



# DNA LEARNING CENTER SUMMER CAMPS

Dolan DNA Learning Center

Cold Spring Harbor, NY

*DNA Learning Center NYC at City Tech*

Brooklyn, NY

NEW!

*DNA Learning Center* at Passaic County

Biotechnology Innovation Ctr, Wayne, NJ

*Regeneron DNA Learning Center*

Sleepy Hollow, NY



SUMMER CAMP  
WEBSITE

Cold Spring Harbor Laboratory's DNA Learning Center (DNALC) is the world's first science center devoted entirely to genetics education. Over 30,000 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 microscopy, modeling, and lab investigations.



## WiSE Fun with DNA

(entering grades 6–7; only in CSH)

In addition to standard *Fun with DNA* labs, meet Cold Spring Harbor Laboratory scientists to learn about research at CSHL and participate in special Women in Science & Engineering activities.

## 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!



## Forensic Crime Lab

(Entering grade 10 or *Forensic Detectives* alum entering grades 9; in CSH, NYC, Sleepy Hollow)

In this follow-up to *Forensic Detectives*, take a deep dive into the biological and chemical tools used to evaluate collected evidence.



## 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.



## DNA Barcoding

(entering grades 10–12)

Use molecular biology and bioinformatics techniques to obtain DNA barcodes, identify species and explore evolutionary relationships.



## BioCoding

(*DNA Science* alumni or comparable experience entering grades 11–12; in CSH & NYC)

Get started in computer programming 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.



## Sequence a Genome!

(*DNA Science* plus one other advanced DNALC camp, entering grades 11–12; only in CSH)

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



## STARS Program

(Entering grades 10–12; in CSH & NYC)

Science Technology & Research Scholars (STARS) is a 2-week research experience that supports the next generation of scientists, doctors, and other health professionals.

