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Fourth International Workshop on the Genetics of Host-Parasite Interactions in Forestry
July 31 - August 5, 2011
Valley River Inn, Eugene, Oregon, USA

Submitted Posters

- 1) **Development of Weevil Resistant Sitka Spruce in British Columbia, Canada**
René I. Alfaro, Natural Resources Canada, Canadian Forest Service, Pacific Forestry Centre, 506 W. Burnside Rd., Victoria, British Columbia, Canada, V8Z 1M5; RALfaro@nrcan.gc.ca; and **John N. King**, British Columbia Ministry of Forests and Range, Research Branch, P.O. Box 9519, Stn. Prov. Govt., Victoria, British Columbia, Canada, V8W 9C2
- 2) **Screening for Resistance to Fusiform Rust in Southern U.S. Forest Trees**
Josh Bronson, USDA Forest Service, Resistance Screening Center, 1579 Brevard Road, Asheville, NC 28805; jjbronson@fs.fed.us
- 3) **Variation in the Development of Current Season Needle Necrosis on Noble, Nordmann, and Turkish fir Christmas Trees in the U.S. Pacific Northwest**
Gary A Chastagner and **Kathy Riley**, Washington State University, Research and Extension Center, 2606 West Pioneer, Puyallup, WA 98731; chastag@puyallup.wsu.edu; and **Chal Landgren**, Oregon State University, North Willamette Research and Extension Center, 15210 NE Miley Rd, Aurora, OR 97002
- 4) **Molecular Characterization of Red Gum Lerp Psyllid (*Glycaspis brimblecombei*) Pest Insect Population through ITS1 Marker**
Suzana Regina Silveira Costa, Instituto de Biociências, Depto de Genética/CAGEN, UNESP, Botucatu, SP - 18618-970; costasrs@ibb.unesp.br; **Carlos Frederico Wilcken**, Faculdade de Ciências Agrônômicas, Depto de Defesa Fitossanitária, UNESP, Botucatu, SP - 18610-307; and **Celso Luis Marino**, Instituto de Biociências, Depto de Genética/CAGEN, UNESP, Botucatu, SP - 18618-970
- 5) **Frequency of Hypersensitive Reaction and Stem Infections in a Large Full-sib Family of *Pinus monticola***
Robert Danchok, **Richard A. Sniezko**, **Sally Long**, and **Angelia Kegley**, USDA Forest Service, Dorena Genetic Resource Center, 34963 Shoreview Road, Cottage Grove, OR 97424; rsniezko@fs.fed.us; and **Jun-Jun Liu**, Natural Resources Canada, Canadian Forest Service, Pacific Forestry Centre, 506 West Burnside Road, Victoria, British Columbia, V8Z 1M5, Canada
- 6) **The Evaluation of Biological Control Potential of *Ophiostoma novo-ulmi*, Causal Agent of “Dutch Elm Disease” by *Bacillus subtilis* In Vitro**
Mehrdad Ghodskhah Daryaei and **Shghaygh Zolghadry**, University of Guilan, Forestry Department, Somehe Sara, P.O. Box 1144; mehrdad_daryaei62@yahoo.com

