshop (2 hours) · 2Y, 4Y

Join SCST's interactive session as college science educators share their favorite techniques and explore strategies to enhance instructional efficacy, college student engagement, and course enjoyment.

Ian Moncrief, National Louis University, Chicago, IL; Heather Scherr, Lone Star College, Kingwood, TX

NCSE Presents:

1922-132075 CER re-examined: Constructing and Evaluating Evidence-based Claims

Reunion B · Science Practices · Special Workshop (2 hours) · HS, 2Y, GA

The Claim, Evidence, Reasoning (CER) framework integrates multiple scientific practices into a simple, yet deceptively complex structure. We will re-examine the CER framework and extend it with strategies for evaluating claims in the media.

Wendy Johnson & Britt Miller, National Center for Science Education, Oakland, CA

1922-132036 Teaching Evolution Via Scientific Practices and Open-source Software

Reunion C · Evolution · Special Workshop (2 hours) · GA

Explore how to bring authentic scientific practices into your evolution classroom using the evolved software (https://mjanuario.github.io/evolved). In this hands-on workshop, you'll learn how to integrate simulations and authentic evolutionary datasets into active-learning activities tailored to your own teaching goals. Alternatively, you can adopt our ready-to-use classroom modules, designed to foster scientific reasoning and computational skills. Join us for this 2-hour workshop to explore, discuss, and experiment with these open educational resources. This session is a special presentation by the 2026 Huxley Award winner.

Matheus Januario, University of Michigan, Ann Arbor, MI

HHMI BioInteractive Presents:

1922-131354 Nurturing the Science Practices by Engaging Students in Authentic Field Research With Caterpillar Decoys

Reunion E · Science Practices · Special Workshop (2 hours) · HS, 2Y, 4Y

Build the confidence to engage your students in impactful field research experiences using clay caterpillar decoys to measure local biodiversity. Participants will obtain tips and resources to implement their own experiments, including complying with applicable regulations.

Peter J. Park, Farmingdale State College, Farmingdale, NY; Mr. Jim Lane, Mahtomedi High School, Mahtomedi, MN

10:30 AM – 11:30 AM

NABT Open Forum

Pegasus A · Committee Meeting

The NABT Board of Directors will lead this interactive discussion to share updates on current and future initiatives. Everyone is invited to learn more about our operations, provide feedback on the programs we support, and get more involved with NABT.

12:30 PM – 1:00 PM

1922-129033 What a 30-Year Undergraduate Research Fellowship Program Reveals About Mentorship, Impact, and Sustainability

Cumberland I/J · Ecology/ Environmental Science / Sustainability · Paper (30 min) · 4Y

A qualitative case study of the CELS Summer Fellowship at URI, an undergraduate research program operating since 1996, examining features that have sustained it and its lasting impact on student and mentor participants.

Martina Muller, University of Rhode Island, Kingston, RI

1922-129073 The Moving Parts of AP Biology®: DIY Kinesthetic Models that Hit the Top of Bloom's Taxonomy

Cumberland K · AP Biology® · Hands-on Workshop (30 min) · HS

Hands-on modeling designed by teachers and students based on everyday materials pushes student boundaries in thinking beyond memorization and comprehension. Topics covered range from prokaryotic gene regulation to Hardy-Weinberg dynamics and beyond.

Deame Hua, Stuyvesant High School, New York, NY

12:30 PM – 1:00 PM CONT.

1922-129265 Visualizing Dihybrid Crosses: Helping Reduce Student Symbol Confusion

Pegasus A · Genetics · Hands-on Workshop (30 min) · ML, 2Y, 4Y

Setting up and performing dihybrid crosses is often difficult for students. In this lesson, we will use manipulatives to help students visualize the alleles and then transfer that information to the symbols traditionally used in Punnett squares.

Heather Green, Middle Tennessee State University, Murfreesboro, TN

1922-129272 Beyond the Textbook: Bringing Biology to Life with HIPs

Pegasus B · General Biology · Demonstration (30 min) · 2Y, 4Y, GA

Beyond the Textbook: Bringing Biology to Life with HIPs explores a course-embedded approach that uses active learning and real-world applications to boost engagement, deepen understanding, and build critical-thinking skills in introductory biology students.

Jewels Morgan, Georgia State University, Lilburn, GA

1922-128796 #Seeing Plants: Interdisciplinary Botanical Connections to Engage All Audiences

Reunion C · Instructional Strategies · Demonstration (30 min) · GA

We often overlook botanical contributions in our world, but plants offer portals for interdisciplinary connections and big-picture understanding. Learn how plants are relevant in YOUR classroom! Resources provided.

Renee M. Clary, Mississippi State University, Mississippi State, MS

1922-129168 Rolling the Dice… Sort Of: Conveying the "Chance" and "Non Chance" Elements of Evolution

Reunion E · General Biology · Hands-on Workshop (30 min) · HS, 4Y, GA

This session models evolution using dice. The simulation may be used as a conceptual introductory activity, an enhancing activity, or expanded upon as a lab activity, and is adaptable to varying topics and preparedness levels.

Heather Minges Wols, Columbia College Chicago, Chicago, IL

1:15 PM – 2:30 PM

1922-128763 Cell Respiration Lab Without Tears

Cumberland I/J · General Biology · Hands-on Workshop (75 min) · HS, 2Y

Fed up with peas and respirometers that leak? Engage in a simple, effective cellular respiration investigation using yeast and syringes! We'll also consider experimental design, cell respiration details, and what to do with the data.

Phyllis Robinson, St. Andrew's Episcopal School, Potomac, MD (retired), Silver Spring, MD; Kathy Van Hoeck, York High School, Elmhurst, IL (retired), Marion, IA

1922-129262 Breaking Introductory Biology Sequence Silos with the Studio Model

Cumberland K · General Biology · Hands-on Workshop (75 min) · 2Y, 4Y

Interested in transforming your Intro Bio course? Explore our studio model, replacing taxonomic silos with integrated content and student-readiness scaffolding. Test-drive activities as a student and leave with a blueprint for building inclusive, active-learning environments.

Maryann Herman, Kaitlin Bonner, Daryl Hurd, Noveera Ahmed, St. John Fisher University, Rochester, NY

1:15 PM – 2:30 PM CONT.

1922-129175 Cells in Action: Unraveling the Cell Cycle, Combating Cancer, and Exploring Clinical Trials

Cumberland L · Microbiology & Cell Biology · Hands-on Workshop (75 min) · HS, 2Y

Explore cancer biology through the nature of science, emphasizing how knowledge develops over time. Experience authentic activities inspired by the NIH Short Course in Genomics and leave with ready-to-use classroom materials.

Jennifer Sunderman Broo, Mariemont City Schools, Cincinnati, OH

1922-129222 Virtual AP Biology® Lab Investigations to Deepen Inquiry

Pegasus A · AP Biology® · Hands-on Workshop (75 min) · HS, 2Y, 4Y

Strengthen AP Biology investigations with free virtual laboratory simulations from Harvard University's LabXchange. Learn to use these teacher-approved resources as pre-lab preparation, post-lab synthesis, or alternatives for absent students, supporting diverse learners in person and online.

Paul Schwein, LabXchange, Cambridge, MA; Angela Campbell, Seminole County Public Schools, Oviedo, FL; Mary Liu, Weston Public Schools, Weston, MA

MIT Presents:

1922-131457 Introduction to DNA, Proteins, and Protein Synthesis with MIT Biology Hands-on Models

Pegasus B · Microbiology & Cell Biology · Hands-on Workshop (75 min) · ML, HS, 4Y

Introducing the MIT models, designed to teach molecular processes, not just structure. Experience cellular functions firsthand – just like your students will! Build all 4 levels of protein structure and explore transcription and translation.

Kathleen M. Vandiver, Massachusetts Institute of Technology, Lexington, MA; Amanda Gruhl Mayer, Massachusetts Institute of Technology, Dedham, MA

1:15 PM – 2:30 PM CONT.

1922-129210 Pablo Escobar's Hippos as an Anchoring Phenomenon for Teaching Ecology and Systems Modeling

Reunion A · Ecology / Environmental Science / Sustainability · Hands-on Workshop (75 min) · HS, 2Y, 4Y

Learn how to use Pablo Escobar's hippos as a phenomenon to teach ecology and systems modeling! We will model how hippos affect their native environment and predict their impacts on their introduced range in Colombia.

Emily Schmidt, The Bronx High School of Science, Bronx, NY

1922-129251 Evolving the Nubbler: A Hands-on Simulation of Divergence, Adaptation, and Speciation

Reunion E · Evolution · Hands-on Workshop (75 min) · HS, 2Y, 4Y

Participants engage in a hands-on activity where a shared starting organism evolves over multiple generations under changing environmental pressures, allowing students to visualize divergence, adaptation, and speciation through iterative design and comparison.

Reid Armstrong, Western Oklahoma State College, Lawton, OK

Science Communication Lab Presents:

1922-130937 From Story to Science: Using Indigenous Knowledge and Modeling to Teach Nitrogen Cycling

Reunion B · Ecology / Environmental Science / Sustainability · Hands-on Workshop (75 min) · ML, HS, 4Y

How can traditional storytelling help students understand the nitrogen cycle? Experience a classroom-tested lesson sequence that combines film, modeling, and collaborative sensemaking to connect Indigenous knowledge, ecosystem science, and student-centered learning.

Shannon Behrman & Rosa Veguilla, Science Communication Lab, San Diego, CA

HHMI BioInteractive Presents:

1922-131355 From Nutrients to ATP With BioInteractive's Cellular Respiration Hub

Reunion G · General Biology · Hands-on Workshop (75 min) · HS, 2Y, 4Y

Participants will explore cellular respiration and mitochondrial function by tracing matter and energy, examining ATP production, and engaging with models and free classroom-ready resources for teaching these complex biological processes.

Diana Siliezar-Shields, Barrington High School, Barrington, RI; Chris Monsour, Tiffin Columbian High School, Tiffin, OH

1922-127723 Genomics in Action: An Interactive, Online Curriculum Resource to Explore Human Genomics

Reunion C · Genetics · Demonstration (75 min) · HS, 2Y, 4Y

In this hands-on workshop, participants will engage with a digital curriculum focused on modern genetics and genomics concepts presented in a modular and interactive format, contextualized in real-world scenarios.

Sarah Wojiski, The Jackson Laboratory, Farmington, CT; Sharon Gusky, CT State-Northwestern, Torrington, CT; Cleo E. Rolle, CT State-Capital, Hartford, CT; Megan deLivron, CT State-Gateway, New Haven, CT

2:45 PM – 3:15 PM

1922-129257 The Science & Engineering of Food: Why Do Babies Need Milk But Some Adults Do Not?

Cumberland I/J · General Biology · Hands-on Workshop (30 min) · HS, GA

Unpack a 3-dimensional biology storyline on how milk provides all the essential nutrients infants need for survival. Students explain why dairy is an important agricultural product and source of food energy for mammals.

Shane Cullian, Agricultural Biology Storyline Team, Lake Geneva, WI; Kathy Van Hoeck, Agricultural Biology Storyline Team, Cedar Rapids, IA; Kristin Rademaker, NSTA, Freeport, IL

2:45 PM – 3:15 PM CONT.

1922-131894 How to Make Students in Large Courses Feel Like They Matter

Cumberland K · Instructional Strategies · Demonstration (30 min) · HS, 2Y, 4Y

This talk will introduce the concept of student mattering and highlight how instructors can help students feel like they matter, and how mattering affects students.

Sara Brownell, Arizona State University, Tempe, AZ

1922-127969 Guess Who? An Animal Classification In-class Activity

Pegasus A · General Biology · Hands-on Workshop (30 min) · GA

Is it an amphibian or reptile, an annelid or arthropod? Learn to play a game designed to reinforce animal classification learning and how to cheaply create your own version (adaptable for all grade levels).

Allison England, Pellissippi State Community College, Knoxville, TN

1922-128732 Long Story Short: Teaching Concepts in a Context, Building Scenario-based Assessments from Primary Literature

Pegasus B · General Biology · Demonstration (30 min) · HS, 2Y, 4Y

This workshop introduces scenario-based exam questions grounded in current primary literature as an authentic assessment strategy. Participants will learn to identify suitable research articles, develop exam-ready scenarios, and write aligned assessment questions for biology courses.

Manjushri Kishore, Heartland Community College, Normal, IL; Suann Yang, SUNY Geneseo, Geneseo, NY; Rachel Pigg, University of Louisville, Louisville, KY; Emily Rauschert, Cleveland State University, Cleveland, OH

2:45 PM – 3:15 PM CONT.

1922-129269 Mini-posters for Review and Presentations

Reunion A · Instructional Strategies · Hands-on Workshop (30 min) · ML, HS, 2Y, 4Y

Transform normal one pagers into interactive reviews! Learn to create portable mini-posters using file folders and sticky notes. Presenter will share implementation strategies and student examples, plus provide participants a hands-on template to keep.

Brittany Moss, Harris County High School, Pine Mountain, GA

1922-128268 Science, Society and Story: Using Popular Literature to Engage High School Science Students in Research

Reunion B · Instructional Strategies · Hands-on Workshop (30 min) · ES, ML, HS

Students choose and read popular literature and use it as a springboard to explore topics from both scientific and societal perspectives. Through discussions, research-skills development, and interdisciplinary exploration, students formulate research questions and investigate.

Lori Hilliard, Camelot Academy, Durham, NC

1922-129233 Supporting Inquiry-based Biology Learning for Middle & High School with LabXchange

Reunion C · General Biology · Hands-on Workshop (30 min) · ML, HS

Enhance biology classrooms with free virtual labs and interactive resources from Harvard University's LabXchange. Discover how to support diverse learners and bring inquiry-based learning to life for middle- and high-school students.

Paul Schwein, LabXchange, Cambridge, MA; Angela Campbell, Seminole County Public Schools, Oviedo, FL

1922-129252 Pedagogically Disrupting the High School/ University Curriculum Divide

Reunion E · Curriculum Development · Paper (30 min) · HS, 2Y, 4Y

This session reports on an in-progress teaching inquiry exploring a curricular collaboration between science educators at high school and higher ed levels to support students' scientific process skills and student readiness for higher ed.

Marina Tourlakis, University of the Fraser Valley, Abbotsford, BC; Jas Uppal Hersheron, University of the Fraser Valley, Mission, BC

HHMI BioInteractive Presents:

1922-131356 What Can a Deer Mouse Teach Us About Survival in Extreme Environments?

Reunion G · General Biology · Hands-on Workshop (30 min) · ML, HS, 2Y

Investigate high-altitude adaptation using BioInteractive's "The Science of an Extreme Animal Athlete." Participants will use deer mice living at different altitudes as a phenomenon to support student explanations of cellular respiration and natural selection.

Kate Fisher, Oregon City High School, Oregon City, OR

3:15 PM - 4:15 PM

GENERAL SESSION SPEAKER

Amoeba Sisters

See page 18 for biographies

Six Themes of Biology Misconceptions (and What to Do About Them)

Reunion FH · General Biology · Special Speaker (60 min) · GA

Biology misconceptions can be surprisingly persistent, even when students have access to effective explanations. Drawing from over 370 million cumulative views and years of audience feedback from their YouTube channel, creators of the Amoeba Sisters will highlight six themes of biology misconceptions they have identified. This session will explore how and why these misconceptions develop and persist, share examples within each theme, and offer ideas to address them.

Join the Amoeba Sisters in the Exhibit Hall for a meet & greet immediately following General Session.

4:15 PM – 6:15 PM

Exhibit Hall Grand Opening

Marsalis Hall · Special Event

Get ready for an unforgettable start to the NABT Conference! Join us for the grand opening of the 2026 NABT Exhibit Hall, where our amazing sponsors and partners will showcase the latest innovations in life-science education. From beloved classics to new favorites, you are sure to find something to elevate your teaching and engage your students!

6:00 PM – 8:00 PM

HHMI Night at the Movies

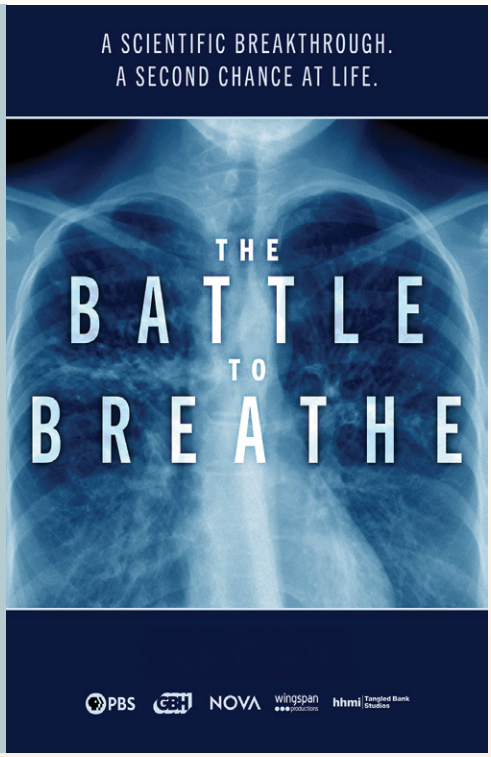
Reunion FH · Special Event · GA

Once a death sentence that kept life expectancies from reaching much past childhood, cystic fibrosis now has a revolutionary and life-saving treatment. In 2019, Trikafta, a potent combination of three drugs, changed the course of the disease almost overnight. Now, over 90% of people diagnosed with CF in the USA could have the opportunity for their lives to be transformed, and some who had once been gasping for breath have begun running marathons. THE BATTLE TO BREATHE follows how decades of scientific research, driven forward by desperate parents fighting for their children, led to this extraordinary breakthrough. Viewers will experience stories of joy, struggle, and unwavering hope.

