

310.483.3651

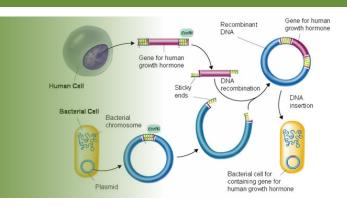
## STEM CELLS AND BIOTECHNOLOGY

**Age:** 11-15

2026 Dates: July 13th - 17th | August 3rd - 7th

**Duration:** Five Days; 9am – 3pm **Location:** Torrance, California

\$895



# Explore the fascinating science of biotechnology, genetic engineering and biomanufacturing

Stem Cells and Biotechnology offers an in-depth exploration of the science, practice, and commercial impact of agricultural and medical biotechnology. Participants work side by side with professional scientists in a real biotech research lab, gaining hands-on experience as they learn how living cells are harnessed to biomanufacture medicines and food.

### **Program Overview:**

#### Session 1 (Day 1-3): Biomanufacturing Human Insulin Using Recombinant E.coli

Session 1 focuses on the technical process cloning the human insulin gene and engineering bacteria to produce human insulin. Participants also complete a BioArt project - painting with fluorescent bacteria.

#### Session 2 (Day 4-5): Production of Lab Grown Meat from Mammalian Stem Cells

Session 2 focuses on the technical process of growing meat in the lab from cultured animal stem cells. Participants also learn about the regulatory bodies that oversee biomanufacturing (FDA and USDA).

#### **Course Provides:**

- Hands-on classes
- Advanced lab skills
- Science literacy
- Real-world experience
- Inquiry driven experiments

- Biotech exposure
- Fascinating science discussions
- Professional science mentors
- Certificate of completion
- Fun and friendships