



UC Davis Plant Sciences Symposium

Branching out: Plant Diversity from Genes to Ecosystems

Corteva Symposia Series

Website: plantsciencesymposium.ucdavis.edu



Fri, 12 Apr 2024



Walter A. Buehler Alumni Center

Morning

8:00 – 8:45

Registration, Coffee and Mingle

8:45 – 9:00

Event opening:
Symposium organizing committee
Jason Rauscher, Corteva Agriscience

9:00 – 9:45

Jennifer Barry, Corteva Agriscience
Plant derived insecticidal proteins for protection of crop plants

9:45 – 10:30

Danelle Seymour, University of California, Riverside
Mutations in citrus breeding and genomics

10:30 – 10:45

Break

10:45 – 11:30

Brandon Gaut, University of California, Irvine
Crop wild relatives, climate change and genomic diversity

11:30 – 11:45

Bethany Kolody, University of California, Berkeley
Genome-resolved insights into rice paddy methane dynamics

11:45 – 12:00

Alex Cantó-Pastor, University of California, Davis
The function and regulation apoplastic barriers in the tomato root via single cell transcriptomics and physiological analyses of mutants

12:00 – 1:00

Lunch

Afternoon

1:00 – 1:45

Whitney Brim-DeForest, University of California, Agriculture and Natural Resources
Participatory research: Lessons learned in California, USA, and Senegal, West Africa

1:45 – 2:00

Danielle Stevens, University of California, Davis
Unlocking plant-pathogen mysteries: How bacterial epitope variation drives prediction and dissection of outcomes

2:00 – 2:15

Chandler Sutherland, University of California, Berkeley
High intraspecies allelic diversity in Arabidopsis immune receptors is associated with distinct genomic and epigenomic features

2:15 – 2:30

Break

2:30 – 3:15

Todd P. Michael, The Salk Institute
Beyond the reference genome: reference-free plant pangenomes

3:15 – 4:00

Jarmila Pittermann, University of California, Santa Cruz
Drought adaptations in Sierra Nevada conifers: stasis and plasticity

4:00 – 4:15

Break

4:15 – 4:30

Luis Diaz Garcia, University of California, Davis
Foundations of a modern grape breeding program

4:30 – 4:45

Brian Bailey, University of California, Davis
Leveraging 3D biophysical models and machine learning to understand plant environmental interactions across scales

4:45 – 5:00

Christine Diepenbrock, University of California, Davis
Understanding natural variation in crop nutritional quality and abiotic stress tolerance

5:00 – 5:15

Tik-Talks: Scientific videos

5:15 – 7:00

Poster session

7:00

END

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