

TABLAS DE CONTENIDO SEPTIEMBRE 15 AL 30 DE 2011

COLOMBIA AMAZONICA 3. 2010

CONSERVATION BIOLOGY 25(4). 2011

JOURNAL OF ECONOMIC ENTOMOLOGY 104(4). 2011

PLANT CELL 23(6). 2011

PLANT PHYSIOLOGY Vol. 156(4). 2011

SOIL SCIENCE SOCIETY OF AMERICA JOURNAL 75(4). 2011

COLOMBIA AMAZONICA 3. 2010

Carlos A. Rodríguez. La Amazonia conservada: sueño y legado del profesor Thomas van der Hammen (Pag. 5-10)

Lina A. Acevedo Aristizábal y Germán Poveda Jaramillo. Construcción y análisis de curvas intensidad-frecuencia-duración (idf), bajo escenarios de cambio climático en Colombia (Pag. 11-30)

Iván Darío Gómez y Felipe Fonseca. Mapa Nacional de Ecosistemas: ejemplo de trabajo interinstitucional para la gestión ambiental del país (Pag. 31-42)

Uriel Murcia, Juan Manuel Rodríguez, Claudia Marcela Huertas y Henry Omar Castellanos. ¿Cuánto se está deforestando la Amazonía colombiana? (Pag. 43-52)

Jaime Alberto Barrera, Sandra Yanneth Castro y María Soledad Hernández. Herramientas de la biología para la gestión forestal de los ecosistemas en la Amazonía (Pag. 53-68)

Gina Frausin y Ari de Freitas Hidalgo. Os indígenas Sateré-Mawé e seus frutos, sementes e órgãos tuberosos alimenticios (Pag. 69-82)

Wilher Villada, Marcela Carrillo, Jaime Barrera, et al. Caracterización fisicoquímica e identificación de variedades de yuca amazónica colombiana con potencial para su uso (Pag. 83-98)

Armando Sterling, Alexis Calderón, Olga Lucía Rodríguez y Lorena Quintero. Caracterización morfológica y patogenicidad de *Microcyclus ulei* en la Amazonía colombiana (Pag. 99-116)

Clara Patricia Peña-Venegas, Edmundo Mendoza, Nadia Catalina Alfonso y Gladys Cardona. *Ralstonia solanacearum*: una bacteria que amenaza la seguridad alimentaria en la Amazonía (Pag. 117-128)

Nicolás Castaño and Joost f. Duivenvoorden. Effects of flooding on tree seedling performance in Amazonian floodplain forests, Colombia (Pag. 129-140)

Dairon Cárdenas López, Zaleth Cordero, Nelson Salinas, et al. Composición florística de diez hectáreas de la parcela permanente Amacayacu, Amazonia colombiana

INICIO

CONSERVATION BIOLOGY 25(4). 2011

Meredith L. Gore. The Science of Conservation Crime (Pag. 659–661)

Ivan Meeus, Mark J. F. Brown, Dirk C. de Graaf and Guy Smagghe. Effects of Invasive Parasites on Bumble Bee Declines (Pag. 662–671)

Medro M.A. Ferreira and Ilsi I. Boldrini. Reflection of Distinct Ecological Units in Plant Endemism Categories (Pag. 672–679)

Péter Szabó and Radim Hédl. Advancing the Integration of History and Ecology for Conservation (Pag. 680–687)

Brent j. Sewall, Amy I. Freestone, Mohamed F. E. Moutui, et al. Reorienting Systematic Conservation Assessment for Effective Conservation Planning (Pag. 688–696)

Jeffrey C. Milder and Story Clark. Development Practices, Extent, and Land-Use Effects in the United States (Pag. 697–707)

Juliane Geyer, Iris Kiefer, Stefan Kreft, et al. Classification of Climate-Change-Induced Stresses on Biological Diversity (Pag. 708–715)

Allison k. Leidner and Maile C. Neel. Taxonomic and Geographic Patterns of Decline for Threatened and Endangered Species in the United States (Pag.716–725)

Alejandro Martínez-Abraín, Helen M. Regan, Covadonga Viedma, et al.Cost-Effectiveness of Translocation Options for a Threatened Waterbird (Pag. 726–735)

Christina J. Maranto, Julia K. Parrish, David P. Herman, et al.Use of Fatty Acid Analysis to Determine Dispersal of Caspian Terns in the Columbia River Basin, U.S.A. (Pag. 736–746)

Howard B. Wilson, Bruce E. Kendall and Hugh P. Possingham. Variability in Population Abundance and the Classification of Extinction Risk (Pag. 747–757)

Howard B. Wilson, Bruce E. Kendall, Richard A. Fuller, et al. Analyzing Variability and the Rate of Decline of Migratory Shorebirds in Moreton Bay, Australia (Pag. 758–766)

M. Adams, S. D. Wedderburn, P. J. Unmack, M. P. Hammer and J. B. Johnson. Use of Congeneric Assessment to Reveal the Linked Genetic Histories of Two Threatened Fishes in the Murray-Darling Basin, Australia (Pag. 767–776)

Contrasting Global Trends in Marine Fishery Status Obtained from Catches and from Stock Assessments (Pag. 777–786)

Trevor A. Branch, Olaf P. Jensen, Daniel Ricard, Yimin Ye and Ray Hilborn

Identifying and Managing Threatened Invertebrates through Assessment of Coextinction Risk (Pag. 787–796)
Melinda L. Moir, Peter A. Vesk, Karl E. C. Brennan, et al.

