

“Now it’s your time”

If you are interested in entering this field of science than The Academy of Science, Research, and Medicine is the perfect place for you.

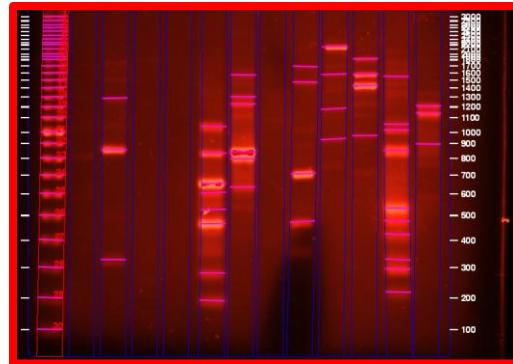
Who knows, maybe you will one day be a future scientist that discovers how to terraform planets, or find a cure for cancer, or even help create a new and efficient source of energy such as biofuel.

Will you be a part of The Academy of Science, Research, and Medicine?

Will you be the next student to enter our Biotechnology program?

Will you help us on the hunt for the hellbender or find the elusive water bear?

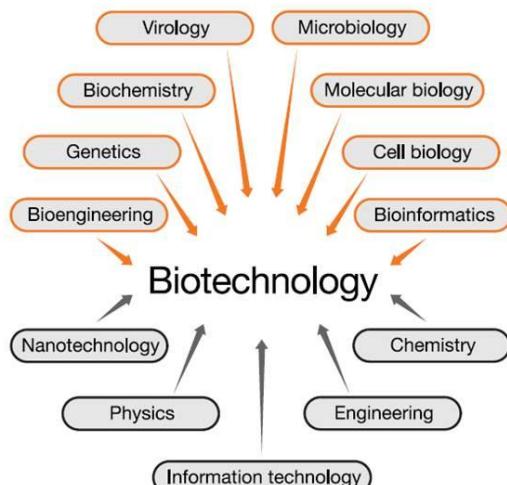
Will you join us on our quest for knowledge?



DNA Fingerprint of a bristle worm



Collecting tissue for DNA extraction



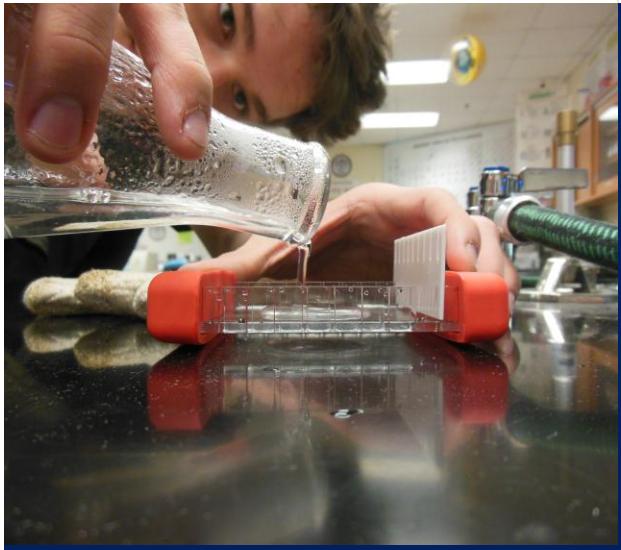
Academy of Science, Research, and Medicine

Biotechnology Pathway



This pathway is offered exclusively to students in the Academy program at Paulding County High School.

<http://www.pedersenscience.com/>



“Biotechnology is different. It is real science. During labs we are doing real research”.

- Taylor Cook (11th grade)

The Biotechnology Program

Often called the “Pride and Joy” of the Magnet Program, our Biotechnology program is a unique set of lab-based courses that is only offered to magnet students and is not available at other high schools.

This program is exclusively offered to magnet students which are given the opportunity to explore and experience the marvels of this new and rapidly expanding field of science. In this pathway students are applying concepts and being given authentic learning opportunities.

What do we do in this Program?

These are laboratory skills courses, so students in this pathway apply concepts in lab and conduct real research.

What is Biotechnology?

Biotechnology is the exploitation of biological processes for industrial and other purposes, especially the genetic manipulation of microorganisms for the production of antibiotic, hormones, and other human needs.

This field is a rapidly expanding field of science and is often seen as the field that holds the future of humanity. Through Biotechnology scientists are able to better understand and find a cure for cancer, modify food for production, help create mind controlling prosthetics. There are no limitations in this field.

Current Research

Currently students in our Biotechnology program are conducting experiments such as the genetic modification of organisms like *E. coli* HB101 and *Neurospora Crassa*. Other research includes our big Bristle Worm Clonality project, our environmental DNA (eDNA) collaboration with KSU and other projects conducted by students in the Independent Science Research class.

Courses Included in the Program

- Essentials of Biotechnology
- Applications of Biotechnology
- Biotechnology Honors Independent Science Research I

Contact Us

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“May the quest continue...”