Heavy appetizers, drinks, and candy will be available for your movie experience!

Hosted by:

hhmi | Tangled Bank Studios

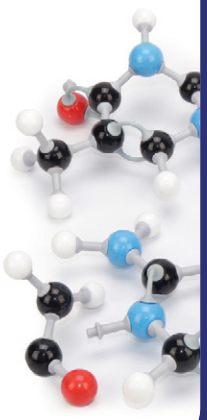


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2026 EVOLUTION SYMPOSIUM

Friday, October 30, 2026
10:30 am – 12:30 pm



Conservation in the Anthropocene: The Intersection of Evolution, Ecology, and Society

Céline Carneiro, *University of Texas at Austin*

An early-career scientist will share her journey integrating evolution, ecology, and genomics to understand how global change is affecting biodiversity. Her story highlights connections between science and society as well as conservation issues.

NCSE Teacher Workshop

Wendy Johnson and Britt Miller, *NCSE*

A common misconception is that evolution only explains the past, but it is also a powerful lens for understanding current populations and predicting future changes. NCSE will share free resources for teaching applications of evolution and strategies for addressing common misconceptions.



Join us for these additional sessions at NABT:

Thursday, October 29:

- *CER re-examined: Constructing and evaluating science-based claims (9:30-11:30)*

Friday, October 30:

- *Using the CER framework to support and assess learning (1:45-2:15)*
- *Beyond just facts: Overcoming climate change misconceptions, misinformation, and apathy (2:30-3:45)*
- *Learn about NCSE's Sound Science Teacher Community (4:00-4:30)*







ES - Elementary
GA - General Audience
ML - Middle, Junior High
HS - High School
2Y - 2-year College
4Y - 4-year College & University

FRIDAY

7:15 AM – 8:00 AM

NABT First Timers' Meet & Greet

Marsalis Hall · Meal Function

First-time conference attendees are invited to learn more about NABT, the 2026 Professional Development Conference, and connect with other "first timers." NABT leaders and prior "first timers" will also be available to answer questions and help you make the most of your time in Dallas. Grab breakfast in the Exhibit Hall and join us for some networking.

7:30 AM – 8:30 AM

NABT Continental Breakfast

Marsalis Hall · Meal Function · GA

Come grab your breakfast from Marsalis Hall, then join your colleagues at a section event, meet up with friends, visit the Exhibit Hall, or find a quiet spot to get ready for the day ahead.

8:00 AM – 9:00 AM

NABT NETWORKING MEETINGS

Elementary and Middle Level (K-8) Meeting

Cumberland L · General Biology · Section Meeting (60 min)

Meet up with other awesome K-8 educators at this informal networking breakfast designed to help you connect with colleagues to support our youngest scientists.

AP Life Science Section & High School Section Meeting

Reunion B · General Biology · Section Meeting (60 min)

If you teach funny freshmen, serious seniors, and everyone in between, you'll want to grab your breakfast, find a seat, and connect with other high-school biology teachers in this informal setting.

Two-Year College Section Meeting

Cumberland G/H · General Biology · Section Meeting (60 min)

Grab your breakfast from the Exhibit Hall and join a supportive community of two-year college educators to share strategies, struggles, and successes! The winner of the Two-Year College Biology Teaching Award will also be recognized.

Four-Year College & University Section Meeting

Reunion C · General Biology · Section Meeting (60 min)

Faculty, education researchers, graduate students, and anyone associated with four-year colleges and universities are invited to network, build community, and learn about section programs and opportunities. There will also be a special presentation of the Four-Year College & University Section awards.

MIT Presents:

1922-131458 Lesson Sampler with MIT Biology Hands-on Models

Pegasus B · Microbiology & Cell Biology · Hands-on Workshop (60 min) · HS, 4Y, GA

After a brief introduction to the basics, participants will choose an activity from a list of advanced physiology topics, such as COVID spike protein binding, antibody-antigen interactions, or the mechanisms of digestive enzymes.

Kathleen M. Vandiver, Massachusetts Institute of Technology, Lexington, MA; Amanda Gruhl Mayer, Massachusetts Institute of Technology, Dedham, MA

miniPCR Presents:

1922-132541 Antibiotic Resistance as a Case Study on Natural Selection

Reunion A · General Biology · Hands-on Workshop (60 min) · HS, 2Y, 4Y

Antibiotic-resistant bacteria have been traced to one farm. Students use PCR to test simulated samples from neighboring farms to track the spread. This robust experiment makes it easy to bring PCR to your classroom!

Robert Dennison, miniPCR bio, Cambridge, MA

8:00 AM – 9:00 AM CONT.

1922-133173 Bio-Rad Presents:

Why Tattoos Last. Solving a Cellular Transport Mystery Through Biology

Reunion E · AP Biology® · Hands-on Workshop (60 min) · HS, 2Y, 4Y

Investigate diffusion, osmosis, and endocytosis through tattoo science. In this hands-on workshop, use ELISA evidence to explore how immune cells capture pigment and connect cell transport, communication, and genetics.

Leigh Brown, Bio-Rad Laboratories, Hercules, CA

9:15 AM – 10:15 AM

GENERAL SESSION SPEAKER 1922-131477

Julia van Kessel, PhD

See page 19 for biography

Bridging Quorum-sensing Research and Education from K-12 to University

Reunion FH · Special Speaker (60 min) · GA

Dr. Julia van Kessel's research focuses on studying bacterial quorum sensing in marine Vibrio bacteria and has helped develop hands-on tools for microbial discovery across K-12 and undergraduate classrooms. In this seminar, participants will learn about three primary educational and community outreach platforms that connect marine Vibrio bacterial quorum sensing to live demonstrations and hands-on teaching tools for microbial discovery, designed for use in the classroom and the community.

Head to Reunion E right after this session for the hands-on Bio-Rad BacTalk workshop to try Julia van Kessel's research yourself, then join her for a live Q&A at 12:30 PM at the Bio-Rad Laboratories booth (#404).

Special thanks to Bio-Rad Laboratories for supporting this speaker.

10:30 AM – 12:30 PM

NABT EVOLUTION SYMPOSIUM BY NCSE

Conservation in the Anthropocene: The Intersection of Evolution, Ecology and Society

Reunion B · Evolution · Symposium (2 Hours) · HS, 2Y, GA

An early career scientist will share her journey integrating evolution, ecology, and genomics to understand how global change is affecting biodiversity. Her story highlights connections between science and society as well as conservation issues.

Céline Carneiro is a PhD candidate in the department of Integrative Biology at the University of Texas at Austin. She holds an M.S. in Interdisciplinary Ecology and a B.S. in Wildlife Ecology and Conservation from the University of Florida. Her work integrates evolution, ecology, and genomics to study the effects of global change on biodiversity.

Céline Carneiro, University of Texas at Austin, Austin, TX; Wendy Johnson & Britt Miller, National Center for Science Education, Oakland, CA

10:30 AM – 11:45 AM

1922-128968 2-Year Colleges: Networking for Change

Cotton Bowl · General Biology · Symposium (75 min) · HS, 2Y, 4Y

This symposium brings together two-year college biology faculty to build a national network supporting education reform, workforce development, and grant opportunities, while sharing strategies for adapting to new policies, technologies, and high-impact practices in biology education.

Stacey Kiser, Lane Community College, Eugene, OR; Melanie Lenahan, Raritan Valley Community College, Branchburg, NJ

10:30 AM – 11:45 AM CONT.

1922-129034 Scaffolding Cancer Concepts in General and Advanced High-school Biology

Cumberland A · Instructional Strategies · Hands-on Workshop (75 min) · HS, 2Y, GA

Participants will explore strategies for embedding cancer concepts into general and advanced high-school biology. The session demonstrates scaffolded lessons using conceptual modeling and data analysis, supported by professional development experiences through the RUYES program.

Natalia Coleman, Neril Sandeep & Rudy Baez, Jose Marti STEM Academy, Union City, NJ; Casandra Gabriele, Rutgers State University of New Jersey, New Brunswick, NJ

1922-129281 IGELS (Interactions in General Education Life Science courses) Instructor/ Faculty Professional Development

Cumberland B/C · Instructional Strategies · Hands-on Workshop (75 min) · 2Y, 4Y, GA

This session will demonstrate all the educational tools the IGELS project has created for instructors of undergraduate biology courses to help their students learn about biology, develop lifelong skills, and engage with real-world problems.

Gordon Uno, University of Oklahoma, School of Biological Sciences, Norman, OK

1922-128554 Investigating Human–Environment Systems: Activities on Climate, Population and Resources

Cumberland E/F · Ecology / Environmental Science / Sustainability · Hands-on Workshop (75 min) · ML, HS

Engage in inquiry-based, hands-on activities that build students' environmental awareness, data skills, and problem-solving abilities while inspiring them to take informed action on real-world sustainability challenges.

Brian Shmaefsky, Lone Star College-Kingwood, Porter, TX

10:30 AM – 11:45 AM CONT.

1922-131696 Biotech Stories Too New For Textbooks: The HudsonAlpha Guidebook

Cumberland G/H · General Biology · Hands-on Workshop (75 min) · HS

Meet the HudsonAlpha Guidebook, a free "too new for textbooks" resource written in student-friendly language. Hear fascinating stories from the 2026 edition and how the Guidebook can bring cutting-edge genomics to your classroom.

Kelly East & Madelene Loftin, HudsonAlpha Institute for Biotechnology, Huntsville, AL

Edvotek Presents:

1922-132254 Tick Talk: Tick-Borne Disease Diagnostics using the Polymerase Chain Reaction (PCR)

Cumberland I/J · Biotechnology · Hands-on Workshop (75 min) · HS, 2Y, 4Y

Explore tick-borne disease in this hands-on workshop! Students investigate simulated tick populations through observation, DNA extraction, and PCR analysis. Connect results to local health trends. Gain experience with biotechnology, disease diagnostics, and public-health surveillance.

Danielle Snowflack, Edvotek, Inc., Washington, D.C.

1922-128756 Real Research, Real Learning: Student-sourcing Antibiotic-Discovery

Cumberland K · Science Practices · Hands-on Workshop (75 min) · HS, 2Y, 4Y

Authentic classroom research builds science identity and lasting learning in students. Explore how searching for antibiotic-producing bacteria in local soil can instill confidence in students and excitement in instructors.

Drew Rholl, District 219, Skokie, IL; Bob Kuhn, Innovation Academy STEM High School, Alpharetta, GA

1922-129081 You Are What You Eat? A 16S Human-gut Microbiome Modular Miniaturized Course-based Undergraduate Research Experience (miniCURE) for Introductory Biology Classes

Cumberland L · Microbiology & Cell Biology · Hands-on Workshop (75 min) · 2Y, 4Y

C-MOOR miniCURES are modular curricula focused on teaching genomic data science through student research in undergraduate biology classes. Participants will explore modules profiling the microbial community of the human gut on the cloud platform AnVIL.

Sayumi York, Notre Dame of Maryland University, Baltimore, MD; Rosa Alcazar, Clovis Community College, Fresno, CA

Carolina Science Presents:

1922-130145 Photosynthesis, Cellular Respiration, and Enzymes: Teaching Common Biology Concepts with Alginate Beads

Pegasus A · General Biology · Hands-on Workshop (75 min) · ML, HS, 2Y

Participants will make and use alginate beads containing either algae, yeast, or an enzyme. They will learn how the beads can be used to teach photosynthesis, cellular respiration, and enzymatic processes.

Crystal Risko, Carolina Biological Supply Company, Burlington, NC

MIT Presents:

1922-131459 Introduction to DNA, Proteins, and Protein Synthesis with MIT Biology Hands-on Models

Pegasus B · Microbiology & Cell Biology · Hands-on Workshop (75 min) · ML, HS, 4Y

Introducing the MIT models, designed to teach molecular processes, not just structure. Experience cellular functions firsthand – just like your students will! Build all 4 levels of protein structure and explore transcription and translation.

Kathleen Vandiver, Massachusetts Institute of Technology, Lexington, MA; Amanda Gruhl Mayer, Massachusetts Institute of Technology, Dedham, MA

miniPCR Presents:

1922-132550 Avian Genetics Lab Activities for Biology Education

Reunion A · Genetics · Hands-on Workshop (75 min) · HS, 2Y, 4Y

Genetic tests used in avian-breeding programs can provide students with authentic hands-on lab experience. Explore PCR kits to genotype birds for sex and for desirable phenotypes that follow both Mendelian and non-Mendelian inheritance patterns.

Ally Huang, miniPCR bio, Cambridge, MA

10:30 AM – 11:45 AM CONT.

1922-131903 Leveraging Dimensional Scoring and Point-by-point Data to Improve Student Performance

Reunion C · AP Biology® · Demonstration (75 min) · GA

Dimensional scoring provides quantitative data that allows us to identify which parts of a free-response question (FRQ) are most challenging for students. This can enhance our approach to areas for growth, allowing more targeted teaching. In this session, an AP Environmental Science teacher will guide participants through an analysis of data from dimensional scoring on the AP Environmental Science Exam. We'll consider how student strengths vary with respect to content knowledge across units and science practices. We'll also consider what point-by-point scores reveal about student performance when using different task verbs. This will be an interactive session with opportunities to analyze why and how students perform differently when responding to specific prompts. By participating in this session, teachers will gain a greater understanding of the various applications of point-by-point data for supporting student success on the AP Environmental Science Exam.

Scott Sowell, Atlantic Coast High School, Jacksonville, FL

Bio-Rad Presents:

1922-133214 Give Your Classroom a New Glow Up: Hands-on Quorum Sensing, Real Data

Reunion E · AP Biology® · Demonstration (75 min) · HS, 2Y, 4Y

Ready to make students glow with curiosity? In this hands-on workshop, run Bio-Rad's BacTalk Cell Signaling Kit yourself — real Vibrio campbellii cultures, no simulations — building your own evidence for quorum sensing and bioluminescence through co-plating.

Sherry Annee, Brebeuf Jesuit, Indianapolis, IN

HHMI BioInteractive Presents:

1922-131358 Who Are the Parents? Uncovering a Reproductive Mystery with Genetic Data

Reunion G · Genetics · Hands-on Workshop (75 min) · HS, 2Y, 4Y

Participants will analyze real shark genetic data to uncover a reproductive surprise — parthenogenesis. This data-driven BioInteractive activity connects core genetics concepts, including alleles, meiosis, and genetic diversity, while engaging students in authentic scientific practices.

Valerie May, Woodstock Academy, Woodstock, CT; Michele L Koehler, Riverside Brookfield High School, Riverside, IL

12:00 PM – 12:30 PM

1922-127768 Multilingual Biology Strategies

Cotton Bowl · General Biology · Hands-on Workshop (30 min) · ES, ML, HS

Review the WIDA standards and learn 25 activities to incorporate language domains into a biology classroom.

Brandon Tucker, Glenbrook South High School-Science Dept GBS, Glenview, IL

1922-128452 Task Trackers: Cultivating Independent Scientists in the Lab and Beyond

Cumberland A · Instructional Strategies · Hands-on Workshop (30 min) · HS, 2Y, 4Y

Looking for a better way to manage and assess laboratory courses? Join us to learn about and design your own task trackers to save you time and help your students become more independent and accountable.

Kim Geier & Erin Friedman, University of Lynchburg, Lynchburg, VA

12:00 PM – 12:30 PM CONT.

1922-127983 Using Self-pacing and Blended Learning in a Mastery-based AP Biology® Class

Cumberland B/C · AP Biology® · Hands-on Workshop (30 min) · HS, 4Y

Students come to AP Biology with different exposure to both the content and AP-style learning. Using blended lessons, create self-paced units and mastery before moving to the next lesson.

Kirsten Landry, Battle Ground Academy, Franklin, TN

1922-128730 From Classroom to Discovery: Implementing SEA-PHAGES in Introductory Biology I and II

Cumberland E/F · Curriculum Development · Demonstration (30 min) · 2Y, 4Y

Montgomery College implemented the SEA-PHAGES CURE in Introductory Biology I and II, expanding research access for community-college students. The program improved engagement, supported authentic inquiry, and increased student interest and persistence in STEM pathways.

