

**18th Symposium in Plant Biology
Biology of Chloroplasts and Mitochondria
October 21, 2023**

Program and Attendee List



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We are grateful for funding support from PPSystems and the UMass BTP program



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Biology of Chloroplasts & Mitochondria - Program

8:30 AM	ISB Atrium	Registration
9:00 AM	ISB Auditorium	Welcome Ana Caicedo, PB Program Leader
9:05 AM	ISB Auditorium	<i>Structural Insights into Plant Respiration</i> MARIA MALDONADO Department of Plant Biology, UC Davis (Introduced by Sibongile Mafu)
9:55 AM		Break
10:10 AM	ISB Auditorium	<i>Mechanisms of Mutation Rate Variation in Plant Mitochondria</i> DANIEL SLOAN Department of Biology, Colorado State University (Introduced by Michelle Facette)
11:00 AM	ISB Auditorium	<i>Understanding and Altering Chloroplast Photoprotection to Improve Crop Productivity</i> KRISHNA NIYOGI Department of Plant and Microbial Biology, UC Berkeley (Introduced by Michelle DaCosta)
12:00 - 2:00 PM	Campus Center, 11th floor	Lunch Poster set-up & poster preview
2:10 PM	ISB Auditorium	Welcome to afternoon session Alice Cheung, Biochemistry and Molecular Biology
2:20 PM	ISB Auditorium	<i>Cellular and Physiological Effects of Chloroplast/Mitochondrial Iron Export</i> JEEYON JEONG Department of Biology, Amherst College (Introduced by Alice Cheung)
3:10 PM	ISB Auditorium	<i>NORDIN LECTURE: Improving Photosynthesis Through Chloroplast Engineering</i> MAUREEN HANSON Department of Molecular Biology and Genetics, Cornell University (Introduced by Elizabeth Vierling)
4:00 - 6:00 PM	Campus Center, 11th floor	Reception and Poster Session

Please be kind to our planet and bring a reusable water bottle or cup. Water will be provided.

Last name	First name	Affiliation	Lab Supervisor	Poster
1 Abushal	Logayn	UMass Amherst, Plant Biology	Sam Hazen	<i>Role of hormone signaling in the regulation of root cell wall thickening</i>
2 Amundson	Kirk	University of California Davis, Plant Biology	Luca Comai	<i>Meristem layer-specific mutations of a potato periclinal chimera</i>
3 Bagdan	Kaylee	Skidmore College, Biology Department	David Domozych	<i>Examining Chloroplast Structure Under Biotic and Abiotic Stressors in the Green Alga, <i>Penium margaritaceum</i></i>
4 Boulanger	Shelby	UMass Amherst, Plant Biology	Samuel Hazen	<i>Genetic variation in <i>Brachypodium distachyon</i> influences growth-promoting response to <i>Fusarium oxysporum</i> Fo47</i>
5 Campilan	Joni Rey	UMass Amherst, Plant Biology	Li-Jun Ma	<i>Contribution of mitochondrial targeted proteins (MTPs) in the recent outbreak of <i>Fusarium</i> wilt of banana</i>
6 Chatterjee	Archita	UMass Amherst, Plant Biology	Madelaine Bartlett	<i>Understanding the Evolution and Development of Twisted and Geniculate Awns in Plants</i>
7 Chilufya	Jedaidah	UMass Amherst, Plant Biology	Dong Wang	<i>Using an Online Format to Increase Student Participation in Plant Biology Research</i>
8 Deneve	Amber	UMass Amherst, Plant Biology	Madelaine Bartlett	<i>Using computer vision to explore floral development and evolution in the <i>setaria ramosa</i>3 mutant</i>
9 Ertle	John	PP Systems		<i>Field assessments of A vs. Ci curves at a local Massachusetts farm: Differences in species and cultivar responses to far-red light</i>
10 Eshenour	Kathryn	Boyce Thompson Institute, Cornell University	David Stern	<i>Enhancing Maize Photosynthesis through Overexpression of Rubisco Assembly Factors and Subunits</i>
11 Fallon	Michael	Williams College Department of Biology	Cynthia Holland	<i>Functional characterization of grape methyltransferases in volatile synthesis</i>
12 French	Allen	UMass Amherst, Department of Microbiology	Ana Caicedo	<i>Isolating and Assessing Seed Endophytic Microbes from Weedy vs. Cultivated (<i>Oryza sativa</i>) Rice for their Potential Plant Growth Promoting Roles</i>
13 Gray	Antonia	UMass Amherst, Plant Biology	Michelle Facette	<i>A tale of two proteins: Analysis of a grass RLK and its co-orthologs in <i>Arabidopsis</i></i>
14 Gregory	Greg	UMass Amherst, Plant Biology	Sam Hazen	<i>Real-time imaging of CELLULOSE SYNTHASE A8 expression throughout daily environmental cycles and across development of <i>Brachypodium distachyon</i></i>
15 He	Qin	Rutgers University	Xingyun Qi	<i>EPFL8 inhibits stomatal formation during embryogenesis</i>



