



## **AMGEN® Biotech Experience**

**Scientific Discovery for the Classroom  
United Kingdom**

## **Welcome**

Usually at this time of the school year we are looking forward to welcoming you to the ABE summer term CPD programme. This year, instead, as we can't offer face to face sessions, we have scheduled two online opportunities for ABE teachers and technicians to meet. These will take place on Zoom, and we hope that by offering a choice of times, you will be able to join one of the meetings. To register for either Thursday 02 July at 4.00 pm or Tuesday 07 July at 2.00 pm, please go to the [Eventbrite listing](#).

We hope that the meetings will be a chance to:

- link with UK ABE teachers and technicians to share practice and ideas for the current situation;
- update about longer term ambitions for the UK ABE programme;
- suggest how the 2020-21 kit loan programme might best work for your school and what support and learning resources would be helpful.

We would be very pleased to learn about your hopes for the programme for the next school year, so that we can take account of these when planning. If you can't join one of the meetings, you are welcome to [send suggestions to us by email](#).

## **In search of teacher and student stories**

The ABE Program Office and the Amgen Foundation are looking to collect stories from past ABE students and past/current ABE teachers about how being involved with ABE has impacted their lives. These stories will be shared in newsletters to sites and teachers as well as in internal communications and possibly other outlets, especially during the official launch of the next three years of the ABE program.

Examples: Teachers might offer us a short vignette of a conversation with a student or a longer story about how they have watched their students grow in confidence as they gained the skills of real scientists through the program. They could also discuss how they or their class has benefited from the use of LabXchange or other ABE resources. Students could tell us how taking part in ABE helped them frame their coursework and career decisions after high school. Even if past students do not work in the biotech field, if ABE impacted them in any area, we'd love to hear about it.

[Teachers and students should submit their stories via this link](#)

## Useful resources

### LabXchange - How does a vaccine fight infection?

Check out the simulation [COVID Infection with and without Vaccination](#) (one of a number of simulations found on LabXchange that were developed by [BioDigital](#)), which shows how the SARS-CoV-2 virus binds to the ACE2 receptors in the respiratory tract to cause an infection. It also shows how antibodies both interfere with the binding process and how they enlist the immune system to destroy invading pathogens.

### New home learning packs from the Wellcome Genome campus

A series of packs that can be worked on at home or at school. Each pack has four activities with information and worksheets. The packs are in PDF format and can be viewed on most devices.

The [Genomics and Genes pack](#) is an introduction to the basics of DNA, genes and genomes and, some of the ethical issues associated with genome technology.

More packs are in development so keep an eye on the [yourgenome.org website](#).

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