

METHODS IN STEM CELL ENGINEERING

Age: 15-18

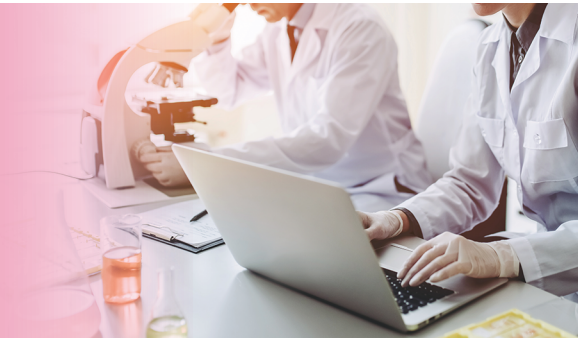
Grade: 9-12

Duration: Four Days; 10am-2pm

2025 Dates: Dec 27th-30th

Location: Torrance, California

\$550



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

Methods in Stem Cell Engineering demonstrates how scientists investigate cancer-causing genes in human stem cells by silencing their expression through RNA interference. This hands-on experience introduces cutting-edge genetic tools used to model disease and advance therapeutic research.

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

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

Session 2: Working with Stem Cells in the Lab | Mammalian Cell Culture Techniques

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.