



Plants *by* Design

The application of synthetic biology to
enable the next generation of crops

9:00 am Welcome

Coffee and continental breakfast available starting at 8:30

9:10 am Provost's comments

9:20 am *Needlessly fast-turnover proteins as next-gen synbio targets*

Andrew Hanson, Eminent Scholar, University of Florida

10:10 am *Engineering plants that have electronic-like functions or ability to desalinate water*

June Medford, Professor, Colorado State University

11:00 am Break

11:30 am *Redesigning plant metabolism*

Patrick Shih, Plant Biology, UC Davis & The Joint BioEnergy Institute

12:00 noon *Building a synbio toolbox to monitor and control plant hormone activity*

Anna Stepanova, North Carolina State University

12:30 pm Lunch served in the museum lobby

The art galleries will be open over lunch, but no food or drink are allowed in them

2:00 pm *How biology will influence the future of plastics and the New Materials Institute*

Jason Locklin, Director of the New Materials Institute at UGA

2:30 pm *Unraveling the wall - unlocking the potential of plant-based bioproducts for a greener future*

Bree Urbanowicz, UGA Complex Carbohydrate Research Center

3:00 pm Break

3:30 pm *Engineering plant root structure using synthetic genetic regulation*

Jennifer Brophy, Carnegie Institution for Science

4:00 pm *Improving crop productivity through synthetic photorespiration metabolism*

Paul South, Biological Sciences, Louisiana State University

A special Joe L. Key Symposium hosted by the UGA Plant Center, the Center for Applied Genetic Technologies, & the OVAA



- **February 10, 2020 • Georgia Museum of Art Auditorium**
- **\$10 per person**
- **Register at** <https://tinyurl.com/Plants-By-Design>
- **Limited capacity to the first 200 persons**