

# METHODS IN STEM CELL ENGINEERING

**Age:** 15-18

**Grade:** 9-12

**Duration:** 4 x 3.5 hour sessions

**2023 Dates:** Dec 27th-30th

**Location:** Torrance, California

**\$495**



## Learn a Nobel Prize Technique for Genetically Modifying Cells By RNA interference

During “Methods in Stem Cell Engineering” participants learn how scientists study cancer causing genes in human stem cells by silencing their expression using RNA interference.

### Gain first-hand experience designing and implementing an RNAi gene silencing experiment:

**Session 1:** Introduction to Stem Cells and Gene Modulation (Bioinformatical Computer Lab)

**Session 2:** Working with Stem Cells in the Lab

**Session 3:** Planning and Implementing RNAi Experiments

**Session 4:** Analyzing RNAi Experiments

### Course Provides:

- Hands-on classes
- Advanced lab skills
- Bioinformatics / computer lab
- Real world experience
- Biotech exposure
- Experienced science mentors
- Career education
- College preparation
- Certificate of completion
- Alumni support

Methods in Stem Cell Engineering provides introductory training in stem cell biology, genetic engineering and essential lab skills.