Evdokia Kastanos, Aubrey Smith & Ishrat Rahman, Montgomery College, Rockville, MD

BFW Presents:

1922-132615 Master AP® Biology with Achieve: Save Time, Boost Scores, and Win Big!

Cumberland G/H · AP Biology® · Demonstration (30 min) · HS

Discover how Biology for the AP® Course (2e) and Achieve elevate your classroom. Our CED-aligned program saves time and boosts AP® scores. Join our session for a chance to win a free Teacher's Edition!

Cassidy Krogulski, BFW Publishers, Austin, TX

2026 Biology Education Research Symposium

1:45 PM - 3:45 PM
Reunion C

The symposium is coordinated by the NABT Four-Year College & University Section's Research Committee.

Proceedings will be posted online at www.NABT.org

Using Virtual Reality Simulation Labs to Enhance Undergraduate Biology Laboratory Preparation: A Mixed-Methods Pilot Study

Amin Ali, Khalifa University, Abu Dhabi, United Arab Emirates

Undergraduate science students often struggle to learn new laboratory activities, which can lead to increased accidents and unsatisfactory results. Although recent literature suggests that virtual reality (VR) enables safe, repeatable experiential practice, there is still limited evidence supporting its use as an augmented educational tool in STEM education. This study aimed to evaluate students' perceptions, clarity, confidence, and perceived complexity of lab experiments after exposure to VR labs. We created VR videos for selected courses and collected survey data from 92 undergraduate students across multiple majors. Students viewed the materials either on a computer device or using VR goggles. Students' mean scores for clarity and confidence increased significantly, while mean scores for perceived complexity decreased, with no significant differences observed among students from different science majors. Qualitative analysis revealed three key themes: enhanced clarity and confidence, reduced perceived complexity of the material, and a consistent impact across science majors. Overall, VR lab recordings were found to be a feasible and acceptable adjunct to undergraduate science laboratory teaching.

Investigating the Impact of Highlighting Counterstereotypical Scientists in Biology Tests

Suann Yang, Alexander Chimera, Jude Lofton, and Hannah Loughner, SUNY Geneseo, Geneseo, NY; Jeremy Hsu, Chapman University, Orange, CA

How questions are worded on biology tests can influence students' performance and attitudes. Specifically, students have been shown to prefer self-referential framing (in which the student is presented as a researcher) instead of the same questions framed around a scientist conducting the experiment, because of a lower perceived cognitive load and a greater affirmation of STEM identity when reading the self-referential version. However, it is unknown if highlighting counterstereotypical scientists–which has been shown to increase students' STEM identity–diminishes this preference for self-referential framing, especially if formative assignments feature these scientists.

To investigate the impact on preferences, we offered students the choice of self-referential or scientist-framed versions on their tests in a course with stories of scientists embedded in the curriculum. Students selected the two test versions equally, and the performance of students who chose different versions was equivalent. Through post-test surveys and post-semester interviews, we found students were equally split in their preferences for self-referential and scientist-framed question formats and cited the same primary reason of reduced cognitive load, in contrast to prior work that showed a preference for self-referential framing. Thus, preferences may depend on the context in which self-referential and scientist-framed questions are implemented.

Co-designing Species Identification Apps with Undergraduates: An AI-assisted, Participatory Approach by A Non-programming Instructor

Martina Muller and Roland Duhaime, University of Rhode Island, Kingston, Rhode Island

Repeated, formative retrieval practice builds durable memory, yet species identification, which demands exactly this kind of practice across many photographs of each taxon, is poorly served by generic flashcard tools that know nothing about a course's local species or field conditions. Building a custom alternative has historically required programming skill or funding most biology instructors lack. We document one instructor, with no software background, using AI-assisted natural-language coding to build four browser-based species-identification apps across a single semester, one per taxonomic unit, in an upper-division undergraduate wildlife biology course. Each app was shaped by the previous unit's anonymous student survey: critiques and ranked feature requests became the next build's design, producing a traceable participatory loop in which write-in answers, a progress dashboard, study and adaptive modes, and an expanding photo library all originated as student requests. Across the four apps, students logged 45,105 voluntary identification attempts in 505 study bouts, with near-universal adoption; accuracy tracked taxonomic difficulty and rose within students' own practice, and 91–100% rated each app highly. The work offers a replicable, near-zero-cost model for instructor-built tools, a lightweight mechanism for genuine student partnership, and evidence that such tools can draw sustained practice.

Nondisjunction in Meiosis: A Four-Part Kinesthetic Modeling Activity

Bhooma Srinivasan, University of North Texas at Dallas, Dallas, Texas

Distinguishing between nondisjunction in Meiosis I and Meiosis II is one of the most persistent conceptual challenges in undergraduate biology courses, yet few published instructional activities target this distinction as their primary learning objective. This study evaluated a four-part kinesthetic chromosome modeling activity designed to help students differentiate between these two segregation errors and predict the resulting gamete outcomes. Using color-coded pipe cleaners as chromosome models, students modeled normal meiosis, Meiosis I nondisjunction, Meiosis II nondisjunction, and sex chromosome nondisjunction while completing guided discussion questions that emphasized mechanistic reasoning and connections to human chromosomal disorders. The activity was implemented in two undergraduate courses: Biology for Science Majors I (n = 20) and an upper-division Genetics course (n = 12). A matched five-item multiple-choice pre/post assessment was administered via Microsoft Forms. Statistically significant learning gains were observed in both courses and across the combined sample (N = 32), with effect sizes ranging from d = 0.77 to d = 0.86. Post-assessment accuracy ranged from 92% to 100% across all five items. No student's score declined. Item-level analysis showed the largest gains on items directly targeting the Meiosis I versus Meiosis II distinction, indicating the activity effectively addressed its primary instructional goal.

12:00 PM – 12:30 PM CONT.

Vaccine Education Center Presents:

1922-131989 New High School Immune System Lesson Plan

Cumberland I/J · General Biology · Demonstration (30 min) · HS, 2Y, GA

Introducing a lesson plan on "How Cells Defend Against Foreign DNA." Available in "The Human Immune System" unit from the classroom-based program of the Vaccine Education Center at the Children's Hospital of Philadelphia (vaccinemakers.org).

Laura A. Gibson, University of Pennsylvania, Philadelphia, PA; Charlotte A. Moser, Vaccine Education Center/ Children's Hospital of Philadelphia, Philadelphia, PA

1922-128858 QUBES Platform 101: Your Home for Open Education Resources and STEM Education Reform

Cumberland K · Curriculum Development · Hands-on Workshop (30 min) · 2Y, 4Y, GA

This hands-on workshop will introduce the QUBES Platform's open educational resource library. Learn tips and tricks for finding high-quality materials, saving your favorites, and finding projects that fit within your interests.

Deborah Rook, BioQUEST, Vienna, VA; Sarah Prescott, BioQUEST, Raymond, NH; Sam Donovan, BioQUEST, Pittsburgh, PA; M. Drew LaMar, BioQUEST, Williamsburg, VA

1922-128981 Bringing Computational Biology Tools into Your Classroom

Cumberland L · Technology in the Classroom · Demonstration (30 min) · ML, HS, 2Y

Explore the Computational Biology Learning Lab, a free browser-based platform that brings DNA, RNA, protein structure, and AI-driven biology to life. Walk away with ready-to-use activities and tools that require no software installation.

Derek Peng, The Pingry School and Computational Biology Learning Lab, Bedminster, NJ

1922-130146 Carolina Science Presents:

Unlocking Genetics: Hands-on Learning with Model Organisms

Pegasus A · Genetics · Hands-on Workshop (30 min) · ML, HS, 2Y, 4Y, GA

Discover how model organisms can transform genetics teaching and student learning. This interactive workshop showcases classroom-tested species, aligns them with key concepts and constraints, and equips instructors to create engaging, inquiry-driven experiences for diverse students.

Crystal Risko, Carolina Biological Supply Company, Burlington, NC

1922-131460 MIT Presents:

Cytochrome P450 Proteins, Vaping, and Cancer with MIT Biology Hands-on Models

Pegasus B · Genetics · Hands-on Workshop (30 min) · HS, 4Y, GA

Investigate the molecular mechanisms behind drug-drug interactions, nicotine addiction, and cancer risk! Discover how metabolism of different drugs and toxicants can affect behavior and disease by comparing CYP protein active sites for different individuals.

Kathleen Vandiver, Massachusetts Institute of Technology, Lexington, MA; Amanda Gruhl Mayer, Massachusetts Institute of Technology, Dedham, MA

1922-132551 miniPCR Presents:

Interactive Digital Labs for Biology Classrooms

Reunion A · General Biology · Demonstration (30 min) · HS, 2Y, 4Y

Explore interactive, narrative-driven digital labs that make complex biology topics more accessible. Students analyze authentic experimental data while investigating topics such as the central dogma, sickle cell disease, and bacterial transformation.

Kristin Hennessy-McDonald, miniPCR bio, Cambridge, MA

12:00 PM – 12:30 PM CONT.

1922-133216 Bio-Rad Presents:

Beyond the Glow: Advanced Quorum Sensing with a Sneak Preview of the BacTalk Cell-signaling Advanced Kit

Reunion E · AP Biology® · Hands-on Workshop (30 min) · HS, 2Y, 4Y

A preview of the BacTalk Advanced Kit, where students use genetics and pathway inhibitors to investigate signaling like real researchers.

Sherry Annee, Brebeuf Jesuit School, Indianapolis, IN

HHMI BioInteractive Presents:

1922-131359 Simulating Hardy-Weinberg and Evolutionary Change with BioInteractive's Population Genetics Explorer

Reunion G · Evolution · Hands-on Workshop (30 min) · HS, 2Y, 4Y

Discover BioInteractive's free Population Genetics Explorer tool and other engaging resources to help students test predictions and interpret data on the effects of evolutionary mechanisms on allele and genotype frequencies.

Kristine Grayson, University of Richmond, Richmond, VA

12:30 PM – 1:45 PM

NABT Leader Lunch

Cotton Bowl · General Biology · Special Event (Tickets Required)

This event is by invitation only.

12:45 PM – 1:15 PM

1922-132552 miniPCR Presents: Bacterial transformation made easy with True Blue

Reunion A · AP Biology® · Demonstration (30 min) · HS, 2Y, 4Y

Finally, an easy-to-implement, high-yield transformation lab! Change bacteria from white to blue with simple teacher prep, a 45-minute student protocol, and minimal equipment. Augment the lab with a virtual simulation and gene regulation extension.

Kristin Hennessy-McDonald, miniPCR bio, Cambridge, MA

Bio-Rad Presents:

1922-133218 Ozempic and Semaglutide Science: Understanding Diabetes and Weight Loss

Reunion E · Biotechnology · Hands-on Workshop (30 min) · HS, 2Y, 4Y

Explore Ozempic's dual action on diabetes and weight loss. Learn about semaglutide's role in blood sugar and appetite regulation through ELISA.

Damon Tighe, Bio-Rad Laboratories, Hercules, CA

1:45 PM – 3:45 PM

BIOLOGY EDUCATION RESEARCH SYMPOSIUM

Reunion C · Instructional Strategies · Symposium (2 Hours) · 2Y, 4Y, GA

NABT is proud to present the 17th Annual Biology Education Research Symposium. Presentations were accepted through a double-blind review process open to biology instructors and education researchers at all levels. The symposium format is traditional 15-minute presentations of papers by individuals or co-authors, followed by Q&A.

See pages 34-35 for a full listing of abstracts.

1:45 PM – 2:15 PM

1922-129191 From Pedagogy to Payout: Developing a Competitive ASPB BLOOME Application

Cumberland A · Curriculum Development · Hands-on Workshop (30 min) · ES, ML, HS

Get paid to share your instructional ideas! The American Society of Plant Biologists (ASPB) BLOOME grant funds plant biology-teaching resource development. Engage with past winners to brainstorm and shape classroom innovations into competitive proposals.

Erin Friedman, University of Lynchburg, Lynchburg, VA; Jennifer Robison, Manchester University, North Manchester, IN

1922-129185 The Science & Engineering of Food: Producing the Perfect Apple

Cumberland B/C · General Biology · Hands-on Workshop (30 min) · HS, GA

Experience a new storyline for how to produce the perfect apple to meet the growing demands of human consumption. Students explore the phenomenon of the Honeycrisp through the lens of genetics, engineering and food production.

Shane Cullian, Agricultural Biology Storyline Team, Lake Geneva, WI; Kathy Van Hoeck, Agricultural Biology Storyline Team, Cedar Rapids, IA; Kristin Rademaker, NSTA, Freeport, IL

1922-129237 Synthesizing Systems: Using Coral Reef Fragility to Drive Accelerated Biology Inquiry

Cumberland E/F · General Biology · Hands-on Workshop (30 min) · HS, 2Y, 4Y

Activities to bridge the gap between microscopic processes and macroscopic realities. By using endangered coral as a case study, we link molecular genetics and biochemistry to exciting, real-world ecological-conservation challenges.

Brittany Moss, Harris County High School, Pine Mountain, GA

1:45 PM – 2:15 PM CONT.

1922-129177 Growing Futures: Marsh Grass Restoration Curriculum for Young Environmental Stewards.

Cumberland G/H · Ecology / Environmental Science / Sustainability · Demonstration (30 min) · ML, HS

Teachers engage in hands-on activities to explore a salt marsh curriculum designed to bring the importance of this ecosystem into any classroom, featuring data-driven labs, modeling, and adaptable activities for teaching environmental-science concepts.

Maribel Gendreau, Hampton Roads Academy, Newport News, VA

1922-129106 Increasing Knowledge Transfer and Retention Through Core Concept Teaching Tools (CCTTs)

Cumberland I/J · Curriculum Development · Hands-on Workshop (30 min) · HS, 2Y, 4Y

The core concepts of biology—evolution, structure–function, information flow, energy and matter, and systems—help guide understanding across scales. We will present multimodal, scaffolded Core Concept Teaching Tools that integrate ideas, boost engagement, support learners, and promote concept-centered learning through practice.

Seena S. Mathew, University of Mary Hardin-Baylor, Belton, TX; Jorge Trujillo, University of Texas Rio Grande Valley, Edinburg, TX

1922-128559 From Copy-Paste to Critical Thinking: Designing AI-Resistant Biology Assignments

Cumberland K · Instructional Strategies · Hands-on Workshop (30 min) · GA

Biology educators will learn to design AI-resistant assignments that promote scientific reasoning, authentic learning, and AI literacy by incorporating strategies such as data analysis, iterative work, and critical evaluation of AI-generated responses.

Tanya Quiroz, Galen College of Nursing, Alcolu, SC; Jacqueline McCray, Galen College of Nursing, Houston, TX

1922-128114 Graph It, Model It, Explain It: Building Mathematical Literacy in Life Science

Cumberland L · Science Practices · Demonstration (30 min) · HS, 2Y, 4Y

Explore practical strategies for helping life-science students make sense of biological data through graphing, modeling, and explanation. Participants will see classroom examples that build quantitative reasoning while supporting a deeper understanding of biological concepts.

Kyla Hooker, Los Alamos Public Schools, Los Alamos High School, Los Alamos, NM

MIT Presents:

1922-131461 Hemoglobin and Sickle Cell Disease with MIT Biology Hands-on Models

Pegasus B · Genetics · Hands-on Workshop (30 min) · HS, 4Y, GA

Discover the molecular mechanisms and historical advantage behind sickle cell disease! Model how oxygen binding changes the shape of hemoglobin proteins and why sickling occurs only in low-oxygen conditions.

Amanda Gruhl Mayer, Massachusetts Institute of Technology, Dedham, MA; Kathleen Vandiver, Massachusetts Institute of Technology, Lexington, MA

miniPCR Presents:

1922-132554 Diagnosing Sickle Cell Disease: Hands-on and Virtual Genetics Labs

Reunion A · General Biology · Demonstration (30 min) · HS, 2Y, 4Y

Track the sickle cell allele in a family using gel electrophoresis and connect inheritance and protein function. Available as a hands-on lab and a virtual activity featuring authentic experimental data.

Kristin Hennessy-McDonald, miniPCR bio, Cambridge, MA

NCSE Presents:

1922-132157 Using the Claim, Evidence, Reasoning (CER) Framework to Support and Assess Learning

Reunion B · Science Practices · Hands-on Workshop (30 min) · ML, HS, 2Y

CER scaffolds students in engaging in argument from evidence and constructing explanations. CER can also be a helpful tool for assessing students' learning. We will share free CER resources for both learning and assessment.

Wendy Johnson & Britt Miller, National Center for Science Education, Oakland, CA

Animalearn Presents:

1922-126520 Put the Life Back into Life Science Using Inclusive Lab Strategies

Pegasus A · Anatomy & Physiology · Hands-on Workshop (30 min) · ES, ML, HS

Rethink your traditional anatomy labs and explore innovative non-animal methods. This session will give teachers the opportunity to dissect a Kind Frog and Simulated Owl Pellets, plus experience AR/VR tech tools which will amaze and engage your students!

