

Seminar - Januray 24th, 2025 School of Plant Sciences Marley auditorium (Room 230) 11:00 am - noon (MST)

Genetic, Physiological, and Biochemical Identification of the CO<sub>2</sub> Sensor and Guard Cell CO<sub>2</sub> Signal Transduction Pathway that Controls Plant Transpiration

## Abstract

Stomatal apertures in plants regulate CO<sub>2</sub> intake for photosynthesis, while mediating over 90% of plant water loss via transpiration. Carbon dioxide is a regulator of stomatal pore apertures. The continuing rise in atmospheric CO<sub>2</sub> is causing reduced stomatal apertures. This seminar will present recent research at identifying the primary stomatal CO<sub>2</sub> sensor and CO<sub>2</sub> signal transduction mechanisms in guard cells.

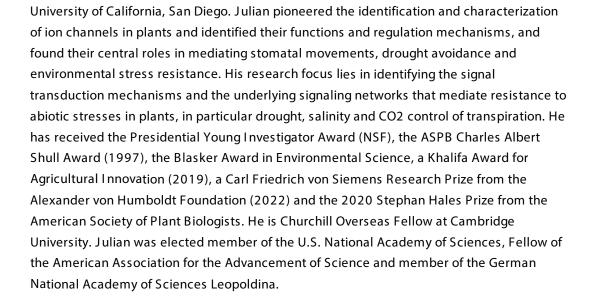
Julian Schroeder is Novartis Chair in Plant Sciences and Distinguished Professor at the

## About the speaker



Julian Schroeder UNIVERSITY OF CALIFORNIA, SAN DIEGO





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