Dr. Maria Maldonado is an Assistant Professor in the Department of Plant Biology at UC Davis. Maria received her BA and MSc in Biochemistry at the University of Cambridge and moved to Rockefeller University for her PhD where she focused on chromosomal regulation in mammalian cells. After her PhD, she completed an MPhil with Bioscience Enterprise at the University of Cambridge, which focused on biotech commercialization, followed by an accomplished career in life science consulting and financial industries. In 2017 she undertook postdoctoral studies in mitochondrial respiratory complexes and super complexes of mung bean and *Tetrahymena* using biochemical and cryoEM approaches. In 2022 she transitioned into her faculty position at UC Davis where the Maldonado lab focuses on understanding the complex respiratory chains of photosynthetic organisms using structural biology, biophysical and biochemical approaches. Maria is a recipient of UC Davis Global Affairs Jump Start Award and a scholar for the Advancement of Multicultural Perspectives in Science.

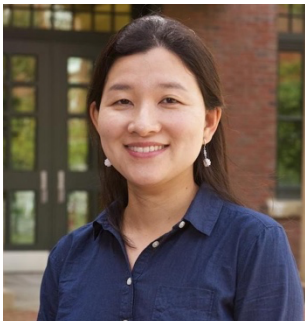


Dr. Dan Sloan is an Associate Professor in the Department of Biology at Colorado State University where he joined the faculty in 2019 after Ph.D. and postdoctoral studies at the University of Virginia and Yale. His research focuses on molecular evolution, especially with respect to mitochondrial and plastid genome evolution supported by funding from both the NSF and NIH. Dan leads a robust and diverse research program from mechanistic molecular studies to phylogenetic and ecological analyses, including investigations of cytonuclear interactions, mechanisms of mitochondrial mutation and DNA damage, and intercellular gene transfer. In addition to receiving national and international fellowships and scholarships during his career, as a faculty member, Dan has been recognized by awards for outstanding teaching and mentoring, including a Faculty Excellence in Undergraduate Mentoring Award (2017) and a Graduate Teaching and Mentoring Award (2023) from his department, as well as an Early Career Faculty Excellence in Teaching and Mentoring Award from the CSU College of Natural Sciences. CSU has also recognized his work with the Provost Award for Faculty Excellence. Dan has been serving as an Associate Editor for *Genome Biology and Evolution* since 2014.



Dr. Krishna K. Niyogi is a Distinguished Professor and HHMI Investigator in the Department of Plant and Microbial Biology at the University of California, Berkeley. Kris's research focuses on how photosynthetic energy conversion works, how it is regulated, and how it might be improved to help meet the world's needs for food, fuel, and carbon sequestration to fight climate change. He received a B.A. in biology from The Johns Hopkins University, an M.Phil. in biochemistry from the University of Cambridge, and a Ph.D. in biology from MIT. Kris is widely recognized for pioneering genetic analysis of nonphotochemical quenching (NPQ) mechanisms that regulate light harvesting in photosynthesis. Current areas of interest include the biosynthesis and function of photosynthetic pigments, assembly of photosynthetic reaction centers, structure and dynamics of the

photosynthetic membrane, mechanisms involved in sensing excess light, and regulation of photosynthetic light harvesting. By comparing photosynthesis in diverse organisms, they aim to uncover general design principles of photosynthesis as well as adaptations to different environments. Kris received a Presidential Early Career Award for Scientists and Engineers, a Searle Scholar Award, the Melvin Calvin Award from the International Society of Photosynthesis Research, and the Charles Albert Shull Award from the American Society of Plant Biologists (ASPB). He is a Fellow of ASPB and a member of the National Academy of Sciences.



