

2022 NSTA National Conference in Chicago

McCormick Place, Room W192c

EDVOTEK® Workshop Schedule

THURSDAY, 7/21/2022

8:20 - 9:20 AM

Tracing the Spread of COVID

Respiratory viruses like influenza or COVID can lead to worldwide pandemics. We'll discuss how diseases spread and perform experiments to explore how disease testing works.

9:40 - 10:40 AM

Teaching the Polymerase Chain Reaction in One Class Period

Want to learn today's top biotechnology techniques? Join us for a hands-on exploration of PCR and electrophoresis in one hour using the EdvoCycler™ Jr and the EDGE™!

1:00 - 2:00 PM

Left at the Scene of the Crime: High School Forensics

Forensic science combines disciplines to determine "whodunit." In this workshop, learn how to merge hands-on biotechnology experiments with literacy exercises to create an immersive lesson.

2:20 - 3:20 PM

Sweet Science: Exploring Complex Mixtures with Biotechnology

Explore the science of food coloring! In this hands-on workshop, we'll use electrophoresis and chromatography to separate mixtures of molecules based on their physical properties.

3:40 - 4:40 PM

Exploring the Genetics of Taste: SNP Analysis of the PTC Gene Using PCR

Explore the relationship between genotype and phenotype using your sense of taste and biotechnology! Examine variations in your bitter taste receptor with PCR and electrophoresis.

Visit us at Booth #711

FRIDAY, 7/22/2022

Friday, 7/22/2022

8:00 - 9:00 AM

Using Biotechnology to Diagnose HIV/AIDS

HIV is a sneaky virus. Once inside the body, it suppresses the immune system. Learn about testing, tracing, and treatment using a simulated diagnostic ELISA!

Friday, 7/22/2022

10:40 - 11:40 AM

Exploring STEAM with Transformation

Creating colorful transformed bacteria is an unforgettable way to teach the central dogma of molecular biology. Learn how to use transformed bacteria to create bio-art!

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