Demetria Mondragón Chaparro And Tamara Ticktin. Demographic Effects of Harvesting Epiphytic Bromeliads and an Alternative Approach to Collection (Pag. 797–807)

Eduardo A. Silva-Rodríguez and Kathryn E. Sieving. Influence of Care of Domestic Carnivores on Their Predation on Vertebrates (Pag. 808–815)

Gary W. Luck, Penny Davidson, Dianne Boxall and Lisa Smallbone Relations between Urban Bird and Plant Communities and Human Well-Being and Connection to Nature (Pag. 816–826)

James R. Farmer, Doug Knapp, Vicky J. Meretsky, et al. You have free access to this contentMotivations Influencing the Adoption of Conservation Easements (Pag. 827–834)

Carbon Payments and Low-Cost Conservation (Pag. 835–845)
Neville D. Crossman, Brett A. Bryan and David M. Summers

Alan D. Ziegler, Jeff M. Fox, Edward L. Webb, et al. Recognizing Contemporary Roles of Swidden Agriculture in Transforming Landscapes of Southeast Asia (Pag. 846–848)

Francis E. Putz. Broad View of Tropical Forests (Pag. 849–850)

Jennifer S. Lalley. Positive Forcings in Climate-Change Pedagogy (Pag. 850–851)

Donald Kroodsma and Gregory F. Budney Sound Recordings—An Essential Tool for Conservation (pages 851–852)

Noted with Interest (Pag. 852–853)

INICIO

JOURNAL OF ECONOMIC ENTOMOLOGY 104(4). 2011

Ioriatti, C.; Anfora, G.; Tasin, M.; et al. Chemical Ecology and Management of Lobesia botrana (Lepidoptera: Tortricidae) (Pag. 1125–1137)

Nansen, Christian; Vaughn, Kathy; Xue, Ying; et al. A Decision-Support Tool to Predict Spray Deposition of Insecticides in Commercial Potato Fields and Its Implications for Their Performance (Pag. 1138–1145)

Apiculture and Social Insects

Kirrane, Maria J.; De Guzman, Lilia I.; Rinderer, Thomas E.; et al. Asynchronous Development of Honey Bee Host and Varroa destructor (Mesostigmata: Varroidae) Influences Reproductive Potential of Mites (Pag. 1146–1152)

Authors: Artz, Derek R.; Nault, Brian A. Performance of Apis mellifera, Bombus impatiens, and Peponapis pruinosa (Hymenoptera: Apidae) as Pollinators of Pumpkin (Pag. 1153–1161)

Rinehart, Joseph P.; Yocum, George D.; West, Mark; Kemp, William P. A Fluctuating Thermal Regime Improves Survival of Cold-Mediated Delayed Emergence in Developing *Megachile rotundata* (Hymenoptera: Megachilidae) (Pag. 1162-1166)

Arthropods in Relation to Plant Disease

Hadi, Buyung A. R.; Flanders, Kathy L.; Bowen, Kira I.; et al. Species Composition of Aphid Vectors (Hemiptera: Aphididae) of Barley Yellow Dwarf Virus and Cereal Yellow Dwarf Virus in Alabama and Western Florida (Pag. 1167-1173)

Commodity Treatment and Quarantine Entomology

Grout, Tim G.; Stephen, Peter R.; Daneel, John Henry; Hattingh, Vaughan. Cold Treatment of *Ceratitis capitata* (Diptera: Tephritidae) in Oranges Using a Larval Endpoint (Pag. 1174-1179)

Grout, T. G.; Daneel, J. H.; Mohamed, S. A.; et al. Cold Susceptibility and Disinfestation of *Bactrocera invadens* (Diptera: Tephritidae) in Oranges (Pag. 1180-1188)

Ecology and Behavior

Zhang, Zhilin; Luo, Jing; Lu, Chong; et al. Evidence of Female-Produced Sex Pheromone of *Adelphocoris suturalis* (Hemiptera: Miridae): Effect of Age and Time of Day (Pag. 1189-1194)

Robacker, David C.; Massa, Michelle J.; Sacchetti, Patrizia; Bartelt, Robert J. A Novel Attractant for *Anastrepha ludens* (Diptera: Tephritidae) From a Concord Grape Product (Pag. 1195-1203)

Birke, Andrea; Aluja, Martín. *Anastrepha ludens* and *Anastrepha serpentina* (Diptera: Tephritidae) Do Not Infest *Psidium guajava* (Myrtaceae), but *Anastrepha obliqua* Occasionally Shares This Resource With *Anastrepha striata* in Nature (Pag. 1204-1211)

Ecotoxicology

Karabörklü, Salih; Ayvaz, Abdurrahman; Yilmaz, Semih; Akbulut, Mikail. Chemical Composition and Fumigant Toxicity of Some Essential Oils Against *Ephestia kuehniella* (Pag. 1212-1219)

Attia, S.; Grissa, K. L.; Lognay, G.; et al. Chemical Composition and Acaricidal Properties of *Deverra scoparia* Essential Oil (Araliales: Apiaceae) and Blends of Its Major Constituents Against *Tetranychus urticae* (Acari: Tetranychidae) (Pag. 1220-1228)

Luna, Juan-Carlos; Robinson, Virginia-Angélica; Martínez, Ana-Mabel; et al. Long-Term Effects of Methoxyfenozide on the Adult Reproductive Processes and Longevity of *Spodoptera exigua* (Lepidoptera: Noctuidae) (Pag. 1229-1235)

Field and Forage Crops

Knodel, Janet J.; Ganehiarachchi, G.A.S.M.; Beauzay, Patrick B.; Chirumamilla, Anitha; Charlet, Laurence D. Impact of Planting Dates on a Seed Maggot,

Neotephritis finalis (Diptera: Tephritidae), and Sunflower Bud Moth (Lepidoptera: Tortricidae) Damage in Cultivated Sunflower (Pag. 1236-1244)

Forest Entomology

Miller, Daniel R.; Asaro, Chris; Crowe, Christopher M.; Duerr, Donald A. Bark Beetle Pheromones and Pine Volatiles: Attractant Kairomone Lure Blend for Longhorn Beetles (Cerambycidae) in Pine Stands of the Southeastern United States (Pag. 1245-1257)

Allison, Jeremy D.; Johnson, C. Wood; Meeker, James R.; Strom, Brian L.; Butler, Sarah M. Effect of Aerosol Surface Lubricants on the Abundance and Richness of Selected Forest Insects Captured in Multiple-Funnel and Panel Traps (Pag. 1258-1264)