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- 7) **Resistance to *Ophiostoma novo-ulmi* in *Ulmus carpinifolia* var. *umbraculifera*, *Ulmus glabra*, and *Ulmus parvifolia***
Mehrdad Ghodskhah Daryaei and **Shghaygh Zolghadry**, University of Guilan, Forestry Department, Somehe Sara, P.O. Box 1144; mehrdad_daryaei62@yahoo.com
- 8) **Investigation on “Dutch Elm Disease” in Some Forest Areas of Guilan Province**
Mehrdad Ghodskhah Daryaei, **Shghaygh Zolghadry**, and **Javad Torkaman**, University of Guilan, Forestry Department, Somehe Sara, P.O. Box 1144; mehrdad_daryaei62@yahoo.com
- 9) **A Survey on Histopathology of *Ulmus glabra* and *Ulmus carpinifolia* Inoculated by *Ophiostoma nova-ulmi* Fungus**
Mehrdad Ghodskhah Daryaei, **Shghaygh Zolghadry**, and **Javad Torkaman**, University of Guilan, Forestry Department, Somehe Sara, P.O. Box 1144; mehrdad_daryaei62@yahoo.com
- 10) **Operational Disease Screening Program for Resistance to Vascular Wilt in Hawaiian Koa**
Nick Dudley, Hawaii Agriculture Research Center, Forestry, Honolulu, HI; ndudley@harc-hspa.com; **Robert James**, Plant Disease Consulting Northwest, Vancouver, WA; **Richard Sniezko**, USDA Forest Service, Dorena Genetic Resource Center, Cottage Grove, OR; **Phil Cannon**, USDA Forest Service, Forest Health Protection, Vallejo, CA; and **Aileen Yeh**, **Tyler Jones** and **Michael Kaufmann**, Hawaii Agriculture Research Center, Forestry, Honolulu, HI
- 11) **A First Look at Genetic Variation in Resistance to the Root Pathogen *Phytophthora cinnamomi* Using a Range-Wide Collection of Pacific Madrone (*Arbutus menziesii*)**
Marianne Elliott, **Gary Chastagner**, and **Gil Dermott**, Washington State University, Research and Extension Center, 2606 West Pioneer, Puyallup, WA 98731; melliott@puyallup.wsu.edu; and **Richard Sniezko**, USDA Forest Service, Dorena Genetic Resource Center, 34963 Shoreview Road, Cottage Grove, OR 97424
- 12) **Range-Wide Genetic Variability in Pacific Madrone (*Arbutus menziesii*): Examining Disease Resistance, Growth, and Survival in a Common Garden Study**
Marianne Elliott, **Gary Chastagner**, and **Gil Dermott**, Washington State University, Research and Extension Center, 2606 West Pioneer, Puyallup, WA 98731; melliott@puyallup.wsu.edu; **Alan Kanaskie**, Oregon Department of Forestry, 2600 State Street, Salem, OR 97310; **Richard Sniezko**, USDA Forest Service, Dorena Genetic Resource Center, 34963 Shoreview Road, Cottage Grove, OR 97424; and **Jim Hamlin**, USDA Forest Service, Umpqua National Forest, 2900 NW Stewart Parkway, Roseburg, OR 97471.

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- 13) **Development of Screening Trials to Rank *Pinus radiata* Genotypes for Resistance to Defoliation by Monterey Pine Aphid (*Essigella californica*)**
Stephen Elms, HVP Plantations, P.O. Box 385 Churchill, Victoria, Australia 3842; selms@hvp.com.au; **Peter Ades**, University of Melbourne, Victoria, Australia 3010; and **Nick Collett**, DPI Victoria, Melbourne, Victoria, Australia
- 14) **Tree-Mediated Interactions between the Jack Pine Budworm and a Mountain Pine Beetle Fungal Associate**
Nadir Erbilgin, University of Alberta, Department of Renewable Resources, 4-42 ESB, Edmonton, Alberta, Canada T6G2E3; erbilgin@ualberta.ca; and **Jessie Colgan**, University of Alberta, Edmonton, Alberta, Canada
- 15) **The Chapter Breeding Program of the American Chestnut Foundation**
Sara Fitzsimmons, 206 Forest Resources Lab, Pennsylvania State University, University Park, PA 16802; **Kendra Gurney**, U.S. Forest Service Northern Research Station, 705 Spear St., South Burlington, VT 05403; **William White**, Department of Biology and Environmental Science, University of Tennessee - Chattanooga, 615 McCallie Ave., Chattanooga, TN 37403; and **Katy McCune**, Virginia Department of Forestry Central Office, 900 Natural Resources Dr., Charlottesville, VA 22903; Fred@acf.org
- 16) **Genetic Variation of Piperidine Alkaloids in *Pinus ponderosa* From a Common Garden**
Elizabeth A. Gerson, **Rick G. Kelsey**, and **J. Bradley St Clair**, USDA Forest Service, Pacific Northwest Research Station, 3200 SW Jefferson Way, Corvallis, OR 97331; rkelsey@fs.fed.us
- 17) **Gene Expression in the Tanoak-*Phytophthora ramorum* Interaction**
Katherine J. Hayden and **Matteo Garbelotto**, University of California, Berkeley, Environmental Science, Policy, and Management, 137 Mulford Hall, Berkeley, CA 94702; khayden@berkeley.edu; **Hardeep Rai**, Utah State University, Provo, UT; **Brian Knaus** and **Richard Cronn**, USDA Forest Service, Pacific Northwest Research Station, Corvallis, OR; and **Jessica W. Wright**, USDA Forest Service, Pacific Southwest Research Station, Davis, CA
- 18) **Blister Rust Resistance among 20 Families of Whitebark Pine, *Pinus albicaulis*, from Oregon and Washington—Early Results from an Artificial Inoculation Trial**
Angelia Kegley, **Richard A. Snieszko**, and **Robert Danchok**, USDA Forest Service, Dorena Genetic Resource Center, Cottage Grove, OR; akegley@fs.fed.us
- 19) **Interaction of an Invasive Bark Beetle with a Native Forest Pathogen: Range Expansion of Mountain Pine Beetle in Jack Pine Forests and Impact of Dwarf Mistletoe**
Jennifer Klutsch and **Nadir Erbilgin**, University of Alberta, Department of Renewable Resources, ESB 442, Edmonton, Alberta T6G 2E3; klutsch@ualberta.ca