Dr. Jeeyon Jeong is an Associate Professor in the Department of Biology and Program in Biochemistry and Biophysics at Amherst College. She studies iron transport in *Arabidopsis*. Jeeyon received her undergraduate and Masters degrees in Korea, studying heavy metal transporters. She received her Ph.D. training investigating iron transport in Mary Lou Guerino's laboratory at Dartmouth College. After postdoctoral work studying zinc transport in mammalian cells and yeast at the University of Wisconsin, Madison, Jeeyon joined the faculty at Amherst College in 2015 as an Assistant Professor and started her

research program to understand molecular mechanisms that regulate iron homeostasis in *Arabidopsis*. Jeeyon has mentored many undergraduates. Her lab recently discovered a dual-targeted mitochondrial/chloroplast iron exporter, Ferroportin 3, that is necessary for iron homeostasis, and she is continuing to investigate the physiological importance of this protein. Staple crops are not rich in iron, and by understanding how iron is regulated in plants, Jeeyon's goal is to contribute to developing strategies to improve plant growth, crop yields, and human nutrition.



Dr. Maureen Hanson is the Liberty Hyde Bailey Professor in the Department of Molecular Biology and Genetics at Cornell University. She completed her B.S. at Duke and Ph.D. and postdoc at Harvard. Maureen is known for her research on the nuclear and organelle control of gene expression in plant mitochondria and chloroplasts. Her discoveries include identification of a mitochondrial gene that specifies cytoplasmic male sterility and nuclear gene that restores fertility, recognizing dynamic plastid extensions that she named stromules, and many aspects of RNA editing in plant organelles. Current research encompasses both plant biology and biomedical research on the disease Myalgic Encephalomyelitis or Chronic Fatigue Syndrome

(ME/CFS). In plant biology, the lab continues efforts to understand the composition and function of the RNA editosome in chloroplasts and mitochondria and is also working to improve the efficiency of photosynthesis through engineering of the carbon-fixing enzyme Rubisco and synthesis of a chloroplast microcompartment based on cyanobacterial carboxysomes. In ME/CFS research, the work is directed toward understanding the molecular basis of symptom generation and development of a diagnostic test that will permit early identification of disease victims. Maureen is a Fellow of the American Society for Plant Biology and recipient of the Lawrence Bogorad Award for Excellence in Plant Biology from the ASPB. She is a Fellow of the American Association for the Advancement of Science, and a Member of the American Academy of Arts and Sciences and of the National Academy of Sciences.

16 Henderson	Riley	Cornell University - Plant Biology - BTI	David Stern	<i>Expanding Zea Mays photosynthetic capabilities by engineering enzymes that can limit C4 photosynthesis at extreme temperatures</i>
17 Hendrickson	Hannah	UMass Amherst, Plant Biology	Sibongile Mafu /Elsbeth Walker	<i>Natural Products for Legume Defense: Investigating Terpene Metabolism in Medicago truncatula</i>
18 Hendrickson	Rachel	Amherst College Biology	Jeeyon Jeong	<i>Cytosolic Flux and Iron Homeostasis in Arabidopsis thaliana</i>
19 Holland	Cynthia	Williams College Department of Biology	Cynthia Holland	<i>Biochemical investigation of the tryptophan biosynthetic enzyme anthranilate phosphoribosyltransferase in plants</i>
20 Islam	Monirul	UMass Amherst, Biochemistry and Molecular Biology	Sibongile Mafu	<i>Characterization of a Putative Biosynthetic Gene Cluster Involved in Pathogen Stress Response in Medicago truncatula</i>
21 Khahani	Bahman	UMass Amherst, Plant Biology	Sam Hazen	<i>Unraveling the Regulatory Mechanisms of KNOTTED OF BRACHYPODIUM 7 in Modulating Cell Wall Synthesis</i>
22 Kurihara	Taiki	UMass Amherst, Biochemistry and Molecular Biology	Sibongile Mafu	<i>Exploring the promiscuity of cytochromes P450 against terpene substrates in Medicago truncatula</i>
23 Labbe	Elizabeth	University of Massachusetts Amherst	Ana Caicedo	<i>Uncovering the Genetic Basis of Seed Shattering Re-evolution in Weedy Rice (Oryza sativa)</i>
24 Li	Daniel	UMass MCB	Li-Jun Ma	<i>Investigation of Potential CFEM Proteins that Contribute to host recognition in Fusarium oxysporum 47</i>
25 Lin	Haofeng	Department of Biochemistry and Molecular Biology	Huanzhong Wang	<i>Class I (CI) Small Heat Shock Proteins (sHSPs)</i>
26 Liu	Le	UMass Amherst, Plant Biology	Michelle Facette	<i>Stomatal closure in maize is mediated by subsidiary cells and the PAN2 receptor</i>
27 LoRicco	Josephine	Skidmore College	David Domozych	<i>Serial Array Tomography: Modelling Subcellular Structures in the Streptophyte Green Alga, Penium margaritaceum</i>
28 Macero	Claire	Amherst College, Program in Biochemistry and Biophysics	Jeeyon Jeong	<i>IRT1 dynamics in the fpn3 mutant: iron uptake and transport in Arabidopsis thaliana</i>