Tobin, Patrick C.; Zhang, Aijun; Onufrieva, Ksenia; Leonard, Donna S. Field Evaluation of Effect of Temperature on Release of Disparlure From a Pheromone-Baited Trapping System Used to Monitor Gypsy Moth (Lepidoptera: Lymantriidae) (Pag. 1265-1271)

Asaro, Christopher; Creighton, Jerre. Use of Systemic Fipronil and Imidacloprid to Control Regeneration Pests of Loblolly Pine (Pag. 1272-1279)

INICIO

Horticultural Entomology

Hashiyama, Aoi; Nomura, Masashi; Kurihara, Jun; Toyoshima, Goro. Application of Molecular Techniques to Identification of Three Plusiine Species, *Autographa nigrisigna*, *Macdunnoughia confusa*, and *Thysanoplusia intermixta* (Lepidoptera: Noctuidae), Found in Integrated Pest Management Lettuce Fields in Japan (Pag. 1280-1285)

O'Neal, M. J.; Headrick, D. H.; Montez, Gregory H.; Grafton-Cardwell, E. E. Temperature Thresholds and Degree-Day Model for *Marmara gulosa* (Lepidoptera: Gracillariidae) (Pag. 1286-1293)

Pedersen, Andrew B.; Godfrey, Larry D. Evaluation of Cucurbitacin-Based Gustatory Stimulant to Facilitate Cucumber Beetle (Coleoptera: Chrysomelidae) Management With Foliar Insecticides in Melons (Pag. 1294-1300)

Suckling, David M.; Stringer, Lloyd D.; Mitchell, Vanessa J.; et al. Comparative Fitness of Irradiated Light Brown Apple Moths (Lepidoptera: Tortricidae) in a Wind Tunnel, Hedgerow, and Vineyard (Pag. 1301-1308)

Light, Douglas M.; Knight, Alan L. Microencapsulated Pear Ester Enhances Insecticide Efficacy in Walnuts for Codling Moth (Lepidoptera: Tortricidae) and Navel Orangeworm (Lepidoptera: Pyralidae) (Pag. 1309-1315)

Lamp, William O.; Miranda, Daniel; Culler, Lauren E.; Alexander, Laurie C. Host Suitability and Gas Exchange Response of Grapevines to Potato Leafhopper (Hemiptera: Cicadellidae) (Pag. 1316-1322)

Sutherland, Andrew M.; Parrella, Michael P. Accuracy, Precision, and Economic Efficiency for Three Methods of Thrips (Thysanoptera: Thripidae) Population Density Assessment (Pag. 1323-1328)

Belay, Difabachew K.; Zewdu, Abebe; Foster, John E. Ecology and Management of the Woolly Whitefly (Hemiptera: Aleyrodidae), a New Invasive Citrus Pest in Ethiopia (Pag. 1329-1338)

Household and Structural Insects

Baker, Paul B.; Carrière, Yves. Effectiveness of Commercial and Experimental Termite Monitors for the Desert Subterranean Termite *Heterotermes aureus* (Isoptera: Rhinotermitidae) in Southern Arizona (Pag. 1339-1342)

Insecticide Resistance and Resistance Management

Ishtiaq, M.; Saleem, Mushtaq A. Generating Susceptible Strain and Resistance Status of Field Populations of *Spodoptera exigua* (Lepidoptera: Noctuidae) Against Some Conventional and New Chemistry Insecticides in Pakistan (Pag. 1343-1348)

Couso-Ferrer, Francisco; Arouri, Rabeh; Beroiz, Beatriz; et al. Cross-Resistance to Insecticides in a Malathion-Resistant Strain of *Ceratitis capitata* (Diptera: Tephritidae) (Pag. 1349-1356)

Chandrasena, Desmi; DiFonzo, Christina; Byrne, Adam. An Aphid-Dip Bioassay to Evaluate Susceptibility of Soybean Aphid (Hemiptera: Aphididae) to Pyrethroid, Organophosphate, and Neonicotinoid Insecticides (Pag. 1357-1363)

Zhao, Xinghua; Ning, Zuoping; He, Yueping; et al. Differential Resistance and Cross-Resistance to Three Phenylpyrazole Insecticides in the Planthopper *Nilaparvata lugens* (Hemiptera: Delphacidae) pp. 1364-1368(5)

Medical Entomology

Garud, A.; Ganesan, K.; Prakash, Shri; Vijayaraghavan, R.; Shinde, C. K. Behavioral Responses and Bioefficacy of Some Aromatic Amides Against *Aedes aegypti* (Pag. 1369-1378)

Plant Resistance

Razmjou, J.; Mohammadi, M.; Hassanpour, M. Effect of Vermicompost and Cucumber Cultivar on Population Growth Attributes of the Melon Aphid (Hemiptera: Aphididae) (Pag. 1379-1383)

Zhu, Lieceng; Chen, Ming-Shun; Liu, Xiang. Changes in Phytohormones and Fatty Acids in Wheat and Rice Seedlings in Response to Hessian Fly (Diptera: Cecidomyiidae) Infestation (Pag. 1384-1392)

Anderson, Kirk M.; Kang, Qing; Reber, John; Harris, Marion O. No Fitness Cost for Wheat's H Gene-Mediated Resistance to Hessian Fly (Diptera: Cecidomyiidae) (Pag. 1393-1405)

Murugan, M.; Cardona, P. Sotelo; Duraimurugan, P.; et al. Wheat Curl Mite Resistance: Interactions of Mite Feeding With Wheat Streak Mosaic Virus Infection (Pag. 1406-1414)

Stored-Product

Opit, G. P.; Arthur, F. H.; Bonjour, E. L.; Jones, C. L.; Phillips, T. W. Efficacy of Heat Treatment for Disinfestation of Concrete Grain Silos (Pag. 1415-1422)

Eaton, Marc; Kells, Stephen A. Freeze Mortality Characteristics of the Mold Mite *Tyrophagus putrescentiae*, a Significant Pest of Stored Products (Pag. 1423-1429)