Nicole Green, Animalearn, Jenkintown, PA

1:45 PM – 2:15 PM CONT.

Bio-Rad Presents:

1922-133219 Turn Bacteria into Biosensors: From DNA to Detection

Reunion E · Biotechnology · Demonstration (30 min) · HS, 2Y, 4Y

What if bacteria could be programmed to "turn on" in response to their environment? Explore how a transformation-based lab becomes a biosensor model, where students control gene expression and visualize cellular responses — connecting promoters, regulation, and protein expression to real biotechnology.

Leigh Brown, Bio-Rad Laboratories, Hercules, CA

HHMI BioInteractive Presents:

1922-131360 Sorting Out Science: Teaching Primary, Secondary, and Tertiary Sources with HHMI BioInteractive

Reunion G · Science Practices · Hands-on Workshop (30 min) · HS, 2Y, 4Y

Participants will explore a new, freely available resource from BioInteractive to help their students evaluate the intended audience, purpose, and reliability of different types of scientific sources.

Mark Randa, Rowan College of South Jersey, Vineland, NJ

2:30 PM – 3:45 PM

1922-131891 Writing for the ABT

Cotton Bowl · Instructional Strategies · Demonstration (75 min) · GA

Join the editorial team of The American Biology Teacher for this session designed to encourage and support prospective authors. Turn your idea for an article into an action plan.

Julie Minbiole, Columbia College Chicago, Oak Park, IL

1922-125963 Redesigning School Lunch: Using Nutrition and Biochemistry to Drive Student Sensemaking

Cumberland A · General Biology · Hands-on Workshop (75 min) · ML, HS, GA

Explore a 7-lesson OpenSciEd-aligned biology unit where students redesign school lunches through biochemistry, nutrition, anatomy, and engineering, engaging in authentic sensemaking, analysis of USDA changes, and student-designed school lunch menus.

William Baur, Washougal HS, Washougal, WA

1922-129084 From Watershed to Classroom: Investigating Microplastics Through Local Inquiry and Science Communication

Cumberland B/C · Ecology / Environmental Science / Sustainability · Hands-on Workshop (75 min) · HS, 2Y, 4Y

Learn how to identify microplastics from local watersheds through this hands-on activity! This workshop will demonstrate laboratory methods and explore strategies for teaching scientific inquiry, data literacy, and community-focused science communication.

Angelica Dziurzynski & Nikolai Revels, University of Georgia, Athens, GA

1922-129270 How Teachers Can Avoid Perpetuating Genetic Essentialism and Determinism in the Classroom

Cumberland E/F · Genetics · Hands-on Workshop (75 min) · HS, 2Y, 4Y

Discuss and explore research-based and classroom-tested curricula that help disrupt student misconceptions about inheritance, trait expression, and human genetic variation and that help students understand that genetic variation is greater within than between groups.

Paul K. Strode, Fairview High School, Boulder, CO; Micaela Seaver, University of Colorado-Boulder, Boulder, CO

BFW Presents:

1922-132614 On Time: A Hands-on Workshop Exploring the History of Life

Cumberland G/H · Evolution · Hands-on Workshop (75 min) · HS, 4Y, GA

In this workshop, we'll do an activity together that introduces students to the long sweep of Earth's history, key events in evolution, and a sense of time and scale.

James Morris, Brandeis University, Waltham, MA

2:30 PM – 3:45 PM CONT.

1922-128548 NABT Two-Year Roundtable: Building Engagement and Transforming the Biology Classroom for the Modern Two-Year Student

Cumberland I/J · Science Practices · Symposium (75 min) · HS, 2Y, 4Y

Rotating roundtable discussions led by area experts will explore strategies for engaging modern two-year college biology students, in topics including community building, active learning resources, research experiences, online teaching, and global engagement.

Heather Zimbler-DeLorenzo, Georgia State University Perimeter College, Mableton, GA; Jewels Morgan, Georgia State University Perimeter College, Newton, GA; Heather Seitz, Johnson County Community College, Overland Park, KS; Erin Morrey, Georgia State University Perimeter College, Atlanta, GA; Kelly Moore, Walters State Community College, Morristown, TN; Christy Askea, SAU Tech, Camden, AR; Tanya Quiroz, Galen College of Nursing, Alcolu, SC; Ashli Wright, Columbus State Community College, Columbus, OH

1922-132713 Purple Grain: Seeing the Genotype of Purple Brassicas

Cumberland K · AP Biology® · Demonstration (75 min) · HS, 2Y, 4Y

Come try a lab that makes the abstract concept of genotype visible through PCR and DNA banding in electrophoresis. Compare the Brassica seedling purpleness to its genotype to learn about anthocyanin expression in plants.

Whitney Hagins, Retired, Bolton, MA

1922-128665 From Shortcut to Learning Tool: Prompt Engineering for Authentic Biology Assessment

Cumberland L · Technology in the Classroom · Hands-on Workshop (75 min) · HS, 2Y, 4Y

Transform AI into a learning tool for biology education. Practice prompt engineering and design assessments requiring authentic student thinking across labs, research, data interpretation, and field observations. Gain frameworks from three years of classroom iteration.

Joni M. Criswell, Anderson University, Anderson, SC

MIT Presents:

1922-131462 Biotechnology and Lab Techniques with MIT Biology Hands-on Models

Pegasus B · Biotechnology · Hands-on Workshop (75 min) · HS, 4Y, GA

Experience lab procedures on the molecular level! Model restriction enzyme digestions and gel electrophoresis. Perform PCR cycles with primers and temperature changes. Learn the original function of the CRISPR Cas9 system and its potential uses.

Amanda Gruhl Mayer, Massachusetts Institute of Technology, Dedham, MA; Kathleen Vandiver, Massachusetts Institute of Technology, Lexington, MA

miniPCR Presents:

1922-132555 Explore Ecology and Conservation Biology with Lemurs

Reunion A · Ecology / Environmental Science / Sustainability · Hands-on Workshop (75 min) · HS, 2Y, 4Y

Has an extinct lemur species been rediscovered? Test DNA with gel electrophoresis, build phylogenetic trees, and analyze authentic field data from the Duke Lemur Center. Available as a hands-on lab or virtual simulation.

Lydia Greene, miniPCR bio, Cambridge, MA

NCSE Presents:

1922-132158 Beyond Just Facts: Overcoming Climate-change Misconceptions, Misinformation and Apathy

Reunion B · Instructional Strategies · Hands-on Workshop (75 min) · ES, ML, HS, 2Y, 4Y, GA

Why do facts alone often fail to change minds? Countering climate-change misconceptions, misinformation, and apathy requires more than presenting scientific evidence. Explore research-based strategies and free classroom resources to address this challenge.

Britt Miller & Wendy Johnson, National Center for Science Education, Oakland, CA

1922-130063 BIOZONE's New AP Biology®: Supporting Instruction, Engagement, and Exam Readiness

Pegasus A · AP Biology® · Demonstration (75 min) · HS

Explore BIOZONE's new AP Biology title, written specifically to match the 2025 CED. Discover how it supports confident instruction and exam readiness. Attendees receive a FREE print copy and 90-day trial to BIOZONE WORLD.

Richard Allan, Biozone International, Parker, CO

2:30 PM – 3:45 PM CONT.

Bio-Rad Presents:

1922-133229 Cut, Repair, Confirm: Hands-On CRISPR Gene Editing

Reunion E · Biotechnology · Hands-on Workshop (75 min) · HS, 2Y, 4Y

A cut alone isn't CRISPR editing. This hands-on workshop directs homology-directed repair of a chromosomal gene, confirming the edit via phenotypic readout. Fits genetics, cell biology, microbiology, and biotechnology courses alike, and includes an optional Genotyping Extension.

Damon Tighe, Bio-Rad Laboratories, Hercules, CA

HHMI BioInteractive Presents:

1922-131361 Should We Trust This? Using the SIFT Method to Evaluate the Reliability of Scientific Texts

Reunion G · Science Practices · Hands-on Workshop (75 min) · ML, HS, 2Y

We have all fallen victim to an unreliable source. Come engage with a strategy that helps students evaluate sources of scientific claims, and leave with free resources to implement this strategy immediately in your classes.

Samantha Johnson, Arroyo High School, San Lorenzo, CA; Bernice Brythorne, Monticello High School, Charlottesville, VA

4:00 PM – 4:30 PM

1922-131705 Student Poster Practice Session

Cotton Bowl · Instructional Strategies · Hands-on Workshop (30 min) · HS, 2Y, 4Y

Join other student poster presenters (and their mentors) for some informal practice to help you prepare for the NABT Biology Education Poster Session.

1922-127642 Vaccines – Data, Doubt, and Defense

Cumberland A · General Biology · Hands-on Workshop (30 min) · ML, HS

This session reframes vaccine literacy as an essential modern survival skill. By mastering the science of immunization, students become informed citizens equipped to combat misinformation, protect community health, and value vaccines as collective resources.

Vyjayanti Joshi, Alyssa Martin & Olivia Doe, Lake View High School, Chicago, IL

1922-129260 It Is an RNA World: How Nucleotides Control Cellular Functions

Cumberland B/C · General Biology · Hands-on Workshop (30 min) · HS, 2Y, 4Y

Nucleotides are used for more than RNA, DNA, and energy currency. We will explore the various biochemical pathways and cellular processes in which nucleotides play major roles.

Elizabeth Cowles, Eastern Connecticut State University, Willimantic, CT

1922-129250 Decoding Cancer

Cumberland E/F · General Biology · Hands-on Workshop (30 min) · ML, HS

"Decoding Cancer," an innovative and interactive biology and genetics education program, enhances science literacy and increases cancer education and awareness. Explore career profiles in the health and biomedical fields and cancer lesson comprehension. DecodingCancer.org

Casandra Gabriele, Rutgers State University of New Jersey and Rutgers Cancer Institute, Bloomfield, NJ

1922-128659 Life Science in the Garden Classroom

Cumberland G/H · Ecology / Environmental Science / Sustainability · Demonstration (30 min) · ES, ML, HS

This session walks through the journey students at Cut Bank HS took in planning, designing, building, and utilizing a campus native plant garden, including knowledge sharing through a Native Plant Garden STEM Trunk.

Bess Hjartarson, Cut Bank High School, Cut Bank, MT

1922-128322 BIO 101: An EPIC Success for Biology Students

Cumberland I/J · Curriculum Development · Paper (30 min) · 2Y, 4Y

Responding to post-pandemic academic struggles, Valparaiso University Biology designed a seminar series for Biology majors to increase success and retention. We present data on the successes of the program and recommendations for implementing similar courses.

Kristi Bugajski & Jane Kenney-Hunt, Valparaiso University, Valparaiso, IN

4:00 PM – 4:30 PM CONT.

1922-129213 From Classroom to Career Pathways: Exploring Biomanufacturing in Practice

Cumberland K · Biotechnology · Hands-on Workshop (30 min) · ML, HS

Educators learn how to use game-based learning to connect classroom content to STEM careers, by utilizing a bio-manufacturing simulation to introduce key industry concepts to students.

Hannah Schoeppner, Learning Undefeated, Gaithersburg, MD

1922-129063 Transforming Bioenergy Research into Classroom Case Studies: Alternative Fuels and Feedstocks Office BRIDGES Program

Cumberland L · Biotechnology · Demonstration (30 min) · HS, 2Y, 4Y

Discover free case studies from U.S. Department of Energy National Laboratories on cutting-edge bioenergy research that help upper-level high school and community-college students develop technical skills, explore real-world challenges, and envision career pathways.

Mike Kollasch, Argonne National Laboratory, Lemont, IL

1922-128248 Connect the Dots

Pegasus A · AP Biology® · Hands-on Workshop (30 min) · ML, HS, 4Y

A dynamic NGSS adaptable teaching strategy where students learn to cross book chapter lines, creating a powerful visual of how everything in life is connected by creating a unique web generated by the participants. Learn how to implement Connect the Dots in classrooms from 6th grade through higher ed.

Aggie Veld, Olivet Nazarene University, Bourbonnais, IL

MIT Presents:

1922-131463 Cytochrome P450 Proteins, Vaping, and Cancer with MIT Biology Hands-on Models

Pegasus B · Genetics · Hands-on Workshop (30 min) · HS, 4Y, GA

Investigate the molecular mechanisms behind drug-drug interactions, nicotine addiction, and cancer risk! Discover how metabolism of different drugs and toxicants can affect behavior and disease by comparing CYP protein active sites for different individuals.

Kathleen Vandiver, Massachusetts Institute of Technology, Lexington, MA; Amanda Gruhl Mayer, Massachusetts Institute of Technology, Dedham, MA

miniPCR Presents:

1922-132556 Central Dogma Made Visible: Hands-on and Digital Labs

Reunion A · General Biology · Demonstration (30 min) · HS, 2Y, 4Y

Watch genetic information flow from DNA to RNA to protein in real time, using cell-free protein expression in a test tube. Now in digital format, suitable for stand-alone delivery or integrated with a hands-on laboratory experience.

Kristin Hennessy-McDonald, miniPCR bio, Cambridge, MA

NCSE Presents:

1922-132160 Learn about NCSE's Sound Science Teacher Community

Reunion B · General Biology · Hands-on Workshop (30 min) · ML, HS

Are you teaching evolution, climate change, or data & media literacy skills at the high-school level? Want to try free standards-aligned resources with a community of passionate teachers? If so, join us to learn more.

Britt Miller & Wendy Johnson, National Center for Science Education, Oakland, CA

4:00 PM – 4:30 PM CONT.

Science Communication Lab Presents:

1922-130936 One Film, Three Classrooms: Three Ways Teachers Used Corals on the Brink to Inspire Scientific Thinking and Engage Students

Reunion C · Ecology / Environmental Science / Sustainability · Hands-on Workshop (30 min) · ML, HS, 4Y

Discover how the film Corals on the Brink inspired three educators to create distinct NGSS-aligned lessons that engage students in ecosystem modeling, scientific argumentation, conservation decision-making, and science communication while exploring one of today's most urgent environmental challenges.

Jennifer Broo, Mariemont High School, Cincinnati, OH; Rosa Veguilla, Science Communication Lab, San Diego, CA

Bio-Rad Presents:

1922-133236 Built for One: Inside the First Personalized CRISPR Therapy

Reunion E · Biotechnology · Demonstration (30 min) · HS, 2Y, 4Y

The world's first patient received a CRISPR therapy built for their mutation alone. Explore what made this milestone historic, how personalized editing could transform rare genetic-disease treatment, and how classroom kits make this science tangible.

Damon Tighe, Bio-Rad Laboratories, Hercules, CA

HHMI BioInteractive Presents:

1922-131362 From Wonder to Investigation: Using HHMI's Beautiful Biology in the Classroom

Reunion G · Instructional Strategies · Hands-on Workshop (30 min) · ML, HS

Explore how to use student-centered strategies and HHMI's Beautiful Biology – a repository of stunning scientific images with annotations – to spark curiosity, support inquiry-based learning and strengthen science practices in your students.

Catherina Sammons, Tates Creek High School, Lexington, KY

4:00 PM – 5:30 PM

Exhibit Hall Closing Reception

Marsalis Hall · Special Event

It's last call in the NABT Exhibit Hall. It's also your last chance to visit booths, talk to exhibitors, and get those freebies for your classroom. This special experience will include Treasure Hunt prize drawings, giveaways, and the drawing for the "Find the President" contest.

7:00 PM - 9:00 PM

NABT Science Disco & Halloween Party

Pegasus A/B · Special Event

Get ready to dance the night away at NABT's Science Disco & Halloween Party! This unique event will feature food, fun, and friends catching up and getting down. Don't have boogie fever? You can still show up in costume and enjoy a night of games, contests, and laughs. Tickets are not needed, and everyone is welcome!

Booth 400

minipcr bio®

Join us on Friday for Workshops in Room Reunion A



8:00 – 9:00 AM	Antibiotic resistance as a case study on natural selection
10:30 – 11:45 AM	Avian genetics lab activities for biology education
12:00 – 12:30 PM	Interactive Digital Labs for biology classrooms
12:45 – 1:15 PM	Bacterial transformation made easy with True Blue
1:45 – 2:15 PM	**Diagnosing sickle cell disease:** Hands-on and virtual genetics labs
2:30 – 3:45 PM	Explore ecology and conservation biology with lemurs
4:00 – 4:30 PM	**Central dogma made visible:** Hands-on and Digital labs

See all of our hands-on labs!







