

Examples of a complete and descriptive lay abstract:

*Example 1:* Inflammatory Bowel Disease (IBD) impacts ~80,000 US children with incidence rates rising from 2.4%-5.2% within the past decade. Little is known about the adaptive immune response to SARS-CoV-2 vaccines in pediatric IBD populations, and guidance to inform the number of vaccine doses is scarce. Jessica's project will involve measuring immune responses to the SARS CoV-2 vaccine and evaluating ethnic immunological diversity, hypothesizing that children with IBD will require 2-3 additional COVID-19 immunizations to reach immunological protection.

*Example 2:* Chloe's research project focuses on the discovery and study of natural plant molecules, called diterpenes, that have the ability to influence bacterial metabolism. Specifically, Chloe will investigate the role of these diterpenes in helping grasses adapt to environmental stress. One particular molecule of interest is brachialactone, which is secreted by Brachiaria grass and has been shown to inhibit bacterial processes in the soil around these plants. Chloe will work on understanding the mechanism of action of brachialactone using specialized assays. The ultimate goal is that this knowledge is used to develop more sustainable agricultural practices.