



# DNA LEARNING CENTER SUMMER CAMPS

Dolan DNA Learning Center  
Cold Spring Harbor, NY  
Regeneron DNA Learning Center  
Sleepy Hollow, NY  
DNALC NYC @ City Tech  
Brooklyn, NY  
Cold Spring Harbor Laboratory  
Cold Spring Harbor, NY

Sign up at <https://summercamps.dnalc.org>

Cold Spring Harbor Laboratory's DNA Learning Center (DNALC) is the world's first science center devoted entirely to genetics education. Over 23,000 students have participated in our camps. Guided by experienced instructors, students entering 6<sup>th</sup>–12<sup>th</sup> grades use sophisticated laboratory and computer equipment to perform experiments several grade levels ahead of their peers.

## Fun with DNA

(entering grades 6–7)

Build an understanding of cell biology, genetics, microbiology, and biotechnology through hands-on experiments.



## WiSE Fun with DNA

(girls entering grades 6–7)

Held on the CSHL campus with support from Women in Science & Engineering (WiSE), the camp is based upon *Fun with DNA* and is for girls only. Tour the campus and meet women in science to learn about research at the Lab.

## World of Enzymes

(entering grade 8, or Fun with DNA alumni entering grade 7)



Explore the use of enzymes in molecular biology and the food and health industries.

## Green Genes

(entering grade 9, or World of Enzymes alumni entering grade 8)

Perform the same recombinant DNA techniques used to manufacture human proteins such as insulin.



## Forensic Detectives

(entering grades 9–10)

CSI enthusiast? Experience forensics through a series of labs and activities in a more realistic fashion than portrayed on TV—it's not just DNA!



## DNA Science

(entering grades 10–12)

Perform experiments in molecular biology, culminating in the construction and cloning of recombinant DNA. Based on our *DNA Science* textbook.



## Being Human

(entering grades 10–12)

Connect the prehistoric world with modern human biology through anthropological labs that will get you up close and personal with your ancient ancestors.



## DNA Barcoding

(DNA Science alumni entering grades 10–12)

Use DNA barcoding in this project-based camp to survey the biodiversity of an ecosystem or uncover food fraud.



## BioCoding

(DNA Science alumni or comparable experience entering grades 11–12)

Get started in computer programming (coding) and bioinformatics, a growing field in managing and analyzing biological data. No coding experience required!

## Genome Science

(DNA Science alumni entering grades 11–12)

Use Nobel Prize-winning biochemical methods and bioinformatics tools to analyze the genetic components of living things.



## New for 2020!

### Sequence a Genome!

(DNA Science plus another advanced DNALC camp, entering grades 11–12)

Use bioinformatics and data science to assemble genome sequences and explore what DNA reveals about humans and other living things.