



**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 Genucuate 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 ramosa3</i> 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>

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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