

# 2022 UC Davis Small Grains and Alfalfa/Forages Field Day

May 17<sup>th</sup>, 8:00 a.m. – 1:00 p.m.

(with tours of Small Grains Breeding plots to follow in the afternoon)

Department of Plant Sciences Field Facility, UC Davis

([2400 Hutchison Dr, Davis CA 95616](#), 38.5390, -121.7800)

CE Credits Offered (2.5 CCA, 2 INMP-CURES)

[REGISTER HERE](#) (no charge for event)

7:30 **Sign-in** (*refreshments available*)

8:00 **Welcome and Introductions** (John Palmer and Lauren Port, CCIA)

8:05 **Travel** on Wagons to Field

## Alfalfa/Forage/Biofuel Field Tour

8:20 **Breeding Alfalfa Varieties for Drought Tolerance and other Traits**—*Charlie Brummer and Matt Francis, UC Davis*

8:30 **Strategies for Coping with Drought in Alfalfa**--*Dan Putnam, UC Davis*

8:40 **Breeding Cool Season Grasses for Various Markets**—*Charlie Brummer, UC Davis*

8:50 **Switchgrass & Sorghum Field Trials**—*Bob Hutmacher, UC Davis and UC West Side Research and Extension Center, Five Points, CA*

9:00 **Novel Applications for Biofuels**—*Corinne Scown and Henrick Scheller, Joint Bioenergy Institute, Emeryville, CA*

9:10 **Producing Sorghum under Limited Water**—*Bob Hutmacher, UC Davis*

9:20 **Choosing Alfalfa Varieties for Pest Resistance and Yield.** *Dan Putnam, UC Davis*

9:30 **'Lightning Talks' on UC Forage Projects**

- **Utilizing Pre-Plant Treatments for Weed Management for Alfalfa Stand Establishment.** *Sarah Light, UCCE, Yuba City*
- **Options for Alfalfa Weevil and the Importance of Controlling Resistance.** *Ian Grettenberger, UC Davis*
- **Using Drones for Pest Management in Alfalfa**—*Rachael Long, UCCE, Woodland, CA*
- **Technologies for Improving Water Use Efficiency with Overhead Irrigation**—*Isaya Kisekka, UC Davis*
- **Using Compost on Alfalfa for Healthy Soils**—*Rad Schmidt, UC Davis*
- **Soil Quality Considerations During Drought**—*Michelle Leinfelder-Miles, UCCE, Stockton, CA*

10:00 **Depart for Grain Plots**

## Small Grains Agenda

10:15 **Updates from UC Davis Small Grains Breeding Program.** *Jorge Dubcovsky, Oswaldo Chicaiza, Josh Hegarty, Alicia del Blanco, Alison Brown*

10:30 **Quantifying environment and management impacts on yield differences between resistant starch (RS) and non-RS wheat varieties.** *Micah Levinson and Mark Lundy*

10:40 **Evaluating genotype x environment x management impacts on California malting barley quality.** *Maany Ramanan, Taylor Nelsen, Mark Lundy, Glen Fox, and Christine Diepenbrock*

10:50 **Bread quality and ecosystem sustainability implications for triticale use in milling applications.** *Santiago Tamagno, Claudia Carter, Cameron Pittelkow, George Fohner, Teng Vang, Josh Hegarty, Taylor Nelsen, and Mark Lundy*

11:00 **Assessing small grain forage productivity in diverse California environments.** *Mark Lundy, Micah Levinson, Taylor Nelsen, Michelle Leinfelder-Miles, Brian Marsh, Joshua Hegarty*

11:10 **Maximizing water productivity from winter cereal crops under water-limited conditions.** *Caitlin Peterson, Cameron Pittelkow, Mark Lundy*

11:20 **Demonstrating efficient N fertilizer management in CA small grains.** *Mark Lundy, Taylor Nelsen, Konrad Mathesius, Nicholas Clark, Sarah Light, Michelle Leinfelder-Miles, Giuliano Galdi, Thomas Getts, Joy Hollingsworth*

11:30 **Assessing DIY in-field plant tissue tests to determine N sufficiency in wheat.** *Leonardo Reynoso, Maya Shydrowski-Besmer, Taylor Nelsen, Salvador Grover, Mark Lundy*

11:40 **Controlling herbicide resistant Italian ryegrass in California small grains.** *Konrad Mathesius and Kevin Ross*

11:50 **Plot tours of small grain variety trials**

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12:00 **CCIA Sponsored LUNCH. Welcome and Introductions** (Gail Taylor, Chair, UC Davis Department of Plant Sciences; Claudia Carter, Executive Director, California Wheat Commission; Acknowledgement of Retirees)

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## 2022 Small Grains Breeding Programs Field Day

This year the Small Grains Breeding field day will be in the afternoon!

**May 17, 2022. Starting 1:30 -3:30.**

Departure from Agronomy Head Quarter after BBQ in personal cars to



<https://www.google.com/maps/place/38%C2%B032'02.3%22N+121%C2%B047'53.1%22W/@38.5325894,-121.797092,932m/data=!3m1!1e3!4m6!3m5!1s0x8085286321001fd5:0x4c7bb3cf8dc3caea!7e2!8m2!3d38.533983!4d-121.7980754>

### Afternoon Program

**1:40 – 2: 00.** Oswaldo Chicaiza. New wheat varieties.

**2:00 – 2:15.** Josh Hegarty. New Triticales for forage and human food.

**2:15 - 2:25.** Gizaw Wolde. Branched spikes.

**2:25 – 2:35.** Jorge Dubcovsky / Wenjun Zhang. Development of low allergenicity wheat.

**2:40 – 2:55.** Allison Brown. Barley for feed and forage.

Organic wheat breeding program.

**3:00 – 3:10.** Nicole Pretini. Malting barleys with reduced Glycosidic Nitrile (GN).

**3:10 – 3:30.** Alicia del Blanco. New malting barley varieties.

New oat varieties.

Free time to visit research plots and talk with breeders.