The Role of 14-3-3 Dimerization in Client Interactions
Tufan Gokirmak\textsuperscript{1}, Beth J. Laughner\textsuperscript{2}, Anna-Lisa Paul\textsuperscript{2}, Robert J. Ferl\textsuperscript{1,2}
\textsuperscript{1}Department of Horticultural Sciences, Genetics Institute, University of Florida, Gainesville, FL
\textsuperscript{2}Plant Molecular and Cellular Biology Program, University of Florida, Gainesville, FL

The Role of the \textit{Mini-me} and \textit{Grass} Genes of Maize in Establishing Grass Architecture
Sharon Tan\textsuperscript{1,2}, Karen Koch\textsuperscript{1,2,3}, Don McCarty\textsuperscript{1,2,3}, Wilfred Vermerris\textsuperscript{1,2,4}
\textsuperscript{1}Plant Molecular and Cellular Biology Program, University of Florida, Gainesville, FL
\textsuperscript{2}University of Florida Genetics Institute, University of Florida, Gainesville, FL
\textsuperscript{3}Horticultural Sciences Department, University of Florida, Gainesville, FL
\textsuperscript{4}Agronomy Department, University of Florida, Gainesville, FL

Detection of Candidate Genes for Resistance to Pitch Canker (\textit{Fusarium circinatum}) in Loblolly Pine (\textit{Pinus taeda} L.) Using Association Studies on Two Pine Populations
Tania Quesada\textsuperscript{1,2}, Dudley Huber\textsuperscript{2}, John M. Davis\textsuperscript{1,2,3}
\textsuperscript{1}Graduate Program in Plant Molecular and Cellular Biology, University of Florida, PO Box 110690, Gainesville, FL 32611, USA
\textsuperscript{2}School of Forest Resources and Conservation, University of Florida, PO Box 110410, Gainesville, FL 32611, USA
\textsuperscript{3}Genetics Institute, University of Florida, PO Box 103610, Gainesville, FL 32610-3610, USA

Relative Contributions of Crown and Phenological Traits to Growth of a Pseudo-Backcross Family ((\textit{slash x loblolly} x \textit{slash}) and the Open-Pollinated Families of Its Pure Species Progenitors
Patricio R. Munoz\textsuperscript{1}, Dudley A. Huber\textsuperscript{2} and Tim A. Martin\textsuperscript{2}
\textsuperscript{1}Plant Molecular and Cellular Biology Program, University of Florida, Gainesville, FL
\textsuperscript{2}School of Forest Resources and Conservation, University of Florida, Gainesville, FL

Genomic Analysis of the Fusiform Rust Pathogen \textit{Cronartium quercuum} f.sp. \textit{fusiforme}
Katherine E. Smith\textsuperscript{1,2}, Thomas L. Kubisiak\textsuperscript{2}, Jason A. Smith\textsuperscript{1}, C. Dana Nelson\textsuperscript{2} and John M. Davis\textsuperscript{1}
\textsuperscript{1}School of Forest Resources and Conservation, University of Florida, Gainesville, FL
\textsuperscript{2}Southern Institute of Forest Genetics, U.S. Forest Service, Southern Research Station, Saucier, MS

Efficient Mapping from Maize Public Mutagenesis Populations Using Distributed Simple Sequence Repeat (SSR) Markers
Federico Martin\textsuperscript{1}, Gertraud Spielbauer\textsuperscript{1}, Sarah Dailey\textsuperscript{1} and A. Mark Settles\textsuperscript{1}
\textsuperscript{1}Horticultural Sciences Department and Plant Molecular & Cellular Biology Program, University of Florida, Gainesville, FL 32611-0690

Arsenite Induced Oxidative Stress in \textit{Arabidopsis thaliana}: Role of Ethylene Signaling
Aparna Krishnamurthy\textsuperscript{1}, Shuan Teo\textsuperscript{1} and Bala Rathinasabapathi\textsuperscript{1}
\textsuperscript{1}Horticultural Sciences Department, University of Florida, Gainesville, FL 32611
Expression of the Maize Cellulose Synthase (CesA) Gene Family at the Cell-, Protoplast-, and Tissue- Levels
Brent A. O’Brien¹, Wayne T. Avigne¹, Donald R. McCarty¹, Karen E. Koch¹
¹Plant Molecular and Cellular Biology Program, University of Florida, Gainesville, FL

