School of Plant Sciences Seminar

Tuesday, Nov. 25 • 4pm • Marley 230 and Zoom*
Coffee, cookies, and collegiality: 3:30pm, Marley lobby

Chosen Obih
PhD Candidate, School of Plant Sciences

"Association mapping of drought-induced antioxidant responses reveals functional variation in *OsAAO2* as the key regulator of ascorbate redox state in rice"

Sponsored by the School of Plant Sciences • Hosted by Giovanni Melandri

*Please join us in person if you can.
Remote participation is also welcome:
https://arizona.zoom.us/j/86313228861
(passcode: SPLS2025)

Drought-induced stomata closure reduces water loss but also limits photosynthesis and increases photorespiration, promoting the generation of reactive oxygen species (ROS). Elevated ROS levels can damage proteins, lipids, and DNA, ultimately reducing plant productivity. To counteract ROS overproduction and oxidative damage, plants use a complex enzymatic and non-enzymatic antioxidative system. Join us to learn more from Chosen about genome-wide analysis of oxidative stress-related leaf biochemical traits in the context of a diversity panel of 271 rice (*Oryza sativa* subsp. *indica*) accessions exposed to drought stress at the reproductive stage.

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