

Amgen Biotech Experience

Scientific Discovery for the Classroom

“We constantly have former students come back to tell us that they chose to major in science, biotech or related fields because of this experience.”

– Jim Mauch, High School Science Teacher



Quick Facts

- Each year, the program reaches more than 50,000 students and hundreds of teachers
- Program curriculum and tools are offered free of charge
- Reach of the program has been extraordinary, with more than 300,000 students participating to date
- Program participants have shown significant gains in all categories related to science: attitude, interest, confidence and knowledge, as well as interest in pursuing science
- Amgen Foundation has committed nearly \$8 million over the last 20 years
- Program is currently available in communities in California, Colorado, Massachusetts, Puerto Rico, Rhode Island, Washington, and the United Kingdom, and will launch in Washington, DC in 2014

Contact Us

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www.amgenbiotechexperience.com

The Amgen Biotech Experience is an innovative science education program that provides equipment, supplies, curriculum, and professional development to middle and high schools. The program integrates a hands-on, rigorous molecular biology curriculum designed to introduce the excitement of scientific discovery to students.

BIOTECHNOLOGY

Biotechnology has brought about the discovery and development of a new generation of human therapeutics. Advancements in both cellular and molecular biology have allowed scientists to identify and develop a host of new medicines for patients with serious illness. Biotechnology provides the tools and techniques for modern pharmaceutical research and drug development, and it is critical that future citizens are knowledgeable about this field.

PROGRAM BACKGROUND

The Amgen Biotech Experience (formerly Amgen-Bruce Wallace Biotechnology Lab Program) began 25 years ago through a unique collaboration of Amgen scientists and educators with a passion for sharing the joy of science and discovery. With the vision to bring the excitement of biotechnology to the fingertips of students, they developed a robust curriculum that has expanded into 10 regions across the U.S. and the U.K. In 2013, the Amgen Foundation joined forces with Education Development Center, Inc., a global nonprofit organization with deep experience and expertise in science education, to establish a Program Office to support and strengthen the program worldwide.

THE PROGRAM AND CURRICULUM

The ABE program integrates a curriculum that allows students to explore the steps involved in creating biotechnology therapies. Aligned with Next Generation Science Standards and the core biology curriculum, the program supports the larger goal of fostering scientific literacy. In addition to the curriculum and teacher professional development to understand the lab protocols and science, participating teachers receive a loaned kit, free of charge, with research-grade equipment and supplies that allow students to participate in advanced science laboratories.

THE LAB AND MATERIALS

The ABE labs parallel some of the important steps taken by the biotechnology industry to develop medicines to treat a variety of diseases. The labs incorporate core technologies used by scientists in the discovery of human therapeutics, so that students will better understand the role of biotechnology and the potential impact of this industry on our future. In addition, by engaging in this program, students may be more motivated to understand the underlying science concepts and perhaps even pursue careers in science.

ABOUT THE AMGEN FOUNDATION

The Amgen Foundation seeks to advance science education, improve patient access to quality care, and strengthen the communities where Amgen staff members live and work. Since 1991, the Foundation has donated more than \$200 million to nonprofit organizations across the United States, Puerto Rico, and Europe, whose efforts impact society in inspiring and innovative ways. The Foundation has also supported disaster relief efforts both domestically and internationally. To learn more about the Amgen Foundation, visit the Corporate Giving section of www.amgen.com.

ABOUT EDUCATION DEVELOPMENT CENTER, INC. (EDC)

EDC is a global nonprofit organization based outside Boston, Massachusetts. EDC's mission is to create learning opportunities for people around the world, empowering them to pursue healthier and more productive lives. EDC works with public-sector and private partners, harnessing the power of people and systems to improve education, health promotion and care, workforce preparation, communications technologies, and civic engagement. Learn more at www.edc.org.