



Cold Spring Harbor Laboratory
MEETINGS & COURSES PROGRAM

Frontiers & Techniques in Plant Science

July 1 – 21, 2022

Delbruck Laboratory

INSTRUCTORS:

Jose Dinneny
Niko Geldner
Julie Law

Stanford University, Palo Alto CA
University of Lausanne, Lausanne, Switzerland
Salk Institute for Biological Studies, La Jolla CA

ASSISTANTS:

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University of California Riverside, Riverside CA
Stanford University, Stanford CA
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PARTICIPANTS:

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Cold Spring Harbor Laboratory, Cold Spring Harbor NY
HHMI, Janelia Research Campus, Ashburn VA
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New York University, New York NY
Ruhr-University Bochum, Bochum, Germany
Danforth Plant Science Center, Saint Louis MO
Montana State University, Bozeman MT
University of Geneva, Geneva, Switzerland
Sant'Anna School of Advanced Studies, Pisa, Italy
University of Arizona, Tucson AZ
University of Washington, Seattle WA
Aarhus University, Aarhus C, Denmark
Emory University, Atlanta GA
Salk Institute for Biological Studies, La Jolla CA



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June 30 to July 20, 2022

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Friday, July 01, 2022

9:00 am	To Connect and To Seal Casparian Strips and Endodermal Function	<i>Niko Geldner</i>
1:00 pm	Stress Responses of Crops: A View from the Field	<i>Lisa Ainsworth</i>

Saturday, July 02, 2022

9:00 am	Plant Water Relations and Root Phenotyping	<i>Jose Dinneny</i>
1:00 pm	Group Discussion: Designing Outreach Activities that are Innovative, Integrative, and Inclusive	<i>Jose Dinneny</i>

Sunday, July 03, 2022

9:00 am	Introduction to Plant Structure and Function	<i>Neelima Sinha</i>
7:00 pm	Chemical and Genetic Dissection of Plant Hormone Pathways	<i>Sean Cutler</i>

Monday, July 04, 2022

9:00 am	Raising the BAR for Hypothesis Generation in Plant Biology Using Open Big Data	<i>Nick Provart</i>
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Tuesday, July 05, 2022

9:00 am	Engineering Plant Disease Resistance through Basic Research	<i>Xinnian Dong</i>
7:00 pm	Studying Plasmodesmata Intercellular Network by Electron Tomography	<i>Emmanuelle Bayer</i>

Wednesday, July 06, 2022

9:00 am	Waterwise Rice/Transcriptional Switches in the Phosphate Starvation Response	<i>Julia Bailey-Serres</i> <i>Roger Deal</i>
7:00 pm	Data Discussion	<i>Julia Bailey-Serres</i> <i>Roger Deal</i>



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Thursday, July 07, 2022

9:00 am	Computational Basics for Plant Biology	<i>Jason Williams</i>
7:00 pm	Gametophyte Interactions During Plant Reproduction	<i>Sharon Kessler</i>

Friday, July 08, 2022

9:00 am	Exodermis Differentiation and Function	<i>Siobhan Brady</i>
1:00 pm	Cytoscape Lab	<i>Siobhan Brady</i>
7:00 pm	Plant Epigenetics	<i>Rob Martienssen</i>

Saturday, July 09, 2022

9:00 am	How to Make Friends and Influence People When Publishing	<i>Chris Surridge</i>
7:00 pm	HD-ZIPIII Transcription Factor Are Controlled by Deeply Conserved START Domains	<i>Aman Husbands</i>

Sunday, July 10, 2022

7:00 pm	Chris Surridge Discussion	<i>Chris Surridge</i>
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Tuesday, July 12, 2022

9:00 am	Shoot Apical Meristem Development and Impacts on Crop Yields	<i>Dave Jackson</i>
7:00 pm	Evolution of Plant Development	<i>Liam Dolan</i>

Wednesday, July 13, 2022

9:00 am	Plant Photosensory Perception and Signaling	<i>Ullas Pedmale</i>
7:00 pm	Data Analysis	<i>Ullas Pedmale</i>

Thursday, July 14, 2022

7:00 pm	Chromatin, Epigenetics, and DNA Methylation	<i>Julie Law</i>
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Friday, July 15, 2022

7:00 pm	The Evolution and Development of Unisexual Flowers in the Grasses	<i>Madelaine Bartlett</i>
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Saturday, July 16, 2022

7:00 pm	Data Discussion	<i>Julie Law</i>
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Sunday, July 17, 2022

9:00 am	Engineering Features Outside the Reach of Evolution: An Overview of Plant Synthetic Biology	<i>Jennifer Brophy</i>
7:00 pm	Genome-enabled Breeding	<i>Robin Buell</i>

Monday, July 18, 2022

9:00 am	Editing the Plant Genome	<i>Dan Voytas</i>
7:00 pm	Data Discussion	<i>Dan Voytas</i>

Tuesday, July 19, 2022

9:00 am	Spatiotemporal Regulation of Hormone Patterns Influencing Plant Development	<i>Xander Jones</i>
7:00 pm	Data Discussion	<i>Xander Jones</i>

Wednesday, July 20, 2022

9:00 am	Single Cell Analysis: Soup to Nuts	<i>John Preall</i>
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