



CALIFORNIA LEAFY GREENS
RESEARCH PROGRAM

Annual Research Conference
The Cliffs Resort- Pismo Beach, CA
Tuesday, March 19, 2024

7 hours of C.E. Credit: DPR-0699-24

8:00 AM	Jennifer Clarke	Welcome
8:05 AM	Daniel Geisseler	Nitrogen Availability from Common Cereal Cover Crops Terminated at Different Growth Stages
8:20 AM	Arun Jani	Carbon Nanoparticle Addition to Fertilizers as a Strategy to Improve Lettuce Yields and Nitrogen Use Efficiency while Reducing Nitrate Leaching
8:35 AM	Ali Montazar	Using Sudangrass and Sorghum-Sudangrass Hybrids as Cover Crops Following Leafy Greens to Mitigate Water and Soil Related Issues in the Imperial Valley
8:50 AM	Micheal Cahn	Using Sudangrass and Sorghum-Sudangrass Hybrids as Cover Crops Following Leafy Greens to Mitigate Water and Soil Related Issues in the Salinas Valley
9:05 AM	Charlie Brummer	Breeding Baby Leaf Spinach for California Growers
9:20 AM	Renee Eriksen	Understanding the Molecular Mechanisms of Viral infection in Lettuce in Support of the USDA Lettuce Breeding Program
9:35 AM	Maeli Melotto	Screening Lettuce CRISPR Lines for Resistance Against Human Pathogens
9:50 AM	BREAK	
10:00 AM	Richard Michelmore	Analysis and Application of Genetic Variation in Lettuce and Breeding Crisphead, Romaine, and Leaf Lettuce
10:25 AM	Kelley Richardson	USDA Lettuce Breeding for Improved Resistance to INSV, Pythium, Verticillium, and Fusarium
10:40 AM	Krishna Subbarao	Verticillium Race Resistance Screen
10:55 AM	Gail Taylor	Improving the Post-Harvest Quality and Shelf-Life of Lettuce
11:10 AM	Daniel Hasegawa	Developing an Efficient, Topical Application of RNAi-Based Biopesticides for Managing Viruses in Lettuce, and Understanding Thrips Dispersal using Gut Content Analysis, Assessing Lettuce Transplants and Winter Weeds as Refuges of INSV Positive Thrips
11:40 AM	Jim Correll	Race Diversity and the Biology of the Spinach Downy Mildew Pathogen and Evaluation of INSV and Pythium Wilt (Pythium Uncinulatum) on Spinach
12:05 PM	LUNCH	
1:35 PM	Steve Klosterman	Downy Mildew Epidemiology and Control
1:50 PM	Nick Leblanc	Application of Soil Amendments for Improved Soil Health and Management of Fusarium Wilt of Lettuce
2:05 PM	Frank Martin	Development of a Molecular Diagnostic Assay for Pythium Uncinulatum and Development of a Molecular Assay for Fusarium Oxysporum F. Sp. Lactucae
2:20 PM	Alex Putman	Monitoring the Population of the Lettuce Fusarium Wilt Pathogen in California and Occurrence of the Disease with Pythium Wilt
2:35 PM	Steve Fennimore	Soil Disinfestation with Steam for Leafy Greens
2:50 PM	David Still	Selecting for Improved Water and Nitrogen Uptake by Focusing on Root Characteristics
3:05 PM	BREAK	
3:15 PM	Yu-Chen Wang	Assessment of INSV and Soilborne Diseases Outbreaks and Variety Evaluation for Tolerance to Pythium Wilt and INSV
3:40 PM	Bill Wintermantel	Characterizing the Accumulation of Impatiens Necrotic Spot Virus (INSV) in Lettuce Tissues
3:55 PM	Ian Grettenberger	Insecticide Resistance, Spray Coverage, and Monitoring: Management of Western Flower Thrips in Lettuce
4:10 PM	Kerry Mauck	Control of Thrips, Pythium, and Impatiens Necrotic Spot Virus using Plant Elicitors and Soil Amendments with Biological Control Activity
4:25 PM	Ivan Simko	Lettuce partial resistance to Impatiens Necrotic Spot Virus
4:35 PM	RECEPTION	

Thank you to the meeting sponsors:

Rijk Zwann, Enza Zaden, Bayer, Pinnacle Seed, Syngenta, BASF

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