

Building With Biology

Should We Edit the Genome: When, Why, and How Much?

Southern Connecticut State University

Jennings Hall and Academic Science & Laboratory Building

August 2, 2016

9:00 am – 3:00 pm

8:30 – 9:00

Sign in, Welcome | Christine Broadbridge

Pre-survey | Breakfast and Coffee

9:00 – 10:30

**Forum | Dr. Sarah Roe, Assistant Professor, SCSU Philosophy
Bryn Pinkerton, STEM-IL & Carol Jenkins, CRISP & STEM-IL**

Forum: Should We Edit the Genome? When, Why, and How Much?

10:30 – 11:15

NISE Building with Biology Hands-On Modules (in groups)

Bio Bistro, Kit of Parts, See DNA, Super Organisms, Tech Tokens, VirEx Delivery

11:15 – 11:30

Morning Report out

11:30 – 12:30

Networking Lunch

12:30 – 1:00

Presentation | iGEM Team

History & Overview of iGEM. SCSU 2016 Project.

1:00 – 2:30

**Presentation & Laboratory Tour | Dr. Nicholas Edgington, Associate
Professor, SCSU Biology**

History & Overview of Synthetic Biology, Description of HHMI SEA-PHAGES.
Academic Science & Laboratory Building Synthetic Biology Laboratory Tour

2:30 – 2:45

Afternoon Report out

Debrief workshop activities. Discuss Building with Biology classroom connections.

2:45 – 3:00

Closing remarks

Post-survey

Building With Biology

Should We Edit the Genome: When, Why, and How Much?

Learning Objectives

Building with Biology Project:

Synthetic biology is an area of scientific research focused on the possibility of redesigning, engineering, and constructing entirely new biological systems.

1. Synthetic Biology builds biological systems.
2. Synthetic Biology generates new tools and knowledge.
3. Synthetic Biology benefits from many voices.
4. Synthetic Biology is interconnected with society.

Forum:

Should We Edit the Genome? When, Why, and How Much?

1. All new technologies present inherent risks, opportunities, and benefits for different people.
2. Changing the genes of an organism has been possible for a long time, but new methods and technologies raise new societal and ethical questions.
3. Everyone has valuable perspectives and views to add to the conversation.