SATURDAY

ES - Elementary
GA - General Audience
ML - Middle, Junior High
HS - High School
2Y - 2-year College
4Y - 4-year College & University

POSTER SESSION

NABT Biology Education Poster Session

8:00 AM – 10:00 AM · Marsalis Hall · GA

GENERAL CATEGORY (NON-COMPETITIVE)

1. **Bringing HIPs to the Biology Classroom: Lessons from a Global Discovery Project**
   Christine Patrum, Georgia State University Perimeter College, McDonough, GA

2. **Learn with Worms: StressCURE's Modular Approach to Innovative Laboratory Design for Integrating Research into Undergraduate Courses**
   Joshua Gray, US Coast Guard Academy, New London, CT; Mindy Reynolds, Washington College, Chestertown, MD; Jennifer Newell-Caito & Sam Caito, University of Maine, Orono, ME; Jessica Hartman, Medical University of South Carolina, Charleston, SC; Julie Hall, Lincoln Memorial University, Harrogate, TN

3. **Designing a Diabetes-Focused Biology Curriculum for Peer Tutoring**
   Akash Sriram, Milpitas High School, Milpitas, CA

4. **Decoding the invasion: a biostatistics lesson for undergraduate courses**
   Shannon Walker, School of Biological, Environmental and Earth Sciences, The University of Southern Mississippi, Hattiesburg, MS; Natasha Woods, Department of Biological Sciences, Environmental Studies & Sciences Program, Moravian University, Bethlehem, PA; Alycia Lackey, Department of Biology, University of Louisville, Louisville, KY

5. **Exploring the impact of Virtual-Reality Enhanced Inquiry Focused Curriculum on Science Literacy and Science Identity in Non-Major's Biology.**
   Pamela Watson, Walter Dorfner & Lisa Abrams, Rowan University, Glassboro, NJ

6. **Accessibility in Biology Education: Instructional Strategies for a DeafBlind Student**
   Rebekah White, UA Little Rock, Little Rock, AR

7. **Biofilm inquiry laboratory activity for engaging students in scientific thinking**
   Danielle Schroeder, Mountain View High School, Marana Unified School District, Tucson, AZ; Caroline Krater, Canyon Del Oro High School, Amphitheater Unified School District, Tucson, AZ; Daryn Stover, Ethan Howley, Adriana Cimetta & Ingmar Riedel-Kruse, The University of Arizona, Tucson, AZ

8. **Advancing student-centered STEM teaching through graduate teaching assistants and the Student Experience Project**
   Brian Jusko, Emily Rauschert & Bill Kosteas, Cleveland State University, Cleveland, OH; Jasmine Vidrio & Samantha Levine, Coalition of Urban Serving Universities (USU), Washington, DC

9. **Comparative Analysis of Freshwater Quality Across Aquatic Systems in Omaha, NE.**
   Leticia Soh Tadjou Epse Tchato Nganko & Jeba Inbarasu, Metropolitan Community College, Omaha, NE

10. **Making a Case for Not-so-Identical, Identical Twins**
    Justin Pruneski, Heidelberg University, Tiffin, OH; Bethany Stone, University of Missouri, Columbia, MO

11. **Preparing Undergraduate Learning Assistants to Provide Support in Course-based Undergraduate Research Experience (CURE) Contexts: Development of a Training Module for Effective Peer Mentoring**
    Darla French, Oberlin College, Oberlin, OH

12. **Nature Journaling Fosters Creativity, Curiosity, Ecological Awareness, and Observational Skill Development Among College Ecology Students**
    Darla French, Oberlin College, Oberlin, OH

13. **Building a Source-Grounded AI Learning Assistant for Medical Microbiology: A Faculty-Curated Approach to Student Learning**
    Andrew Lee, Georgetown University, Washington, DC; Ghislaine Mayer, Texas Tech University Health Sciences Center, El Paso, TX

14. **Virtual Simulations Enhance Non-Traditional Student Learning and Attitudes in Microbiology Laboratory Courses**
    Ana Maria Barral, Veronica Ardi-Pastores, Rachel Simmons & Dawn Tamarkin, National University, San Diego, CA

15. **Research in a Week: An Immersive Approach to Teaching Biology Through Authentic Research**
    Daniel Moore, Southern Maine Community College, South Portland, ME

16. **Build quantitative skills and students' sense of belonging by featuring counter-stereotypical scientists in curricula with the Biologists and Graph Interpretation (BioGraphI) Project**
    Emily Rauschert, Cleveland State University, Cleveland, OH; Shannon Walker, USM, Hattiesburg, MS; Rachel Pigg, University of Kentucky Louisville, Louisville, KY; Suann Yang, SUNY-Geneseo, Geneseo, NY

17. **Visualizing Cell Signaling: Engineering Bioluminescent Bacteria for the Classroom**
    George Chenaux, Kelly Miller, Jeannie Spagnolo & Poornima Rao, Bio-Rad Laboratories Inc., Hercules, CA

18. **Teaching Field Biology Through International Service-Learning**
Jill Zipperer, Carrie J. Bucklin & Kristy L. Daniel, Texas State University, San Marcos, TX

19. **The Study of Water Contamination in Papillion, NE.**
Emily Fredlund & Jeba Inbarasu, Metropolitan Community College, Omaha, NE

20. **Evolving the Culture of Biology: Developing New Strategies and Resources for Teaching Assistant - Teaching Professional Development (TA-TPD)**
Kaleb Heinrich, New Mexico State University, Las Cruces, NM; Stephanie Gutzler, Georgia State University, Atlanta, GA; Mitra Asgari, University of Missouri, Columbia, MO; Adam Chouinard, Oregon State University, Corvallis, OR; Erin Shortlidge, University of New Mexico, Albuquerque, NM; Star Lee, UC Irvine, Irvine, CA

21. **Combining science and art to educate students and the general public**
Jennifer Schieltz, Iowa State University, Ames, IA

22. **Evaluating the benefit of second-chance testing policies for at-risk students**
Rebecca Hunter & Jennifer Hennigan, Abilene Christian University, Abilene, TX

23. **Biofilm Photolithography: Demonstrating Gene Regulation with Blue Light Induced Bioart**
Tobias Kochenderfer, Tucson High Magnet School, Tucson, AZ; Ethan Howley, Daryn Stover, Adriana Cimetta & Ingmar Riedel-Kruse, The University of Arizona, Tucson, AZ

24. **When Cells Lose Their Way: Development, Mutation, and Cancer**
Amy McElhinney, University of Mount Union, Alliance, OH

25. **How Research Experiences for Teachers (RETs) Changes My Pedagogy**
Kirsten Salonga, Justice High School, Alexandria, VA

26. **Scaffolding Cancer Concepts in General and Advanced High School Biology: A Two-Level Instructional Model**
Natalia Coleman, Neril Sandeep & Rudy Baez, Jose Marti STEM Academy, Union City, NJ; Casandra Gabriele, New Jersey Cancer Institute, Rutgers, New Brunswick, NJ

27. **Precision Under Pressure: Teaching CRISPR Through Scientific Decision-Making**
Natalia Coleman, Jose Marti STEM Academy, Union City, NJ

28. **Can AI serve as a partner to deepen conceptual understanding, or to improve scientific literacy and research skills?**
Barbara Murdoch, Eastern Connecticut State University, Willimantic, CT

29. **Building an open education ecosystem to facilitate the adoption of open science resources in undergraduate biology education**
Sam Donovan, Deb Rook & Sarah Prescott, BioQUEST Curriculum Consortium, Raymond, NH; Drew LaMar, William and Mary University, Williamsburg, VA

30. **User-friendly genomic data science: Evidence-based integration at 2-year colleges**
Elizabeth Humphries & Ava Hoffman, Fred Hutchinson Cancer Center, Seattle, WA; Rosa Alcazar & Stephanie Coffman, Clovis Community College, Fresno, CA; Xiomara Chianelli, El Paso Community College, El Paso, TX; Karla Fuller, Guttman Community College, New York, NY

31. **Making Podcasts Matter: Student Perceptions of Educational Podcasts in Biology Courses**
Phil Gibson, University of Oklahoma, Norman, OK; Kristen Savage-Ashlock, University of Oklahoma, Norman, OK; Katriana Popichak, Colorado State University, Fort Collins, CO

32. **Introducing High School Students to Authentic Research through Community College and High School Collaborations**
Sharon Gusky, CT State CC : Northwestern, Winsted, CT; Angela Norige, Torrington High School, Torrington, CT

33. **The BioQUEST Curriculum Consortium: A Community of Educators Supporting Evolution and Revolution in STEM Education**
Sarah Prescott, BioQUEST/UNH, Raymond, NH; Deborah Rook & Sam Donovan, BioQUEST, Raymond, NH; Drew LaMar, William & Mary, Williamsburg, VA

34. **Finding Wonder in Nature: Preparing Preservice Teachers Through Journaling, Literature, and an Author Visit**
Ashley Campbell & Brigette Whaley, West Texas A&M University, Canyon, TX

35. **Parallel Implementation of CUREs in the Principles of Biology Laboratory Sequence**
Clint E. Edmunds & Vivian Padín-Irizarry, Clayton State University, Morrow, GA

36. Defying Gravity, Defining Genes: Space Biology for the Classroom
Jack Treml, University of Kansas, Edwards Campus, Prairie Village, KS; Jody Brison-Molina, Frontier Schools, Kansas City, MO; Kara Burke, Independence School District, Independence, MO; Nola Hoffmann, Shawnee Mission School District, Prairie Village, KS; Alex Luchen, Grandview School District, Grandview, MO; Megan Martin, Center School District, Kansas City, MO

37. From Cells to Society: Making Biology Matter Through Project-Based Learning
Tarannum Uddin, Wilbur Wright College, Chicago, IL

STUDENT COMPETITION: BIOLOGY EDUCATION RESEARCH

38. Investigating the impact of instructor messaging on student perceived utility value and external resource use during an out-of-class biology concept assessment
Tiffany Burgess & Brian Couch, University of Nebraska-Lincoln, Lincoln, NE

39. Teaching First-year Undergraduate Biology Students the Central Dogma of Molecular Biology with a PBL Activity on Huntington's Disease: A Pilot Study
Carly Carron, Katherine Sharp & Carson Dudley, Missouri University of Science and Technology, Rolla, MO

40. Historical perspectives on vaccine hesitancy: what variolation teaches biology education
Caroline Moon, Davidson Fine Arts, Augusta, GA; Hyunjin Shim, Texas Tech University, Lubbock, TX

41. Strengthening STEM Instruction Through Targeted Curriculum Development
Madison Calla & Jeanette Gore, University of Tampa, Tampa, FL

42. Strengthening STEM Instruction Through Hands-on Learning Experiences in a Final Teaching Practicum
Cassidy Pardini & Jeanette Gore, The University of Tampa, Tampa, FL

43. Student Impacts of a Power-of-Place Course-based Undergraduate Research Experience on Local Urban Soil Microbiomes
Emma Throneburg, Natalie Christian & Rachel Pigg, University of Louisville, Louisville, KY

44. Nature-Based Solutions and Community Engagement: A School-Based Approach in Texas
Alexis Denn & Davida Smyth, Texas A&M University- San Antonio, San Antonio, TX

45. From Misconceptions to Mechanisms: Understanding Ion Dynamics in an Introductory Biology Laboratory
Omisha Saraf & Tarren Shaw, University of Oklahoma, Norman, OK

46. A Case Study of Horizontal Gene Transfer via Rafflesia
Eleanor Hartle, University of Missouri - Columbia, Columbia, MO; Rebecca Seipelt-Thiemann, Middle Tennessee State University, Murfreesboro, TN

47. Science Literacy for All: An Equity-Focused Assessment Tool for Measuring Real-World Science Skills
Chelsea Miller & Desiree Pointer Mace, Alverno College, Milwaukee, WI

48. A Thematic Analysis of Lab Instructors Post-Pandemic: The Challenges and Changes Made in Instruction.
Jennifer Sollinger & Margaret Blanchard, North Carolina State University, Raleigh, NC

STUDENT COMPETITION: MENTORED STUDENT RESEARCH

49. The Efficacy of Bacillus Subtilis in Promoting Growth of ABA-Deficient(CS156) and Wild-Type Arabidopsis Thaliana in Zinc-Contaminated Soil
Anurith Kusunam & Linda Hand, Biotechnology High School, Freehold, NJ

50. Interactions of Emerin with Histone Modifying Enzymes in Nuclear Envelope-Mediated Repression
Aayush Gupta, Edison High School, Edison, NJ; Richard Condon & James Holaska, Rowan University, Camden, NJ

51. Same Receptor, Different Damage: What Two Fruit Fly Mutations Reveal About Neurodegenerative Vulnerability
Anusha Manda, Dripping Springs High School, Dripping Springs, TX; Thilini Wijesekera, University of Texas, Austin, Austin, TX

52. Application of CRISPR and Stem-Cell Therapy in a Potential Curative Approach to Familial Alzheimer's Disease
Parvathi Halliyur, Centennial High School, Frisco, TX; Jobin Varkey, University of Southern California, Los Angeles, CA

53. Transcriptomic Reanalysis of PMA-Induced THP-1 Monocyte-to-Macrophage Differentiation Reveals a Tissue-Resident Macrophage Signature
Hetvi Patel, Coppell High School, Coppell, TX; Dun Ning, University of Texas at Dallas, Richardson, TX

54. Ferroptosis and Venetoclax Sensitivity in Acute Myeloid Leukemia: Why Cell Differentiation Matters
Samika Agarwal, Woodbridge Academy Magnet School, Woodbridge, NJ; Katie Wilwohl, University of Mississippi, Lafayette County, MS

55. **An EpCAM-Targeted Mirror-Image DNA Nanostructure for Precise Drug Delivery in Triple-Negative Breast Cancer**
Sihan Wu, Carmel High School, Carmel, IN; Wen Zhang, Indiana University School of Medicine, Indianapolis, IN

56. **Computational Discovery of Potential IL-1R1 Inhibitors for Modulating IL-1-Mediated Neuroinflammation and Neurodegeneration**
Vihaan Mundra, Saint Joseph High School, Sayreville, NJ; Jobin Varkey, University of Southern California, Los Angeles, CA

57. **Wolfpack Move-out: Fostering Sustainable Lives**
Claire Dorsey & Aimée Thomas, Loyola University New Orleans, New Orleans, LA

58. **Evaluating the Antimicrobial Activity of Novel Ionic Liquids Against Oral Bacterial Pathogens: A Comparative Study on Minimum Inhibitory Concentrations**
KaLong Chan, Danieli Rodrigues, Anthony Reyes & Sumedha Guha, The University of Texas at Dallas, Richardson, TX

59. **Towards Intoxication Detection via Non-invasive Natural Typing**
Caiden Bergeron, Louisiana School for Math, Science, and the Arts, Natchitoches, LA; Joonha Chang, LSUHSC, School of Public Health, Department of Biostatistics and Data Science, New Orleans, LA

60. **Isolation and Characterization of Novel Bacteriophages Raya and Skyerus in SEA-PHAGES Introductory Biology**
Selena Ritschel & Evdokia Kastanos, Montgomery College, Rockville, MD

61. **Predicting Isolation Origin and Characterizing Resistance Associated Accessory Genes in Vibrio parahaemolyticus Through Pangenome Analysis and Machine Learning**
Shravan Yoagentharan, Centennial High School, Ellicott City, MD; Padmini Ramachandran, Food and Drug Administration, Silver Spring, MD

62. **Beyond Apoptosis: Exploring Alternative Cell Death Pathways in Tumor Biology**
Samyuktha Musunuru, Imagine International Academy of North Texas, Allen, TX; Mayuri Bandekar, Pangea Society, Mumbai, Maharashtra

63. **How Social Isolation Affects Amygdala Activity and Brain Function**
Kavin Senthil Kumar, Upper St Clair High School, Pittsburgh, PA; Jobin Varkey, University of Southern California, Los Angeles, CA

64. **Protective Effects of Ascorbic Acid on Hydrogen Peroxide-Induced Oxidative Stress in Escherichia Coli**
Halima Abdul-Rauf, Bhooma Srinivasan, Paloma Rodriguez De Leon & Roger Kedley, UNT Dallas, Dallas, TX

65. **CLOCK Dysfunction Unveils Evidence for Tissue-Specific Regulation Beyond Pacemaker Neurons Following Traumatic Brain Injury**
Reya Satam, Phillips Exeter Academy, Exeter, NH; Olivia Heintz, UMass Chan Medical School, Worcester, MA

66. **Mitochondrial Function Across Developmental Stages of C. elegans**
Katherine Cui, Westlake High School, Austin, TX; Joseph Dubie, The University of Texas at Austin, Austin, TX; Haein Jung, Westwood High School, Austin, TX; Anthony Kim, Allen High School, Dallas, TX

67. **The Biochemical Profile of Rhizosphere Bacteria of Select Microgreen Plants**
Aseem Uddin, Khalid Uddin & Bara Sarraj, Harold Washington College, Chicago, IL

7:15 AM – 8:00 AM

NABT BioClub Breakfast

Cotton Bowl · Special Event (Tickets Required)

Every year, the NABT BioClub supports students at K-12 schools, community colleges, and informal learning organizations throughout North America. Join us to share what your club is doing or learn how to start a BioClub Chapter of your own!