Duehl, A. J.; Cohnstaedt, L. W.; Arbogast, R. T.; Teal, P.E.A. Evaluating Light Attraction to Increase Trap Efficiency for *Tribolium castaneum* (Coleoptera: Tenebrionidae) (Pag. 1430-1435)

Hassan, Muhammad Waqar; Dou, Wei; Chen, Li; Jiang, Hong-Bo; Wang, Jin-Jun Development, Survival, and Reproduction of the Psocid *Liposcelis yunnaniensis* (Psocoptera: Liposcelididae) at Constant Temperatures (Pag. 1436-1444)

Suthisut, Duangsamorn; Fields, Paul G.; Chandrapatya, Angsumarn. Contact Toxicity, Feeding Reduction, and Repellency of Essential Oils From Three Plants From the Ginger Family (Zingiberaceae) and Their Major Components Against *Sitophilus zeamais* and *Tribolium castaneum* (Pag. 1445-1454)

INICIO

PLANT CELL 23(6). 2011

Anireddy S.N. Reddy, Gul S. Ali, Helena Celesnik, and Irene S. Day. Coping with Stresses: Roles of Calcium- and Calcium/Calmmodulin-Regulated Gene Expression (Pag. 2010-2032)

Michael Sauer and Jürgen Kleine-Vehn. AUXIN BINDING PROTEIN1: The Outsider (Pag. 2033-2043)

Kai Graeber, Ada Linkies, Andrew T.A. Wood, and Gerhard Leubner-Metzger. A Guideline to Family-Wide Comparative State-of-the-Art Quantitative RT-PCR Analysis Exemplified with a Brassicaceae Cross-Species Seed Germination Case Study (Pag. 2045-2063)

Qunqing Wang, Changzhi Han, Adriana O. Ferreira, et al. Transcriptional Programming and Functional Interactions within the *Phytophthora sojae* RXLR Effector Repertoire (Pag. 2064-2086)

Udo Gowik, Andrea Bräutigam, Katrin L. Weber, Andreas P.M. Weber, and Peter Westhoff. Evolution of C4 Photosynthesis in the Genus *Flaveria*: How Many and Which Genes Does It Take to Make C4? (Pag. 2087-2105)

Chuanen Zhou, Lu Han, Chunyan Hou, et al. Developmental Analysis of a *Medicago truncatula* smooth leaf margin1 Mutant Reveals Context-Dependent Effects on Compound Leaf Development (Pag. 2106-2124)

Million Tadege, Hao Lin, Mohamed Bedair, et al. STENOFOLIA Regulates Blade Outgrowth and Leaf Vascular Patterning in *Medicago truncatula* and *Nicotiana sylvestris* (Pag. 2125-2142)

Nobuhiro Tanaka, Hironori Itoh, Naoki Sentoku, et al. The COP1 Ortholog PPS Regulates the Juvenile-Adult and Vegetative-Reproductive Phase Changes in Rice (Pag. 2143-2154)

So-Dam Yang, Pil Joon Seo, Hye-Kyung Yoon, and Chung-Mo Park. The Arabidopsis NAC Transcription Factor VNI2 Integrates Abscisic Acid Signals into Leaf Senescence via the COR/RD Genes (Pag. 2155-2168)

Nishiyama, Yasuko Watanabe, Yasunari Fujita, et al. Analysis of Cytokinin Mutants and Regulation of Cytokinin Metabolic Genes Reveals Important Regulatory Roles of Cytokinins in Drought, Salt and Abscisic Acid Responses, and Abscisic Acid Biosynthesis (Pag. 2169-2183)

Björn C. Willige, Erika Isono, René Richter, et al. Gibberellin Regulates PIN-FORMED Abundance and Is Required for Auxin Transport-Dependent Growth and Development in *Arabidopsis thaliana* (Pag. 2184-2195)

Jérémie Bazin, Nicolas Langlade, Patrick Vincourt, et al. Targeted mRNA Oxidation Regulates Sunflower Seed Dormancy Alleviation during Dry After-Ripening (Pag. 2196-2208)

Huy Anh Phan, Sylvana Iacuone, Song F. Li, and Roger W. Parish. The MYB80 Transcription Factor Is Required for Pollen Development and the Regulation of Tapetal Programmed Cell Death in *Arabidopsis thaliana* (Pag. 2209-2224)

Jing Shi, Hexin Tan, Xiao-Hong Yu, et al. Defective Pollen Wall Is Required for Anther and Microspore Development in Rice and Encodes a Fatty Acyl Carrier Protein Reductase (Pag. 2225-2246)

Hui Chen, Hyun Uk Kim, Hua Weng, and John Browse. Malonyl-CoA Synthetase, Encoded by ACYL ACTIVATING ENZYME13, Is Essential for Growth and Development of *Arabidopsis* (Pag. 2247-2262)

Andrew D. Nelson, Jonathan C. Lamb, Pierre S. Kobrossly, and Dorothy E. Shippen. Parameters Affecting Telomere-Mediated Chromosomal Truncation in *Arabidopsis* (Pag. 2263-2272)

John A. Humphries, Zuzana Vejlupkova, Anding Luo, et al. ROP GTPases Act with the Receptor-Like Protein PAN1 to Polarize Asymmetric Cell Division in Maize (Pag. 2273-2284)

Daniela Strenkert, Stefan Schmollinger, Frederik Sommer, Miriam Schulz-Raffelt, and Michael Schroda. Transcription Factor-Dependent Chromatin Remodeling at Heat Shock and Copper-Responsive Promoters in *Chlamydomonas reinhardtii* (Pag. 2285-2301)

Arun Sampathkumar, Jelmer J. Lindeboom, Seth Debolt, et al. Live Cell Imaging Reveals Structural Associations between the Actin and Microtubule Cytoskeleton in *Arabidopsis* (Pag. 2302-2313)

Yang Zhao, Shuangshuang Zhao, Tonglin Mao, et al. The Plant-Specific Actin Binding Protein SCAB1 Stabilizes Actin Filaments and Regulates Stomatal Movement in *Arabidopsis* (Pag. 2314-2330)

