

## 2019 PLANT SCIENCE SYMPOSIUM

Friday, September 6, 2019, Pfendler Hall Dean's Auditorium

**8:00** Continental breakfast, coffee, tea, water

**8:20** **Clint Chapple** | *Welcome*

**SESSION 1** **Plants & The Environment** | *Moderator: Gordon McNickle*

**8:30-9:00** **Scott McAdam** | *Surviving with incontinence: Anatomical protection against embolism formation in the earliest land plants*

**9:00-9:20** **Noel Mano** | *Stomatal development plasticity under water-deficit conditions: Molecular mechanisms and conservation across species*

**9:20-10:20** **Jeff Dukes** | *From the growth chamber to the globe: How our assumptions about plants influence projections of future climate*

**10:20-10:40** **Break**

**SESSION 2** **Cell Biology & Genetics** | *Moderator: Leonor Boavida*

**10:40-11:20** **Paula McSteen**, University of Missouri | *The CLAVATA pathway controls the formation of paired kernels in maize*

**11:20-11:50** **Damon Lisch** | *Rapid, heat-induced reactivation of silenced transposable elements in maize*

**11:50-12:10** **Rajdeep Khangura** | *Metabolism's revenge: Variation at subunit I of magnesium chelatase illuminates a role for chlorophyll in maize development and flowering*

**12:10-2:00** **Lunch on your own** (Purdue Union restaurants)

**SESSION 3** **Ecology & Evolution** | *Moderator: Joshua Widhalm*

**2:00-2:40** **Natalie Christian**, University of Illinois/Oregon State University | *Community ecology of the plant microbiome and its role in plant health*

**2:40-3:00** **Jennifer Wisecaver** | *Harnessing next-gen and third-gen sequencing technology to study algal diversity and metabolism*

**3:00-3:20** **Jianxin Ma** | *Rhizobial tRNA-derived small RNAs regulate legume nodulation*

**3:20** **Clint Chapple** | *Closing remarks*

*Plant Science and All-College networking gathering at Marriott Hall will take place after the symposium. Graduate students and post-docs will be presenting posters describing their work.*