29 Matheson	Jessica	Michigan State University & UMass Amherst	Luan Cutti (MSU) Ana Caicedo (UMass)	<i>Validation of the International Weed Genomics Consortium Annotation Pipeline Using Two Model Species</i>
30 Meagher	Erika	Boston University Department of Biology	John Celenza	<i>Tissue specific and environmental regulation of glucosinolate biosynthesis in Arabidopsis</i>
31 Murphy	Cecelia	UMass Amherst, Biochemistry and Molecular Biology	Li-Jun Ma	<i>Unique Expansion of PARP Family Proteins in the Fusarium oxysporum species complex</i>
32 Newman	Madison	UMass Amherst BMB / OEB	Li-Jun Ma	<i>Investigating plant response to endophytic vs. pathogenic strains of Fusarium oxysporum</i>
33 Palakurthy	Sanjay	University of Connecticut, Dept. of Plant Science & Landscape Architecture	Huanzhong Wang	<i>Exploring the Function of a Gene in Secondary Growth</i>
34 Rashidzade	Maryam	UMass Amherst, Plant Biology	Ana Caicedo	<i>The effect of SGA variation in wild tomatoes in defense against fungal species</i>
35 Roberts	Alison	University of Rhode Island, Biological Sciences	Alison Roberts	<i>Functional analysis of Cellulose Synthase-like D (CSLD) in moss lines lacking Cellulose Synthase (CESA)</i>
36 Su	Justin	Amherst College, Department of Biology	Jeeyon Jeong	<i>The Effect of Chromatin Remodeling on the Iron Deficiency Response</i>
37 Tavares	Rachel	UMass Amherst, Plant Biology	Ana Caicedo	<i>Identifying the endophytic root microbial community composition of weedy vs. cultivated rice (Oryza sativa) varieties</i>
38 Thapa Chhetri	Gaurav	University of Connecticut	Huanzhong Wang	<i>A C2H2 zinc finger transcription repressor promotes vascular bundle formation in Arabidopsis stem</i>
39 Treffon	Patrick	University of Massachusetts Amherst	Elizabeth Vierling	<i>Organomercury-based capture of S-nitrosated proteins links protein quality control to fertility defects</i>
40 Vierling	Elizabeth	UMass BMB	Elizabeth Vierling	<i>Functional Studies of Essential Mitochondrial ATPases (ATAD3s) & a Program for STEM Career Development</i>

41 Watson	Aracely	Williams College Biology	Cynthia Holland	<i>Molecular Evolution of Substrate Specificity in Citrus Methyltransferases</i>
42 Wu, Cerkezi	Siyuan, Harun	UMass Amherst, Biochemistry and Molecular Biology	Li-Jun Ma	<i>Developing an Innovative Antifungal Drug Delivery System to Fight Fusarium Infection in Humans</i>
43 Yang	Hailong	University of Massachusetts Amherst	Madelaine Bartlett	<i>The cis-regulatory evolution of GRASSY TILLER1 (GT1) over deep time</i>
44 Yi	Jing	UMass Amherst, Plant Biology	Alice Cheung	<i>FERONIA regulates thermomorphogenesis in Arabidopsis</i>