INICIO

Alan M. Myers, Martha G. James, Qiaohui Lin, et al. Maize opaque5 Encodes Monogalactosyldiacylglycerol Synthase and Specifically Affects Galactolipids Necessary for Amyloplast and Chloroplast Function (Pag. 2331-2347)

Paul Dominic B. Olinares, Jitae Kim, Jerrold I. Davis, and Klaas J. van Wijk. Subunit Stoichiometry, Evolution, and Functional Implications of an Asymmetric Plant Plastid ClpP/R Protease Complex in Arabidopsis (Pag. 2348-2361)

Jonathan E. Markham, Diana Molino, Lionel Gissot, et al. Sphingolipids Containing Very-Long-Chain Fatty Acids Define a Secretory Pathway for Specific Polar Plasma Membrane Protein Targeting in Arabidopsis (Pag. 2362-2378)

Sascha Rexroth, Conrad W. Mullineaux, Dorothea Ellinger, et al. The Plasma Membrane of the Cyanobacterium *Gloeobacter violaceus* Contains Segregated Bioenergetic Domains (Pag. 2379-2390)

Sylvia K. Eriksson, Michael Kutzer, et al. Tunable Membrane Binding of the Intrinsically Disordered Dehydrin Lti30, a Cold-Induced Plant Stress Protein (Pag. 2391-2404)

Mohamed El Oirdi, Taha Abd El Rahman, Luciano Rigano, et al. *Botrytis cinerea* Manipulates the Antagonistic Effects between Immune Pathways to Promote Disease Development in Tomato (Pag. 2405-2421)

Caroline Hoefle, Christina Huesmann, Holger Schultheiss, et al. A Barley ROP GTPase ACTIVATING PROTEIN Associates with Microtubules and Regulates Entry of the Barley Powdery Mildew Fungus into Leaf Epidermal Cells (Pag. 2422-2439)

Milena Roux, Benjamin Schwessinger, Catherine Albrecht, et al. The Arabidopsis Leucine-Rich Repeat Receptor-Like Kinases BAK1/SERK3 and BKK1/SERK4 Are Required for Innate Immunity to Hemibiotrophic and Biotrophic Pathogens (Pag. 2440-2455)

Fernando Geu-Flores, Morten Emil Møldrup, Christoph Böttcher, et al. Cytosolic γ -Glutamyl Peptidases Process Glutathione Conjugates in the Biosynthesis of Glucosinolates and Camalexin in Arabidopsis (Pag. 2456-2469)

INICIO

PLANT PHYSIOLOGY Vol. 156(4). 2011

Peter V. Minorsky. On the Inside (Pag. 1653-1654)

Eva Vranová, Matthias Hirsch-Hoffmann, and Wilhelm Gruisse. AtIPD: A Curated Database of Arabidopsis Isoprenoid Pathway Models and Genes for Isoprenoid Network Analysis (Pag. 1655-1660)

Rohini Garg, Ravi K. Patel, Shalu Jhanwar, et al. Gene Discovery and Tissue-Specific Transcriptome Analysis in Chickpea with Massively Parallel Pyrosequencing and Web Resource Development (Pag. 1661-1678)

Steven R. Eichten, Jillian M. Foerster, Natalia de Leon, et al. B73-Mo17 Near-Isogenic Lines Demonstrate Dispersed Structural Variation in Maize (Pag. 1679-1690)

G. Wilma van Esse, Adrie H. Westphal, Ramya Preethi Surendran, et al. Quantification of the Brassinosteroid Insensitive1 Receptor in *Planta* (Pag. 1691-1700)

Young Hae Choi, Jaap van Spronsen, Yuntao Dai, et al. Are Natural Deep Eutectic Solvents the Missing Link in Understanding Cellular Metabolism and Physiology?

(Pag. 1701-1705)

Rachel N. Shingaki-Wells, Shaobai Huang, Nicolas L. Tayloret al. Differential Molecular Responses of Rice and Wheat Coleoptiles to Anoxia Reveal Novel Metabolic Adaptations in Amino Acid Metabolism for Tissue Tolerance (Pag. 1706-1724)

Stuart Sullivan, Marie-Christine Ralet, Adeline Berger, et al. CESA5 Is Required for the Synthesis of Cellulose with a Role in Structuring the Adherent Mucilage of Arabidopsis Seeds (Pag. 1725-1739)

Hongyan Wu, Amanda M. Cockshutt, Avery McCarthy, and Douglas A. Campbell. Distinctive Photosystem II Photoinactivation and Protein Dynamics in Marine Diatoms (Pag. 2184-2195)

Greg Clark, Devin Fraley, Iris Steinebrunner, et al. Extracellular Nucleotides and Apyrases Regulate Stomatal Aperture in Arabidopsis (Pag. 1740-1753)

Stefan Debast, Adriano Nunes-Nesi, Mohammad R. Hajirezaei, et al. Altering Trehalose-6-Phosphate Content in Transgenic Potato Tubers Affects Tuber Growth and Alters Responsiveness to Hormones during Sprouting (Pag. 1754-1771)

Huili Yan, Katrin Marquardt, Martin Indorf, et al. Nuclear Localization and Interaction with COP1 Are Required for STO/BBX24 Function during Photomorphogenesis (Pag. 1772-1782)

Marie Maîtrejean, Michael M. Wudick, Camilla Voelker, et al. Assembly and Sorting of the Tonoplast Potassium Channel AtTPK1 and Its Turnover by Internalization into the Vacuole (Pag. 1783-1796)

Aurélie Gfeller, Katja Baerenfaller, Jorge Loscos, et al. Jasmonate Controls Polypeptide Patterning in Undamaged Tissue in Wounded Arabidopsis Leaves (Pag. 1797-1807)

Klass Wulfetange, Sergey N. Lomin, Georgy A. Romanov, Andrea Stolz, Alexander Heyl, and Thomas Schmülling

The Cytokinin Receptors of Arabidopsis Are Located Mainly to the Endoplasmic Reticulum (Pag. 1808-1818).