Sponsored by Carolina

7:30 AM – 8:45 AM

Committee Meetings

Marsalis Hall · Committee Meeting (75 min) · GA

Learn more about the different volunteer opportunities available at NABT. Committee Chairs and Regional Coordinators will highlight ways to get involved that fit your interests and schedule. Help support the programs that support you as a leader in life-science education. See page 13 for details about different NABT committees.

8:00 AM – 8:30 AM CONT.

Appleseed Expeditions Presents:

1922-131887 Yellowstone Alive: Bringing the American Serengeti into the Science Classroom

Cumberland B/C · Ecology / Environmental Science / Sustainability · Demonstration (30 min) · ML, HS

Explore Yellowstone's ecosystems through wildlife, conservation research, and inquiry-based activities. Learn practical strategies for teaching food webs, biodiversity, population dynamics, and ecosystem change using engaging classroom investigations.

Joe Moore, Appleseed Expeditions, Freeport, FL

1922-129103 DNA Barcoding and DNA Subway 2.0

Cumberland E/F · Ecology / Environmental Science / Sustainability · Hands-on Workshop (30 min) · HS, 2Y, 4Y

Explore DNA barcoding using DNA Subway 2.0, a web-based platform that simplifies complex genomic workflows into intuitive bioinformatic "stops." Master species identification and phylogenetics in this hands-on workshop. Please bring a phone or laptop to participate.

Arie Kaz, Cold Spring Harbor Laboratory, Wayne, NJ

1922-128113 The Alignment Advantage: Collaborative Planning That Delivers

Cumberland G/H · Curriculum Development · Demonstration (30 min) · HS

A shared planning calendar and focused Professional Learning Community meetings can help your team stay aligned, manage pacing, and support student learning. Explore practical tools and examples that can be adapted to your own departments.

Kyla Hooker, Los Alamos Public Schools, Los Alamos High School, Los Alamos, NM

1922-129264 An Introduction to "Effective Teaching": An Online Course for Faculty Action

Cumberland I/J · JEDI / Inclusive Teaching Practices · Hands-on Workshop (30 min) · HS, 2Y, 4Y

A hands-on introduction to the free online course, "Effective Teaching." Designed for undergraduate biology faculty, this course is organized into five modules that help participants identify inclusive practices and enact strategies to create user-centered classrooms.

Kaitlin Bonner, St. John Fisher University, Rochester, NY; Sam Donovan, BioQUEST, Pittsburgh, PA; Bryan Dewsbury, Florida International University, Miami, FL

1922-129120 Teaching Cell-Cell Adhesion Using Synthetic Biology: A Cell Aggregation Laboratory Activity

Cumberland K · Biotechnology · Demonstration (30 min) · HS, 2Y, 4Y

Cell-cell adhesion is essential to numerous biological processes (e.g., immune function, sexual reproduction, tissue development, biofilm formation) and may be observed by students in real-time using our guided-inquiry, customizable, cell aggregation laboratory activity.

Daryn Stover, University of Arizona, Tucson, AZ

1922-129275 Putting Students in the Expert Seat: Mastering Leukocyte Identification via AR-Enhanced Jigsaws

Cumberland L · Instructional Strategies · Hands-on Workshop (30 min) · HS, 2Y, GA

Master the morphology of white blood cells using Augmented Reality and jigsaw pedagogy. This evidence-based activity transforms students into "experts," leveraging mobile devices to overcome visualization hurdles and significantly improve leukocyte-identification accuracy.

Ranya S. Taqieddin, Saint Charles Community College, Cottleville, MO

8:00 AM – 8:30 AM CONT.

1922-128677 Supporting Student Success, Access and Outcomes

Pegasus A · Instructional Strategies · Hands-on Workshop (30 min) · 2Y

Early support and meaningful access can shape a student's entire academic journey. Students' success means more than offering resources; it's about understanding their unique needs, and proactively removing the barriers that hinder their progress.

Shanthi Murali, Dallas College, Farmers Branch, TX

1922-129117 RNA-seq Before R: Teaching Gene Expression Through Research in Introductory Undergraduate Biology Classes

Pegasus B · Genetics · Demonstration (30 min) · 2Y, 4Y

C-MOOR miniCURES are modular curricula focused on teaching genomic data science through student research in undergraduate biology classes. Participants will explore modules investigating gene expression in the Drosophila midgut on the cloud platform AnVIL.

Sayumi York, Notre Dame of Maryland University, Baltimore, MD; Rosa Alcazar, Clovis Community College, Fresno, CA

Flinn Scientific Presents:

1922-131713 Exploring Biology: A Flinn Bundle

Reunion B · General Biology · Hands-on Workshop (30 min) · ML, HS

Discover Flinn's Exploring Biology bundle through a hands-on highlight: Students create algae balls, place them into a bromothymol blue indicator, and visualize photosynthesis! A simple, engaging way to make plant metabolism visible and measurable.

Jodi Knabe, Flinn Scientific, Inc., Batavia, IL

3D Molecular Presents:

1922-133332 From Water to Wonder: Hands-On Models for Biological Understanding

Reunion C · General Biology · Hands-on Workshop (30 min) · ML, HS, GA

In this hands-on session, participants explore models that reveal water's remarkable chemical properties and deepen understanding of how life maintains and regulates homeostasis through the movement of water and ions in biological systems.

Keri E Shingleton, 3D Molecular Designs, Tulsa, OK

1922-129234 Acting Up in Biology

Reunion E · General Biology · Hands-on Workshop (30 min) · HS, 2Y

Come act out in biology! Each participant becomes a component of 4 physiological processes using kinesthetic learning. Fun, fast paced and engaging – teachers will leave with protocols and card sets for teaching these processes.

Brenda Royal, Middle Tennessee State University, Murfreesboro, TN; Elesha Winebrenner, Central Magnet School, Murfreesboro, TN

8:00 AM – 10:00 AM

1922-131883 AP Symposium: Results from the 2026 AP® Environmental Science and AP® Biology Exams

Reunion A · AP Biology®, AP Environmental Science® · Symposium (2 hours) · GA

Join us for a discussion of the results of the 2026 AP Environmental Science and AP Biology exams, overall student performance, and experiences from the Reading. We will review the different components of each exam, with a focus on particular questions, content areas, and skills that were a challenge for students. Participants will obtain valuable insight into common misconceptions and errors that students demonstrated on the exams. Educators will be able to use the results to identify strategies that help them prepare their students, and to build their own understanding of the exams and the Reading. New and experienced science educators, as well as teachers and administrators interested in introducing AP Environmental Science or AP Biology, are encouraged to attend and ask any questions they have about the exams.

Scott Sowell, Atlantic Coast High School, Jacksonville, FL; Aaron L. Mathieu, Acton-Boxborough Regional High School, Acton, MA

1922-132728 NABT Biology Education Poster Session & Coffee Break

Marsalis Hall · Instructional Strategies · Special Symposium (2 hours) · GA

The NABT Poster Session highlights best practices, programs, and scholarship in three distinct categories: general strategies for teaching biology, the scholarship of teaching, and mentored student research. Student presenters are eligible for two competitions, and winners will be announced after the closing general session.

8:45 AM – 9:45 AM

1922-129204 Community Science in the Classroom: Digital Tools for Nature Exploration and Undergraduate Research

Cotton Bowl · Technology in the Classroom · Hands-on Workshop (60 min) · HS, 2Y, 4Y

This session will demonstrate how to use nature-based apps and community science initiatives to bridge the gap between course content and real-world application. After the demonstration, attendees will go outside to participate in a mini-BioBlitz!

Danielle Gay, Jill Zipperer & Mallika Saha, Texas State University, San Marcos, TX

1922-129200 Industry Insights - Bridging Science Curricula to Careers in the Bioscience Industries

Cumberland A · Biotechnology · Hands-on Workshop (60 min) · HS, 2Y, 4Y

Join us for an engaging presentation and hands-on activity for introducing students to valued workplace skills while building awareness of bioscience industry careers.

Tamara Mandell, University of Florida, Biotility, Gainesville, FL

1922-128964 Beyond the Classroom: Using Films, Hands-On Learning, and Community Engagement to Foster Student Belonging and Agency

Cumberland B/C · Curriculum Development · Hands-on Workshop (60 min) · ES, ML, HS

This workshop showcases how film-based, community-connected science lessons can foster student belonging and agency, using real-world case studies and hands-on integration strategies to help educators design meaningful learning experiences that extend beyond the classroom.

Shannon Behrman, Science Communication Lab, Berkeley, CA; Yajaira Torres De Jesus, Colegio Rosa-Bell, Guaynabo, PR; Susan Bartol, Hillside Elementary, Montclair, NJ

1922-129107 Mitochondrial DNA Analysis: Exploring Human Diversity and Evolution

Cumberland E/F · Evolution · Hands-on Workshop (60 min) · HS, 2Y, 4Y

Dive into hands-on genetics by extracting your own mitochondrial DNA! Learn how to analyze your DNA sequencing data to investigate human diversity and evolution, and compare your mtDNA with people from around the world.

Arie Kaz, Cold Spring Harbor Laboratory, Wayne, NJ

1922-128526 Smarter Feedback, Less Grading: Using AI to Transform Science Classrooms

Cumberland G/H · Instructional Strategies · Hands-on Workshop (60 min) · GA

From overwhelmed to optimized: Discover how AI can streamline grading, strengthen feedback, and improve scientific writing in biology courses while preserving academic integrity and instructor expertise.

Tanya Quiroz, Galen College of Nursing, Alcolu, SC; Jacqueline McCray, Galen College of Nursing, Houston, TX

1922-129221 Science For All: Engineering Structural Equity in the Biology Lab

Cumberland I/J · JEDI / Inclusive Teaching Practices · Hands-on Workshop (60 min) · ES, ML, HS, GA

Move beyond surface-level representation! Learn how to use a structured equity rubric to audit experiments and curricula for linguistic and cultural barriers, integrating WIDA standards and scaffolded inquiry to increase agency for ALL biology students!

Kirsten Salonga, Virginia Association of Science Teachers, Alexandria, VA

1922-129216 Implementing Actionable Norms to Promote Effective and Meaningful Student Collaboration

Cumberland K · Instructional Strategies · Hands-on Workshop (60 min) · ML, HS

In this session, participants will engage in a blood-type task to explore strategies for establishing clear and intentional actionable norms that promote a classroom culture of effective and meaningful student collaboration.

Selendra Mullen, Duncanville High School, Red Oak, TX

1922-129058 NeuroCase Chronicles: A Case-based Curriculum to Teaching Emerging Topics in Neuroscience

Cumberland L · Neuroscience · Demonstration (60 min) · ML, HS

Explore NeuroCase Chronicles, a hands-on, case-based neuroscience curriculum. Experience activities on emerging topics in neuroscience including brain-computer interfaces, AI, therapeutic interventions, and ethics, and leave with ready-to-use lessons and strategies for engaging high-school students.

Matthew Blank, Baylor College of Medicine, Houston, TX

1922-128688 Connecting Teachers to Tools: The HudsonAlpha Educator Resource Hub

Pegasus A · General Biology · Demonstration (60 min) · ML, HS, GA

Join HA educators as they share free resources on the Educator Resource Hub. Explore content including: classroom supports, cells, heredity, energy, molecules of life & unity and diversity resources. This session promises something for everyone!

Jennifer Hutchison, Madelene Loftin, Malcolm Parker & Aubri Simpkins, HudsonAlpha Institute for Biotechnology, Huntsville, AL

8:45 AM – 9:45 AM CONT.

1922-128671 Shape Shifters: Spike Proteins, ACE2 Receptors and Viral Spread... Oh, My!

Pegasus B · Genetics · Hands-on Workshop (60 min) · ML, HS, 2Y

Come participate in an inquiry-based 5E lesson that addresses the scientific concepts behind the spread of COVID-19, its subsequent variants, and the role that vaccines play in slowing or stopping the spread of viral infections.

Julie Angle, Professor Emeritus - Science Education; Oklahoma State University, Dallas, TX; James Mantooth, Meridian Technology Center, Stillwater, OK

Flinn Scientific Presents:

1922-132000 Active Learning in the Biology Classroom

Reunion B · General Biology · Hands-on Workshop (60 min) · ML, HS

A hands-on session for Biology teachers that will explore mitosis via microscopes and pop beads, inheritance via Sno-Ball Sillies, natural selection via a STEM challenge, and membrane transport via hands-on activities.

Jodi Knabe, Flinn Scientific, Inc., Batavia, IL

3D Molecular Presents:

1922-133329 The Shape of Life: Modeling Cell Structure and Function with the Cell Modeling Kit

Reunion C · General Biology · Hands-on Workshop (60 min) · ML, HS, 2Y

This hands-on session will challenge participants to create and interpret models to illustrate the diversity of structures and functions of life at the cellular level.

Jim Lane, Mahtomedi High School, Mahtomedi, MN

1922-128720 Bacterial Emergency Mode: How Cells Decide Between Survival and Mutation

Reunion E · AP Biology® · Hands-on Workshop (60 min) · HS, 2Y, 4Y

Engage students in AP Biology using AI as a tool for inquiry, critique, and communication. Explore the SOS response to model gene regulation while guiding students to generate, evaluate, and refine scientific explanations.

Sarmistha Ghosh, Hawthorne Academy of Health Sciences, Charlotte, NC

10:00 AM – 11:00 AM

1922-128252 Rethinking Teaching and Learning in the Age of AI

Cotton Bowl · AP Biology® · Hands-on Workshop (60 min) · HS, 2Y, 4Y

Artificial intelligence is changing how we teach and how students learn. In this interactive workshop, learn practical strategies that minimize the pitfalls and leverage the possibilities of AI for teaching and learning.

James Morris, Brandeis University, Waltham, MA

1922-129273 Simplify Grading and Support Students: A Design Sprint for Competency-based Classrooms

Cumberland A · General Biology · Hands-on Workshop (60 min) · HS, 2Y, 4Y

Competency-based Grading benefits student learning and growth, and reduces teacher workload… but how to get started? This design workshop will help you develop a concrete plan to simplify grading in your courses and improve student outcomes.

Stephen Traphagen, Oak Park and River Forest High School, Oak Park, IL

10:00 AM – 11:00 AM CONT.

1922-127943 Using "Darwin Cards" to Demonstrate the Incredible Power of Natural Selection

Cumberland E/F · Evolution · Hands-on Workshop (60 min) · HS, 2Y, 4Y

Students challenge evolutionary change as being statistically impossible. This easy, hands-on lab demonstrates the amazing power of natural selection and makes them revisit their skepticism using probability and statistics! Simple, low cost, and very effective.

Dave Sheldon, St. Clair County Community College, Ft. Gratiot, MI

1922-127855 Designing High-impact Group Work for Asynchronous and Face-to-face Biology Courses

Cumberland G/H · Instructional Strategies · Hands-on Workshop (60 min) · HS, 2Y, 4Y, GA

Build high-impact group work that strengthens biology learning across modalities. Analyze scalable models—from genetics jigsaws to climate campaigns—and design your own structured, accountability-driven assignment during this interactive workshop.

Anica Lee, Texas State University-Department of Biology, San Marcos, TX

10:00 AM – 11:00 AM CONT.

1922-129267 Beyond Memorizing Pathways: Teaching Cellular Energetics with the ATP Currency Game

Cumberland I/J · Microbiology & Cell Biology · Hands-on Workshop (60 min) · HS, 2Y, 4Y

Participants will experience the ATP Currency Game, a hands-on activity where students earn and spend ATP while responding to environmental changes. Attendees play the game, explore learning outcomes, and receive sample materials for classroom implementation.

Gabriel E. Guzman, Triton College, River Grove, IL

1922-129268 Before the Taps Run Dry: Developing Group-worthy Tasks to Explore the Water Cycle and Human Impacts

Cumberland K · Instructional Strategies · Hands-on Workshop (60 min) · ML, HS, GA

Participants will experience a group-worthy task on the water cycle and human impact. Participants will then use a rubric based on 5 Elements of Group-worthy Tasks to evaluate and modify their own tasks.

Takumi Sato, Knowles Teacher Initiative, Moorestown, NJ

1922-129172 Preparing Undergraduate Biology Students to Bridge Ideological Divides with Science Communication

Cumberland L · Science Practices · Symposium (60 min) · HS, 2Y, 4Y

Learn strategies for preparing students to be effective communicators about topics like vaccines and climate change from researchers in the growing field of science-communication education research!

Erin Rowland-Schaefer, University of Nebraska-Omaha, Omaha, NE; Liz Barnes, Middle Tennessee State University, Murfreesboro, TN; Jamie Jensen & Isaiah Aduse-Poku, Brigham Young University, Provo, UT

1922-129060 Bioscience Career Cards

Pegasus A · Biotechnology · Hands-on Workshop (60 min) · ML, HS, GA

The growing bioscience sector faces talent shortages due to limited awareness. Do your students know about these jobs? Free Bioscience Career Cards and ready-to-use, teacher-developed activities can quickly integrate career exploration into your classroom.