Functional Characterization of Arabidopsis Isopropylmalate Dehydrogenases Reveals Their Important Roles in Gametophyte Development
Yan He¹, Liqun Chen¹, Yuan Zhou¹, Thomas P. Mawhinney², Bing Chen¹, Byung-Ho Kang³, Bernard A. Hauser¹, and Sixue Chen¹⁴
¹Department of Biology, Plant Molecular and Cellular Biology Program, University of Florida, Gainesville, FL
²Department of Biochemistry, Agricultural Experiment Station, University of Missouri, Columbia, MO
³Department of Microbiology and Cell Sciences, University of Florida, Gainesville, FL
⁴Interdisciplinary Center for Biotechnology Research (ICBR), University of Florida, Gainesville, FL

Whole-Genome Genotyping Through Sequence Capture in Pine
Leandro Gomide¹, John M. Davis¹,², Brad Barbazuk¹,³, Matias Kirst¹,²
¹Plant Molecular and Cellular Biology, University of Florida, Gainesville, FL
²School of Forest Resources and Conservation, University of Florida, Gainesville, FL
³Department of Biology, University of Florida, Gainesville, FL

Plant Physiological and Developmental Changes Induced by Green Light
Tingting Zhang¹, Stefanie Maruhnich², Kevin M. Folta¹,²
¹Department of Horticultural Sciences, University of Florida, Gainesville, FL
²Plant Molecular and Cellular Biology Program, University of Florida, Gainesville, FL

Disruption of Maize Cellulose Synthase-Like D1 Leads to a Narrow-Leaf Warty Phenotype
Chip Hunter¹, Don McCarty¹, Karen Koch¹
¹Plant Molecular and Cellular Biology Program, University of Florida, Gainesville, FL

Investigating Tha4 Topology During Tat Protein Translocation
Cassie Aldridge¹ and Kenneth Cline¹
¹Horticultural Sciences Department, University of Florida, Gainesville, FL

Multiple Precursor Proteins Bind Individual Tat Receptor Complexes and Are Collectively Transported
Xianyue Ma¹ and Kenneth Cline¹
¹Horticultural Sciences Department and Plant Molecular and Cellular Biology, University of Florida, Gainesville FL 32611

Pterin-Linked Aromatic Amino Acid Hydroxylases from Pine and Moss: Biochemical and Reverse Genetic Characterization of a New Class of Plant Enzymes
Frelin O¹, Pribat A¹, Dervinis C², Davies JM², Hanson AD¹
¹Department of Horticultural Sciences, University of Florida, Gainesville
²School of Forest Resources and Conservation - University of Florida, Gainesville
Fruit-Specific Gene Expression in Strawberry
Kevin M. Folta¹, Maureen A. Clancy¹, Srikar Chamala³, Amit Dhingra³, Asha M. Brunings¹, Leandro Gomide³, Rob J. Kulathinal³, Natalia Peres⁴ and Thomas M. Davis⁵, W. Brad Barbazuk³
¹ Horticultural Sciences Department and the Graduate Program in Plant Cellular and Molecular Biology, University of Florida, Gainesville, FL
² Department of Horticulture and Landscape Architecture, Washington State University, Pullman, WA
³ Department of Biology and the Genetics Institute, University of Florida, Gainesville, FL
⁴ Plant Pathology Department, Gulf Coast Research and Education Center, University of Florida, Wimauma, FL
⁵ Department of Biological Sciences, University of New Hampshire, Durham, NH

Identification of Redox Sensitive Proteins in Brassica Napus Guard Cells
Ning Zhu¹, Mengmeng Zhu¹, Sixue Chen¹,²
¹Department of Biology, University of Florida, Gainesville, FL 32611, USA
²PMCB Program, Genetics Institute, ICBR, University of Florida, Gainesville, FL 32611, USA

Effect of UV-C Treatment on Strawberry Fruit Gene Expression
Marina A. Pombo¹, Hernán G. Rosli¹, Srikar Chamala, P. Marcos Civello¹ Brad Barbazuk and Kevin M. Folta²
¹ IIB-INTECH (Instituto de Investigaciones Biotecnológicas-Instituto Tecnológico de Chascomús) (CONICET-UNSAM), Circunvalación Laguna km 6, B7130IWA Chascomús, Argentina
² Plant Molecular and Cellular Biology Program and Horticultural Sciences Department, University of Florida, Gainesville, FL 32611, USA. E-mail: kfolta@ufl.edu

Phosphorus and Sucrose Effect on Maize Root
de Sousa, S.M¹, Parentoni, S.N.¹, Guimarães, C.T.¹, Magalhães, J.V.¹, Vasconcelos, M.J.V.¹
¹Embrapa Milho e Sorgo (Embrapa Maize and Sorghum), Sete Lagoas, Brazil smsousa@cnpms.embrapa.br

Acknowledgements: Embrapa, McKnight, Fapemig and CNPq.