

# Ensuring Plant Productivity



Joshua Gendron

Assistant Professor, Molecular, Cellular, and Developmental Biology

## CURRENT RESEARCH

### Solutions that combat rapid environmental fluctuations due to climate change

The environment is facing three grand challenges: increasing populations will need food, environmental changes will reduce crop productivity, and demands for renewable energy sources are steadily rising. These grand challenges are strongly connected to the ways in which sustainable practices for the cultivation of plants can help strengthen our global community. Dr. Joshua Gendron, Assistant Professor of Molecular, Cellular, and Developmental Biology at Yale University, is increasing our understanding of how plants respond to the environment in order to ensure plant productivity in environments that are rapidly changing due to global warming. His research program has the potential to address each of the three grand challenges directly while bridging collaborations with other plant scientists and the community.

While research on plants has traditionally been difficult because plants have many genes that can do the same thing, the technology that Dr. Gendron and his team have developed bypasses this challenge. His technology uniquely tackles longstanding challenges in plant research and will be implemented to study how plants respond to changing environments in addition to creating crop plants that are more robust to ensure food security. In addition to the rigor of his research, Dr. Gendron is interested making environmental science accessible to the community. Due to this passion, he runs an outreach program called the Green Cafe that provides access to plant science resources for local middle and high school students as well as the greater New Haven community. Therefore, Dr. Gendron is a remarkable example of science for the benefit of the community. While his research has roots in deeply technical and...

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## AFFILIATION



Yale University

## EDUCATION

- B.S., in Biology, 2004 . University of California, San Diego
- Ph.D., in Biological Sciences, 2006 . Stanford University

## RESEARCH AREAS

Environment, Clean Energy, Global Policy

## FUNDING REQUEST

Your contributions will support the continued research of Dr. Joshua Gendron, of Yale University, as he increases our understanding of how plants respond to the environment. Donations will fund the necessary \$250K/year required to support aspiring academics and other personnel, \$50K/year for resources, a one time cost of \$500K for equipment, and \$20K/year for the Green Cafe. Join in ensuring plant productivity in environments that are rapidly changing due to global warming; fund Dr. Gendron.

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