CURRENT RESEARCH AND SCHOLARLY INTERESTS

Plants provide some of the most important drugs in current clinical use. It can be challenging to chemically synthesize these drugs or sustainably source them from producer plants. These issues could be alleviated if their biosynthetic genes are engineered into heterologous organisms for large-scale production. I am interested in a) understanding how plants produce these valuable drugs and b) engineering the sustainable production of these drugs into other plants for large-scale production.

Publications

PUBLICATIONS

- A Pathogen-Responsive Gene Cluster for Highly Modified Fatty Acids in Tomato. *Cell*
  2020; 180 (1): 176–87.e19