

Summer Science Institute

For Rising 10th-12th Graders

2023

Take part in hands on laboratory experience that covers molecular biology, immunology, clinical diagnostics, microbiology, biotechnology and much more!

Each program will be held, in person, in the CORD lab space on the UAB Campus



SSI-I

Fundamentals
of Cellular and
Molecular Biology
Two Sessions Offered:
June 5 - 9, 2023
June 12 - 16, 2023

SSI-II:

Advanced Principals
of Immunology,
Microbiology and
Biotechnology
Two Sessions Offered:
July 3 - 7, 2023
July 10 - 14, 2023



See the back for additional details and descriptions!

SSI-I: Fundamentals of Cellular and Molecular Biology

SSI will be a week-long course that will provide instruction covering the fundamentals of cellular and molecular biology and biotechnology using hands on laboratory techniques. SSI I will be open to students who have finished 9th, 10th and 11th grade. Research projects and experimentation include:

- ♦ Chemical methods to differentiate bacteria
- ♦ Identifying the genetic basis of brain disorders
- ♦ Extraction of genomic DNA
- ♦ Seminars and interactive discussions with UAB, federally funded research faculty
- ♦ Simulate drug discovery for flu prevention, COVID-19 and much more!

Two Sessions Offered:

June 5 - 9, 2023

June 12 - 16, 2023

Session Times: 8:00am to 3pm daily

Tuition Costs: \$200

SSI-II: Advanced Principles of Immunology, Microbiology and Biotechnology

SSI-II will be a week-long course that will dive into advanced principles and techniques of microbiology, immunology and biotechnology in a hands on laboratory experience. Research projects and experimentation include:

- ♦ Genetic bacterial transformation of plasmids
- ♦ Determine blood types with simulated samples
- ♦ Testing for viral antigens and disease diagnosis
- ♦ Seminars and interactive discussions with expert researchers
- ♦ A look into vision science and much more!

This course is open to students who have completed grades 10th and 11th and preferably have completed SSI-I (note: both SSI I and II can be taken in the same summer).

Two Sessions Offered:

July 3 - 7, 2023

July 10 - 14, 2023

Session Times: 8:00am to 3pm daily

Tuition Costs: \$250

**Applications can be found on our website at:
www.uab.edu/cord**



Contact Us:

Email: kjarrett@uab.edu

Phone: (205) 934-5171