Javier Gallego-Bartolomé, Chitose Kami, Christian Fankhauser, David Alabadí, and Miguel A. Blázquez. A Hormonal Regulatory Module That Provides Flexibility to Tropic Responses (Pag. 1819-1825)

Gibum Yi, Adrienne M. Lauter, M. Paul Scott, and Philip W. Becraft. The thick aleurone1 Mutant Defines a Negative Regulation of Maize Aleurone Cell Fate That Functions Downstream of defective kernel1 (Pag. 1826-1836)

Christian A. Burr, Michelle E. Leslie, Sara K. Orlowski, et al. CAST AWAY, a Membrane-Associated Receptor-Like Kinase, Inhibits Organ Abscission in Arabidopsis (Pag. 1837-1850)

Sunita Kushwah, Alan M. Jones, and Ashverya Laxmi. Cytokinin Interplay with Ethylene, Auxin, and Glucose Signaling Controls Arabidopsis Seedling Root Directional Growth (Pag. 1851-1866).

Eunjoo Seo, Jihyeon Yu, Kook Hui Ryu, Myeong Min Lee, and Ilha Lee. WEREWOLF, a Regulator of Root Hair Pattern Formation, Controls Flowering Time through the Regulation of FT mRNA Stability (Pag. 1867-1877)

Xiaohua Zheng, Nathan D. Miller, Daniel R. Lewis, et al. AUXIN UP-REGULATED F-BOX PROTEIN1 Regulates the Cross Talk between Auxin Transport and Cytokinin Signaling during Plant Root Growth (Pag. 1878-1893)

Silvana V. Spinelli, Ana Paula Martin, Ivana L. Viola, Daniel H. Gonzalez, and Javier F. Palatnik. A Mechanistic Link between STM and CUC1 during Arabidopsis Development (Pag. 1894-1904).

Qian Ma, Peter Hedden, and Qifa Zhang. Heterosis in Rice Seedlings: Its Relationship to Gibberellin Content and Expression of Gibberellin Metabolism and Signaling Genes (Pag. 1905-1920)

Asuka Kuwabara, Andreas Backhaus, Robert Malinowski, et al. A Shift toward Smaller Cell Size via Manipulation of Cell Cycle Gene Expression Acts to Smoothen Arabidopsis Leaf Shape (Pag. 2196-2206).

Rebecca E. Laurie, Payal Diwadkar, Mauren Jaudal, et al. The *Medicago* FLOWERING LOCUS T Homolog, MtFTa1, Is a Key Regulator of Flowering Time (Pag. 2207-2224).

ENVIRONMENTAL STRESS AND ADAPTATION TO STRESS

Wei-Tao Lv, Bin Lin, Min Zhang, and Xue-Jun Hua. Proline Accumulation Is Inhibitory to Arabidopsis Seedlings during Heat Stress (Pag. 1921-1933).

Nicolas Blot, Daniella Mella-Flores, Christophe Six, et al. Light History Influences the Response of the Marine Cyanobacterium *Synechococcus* sp. WH7803 to Oxidative Stress (Pag. 1934-1954).

Chyi-Chuann Chen, Yong-Yi Chen, I-Chien Tang, et al. Arabidopsis SUMO E3 Ligase SIZ1 Is Involved in Excess Copper Tolerance (Pag. 2225-2234).

Wenming Du, Huixin Lin, She Chen, et al. Phosphorylation of SOS3-Like Calcium-Binding Proteins by Their Interacting SOS2-Like Protein Kinases Is a Common Regulatory Mechanism in Arabidopsis (Pag. 2235-2243).

INICIO

GENETICS, GENOMICS, AND MOLECULAR EVOLUTION

Meishan Zhang, Chunming Xu, Diter von Wettstein, and Bao Liu. Tissue-Specific Differences in Cytosine Methylation and Their Association with Differential Gene Expression in Sorghum (Pag. 1955-1966).

Anna Karlsgren, Niclas Gyllenstrand, Thomas Källman, et al. Evolution of the PEBP Gene Family in Plants: Functional Diversification in Seed Plant Evolution (Pag. 1967-1977).

Izaskun Mallona, Marcos Egea-Cortines, and Julia Weiss. Conserved and Divergent Rhythms of Crassulacean Acid Metabolism-Related and Core Clock Gene Expression in the Cactus *Opuntia ficus-indica* (Pag. 1978-1989).

Stéphane Muñoz, Nicolas Ranc, Emmanuel Botton, et al. Increase in Tomato Locule Number Is Controlled by Two Single-Nucleotide Polymorphisms Located Near WUSCHEL (Pag. 2244-2254).

PLANTS INTERACTING WITH OTHER ORGANISMS

Emanuel A. Devers, Anja Branscheid, Patrick May, and Franziska Krajinski. Stars and Symbiosis: MicroRNA- and MicroRNA*-Mediated Transcript Cleavage Involved in Arbuscular Mycorrhizal Symbiosis (Pag. 1990-2010).

Dong Hyuk Lee, Hyong Woo Choi, and Byung Kook Hwang. The Pepper E3 Ubiquitin Ligase RING1 Gene, CaRING1, Is Required for Cell Death and the Salicylic Acid-Dependent Defense Response (Pag. 2011-2025).

Jun-ichi Inaba, Bo Min Kim, Hanako Shimura, and Chikara Masuta. Virus-Induced Necrosis Is a Consequence of Direct Protein-Protein Interaction between a Viral RNA-Silencing Suppressor and a Host Catalase (Pag. 2026-2036).

Hassan Ghareeb, Annette Becker, Tim Iven, Ivo Feussner, and Jan Schirawski. Sporisorium reilianum Infection Changes Inflorescence and Branching Architectures of Maize (Pag. 2037-2052).