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UMASS AMHERST GENERAL LOCATION CAMPUS MAP

BUILDING INDEX

Agricultural Engineering Bldgs.	B3	KKG - Kappa Kappa Gamma	C5	Moore	B5
Agricultural Learning Center	C1	KS - Kappa Sigma	C2	Morrill Science Center	C3
Alfond	C4	PSK - Phi Sigma Kappa	D4	Mullins Center	A3
Apiary Building	D4	PKA - Pi Kappa Alpha	D5	Mullins Practice Rink	A3
Army ROTC Bldg.	B5	PKP - Pi Kappa Phi	C5	Munson	C4
Arnold	C2	SDT - Sigma Delta Tau	D5	New Africa	D4
Astronomy Bldg.	B2	SK - Sigma Kappa	D5	Newman Center	D4
Athletic Fields	A4	TC - Theta Chi	D4	North Residential Area	C1, C2
Auxiliary Services Warehouse	A2	French	D3	North Village Apartments	C1
Baker	D3	Furcolo	C1	Northeast Residential Area	C2
Bartlett	C4	Garber Field	B4	Oak	B4
Berkshire	B5	George N. Parks Marching Band Bldg	B3-4	Observatory	D2
Berkshire Dining	B5	Goessmann	C3	Old Chapel	C4
Birch	B4	Goodell	B4	Olver Design Bldg.	D4
Blaisdell	B3	Gordon	D5	Orchard Hill Residential Area	E3
Bowditch Greenhouses	B3	Gorman	D4	Paige	B2
Bowditch Hall	B3	Grayson	E3	Parking Garage	B3
Bowditch Lodge	A6	Greenough	E3	Parking Office	A3
Bowker Auditorium (Stockbridge)	B3	Grinnell Arena	B3	Patterson	C6
Boyden Gym	B4	Gunness Engineering	B2	Photo Laboratory	B3
Brett	D3	Hadley Equestrian Farm	A5	Physical Plant	B3
Brooks	D3	Haigis Mall	C4	Physical Sciences Bldg.	C2
Brown	D1	Hamlin	C2	Pierpont	B6
Butterfield	E4	Hampden Dining	B5	Police	E1
Campus Center	C3	Hampshire	C5	Prince	B5
Campus Center Parking Garage	B3	Hampshire Dining	B5	PVTA Bus Garage	B2
Campus Pond	C3, C4	Hasbrouck	C3	Recreation Center	B4
Cance	B6	Hatch	B3	Renaissance Center	E1
Cashin	D1	Health Center	D3	Residence Hall Security (Dickinson)	B4
Central Heating Plant	A3	Herter	C4	Robotics	B2
Central Residential Area	D3	Hicks Physical Education	C4	Robsham Visitors Center	C5
Central Stores (Physical Plant)	B3	Hillel House	D5	Rudd Field (Soccer)	A5
Chabad House	C5	Holdsworth	B3	Shade Tree Laboratory	D3
Chadbourne	E4	Hotel	C3	Skinner	C3
Champions Center	B4	Integrated Science Building	C3	Sortino Softball Complex	A5
Chancellor's House	D3	Integrative Learning Center	C3	South College	B3
Chenoweth	B3	International Programs	D4	Southwest Residential Area	B5
Clark	D4	Intermed. Processing Fac. (IPF)	E1	Stockbridge	B3
Cold Storage Bldg.	B3	Isenberg School of Management	C4	Student Union	C3
Comm. Hon. College Residential		James	B5	Studio Arts Building	D4
Community	B4	John Adams	B5	Sycamore	B4
Communication Disorders	D5	John Q. Adams	B5	Sylvan Residential Area	D2
Computer Science Bldg.	B2	Johnson	C2	Telecommunications Office	B6
Conte Polymer Research Center	C2	Kennedy	B5	Tennis Courts	A4
Coolidge	B5	Knowles	B3	Textbook Annex	B3
Crabtree	C2	Knowlton	C2	Thatcher	D2
Crampton	B5	Leach	C2	Thompson	B3
Crotty Hall	D5	Lederle Graduate Research Ctr.	C2	Thoreau	B5
Dickinson Hall	B4	Lewis	D2	Tillson Farm	E1
Dickinson House	D3	Library, W.E.B. Du Bois	C3	Tobin	B4
Draper	C3	Life Science Lab	C-D3	Toddler House	A6
Du Bois Library, W.E.B.	C3	Lincoln Apartments	C5	Totman	C2
Duda	B2	Lincoln Campus Center	C3	Track & Field	A5
Durfee Conservatory & Garden	D3	Linden	B4	Transit Facility	B2
Dwight	C2	Lorden Field (Baseball)	A3	UMass Police Department	E1
East Experiment Station	C3	Lyon	C2	University Club	D3
Elm	B4	Machmer	B3	University Extension	B6
Emerson	B5	MacKimmie	B5	University Health Center	D3
Engineering Laboratory	B2	Mahar Auditorium	C4	University Press (E. Exp. Station)	C3
Engineering Laboratory 2	B2	Maple	B4	University Without Walls	A5
Farley Lodge	A6	Marcus	C2	Van Meter	E3
Fernald	D4	Marston	B2	Visitors Center	C5
Field	E3	Martin Jacobson Football		Washington	B6
Fine Arts Center	C4	Performance Center	A6	Webster	E3
Flint Laboratory	B3	Mather	E2	West Experiment Station	C2
Forest & Parks Buildings	A2	McGuirk Alumni Stadium	A6	Wheeler	D4
Franklin Dining	D4	McNamara	D1	Whitmore Administration Bldg.	C4
Fraternities & Sororities		Melville	B5	Wilder	D3
ATG - Alpha Tau Gamma	C6	Memorial Hall	C4	Worcester Dining	C2
CO - Chi Omega	E2	Middlesex	C4	Wysocki House	C1
IGU - Iota Gamma Upsilon	D5	Montague House	C1		

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