Teaching Biomedical Science? We can help.
Engage your students — infuse health-related biotechnology into your curriculum

Use Bio-Rad Explorer educational kits and activities to build current, engaging, and relevant lesson plans for Biology, Health Science, and Biomedical Pathway courses.

Visit [bio-rad.com/flier/biomedicalscience](http://bio-rad.com/flier/biomedicalscience) to learn more about these and other kits that have ties to biomedical science.

- **Teach about opioid dependence**  
  Students investigate the environmental and genetic links to opioid dependence as they design a human genetic research study with the Science of Opioid Dependence Kit.

- **Do real CRISPR gene editing**  
  Using the Out of the Blue CRISPR Kit, students do real CRISPR gene editing in bacteria and explore the use of this technology to fix the CFTR gene in humans. A powerful capstone activity!

- **Explore Koch’s postulates**  
  How do we know bacteria are the cause of a particular disease state, and not the result? Walk your students through Koch’s postulates with our Microbes and Health Kit.

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**Addiction**  
Addictions are often the result of a complex interplay between environment and genetics.

**Cystic Fibrosis**  
A mutation in both copies of the CFTR gene results in this complex, recessive disease.

**Bacterial Infections**  
Bacterial infections can cause myriad illnesses, such as strep throat, gastric ulcers, and syphilis.
Cancer
Historically, plants have been natural sources of chemotherapeutics, such as vincristine, etoposide, and paclitaxel (Taxol).

Viral Infections
Viral infections cause many common and serious illnesses, including the flu, AIDS, and COVID-19.

Diabetes
Diabetics may need insulin injections to manage blood glucose levels.

Other Genetic Diseases
A number of diseases, such as hemophilia, Huntington’s disease, and phenylketonuria, can be attributed to genetic mutations.

Bring a new drug to market
Take your students on a bioengineering adventure with the Secrets of the Rainforest Kit — start with the discovery of a plant with anti-cancer properties and go all the way to development, purification, and regulatory approval of a new therapeutic drug.

Examine antibody-based diagnostics
Use the ELISA Immuno Explorer Kit to teach students how the unique properties of antibodies are used for both antigen and antibody detection in the diagnosis of infections.

Engineer bacteria to glow green
Give students hands-on experience with genetic engineering — the technology used to produce insulin — with our pGLO Bacterial Transformation Kits.

Use PCR to diagnose disease
Demonstrate PCR-based DNA fingerprinting, a technique for genetic screening and disease diagnosis, with our PV92 Informatics Kit or Crime Scene Investigator Kit.
We’re your partner for successful biomedical science pathway courses

The Bio-Rad Explorer team can help you develop and run a cutting-edge program. *We make it easy with:*

- **Innovative classroom kits and activities** — our easy-to-use kits engage students with relevant activities supported by useful videos, presentations, case studies, and other learning resources
- **Support** — our experienced Curriculum Training Specialists can help you select the best activities, train you in new techniques, and point you to free resources to help ensure your success
- **Cost savings** — save time and money through personalized pricing and reliable products that are guaranteed to work
- **Industry-standard equipment and reagents** — students learn on the same instruments and with the same techniques used in research labs

Visit [bio-rad.com/ExplorerContactUs](http://bio-rad.com/ExplorerContactUs) to contact a specialist for a quote, talk with a Curriculum Training Specialist, or for more information.

“Bio-Rad educational products are far superior to anything from any other company. Bio-Rad products work — every single time.”
Help your students obtain industry-recognized certification

Give your students the resource to help them pass the BACE
The Biotechnician Assistant Credentialing Exam (BACE) certifies core skills for work in industrial or academic biotechnology labs.

Prepare your students with *Biotechnology: A Laboratory Skills Course*. Aligned with the BACE, this textbook covers core techniques and skills, as well as critical aspects of industrial safety and regulatory processes. The teacher supplement provides thorough background information, preparation instructions, and implementation guides.

Visit [bio-rad.com/flier/textbook](http://bio-rad.com/flier/textbook) for more details. Online version also available.
Teach through the lens of an ongoing, real-world context!

Bio-Rad offers hands-on kits, free resources, and lessons to help you teach the biology and detection of SARS-CoV-2, the virus that causes COVID-19.

Visit bio-rad.com/flier/teachcovid for more details.

Win an ELISA Immuno Explorer Kit

Scan the QR code to enter.

Visit bio-rad.com/flier/ELISA to enter to win a free ELISA Immuno Explorer Kit and for complete contest rules.

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