Kristin Laluk, Synan AbuQamar, and Tesfaye Mengiste. The Arabidopsis Mitochondria-Localized Pentatricopeptide Repeat Protein PGN Functions in Defense against Necrotrophic Fungi and Abiotic Stress Tolerance (Pag. 2053-2068).

Shi Xiao and Mee-Len Chye. Overexpression of Arabidopsis ACBP3 Enhances NPR1-Dependent Plant Resistance to *Pseudomonas syringae* pv tomato DC3000 (Pag. 2069-2081).

Alisa Huffaker, Fatma Kaplan, Martha M. Vaughan, et al. Novel Acidic Sesquiterpenoids Constitute a Dominant Class of Pathogen-Induced Phytoalexins in Maize (Pag. 2082-2097).

Emilie F. Fradin, Ahmed Abd-El-Haliem, Laura Masini, et al. Interfamily Transfer of Tomato Ve1 Mediates *Verticillium* Resistance in Arabidopsis (Pag. 2255-2265).

María Elisa Gonzalez, Francisco Marco, Eugenio Gómez Minguet, et al. Perturbation of spermine synthase Gene Expression and Transcript Profiling Provide New Insights on the Role of the Tetraamine Spermine in Arabidopsis Defense against *Pseudomonas viridisflava* (Pag. 2266-2277).

WHOLE PLANT AND ECOPHYSIOLOGY

Victoria Fernández, Mohamed Khayet, Pablo Montero-Prado, et al. New Insights into the Properties of Pubescent Surfaces: Peach Fruit as a Model (Pag. 2098-2108).

SYSTEMS BIOLOGY, MOLECULAR BIOLOGY, AND GENE REGULATION

Hans E. Holtan, Simona Bandong, Colleen M. Marion, et al. BBX32, an Arabidopsis B-Box Protein, Functions in Light Signaling by Suppressing HY5-Regulated Gene Expression and Interacting with STH2/BBX21 (Pag. 2109-2123).

Ying Li, Kankshita Swaminathan, and Matthew E. Hudson. Rapid, Organ-Specific Transcriptional Responses to Light Regulate Photomorphogenic Development in Dicot Seedlings (Pag. 2124-2140).

Verónica Loth-Pereda, Elena Orsini, Pierre-Emmanuel Courty, et al. Structure and Expression Profile of the Phosphate Pht1 Transporter Gene Family in Mycorrhizal *Populus trichocarpa* (Pag. 2141-2154).

Qisen Zhang, Filomena A. Pettolino, Kanwarpal S. Dhugga, et al. Cell Wall Modifications in Maize Pulvini in Response to Gravitational Stress (Pag. 2155-2171).

Leila Kheibarshekan Asl, Stijn Dhondt, Véronique Boudolf, et al. Model-Based Analysis of Arabidopsis Leaf Epidermal Cells Reveals Distinct Division and Expansion Patterns for Pavement and Guard Cells (Pag. 2172-2183).

INICIO

SOIL SCIENCE SOCIETY OF AMERICA JOURNAL 75(4). 2011

S. Grunwald, J. A. Thompson and J. L. Boettinger. Digital Soil Mapping and Modeling at Continental Scales: Finding Solutions for Global Issues (Pag. 1201-1213).

REVIEW & ANALYSIS

Xiaonan Shi, Laosheng Wu, Weiping Chenc and Quanjiu Wang. Solute Transfer from the Soil Surface to Overland Flow: A Review (Pag. 1214-1225).

SOIL PHYSICS

Kevin H. Gormally, Marla S. McIntosh and Anthony N. Mucciardi. Ground-Penetrating Radar Detection and Three-Dimensional Mapping of Lateral Macropores: I. Calibration (Pag. 1226-1235)

Kevin H. Gormally, Marla S. McIntosh, Anthony N. Mucciardi and Gregory W. McCarty. Ground-Penetrating Radar Detection and Three-Dimensional Mapping of Lateral Macropores: II. Riparian Application (Pag. 1236-1243)

G. Kargas, P. Kerkides, M. Seyfried and A. Sgoumbopoulou. WET Sensor Performance in Organic and Inorganic Media with Heterogeneous Moisture Distribution (Pag. 1244-1252)

Steven K. Frey and David L. Rudolph. Multiscale Characterization of Vadose Zone Macroporosity in Relation to Hydraulic Conductivity and Subsurface Drainage (Pag. 1253-1264)

Dong-Hee Kang, Satish C. Gupta, Andry Z. Ranaivoson, John Siekmeier and Ruth Roberson. Recycled Materials as Substitutes for Virgin Aggregates in Road Construction: I. Hydraulic and Mechanical Characteristics (Pag. 1265-1275)

Dong-Hee Kang, Satish C. Gupta, P. R. Bloom, et al. Recycled Materials as Substitutes for Virgin Aggregates in Road Construction: II. Inorganic Contaminant Leaching (Pag. 1276-1284)

David A. Sullivan and Husein A. Ajwa. Evaluation of Wind Erosion Emissions Factors for Air Quality Modeling (Pag. 1285-1294).

Asim Biswas and Bing Cheng Si. Revealing the Controls of Soil Water Storage at Different Scales in a Hummocky Landscape (Pag. 1295-1306)

Amanda M. Liesch, Erik S. Krueger and Tyson E. Ochsner. Soil Structure and Physical Properties under Rye-Corn Silage Double-Cropping Systems (Pag. 1307-1314)

T.K.K. Chamindu Deepagoda, Per Moldrup, Per Schjønning, Ken Kawamoto, Toshiko Komatsu and Lis Wollesen de Jonge. Generalized Density-Corrected Model for Gas Diffusivity in Variably Saturated Soils (Pag. 1315-1329)

I. Miralles-Mellado, Y. Cantón and A. Solé-Benet. Two-Dimensional Porosity of Crusted Silty Soils: Indicators of Soil Quality in Semiarid Rangelands? (Pag. 1330-1342)

SOIL PHYSICS NOTE

P. A. Londra and J. D. Valiantzas. Soil Water Diffusivity Determination using a New Two-Point Outflow Method (Pag. 1343-1346)

