



BIOTECH IN ACTION GLOBAL

The image shows a virtual meeting interface with a grid of participants and two interactive lab simulation windows. The central part of the grid is a blue banner with the text "where science meets humanity™".

Participants shown in the grid include:

- Momolue
- Gabby
- Kezia
- Glennis
- Chenyang
- Valerie
- Michael
- Elliot
- Stephanie
- Amanda
- Georgia
- Rithika
- Hana
- Gavriela
- Alazar
- Alejandra

Two interactive lab simulation windows are visible:

- The top-left window shows a lab bench with a biohazard bin, a spray bottle, and a sample vial. Text overlays include "You picked up Antibody" and "Contains: Unhealthy colon sample". A progress bar at the bottom indicates "PROGRESS: 64%".
- The bottom-right window shows a lab bench with a titration setup, including a burette and a flask. Text overlay includes "Contains: 4% Boric Acid Indicator Solution". A progress bar at the bottom indicates "PROGRESS: 46%".

A state-of-the-art, virtual program inspiring and empowering a new generation of young scientists

Who are we?



BIOGEN COMMUNITY LAB

Our mission is to ignite and foster student interest in science and increase awareness in biotechnology-related careers through virtual science experiences and interactions with scientists and biotech professionals.

LEMELSON-MIT

LEMELSON-MIT PROGRAM

Our mission is to inspire young people to pursue creative lives and careers through invention, and to support their development as inventors and creative problem solvers through invention education opportunities.

What is this program?

Our two groups have teamed up to bring you “Biotech In Action: Global”, a program designed to be used **worldwide** to reach students of all backgrounds. Together, we have created a **state-of-the-art, virtual program to allow us to inspire and empower a new generation of young scientists!** Designed to foster a passion for science, the program is committed to ensuring a diverse participant group and providing students with the opportunity to meet and interact with Biogen and MIT employees and get an inside view of a biotech company and university. **The program is available at no cost to students and educators around the globe.**

What are we offering?

Designed for students and educators alike, the program offers seminars and classroom visits in four subject areas (see below). There is also a speaker series seminar that both students and educators can attend.

The content and delivery of this program is designed to be easy and flexible so that you can choose the format that works best for you and your students. Our content is developed for students age 12-18. Please read below for information about the program's offerings.

A man in a dark shirt is pointing at several large medical scans, likely MRI or CT scans, displayed on a wall. The scans show various internal structures in shades of blue and yellow.

A

BIOTECHNOLOGY AND ALZHEIMER'S

This presentation will explore what it means to be a biotechnology company. It will provide students with an in-depth view of how Biogen utilizes the field of biotechnology. We will discuss the of making medicines to treat neurodegenerative disorders such as Alzheimer's, one of Biogen's main focuses.

A close-up shot of a person wearing blue nitrile gloves. They are holding a small, clear glass vial with a white cap, and another gloved hand is positioned to receive it. The background is slightly blurred, showing a white lab coat.

B

CAREERS IN BIOTECH

This presentation will dive into the different career fields that make up a successful biotechnology company. When people think of a company like Biogen, it is all too easy to think only of the scientists, but there are also many diverse careers that make the company successful. During this presentation, you will get a chance to learn about all of these different careers.

A person wearing a white shirt and a helmet is riding a bicycle on a paved road. The background shows a fence and some trees.

C

HEALTHY CLIMATE, HEALTHY LIVES

This presentation will explore climate change and how it is connected with human health. We will discuss what climate change is, its impact on human health, and what we can do in our communities to protect ourselves from the impact on our health. Students will be provided an opportunity to ask questions about their own climate change concerns and speak with employees who are passionate about making the world a better place.

A person is shown from the back, looking at a large, abstract digital display. The display features various glowing green and blue arrows and lines, suggesting a complex data visualization or a futuristic interface.

D

INVENTION IN BIOTECH

In this presentation, students will get the opportunity to learn about the ways scientists and others at companies like Biogen and at universities like MIT use science and technology to help people across the globe. We will explore ways students and professionals in the biotechnology industry come to understand the problems people face in their daily lives and develop technological solutions that are new and novel, useful and unique (i.e., an invention!). Practical advice will be provided regarding how you can get on the pathway to invention!

Sign up for the various sessions below

1

Virtual CLASSROOM VISIT with an Instructor For classrooms that speak ENGLISH

Educators will sign up for a time and topic and one of our instructors will join the classroom virtually. We will give an hour-long lesson on one of the following topics. Students will get the chance to participate and engage in the presentation.

[A](#)[B](#)[C](#)[D](#)

CLASSROOM VISITS

[Sign up here!](#)

2

Virtual Saturday STUDENT Seminars Presented in English and live TRANSLATED IN SPANISH & PORTUGUESE

For students who would like to learn in Spanish or Portuguese, or who would like to learn outside of the classroom, we will also be teaching our four presentations listed above on the four Saturdays listed below.

[A](#)

BIOTECHNOLOGY AND ALZHEIMER'S

March 6th | 12:00–1:00 PM EST

[Sign up here!](#)

[B](#)

CAREERS IN BIOTECH

March 27th | 12:00–1:00 PM EST

[Sign up here!](#)

[C](#)

HEALTHY CLIMATE, HEALTHY LIVES

April 24nd | 12:00–1:00 PM EST

[Sign up here!](#)

[D](#)

INVENTION IN BIOTECH

May 1th | 12:00–1:00 PM EST

[Sign up here!](#)

3

Virtual EDUCATOR Seminar

Presented in English and live TRANSLATED IN SPANISH & PORTUGUESE

For educators who would prefer to teach these modules in the students' native language, we are offering seminars to train educators on all four presentations. In this hour-long seminar, you will learn how we teach each of the modules and be given all the materials you need to teach them in English, Spanish, or Portuguese.

A	B	C	D	March 10 th 9:00–10:00 AM EST	Sign up here!
A	B	C	D	April 6 th 4:00–5:00 PM EST	Sign up here!
A	B	C	D	April 22 nd 9:00–10:00 AM EST	Sign up here!
A	B	C	D	May 5 th 3:00–4:00 PM EST	Sign up here!

4

OFFICE HOURS

Presented in ENGLISH

If any of the students or educators who participate in the above programs have additional questions, we will also have staffed office hours. You can join in to chat with one of our instructors about any of our modules. Click here to join our Zoom office during the following times:

STUDENTS

Sunday, March 7 | 1:00–2:00 PM EST
Tuesday, March 16 | 7:00–8:00 PM EST
Monday, March 22 | 6:00–7:00 PM EST
Saturday, March 27 | 5:00–6:00 PM EST

[Join Zoom Room!](#)

EDUCATORS

Thursday, March 11 | 7:00–8:00 PM EST
Saturday, March 13 | 12:00–1:00 PM EST
Thursday, March 18 | 7:00–8:00 PM EST
Sunday, March 28 | 3:00–4:00 PM EST

[Join Zoom Room!](#)

More dates and times will be added each month.



where
science
meets **humanity**TM



Ongoing speaker SERIES Seminar
Presented in ENGLISH

We also have an ongoing virtual speaker series of targeted to middle and high school students focused on innovation and biotechnology. Examples of topics include: Women in Science, Innovation in Science, Why Being Different Makes Science Better, etc. The seminars occur the third Wednesday of each month from 4-5 PM EST. These events are open to all. Please see our website for videos of past events and to register for future ones.

SPEAKER SERIES SEMINAR

Sign up here!

For any questions please contact: rtpcommunitylab@biogen.com