

Gregory's Lizard Lost Its Tail: The Genes of the Regenerating Tail

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AMGEN® Biotech Experience

Scientific Discovery for the Classroom

The curriculum projects designed by the 2020–21 ABE Master Teacher Fellows are a compilation of curricula and materials that are aligned with the Amgen Biotech Experience (ABE) and prepare students further in their biotechnology education. These projects were created over the course of a 1-year Fellowship in an area of each Fellow’s own interest. Each is unique and can be adapted to fit the needs of your individual classroom. Objectives and goals are provided, along with expected outcomes. Projects can be used in conjunction with your current ABE curriculum or as an extension.

As a condition of the Fellowship, these classroom resources may be downloaded and used by other teachers for free. The projects are not edited or revised by the ABE Program Office (for content, clarity, or language) except to ensure safety protocols have been clearly included where appropriate. We are grateful to the ABE Master Teacher Fellows for sharing their work with the ABE community.

If you have questions about any of the curriculum pieces, please reach out to us at ABEInfo@edc.org. We will be happy to connect you with the author and provide any assistance needed.



GREGORY'S LIZARD LOST ITS TAIL

THE GENES OF THE REGENERATING TAIL

A VR virtual lab experience

This virtual lab is created with the program CoSpaces. To get access to the lab you may need to create a (free) Cospaces account on: <https://cospaces.io/edu/>

This CoSpace will run on any VR glasses that are supported by Cospaces. If you don't have VR glasses don't worry! It also runs on your computer desktop!

To access the course:

- 1) Log on to <https://cospaces.io/edu/>.
- 2) Click the "Log In" button in the upper right corner.
- 3) Click the orange "Enter a Share Code" at the bottom.
- 4) Fill in the code **YRW-LMP** to begin!

I would like to thank the Amgen Biotech Experience for the stipendium that I received. Because of this (and because of the support they gave) I was able to create this VR experience.

Have fun!

Help Gregory with his lizard research

Risk your life to collect lizard DNA in a jungle full of danger

Enjoy a ride inside an animal cell

Isolate DNA and perform a PCR reaction

Analyze your results

And learn a lot about modern molecular biology techniques

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