SOIL CHEMISTRY

Sabine Goldberg and Donald L. Suarez. Distinguishing Boron Desorption from Mineral Dissolution in Arid-Zone Soils (Pag. 1347-1353)

Kathrin Schilling, Thomas M. Johnson and Wolfgang Wilcke. Selenium Partitioning and Stable Isotope Ratios in Urban Topsoils (Pag. 1354-1364)

E. R. Graber, L. Tsechansky, J. Khanukov and Y. Oka. Sorption, Volatilization, and Efficacy of the Fumigant 1,3-Dichloropropene in a Biochar-Amended Soil (Pag. 1365-1373)

Xiaoyan Cao, Daniel C. Olk, Mark Chappell, et al. Solid-State NMR Analysis of Soil Organic Matter Fractions from Integrated Physical-Chemical Extraction (Pag. 1374-1384)

Huibin Yu, Beidou Xi, Wenchao Ma, Dinglong Li and Xiaosong He. Fluorescence Spectroscopic Properties of Dissolved Fulvic Acids from Salined Flavo-aquic Soils around Wuliangsuhan in Hetao Irrigation District, China (Pag. 1385-1393)

Wenjie Ren, Meie Wang and Qixing Zhou. Adsorption Characteristics and Influencing Factors of Chlorimuron-Ethyl in Two Typical Chinese Soils (Pag. 1394-1401)

INICIO

SOIL BIOLOGY & BIOCHEMISTRY

J. D. Streubel, H. P. Collins, M. Garcia-Perez, J. Tarara, D. Granatstein and C.E. Kruger. Influence of Contrasting Biochar Types on Five Soils at Increasing Rates of Application (Pag. 1402-1413)

Guy Tamir, Moshe Shenker, Hadar Heller, et al. Can Soil Carbonate Dissolution Lead to Overestimation of Soil Respiration? (Pag. 1414-1422)

Denis Curtin, Michael H. Beare, Martin H. Chantigny and Laurie G. Greenfield. Controls on the Extractability of Soil Organic Matter in Water over the 20 to 80°C Temperature Range (Pag. 1423-1430)

Yucheng Wu, Lu Lu, Baozhan Wang, Xiangui Lin, et al. Long-Term Field Fertilization Significantly Alters Community Structure of Ammonia-Oxidizing Bacteria rather than Archaea in a Paddy Soil (Pag. 1431-1439)

Himaya M. Michel and Mark A. Williams. Soil Habitat and Horizon Properties Impact Bacterial Diversity and Composition (Pag. 1440-1448)

PEDOLOGY

Judith K. Turk and Robert C. Graham. Distribution and Properties of Vesicular Horizons in the Western United States (Pag. 1449-1461)

Karen L. Vaughan, Paul A. McDaniel and William M. Phillips. Episodic Soil Succession on Basaltic Lava Fields in a Cool, Dry Environment (Pag. 1462-1470)

SOIL & WATER MANAGEMENT & CONSERVATION

Humberto Blanco-Canqui, Maysoon M. Mikha, DeAnn R. Presley and Mark M. Claassen. Addition of Cover Crops Enhances No-Till Potential for Improving Soil Physical Properties (Pag. 1471-1482)

E. G. Gregorich, D. R. Lapen, B. L. Ma, N. B. McLaughlin and A. J. VandenBygaart. Soil and Crop Response to Varying Levels of Compaction, Nitrogen Fertilization, and Clay Content (Pag. 1483-1492)

E. Bremer, H. H. Janzen, B. H. Ellert and R. H. McKenzie. Carbon, Nitrogen, and Greenhouse Gas Balances in an 18-Year Cropping System Study on the Northern Great Plains (Pag. 1493-1502)

Charmaine N. Mchunu, Simon Lorentz, Graham Jewitt, Alan Manson and Vincent Chaplot. No-Till Impact on Soil and Soil Organic Carbon Erosion under Crop Residue Scarcity in Africa (Pag. 1503-1512)

Stewart B. Wuest and William F. Schillinger. Evaporation from High Residue No-Till versus Tilled Fallow in a Dry Summer Climate (Pag. 1513-1519)

FOREST, RANGE & WILDLAND SOILS

Karen L. Vandecar, Deborah Lawrence and Deborah Clark. Phosphorus Sorption Dynamics of Anion Exchange Resin Membranes in Tropical Rain Forest Soils (Pag. 1520-1529)

J. D. Clark and A.H. Johnson. Carbon and Nitrogen Accumulation in Post-Agricultural Forest Soils of Western New England (Pag. 1530-1542)

M. D. Madsen, D. L. Zvirzdin, S. L. Petersen, et al. Soil Water Repellency within a Burned Piñon-Juniper Woodland: Spatial Distribution, Severity, and Ecohydrologic Implications (Pag. 1543-1553)

George L. Vourlitis, Francisco de Almeida Lobo, Marcelo Sacardi Biudes, Carmen Eugenia Rodríguez Ortíz and Jose de Souza Nogueira. Spatial Variations in Soil Chemistry and Organic Matter Content across a *Vochysia divergens* Invasion Front in the Brazilian Pantanal (Pag. 1554-1561)

NUTRIENT MANAGEMENT & SOIL & PLANT ANALYSIS

Yinghua Duan, Minggang Xu, Bairén Wang, et al. Long-Term Evaluation of Manure Application on Maize Yield and Nitrogen Use Efficiency in China (Pag. 1562-1573)

S. H. Chien, U. Singh, E. R. Austin and J. S. Kruse. Separating Nitrogen Polymers from Urea in Ureaform Fertilizer to Study Soil Nitrogen Transformations (Pag. 1574-1577)

Quirine Ketterings, Chie Miyamoto, Renuka Rao Mathur, Kevin Dietzel and Sanjay Gami. A Comparison of Soil Sulfur Extraction Methods (Pag. 1578-1583)

WETLAND SOILS NOTE

Alexander Salisbury and Mark H. Stolt. Estuarine Subaqueous Soil Temperature (Pag. 1584-1587)

INICIO