Aubri Simpkins, HudsonAlpha Institute for Biotechnology, Dothan, AL; Madelene Loftin, Jennifer Hutchison & Malcolm Parker, HudsonAlpha Institute for Biotechnology, Huntsville, AL

1922-129055 From Passive to Participatory: Transforming Online Biology Engagement with Miro Boards & Other Online Whiteboards

Pegasus B · Instructional Strategies · Demonstration (60 min) · HS, 2Y, 4Y

Online biology courses often struggle with student disengagement, passive learning, and limited collaboration. This interactive workshop introduces educators to practical, evidence-based strategies for increasing engagement using Miro boards as a dynamic, visual teaching and collaboration tool.

Jacqueline McCray, Galen College of Nursing, Houston, TX; Tanya Quiroz, Galen College of Nursing, Alcolu, SC

1922-133320 3D Molecular Presents: Protein Pep Talk: Folding Big Ideas into Every Biology Class

Reunion C · Instructional Strategies · Hands-on Workshop (60 min) · ML, HS, 2Y

Proteins power life. In this hands-on session, participants build amino acids, form protein chains, and explore folding through modeling. Leave with classroom-ready modeling investigations that help students explain how molecular structure drives function across diverse biological systems.

Keri E Shingleton, 3D Molecular Designs, Tulsa, OK

1922-129028 Think Global, Act Local: Vaccine Advocacy Using a Cholera Storyline

Reunion E · AP Biology® · Hands-on Workshop (60 min) · HS

Combat vaccine misinformation by integrating global health reporting into your biology lessons using a hands-on cholera storyline featuring Pulitzer Center journalism. Free interactive lessons provided to cultivate empathy, increase scientific literacy, and inspire vaccine advocacy.

Rebecca Brewer, Troy High School, Troy, MI

11:00 AM – 12:15 PM

GENERAL SESSION & PRESENTATION OF THE 2026 NABT DISTINGUISHED SERVICE AWARD

Phillip A. Sharp, PhD

See page 20 for biography

A Conversation with Phillip A. Sharp, PhD, Nobel Laureate

Reunion FH · Special Speaker (60 min) · GA

Dr. Phillip A. Sharp is an Institute Professor and Professor of Biology Emeritus at the Massachusetts Institute of Technology and an intramural faculty member at MIT's Koch Institute for Integrative Cancer Research. In 1993, he was a recipient of the Nobel Prize in Physiology or Medicine for the discovery of split genes, a breakthrough that transformed scientists' understanding of gene expression and RNA splicing.

Dr. Sharp's extraordinary life and career are the focus of the documentary Cracking the Code: Phil Sharp and the Biotech Revolution, narrated by Mark Ruffalo. The film traces his path from rural Kentucky to Nobel Prize–winning scientist, and explores how his discoveries helped launch the biotechnology revolution and advance modern medicine.

Join us for this fireside-chat conversation with Dr. Sharp as he reflects on the story behind the film, a lifetime of discovery, the importance of curiosity and scientific education, and the opportunities ahead for the next generation of biologists.

NABT is proud to name Dr. Phillip A. Sharp the recipient of the 2026 Distinguished Service Award for Enhancing Biology Education.

12:15 PM - 12:30 PM

Announcement of the 2026 Poster Winners

Reunion FH · Special Event · GA

NABT is pleased to announce the student winners of the Biology Education Research and Mentored Student Research competitions.

12:30 PM – 2:30 PM

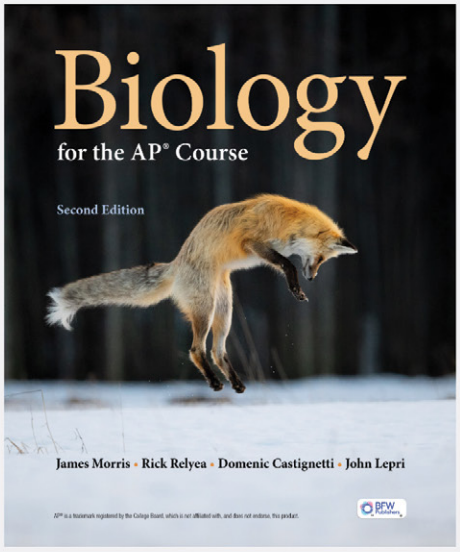
Honors Luncheon

Reunion A/B · General Biology · Special Event (Tickets Required)

NABT is proud to recognize the 2026 NABT Award recipients during this celebratory event. We will honor exceptional biology teachers from all levels, and everyone is welcome to join us to congratulate these remarkable professionals.



Help Your Students Outfox the AP® Biology Exam!



Visit us at
BFW BOOTH #407

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CONGRATULATIONS

to Dr. Phillip Sharp on Receiving 2026 Distinguished Service Award from NABT!

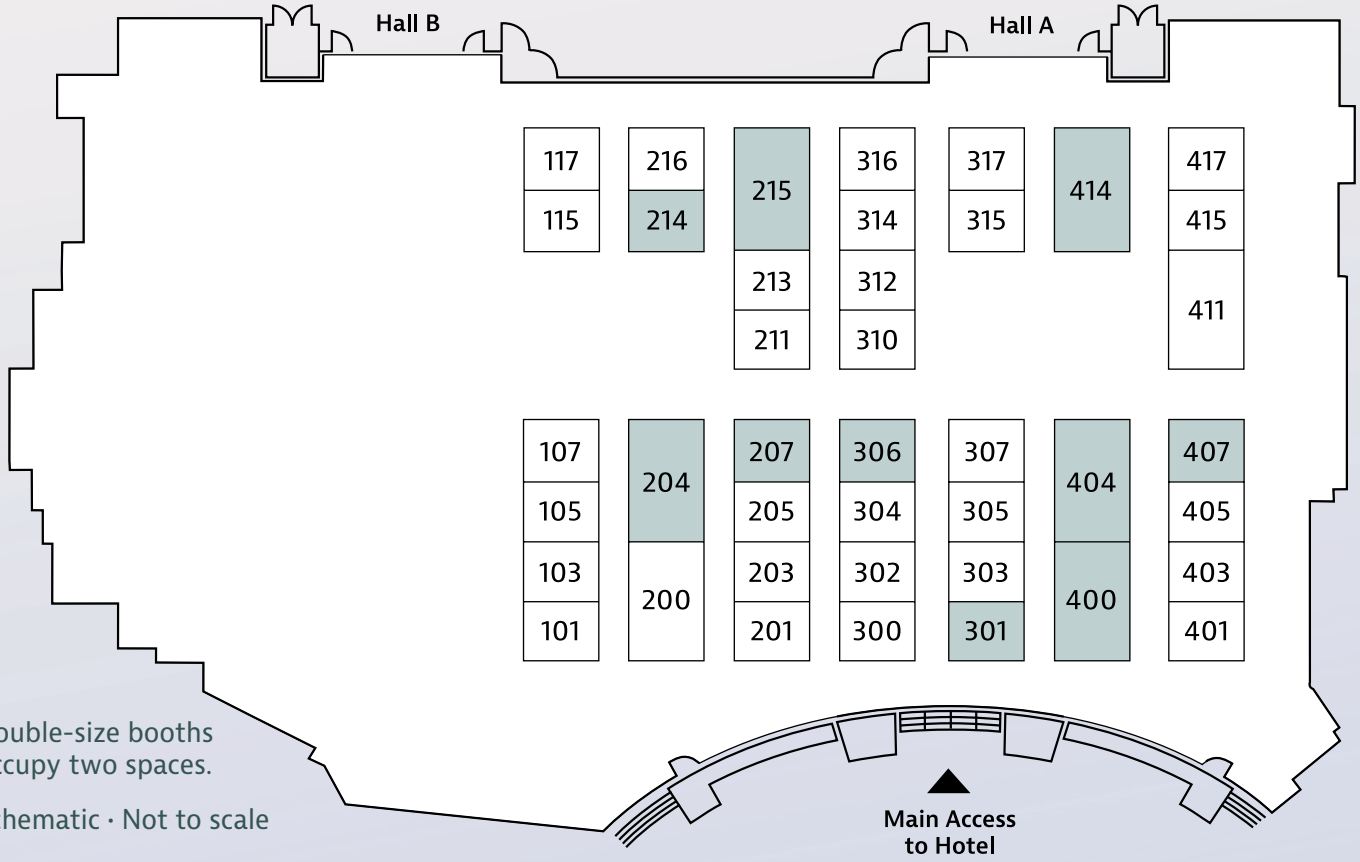
Visit the Uncommon Productions booth to get a free copy of the new documentary *Cracking the Code: Phil Sharp and the Biotech Revolution,* companion book, and accompanying Educator Toolkit.

BOOTH #304



Marsalis Hall

Hyatt Regency Dallas · October 29-30, 2026



Double-size booths occupy two spaces.

Schematic · Not to scale

EXHIBIT HALL HOURS

THURSDAY
4:15PM–6:15PM
Exhibit Hall Grand Opening Reception

FRIDAY
7:30AM–5:30PM
Exhibit Hours

4:00PM–5:30PM
Exhibit Hall Closing Experience

EXHIBITOR KEY

SPONSOR BOOTHS

Sponsor

SPONSOR TIERS

- Diamond
- Gold
- Silver
- Treasure Hunt Exhibitors

3D Molecular Designs

Booth #414
3dmoleculardesigns.com/

At 3D Molecular Designs (3DMD), we transform science learning through our dynamic hands-on kits and interactive models. 3DMD's popular innovative manipulative kits are known for accuracy and durability, and most are unique in the biomolecular marketplace. Our comprehensive suite of resources is developed to empower educators and engage students, driving a deeper understanding of complex scientific concepts. 3D Molecular Designs blends digital tools and educational resources with physical kits and models, redefining the teaching and learning of biomolecular sciences. Our commitment to fostering curiosity, critical thinking, and a passion for scientific exploration forms the foundation of this company.

Algae Research and Supply Inc.

Booth #211
algaeresearchsupply.com

Algae Research and Supply helps high school biology teachers bring living microalgae into the classroom. Our cultures and kits support labs on photosynthesis, cellular respiration, population growth, water quality, and biotechnology, all sized to fit a class period and a standard lab bench. Every kit ships ready to use with a teacher guide, student handouts, and alignment to NGSS, AP Biology, and IB Biology. Cultures are grown in our San Diego, California lab and shipped live nationwide. Visit us to see cultures growing, pick up lab protocols, and talk through what works in a real classroom.

Alternative Fuels and Feedstocks Office: Bioenergy Research & Education Bridge (BRIDGES) Program

Booth #316
www.energy.gov/cmei/fuels/bioenergy-research-and-education-bridge-program

BRIDGES case studies translate real-world research in bioenergy into opportunities for students to develop technical and professional skills and provide opportunities for career exploration. Intended to be taught in various settings from high school to technical and community colleges to universities courses, the classroom case study materials within the BRIDGES Program are designed to encourage future careers in bioenergy for all students.

American Society of Plant Biologists

Booth #307
aspb.org

The American Society of Plant Biologists promotes the growth and development of plant biology, encourages and publishes research in plant biology, and provides vital supports for plant scientists. The Society actively works to increase awareness of the significance of plants, support educators, and increase student interest in STEM by promoting scholarly teaching, active learning, effective mentoring, and evidence-based public engagement.

Anatomage, Inc.

Booth #411
anatomage.com

Anatomage is a medical company, driving innovation through advanced solutions in hospitals and educational institutions. Our digital cadaver table, the Anatomage Table, allows a hands-on approach to learning the human body through unique visualization options, dissection tools, and quiz mode features, making it a strong asset to any anatomy class.

Animal Welfare Institute

Booth #314
awionline.org

Since 1951, the Animal Welfare Institute has been dedicated to alleviating animal suffering caused by people. We seek to improve the welfare of animals everywhere: in agriculture, in commerce, in our homes and communities, in research, and in the wild.

Animalearn

Booth #403
animalearn.org

Animalearn has worked to enhance life science education experiences by providing non-animal resources for K-12 classrooms and beyond. Animalearn's one-of-a-kind loan program, The Science Bank, is home to hundreds of innovative animal friendly humane science education products, including AR/VR technology and realistic hands-on models, that can be borrowed for FREE. The Science Bank also hosts a comprehensive listing of online dissection links for both animal and human anatomy. Stop by our booth and let us demonstrate how you can reinvent your biology labs and help us put the life back in life science.

Appleseed Expeditions

Booth #417
appleseedexpeditions.com

Appleseed Expeditions brings science to life through educational travel for middle school, high school, and college students. Our programs connect classroom learning with field experiences in marine biology, ecology, geology, and conservation. From investigating Yellowstone's predator–prey relationships to exploring coastal ecosystems, students observe wildlife, ask questions, and discover how natural systems interact. Each expedition combines science exploration, community service, and cultural experiences to inspire curiosity, strengthen scientific thinking, and encourage environmental stewardship.

NABT BioClub

Abington Heights High School, Clarks Summit, PA
Aiken County Career and Technology Center, Warrenville, SC
Arcadia High School, Phoenix, AZ
Archbishop Curley High School, Baltimore, MD
Arroyo High School, San Lorenzo, CA
Athens High School, Troy, MI
Athens High School, Athens, IL
The Barstow School, Kansas City, MO
Bethlehem High School, Bardstown, KY
Birmingham Community Charter High School, Lake Balboa, CA
Bishop Garcia Diego High School, Santa Barbara, CA
Brentwood Academy, Brentwood, TN
Butler Community College, El Dorado, KS
Cabarrus Kannapolis Early College High School, Concord, NC
Canadian Valley Technical Center, OK
Caney Valley High School, Ramona, OK
Cardinal Gibbons High School, Raleigh, NC
Carrboro High School, Carrboro, NC
Castle Park High School, Chula Vista, CA
Cedarcrest High School, Duvall, WA
Central Carolina Technical College, Sumter, SC
Central Falls High School, Central Falls, RI
Central Magnet School, Murfreesboro, TN
Chelan High School, Chelan, WA
Clayton High School, Clayton, MO
Coronado High School, Colorado Springs, CO
Cuyohoga Community College, Macedonia, OH
Darnell-Cookman School of the Medical Arts, Jacksonville, FL
Detroit Country Day Upper School, Beverly Hills, MI
DeVry Advantage Academy, Chicago, IL
Divine Savior Holy Angels High School, Milwaukee, WI
Dora R-III School, Dora, MO
Dougherty Valley High School, San Ramon, CA
El Centro College, Dallas, TX
Emmett High School, Emmett, ID
Fairhaven High School, Fairhaven, MA
Florence Freshman Center, Florence, AL
Florida SouthWestern State College, Naples, FL
Freedom High School, Freedom, WI
Frontier Regional School, S Deerfield, MA
Georgia State University Perimeter College, Decatur, GA
Gillette College, Gillette, WY
Golden High School, Golden, CO
Grandville High School, Grandville, MI
Greater New Bedford Regional Vocational Technical High School, New Bedford, MA
Greely High School, Cumberland Center ME
Greensburg Salem High School, Greensburg, PA
Hampton Roads Academy, Newport News, VA
Harmony School in Innovation, Katy, TX
Healdsburg High School, Healdsburg, CA
Hillsboro High School, Hillsboro, OR
Hilltop High School, Chula Vista, CA
Holt High School, Holt, MI
IEA Institute for Education Advancement, Pasadena, CA
Interboro High School, Prospect Park, PA
Julia R Masterman School, Philadelphia, PA
Kenmore West High School, Buffalo, NY
Kent County High School, Worton, MD
Kettle Run High School, Nokesville, VA
Kohler High School, Kohler, WI
Lake Metroparks, Concord, OH
Laurence Manning Academy, Manning, SC
Lexington High School, Mansfield, OH
Louisiana School for Math, Science and the Arts, Natchitoches, LA
Martin Luther College, New Ulm, MN
Mary Persons High School, Forsyth, GA
Marysville High School, Marysville, KS
Mason County High School, Maysville, KY
McDowell Intermediate High School, Erie, PA
Metropolitan Community College, Omaha, NE
Midland Park High School, Midland Park, NJ
Mid Michigan College, Harrison, MI
Minnetonka High School, Minnetonka, MN
Morganton, NC West Mifflin Area High School, West Mifflin, PA
Moscow High School, Moscow, ID
Mount Abraham Union High School, Bristol, VT
Nassau Community College, Garden City, NY
New Life Academy, Woodbury, MN
Northampton Area High School, Northampton, PA
Northwest Mississippi Community College, Oxford, MS
Olivet Nazarene University, Bourbonnais, IL
Oologah High School, Oologah, OK
Palm Tree School, Fairfax, VA
Perkins High School, Sandusky, OH
Pike High School Freshman Center, Indianapolis, IN
Pikeview High School, Princeton, WV
Pinecrest High School, Southern Pines, NC
Putnam City High School, Oklahoma City, OK
Riverside City College, Riverside, CA
Riverside High School, Leesburg, VA
S.U Eugenio María de Hostos, Garrochales, PR
Saint Ignatius High School, Cleveland, OH
Seabury Hall, Makawao, HI
Seneca East High School, Attica, OH
Sherando High School, Winchester, VA
Sibley East Middle and High School, Arlington, MN
Skyline High School, Sammamish, WA
Snow College, Ephraim, UT
Southeast Community College, Lincoln, NE
South Garner High School, Garner, NC
Southern Wells High School, Poneto, IN
St. Andrew's Episcopal School, Potomac, MD
St. Clair High School, St. Clair, MI
State Library of PA, Lykens, PA
Stillwater High School, Stillwater, OK
Stouffville District Secondary School, Whitchurch-Stouffville, ON, Canada
Sunlake High School, Land O'Lakes, FL
Taylor University, Upland, IN
The Governor's School at Innovation Park, Manassas, VA
The Summit County Day School, Cincinnati, OH
Terre Haute North Vigo High School, Terre Haute, IN
Tiffin Columbian High School, Tiffin, OH
Tremont Consolidated School, Bass Harbor, ME
Troy High School, Troy, MI
Unionville High School, Kennett Square, PA
University of Lynchburg, Lynchurg, VA
Vincennes University, Vincennes, IN
Walters State Community College, Rutledge, TN
Westdale Secondary School, Hamilton, Ontario
West Mifflin Area High School, West Mifflin, PA
Wheeling Park High School, Wheeling, WV
Wood River High School, Hailey, ID
Worthington Christian High School, Worthington, OH

CHAPTERS

The mission of the NABT BioClub is to recruit, support, nurture, and promote students who have an interest in biological sciences for personal reasons, academic preparation, the betterment of society, and possible career opportunities by providing guidance, resources, and activities to meet these goals.

