



## Position

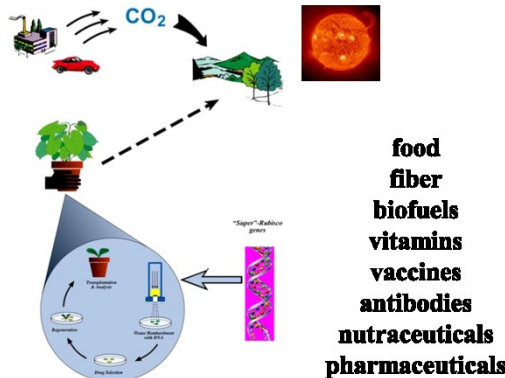
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## Research Interests

- ❖ Plant physiology and biochemistry
- ❖ Molecular biology and biotechnology
- ❖ Molecular ecology for FL Everglades
- ❖ Genetics of invasive plants

To name a single obsession?

- ❖ Carbon dioxide (CO<sub>2</sub>) or too much of it



# Scientific Pursuits

## Genetic engineering of photosynthesis

- To make plants' **Rubisco** more active so that more CO<sub>2</sub> can be sequestered and converted to biomass

## Plant biotechnology

- To make value-added plants that produce medicines or more nutrients, and more tolerate environmental stresses

## Cattail and Sawgrass (see pictures on right)

- To understand their genetic variation and mechanisms of how P triggers sawgrass replacement by cattail in FL Everglades

## Brazilian peppertree

- To investigate genetic mechanisms of how a beautiful plant becomes obnoxiously invasive in FL Everglades

