

# MOLECULAR STEM CELL BIOLOGY

**Age:** 15-18

**Grade:** 9-12

**Duration:** Seven-days

**Date:** Jul 26th - Aug 3rd, 2021

**Location:** Torrance, California

\$1,540



## Gain a competitive advantage with sophisticated skills for college research and workplace internships!

Are you fascinated by genetic modification, protein engineering, or cell biology? The “Molecular Stem Cell Biology” program will teach you modern techniques for cloning and expressing engineered proteins in human stem cells. Restriction enzymes are old technology! We use the latest isothermal assembly and ligation independent methods you won’t learn in school or college!

## Learn essential molecular biology skills required by research labs across the biosciences industry.

### During this seven-day course you’ll:

- Utilize molecular biology software to design a gene amplification, cloning and expression strategy
- Clone a gene from human stem cells
- Engineer your cloned gene to create a fluorescent fusion protein
- Express and observe your engineered fusion protein in live human stem cells
- Explore the real-world applications of gene cloning and protein engineering in stem cell science

### Course Provides:

- A competitive edge
- Real world experience
- Biotech exposure
- Hands-on labs
- Scientific guest speakers
- Career education
- College preparation
- Experienced mentors
- Certificate of completion
- Alumni support

Molecular Stem Cell Biology uses hands-on labs and computational biology to prepare students with advanced skills for success in school, college and research internships.