Look for the BioClub logo to indicate recommended articles for NABT BioClub members. If you are interested in forming a chapter of the NABT BioClub, contact NABT at office@nabt.org.

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BFW Publishers
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www.bfwpub.com

At BFW, we're proud to be the leading source for AP® and on-level materials—and to inspire what's possible for every student. With BFW, you'll find what you need for class today: classroom tools that work, extensive support for teachers, media that adds value to your classes, and the support you need when you need it. Our industry-leading books and media are grounded in learning science and shaped by real classroom experience, designed for the way today's learners think, grow, and engage.

Bio-Rad Laboratories
Booth #404
www.bio-rad.com/en-us/s/edu

Bio-Rad provides you with a completely supported life science education experience. Starting with the highest quality reagents, Bio-Rad provides peace of mind each time you spend your precious lab budget. We focus on providing teachers with the best resources possible so you can focus on what you do best – teach!

Biotility
Booth #405
biotility.research.ufl.edu/

Biotility at the University of Florida is dedicated to delivering high-quality credentialing and professional development for the biotech industry. Our primary objective is to prepare the next generation of workforce talent and enhance the skills of existing employees in the bioscience sector.

BIOZONE
Booth #306
www.biozone.com

BIOZONE specializes in the production of high quality student instructional materials and teacher resources for high school sciences (grades 9-12) both print and digital media. The soul of BIOZONE - our goal is to improve science education performance in schools worldwide. We support teachers in their daily challenges of teaching and help make students not only succeed in the classroom, but in their future. Coming from a teaching background, Richard Allan founded BIOZONE International, in 1988. Richard and his team of ex-teachers have developed a suite of unique resources that meet the needs of teachers and students worldwide.

Carolina Science
Booth #204
www.carolina.com

Carolina Science is a worldwide leader in science education, providing top-quality, innovative science and math materials for educators. Carolina serves the K-16 market with everything needed to equip science laboratories and classrooms. Products, kits and free teacher resources are available at carolina.com.

Codon Learning
Booth #107
codonlearning.com

Codon Learning is an NSF-funded courseware platform designed to replace the traditional college biology textbook. We build customized, high-structure courses grounded in evidence-based teaching and learning strategies like self-testing, spaced practice, and metacognition, not content overload and memorization.

Our team of biology educators, researchers, and experienced higher-ed content and technology professionals would love to partner with you on your general biology or genetics course. Please stop by our booth to learn more.

EDVOTEK, Inc.
Booth #301
www.edvotek.com

EDVOTEK is the leading supplier of safe, affordable, and easy-to-use biotechnology kits and equipment designed for higher education. Our product line includes research-grade instruments for PCR, electrophoresis, and other core molecular biology applications. Built for high schools and teaching labs, our kits & equipment support rigorous academic standards while remaining accessible and cost-effective. We empower high schools, colleges and universities to deliver hands-on experiences that bridge the gap between classroom learning and real-world science. Whether for instruction or introductory research, our products help prepare students for study and careers in the life sciences by making cutting-edge biotechnology approachable and practical.

Flinn Scientific
Booth #207
FlinnSci.com

Flinn is a trusted STEM partner to schools and districts, bringing nearly 50 years of experience supporting effective classroom instruction. We deliver integrated solutions - combining hands-on materials, curriculum-aligned resources, and operational support - designed to meet the evolving needs of today's educators. Our approach prioritizes simplicity, consistency, and impact, helping teachers reduce preparation time, maintain safe classrooms, and drive meaningful student engagement. With deep expertise in the education market, Flinn supports both individual educators and system-level leaders with practical, results-oriented solutions, helping schools create engaging learning environments while optimizing time, resources, and performance across the classroom.

Indiana University College of Arts and Sciences
Booth #312
college.indiana.edu

Discover the Natural Sciences at Indiana University!

Learn what the IU College of Arts and Sciences offers your students. Explore undergraduate programs across the natural and mathematical sciences, including biology, chemistry, neuroscience, human biology, molecular life sciences, animal behavior, physics, and more. Discover how IU students combine rigorous academics with hands-on research, experiential learning, and career preparation. Stop by to learn more about opportunities available to future IU students and how you can help your students explore the College as they consider what comes next after high school.





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Meet Us at Booth #214

Join our Ambassadors' sessions

From Story to Science: Using Indigenous Knowledge & Modeling to Teach Nitrogen Cycling
THU 10/29 at 1:15 PM - Reunion B

One Film, Three Classrooms: Three Ways Teachers Used "Corals on the Brink" to Inspire Scientific Thinking & Engage Students
FRI 10/30 at 4:00 PM - Reunion C

Precision Under Pressure Poster: Teaching CRISPR Through Scientific Decision-Making
SAT 10/31 from 8-10 AM - Reunion Tower

Beyond the Classroom: Using Films, Hands-On Learning & Community Engagement to Foster Student Belonging and Agency
SAT 10/31 at 8:45 AM - Cumberland B/C

LabXchange
Booth #305
labxchange.org

LabXchange is a global STEMM classroom, open to every curious mind. Created at Harvard University with support from the Amgen Foundation, LabXchange is a platform, a community, and a library of 34,000+ FREE interactive learning resources. We aim to expand access to high-quality digital learning experiences, and give learners and educators everywhere the tools to chart their journeys in science. All resources are freely available and accessible with or without an account.

MetroLaser Inc
Booth #216
www.metrolaserinc.com

MetroLaser scientists develop and deliver state-of-the-art optical & laser diagnostic instruments for a broad range of applications in aerospace, defense, structural mechanics, noise and vibration.

Midwestern Journal of Undergraduate Sciences
Booth #303
journals.ku.edu/MJUSc

The MJUSc is an accessible publication for undergraduate capstone, honors, and independent research projects of all kinds. We work with mentors to facilitate student publication using a Lite Peer Review designed for students who are unable to return for more experimental work and who need constructive feedback to promote a lifetime of scientific publication.

MiniOne Systems
Booth #315
theminione.com/

Molecular Biology Anywhere and for Everyone! MiniOne® Systems makes hands-on biotechnology accessible with compact, affordable, classroom-safe equipment and inquiry-based MiniLabs designed specifically for biology education. Our game-changing Electrophoresis and PCR Systems help teachers bring real-world molecular biology techniques into the classroom with less prep, faster results, and greater student engagement. From classroom labs to at-home learning or fieldwork, MiniOne empowers students to do real science, ask meaningful questions, and see results in real time.

miniPCR bio
Booth #400
www.minipcr.com

Our biology and biotech equipment, along with our hands-on lab activities, are bringing cutting-edge molecular biology to classrooms, laboratories, and even outer space! We're a team of molecular biologists, engineers, designers, and educators united by one mission: making science accessible to everyone, everywhere.

MIT Edgerton Center
Booth #215
edgerton.mit.edu/DNA-proteins-sets

Thanks to the MIT Superfund Research Program's sponsorship, MIT presents three biology sets (Protein, DNA/RNA, and tRNA) created by the MIT Edgerton Center, providing hands-on learning experiences for abstract concepts. Unlike most models, the sets are designed to teach molecular processes, not just molecular structure. The models are made to be manipulated, so learners can perform cellular functions with their own hands. Curriculum progresses from beginner through advanced levels, so these lessons are appropriate for middle school, high school, AP Biology, and adult learners. Diverse populations including multilingual learners have found the models an engaging way to learn difficult concepts.

National Anti-Vivisection Society
Booth #205
navs.org/

The National Anti-Vivisection Society (NAVS) was founded in 1929 to raise awareness and advocate for the elimination of animal testing. Our mission has expanded to include encouraging replacements for classroom dissections, supporting sanctuaries for animals formerly used in research, and empowering scientists to pursue innovation.

OpenStax, Rice University
Booth #203
openstax.org/k12

OpenStax is the world's largest publisher of open educational resources (OER) and an initiative of Rice University. With a mission to make an amazing education accessible for all, OpenStax provides affordable, high-quality, peer-reviewed learning materials and interactive learning technologies for high school and college courses. In addition to peer-reviewed textbooks available free online, OpenStax offers various evidence-based instructional resources for high school science teachers, including standards alignment materials, career explorer guides, and project-based learning resources. OpenStax is also the lead organization of the nation's seminal infrastructure for education research, SafeInsights. For more information, visit openstax.org/k12.

Savvas Learning Company
Booth #300
learning.savvas.com/NABT

At Savvas, we believe students learn science best by doing science. This commitment comes to life in the all-new Miller & Levine Experience Biology®, from renowned scientists and authors Ken Miller and Joe Levine. Their trusted scientific expertise, signature storytelling, and memorable visual learning combined with phenomena-driven investigations, hands-on and digital experiences, and practical teacher support help every student make sense of biology.

Science Communication Lab
Booth #214
scicommlab.org

The Science Communication Lab (SCL) is a nonprofit organization that partners with educators to transform science learning through immersive films, curriculum-ready multimedia resources, and active learning tools. By highlighting human stories behind scientific discovery, SCL makes complex concepts accessible and engaging. SCL works closely with educators to develop materials aligned with active learning and science standards to support teachers at every level and showcase the real-world relevance of science in the classroom. SCL aims to bridge the gap between science, education, and the public, empowering educators to inspire the next generation to see science as vital, inclusive, and impactful.

SimBio
Booth #101
SimBio.com

SimBio develops innovative teaching tools that help college biology students better understand challenging concepts. For 25 years, our hallmark has been the use of sophisticated, interactive simulations of biological systems that foster inquiry-driven learning and transform passive assignments into active investigations. Motivated by a mission to improve biology education, our modules are proven-effective through grant-funded education research and a commitment to extensive classroom-testing. SimBio's platform is intuitive, easy to set up, and provides immediate, reinforcing feedback to students. We make it simple to seamlessly integrate active learning into your curriculum – either to supplement or entirely replace your traditional textbook.

The Jackson Laboratory
Booth #302
www.jax.org

The Jackson Laboratory (JAX) is an independent, nonprofit biomedical research institution which aims to discover precise genomic solutions for disease and empower biomedical researchers to improve human health. JAX Genomic Education develops NGSS-aligned lessons, activities, and hands-on laboratory protocols for teaching and learning about genetics and genomics. Our Teaching the Genome Generation™ professional development program provides teachers with the content knowledge, teaching strategies, and resources needed to implement molecular genetics labs, bioinformatics activities, and bioethics lessons that effectively engage students.

Uncommon Productions
Booth #304
www.uncommonproductions.com

Uncommon Productions creates inspiring documentaries and educational resources for science classrooms. Explore our award-winning films Cracking the Code: Phil Sharp and the Biotech Revolution, Jim Allison: Breakthrough, The Last Mountain, and A Life Among Whales. All films are free for educators and include accompanying activities. Discover stories of scientific perseverance to inspire your students and connect to STEM curricula. Swing by booth 304 to learn more and get a free gift while supplies last.

UniVirtual
Booth #415
www.univirtual.com

UniVirtual delivers immersive, interactive environments that enhance how college and AP Biology courses are taught and learned. Our platform connects students and instructors in real time to run experiments, take virtual field trips, and explore biology through hands-on, story-driven activities. Complex concepts become easier to grasp when students actively participate rather than just observe. Designed for simplicity and requiring no special hardware, UniVirtual makes it easy for educators to integrate virtual labs and explorations into their existing curriculum, sparking lasting excitement for biology in today's learners.

Vaccine Makers Project
Booth #200
VaccineMakers.org

The Vaccine Makers Project (VMP) is the classroom-based program of the Vaccine Education Center at Children's Hospital of Philadelphia. The Center was launched in October 2000 to provide accurate, comprehensive and up-to-date information about vaccines and the diseases they prevent. The VMP offers lessons and resources to educate students about how the immune system works, how diseases develop and how vaccines work to prevent them. The program also provides STEM career-related materials as well as tools to help students evaluate information and develop critical thinking skills.

Vernier Science Education
Booth #213
www.vernier.com

For more than 40 years, Vernier Science Education has committed our experience, knowledge, and passion to create the best and most reliable solutions for STEM education. Our comprehensive solutions include hardware, software, content, assessment, professional development, and technical support. At the heart of Vernier is our deep commitment to being an authentic and trusted partner to STEM educators. Our mission is to partner with educators and communities to build a STEM-literate society where students grow up to become knowledgeable citizens who can solve problems, fully contribute to their communities, and drive innovation. For more information, visit www.vernier.com.

Ward's Science
Booth #201
www.wardsci.com/us/en/

Ward's Science has supported science educators since 1862, providing high-quality materials, innovative tools, and reliable classroom support for hands-on learning. Based in Rochester, New York, we help teachers inspire curiosity and deepen scientific understanding across Biology, Chemistry, Earth & Space Science, Physics, STEM, and specialized disciplines. From everyday essentials to complete lab solutions, Ward's Science is the trusted partner educators rely on to turn science lessons into meaningful science connections.



NABT
National Association of Biology Teachers

Nominate a teacher for a **2027 NABT award.**

Submit your nomination online before March 15th

https://nabt.org/Awards-NABT-Award-Nomination-Form

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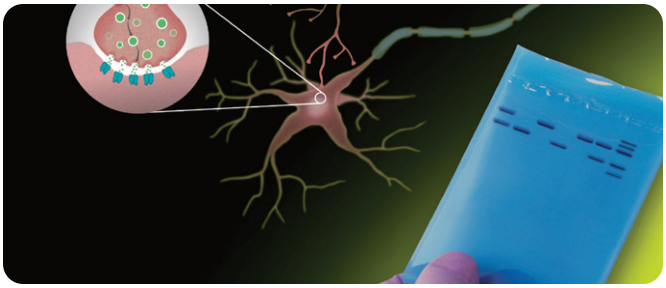
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NABT is committed to providing a safe, productive, and welcoming environment for all program participants and NABT staff. All participants, including, but not limited to, attendees, speakers, volunteers, exhibitors, NABT staff, service providers, and others are expected to abide by this Meeting Safety & Responsibility Policy.

This Policy applies to all NABT meeting-related events —both in-person and online—and includes those events sponsored by organizations other than NABT but held in conjunction with NABT events, in public or private facilities.

Personal Safety and Security

NABT works diligently to provide a safe and secure environment at its meetings and events by working with venue staff to make sure participants are safe. We ask that all attendees report any questionable or concerning activity to NABT staff so that they can take immediate action. No concern is too small, so if you see something, say something.

- Be aware of your surroundings at all times.
- Use the buddy system when walking to and from the event venue and networking event locations during early or late hours.
- Don't wear your meeting badge on the street. Take it off as soon as you leave the building/venue.
- Don't carry a lot of cash or credit cards. Leave them in your hotel room safe.
- Don't leave personal property unattended anywhere, anytime.

If there is an emergency or if you need immediate assistance, do not delay in asking any NABT staff member or the on-site security personnel to help you.

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NABT understands that there is inherent risk in participating in any activity, and we do our best to reduce those risks as much as possible. NABT will adopt measures to mitigate risks based on available guidance from the World Health Organization, Centers for Disease Control, and other public health experts. We appreciate your full compliance with those protocols to help reduce viral transmission.

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