Ochsner Education Outreach is committed to developing a well-prepared and informed workforce pipeline for health sciences and positively impacting K-12 education outcomes.

**Request Programming**

Complete an App

EducationOutreach@ochsner.org

Ochsner.org/EducationOutreach

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**Educational Topics:** DNA, Genetics, Molecular Diagnostics

Students will use gel electrophoresis to test the Robinson family’s DNA for the sickle cell allele and give baby Marie Robinson a definitive diagnosis.

**Sickle Cell-Diagnosing Baby Marie**

**Educational Topics:** Central Dogma, Genetic Engineering, Gene Expression

Let’s explore the concept of DNA > RNA > Protein > Trait and the roles that external and internal factors play in gene regulation.

**pGLO Bacterial Transformation**

**Engineering Solutions for Global Health**

**Educational Topics:** Proteins, Undernutrition, Critical Thinking, Global Issues

Students will use an interactive engineering design approach to define a problem, create and test a prototype, and revise their solutions.

**Educational Topics:** Microbiology, Cellular Chemistry, Metabolism

Using microscopes, agar plates, and their powers of observation, students identify the bacteria used to produce yogurt.

**Microbes and Health**