



COURSE FACULTY

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COURSE COMPONENTS

- Introduction to basic biology
- Learn about different animal model, including zebrafish, axolotls, and nematode worms (*C. elegans*).
- Review concepts in DNA replication, transcription, and translation.
- Participate in DNA extraction, running gels, conducting PCR, and DNA sequencing.
- Use the BLAST tool to learn how to manage and analyze Big Data with an introduction to Bioinformatics.
- Learn proper handling of *C. elegans* and learn how to set up genetic crosses.
- Use CRISPR technology to edit genomes of *C. elegans*.
- Participate in roundtable discussions and group experimental design.
- Visit with scientists and bioentrepreneurs.

Biomedical Bootcamp

August 13-18, 2017

The MDI Biological Laboratory is pleased to present [Biomedical Bootcamp: Techniques for 21st Century Careers](#). This course is for high school students entering their junior or senior year of high school, or those who graduated in 2017.

The goal is to provide students with the skills they need to feel confident in making decisions about advanced courses and college majors in the biomedical sciences. Students will have the opportunity to learn the latest cutting-edge biomedical research skills from scientists at MDI Biological Laboratory. They will get to experience life on a biomedical research campus, touring animal rearing facilities, working in a state-of-the-art research training laboratory in our new Maine Center for Biomedical Innovation, and interacting with scientists who will share experiences on their paths toward biomedical careers.

MDI Biological Laboratory is located in Bar Harbor, Maine near Acadia National Park. Students will have the opportunity to get outside and explore the park and surrounding coastline after course work is complete each day.

More Information

Details on the course are available on the MDI Biological Laboratory [Biomedical Bootcamp](#) page. Applications are open, so apply now!

Inquiries

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