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20) **Using Dutch Elm Disease-Tolerant Elm to Restore Floodplains Impacted by Emerald Ash Borer**

Kathleen S. Knight and **James M. Slavicek**, USDA Forest Service Northern Research Station, Delaware, OH; ksknight@fs.fed.us; **Karen Menard**, Metroparks of the Toledo Area, Toledo, OH; and **Terry Robison**, Cleveland Metroparks, Cleveland, OH

21) **Improvement Strategies for Disease Resistance in Forest Tree Species**

Paolo Raddi (Emeritus) and **Roberto Danti**, Institute of Plant Protection – C.N.R., Via Madonna del Piano 50019, Sesto fiorentino, FI, Italy; p.raddi@ipp.cnr.it

22) **Quantitative Trait Loci for Resistance to Two Fungal Pathogens in *Quercus robur***

Cécile Robin, **Amira Mougou-Hamdane**, **Jean-Marc Gion**, **Antoine Kremer**, and **Marie-Laure Desprez-Loustau**, INRA, UMR 1202 BIOGECO, INRA-Université Bordeaux 1, 69 route d'Arcachon, 33612 Cestas, France; robin@bordeaux.inra.fr

23) **The Italian Elm Breeding Program for Dutch Elm Disease Resistance**

Alberto Santini and **Francesco Pecori**, Institute of Plant Protection – C.N.R. Via Madonna del Piano, 10, 50019 Sesto fiorentino, Italy; a.santini@ipp.cnr.it; **Andrew Brookes**, University of Portsmouth, Portland Street, Portsmouth, PO1 3AH England, UK; and **Lorenzo Mittempergher** (Emeritus), Via Andrea di Bonaiuto, 14, 50143 Firenze, Italy

24) **Projecting Population Demography and Resistance Gene Frequencies in Pines in the Presence of White Pine Blister Rust: A Population Genetic Model for High-Elevation Five-Needle Pines**

A.W. Schoettle, USDA Forest Service, Rocky Mountain Research Station, 240 W Prospect Rd, Fort Collins, CO; aschoettle@fs.fed.us; **J.G. Klutsch**, Department of Agricultural and Resource Economics, Colorado State University, Fort Collins, CO and USDA Forest Service, Rocky Mountain Research Station, Fort Collins, CO; **M.F. Antolin**, Department of Biology, Colorado State University, Fort Collins, CO; and **S. Field**, Department of Biology, Colorado State University, Fort Collins, CO

25) **Patterns of Resistance to *Cronartium ribicola* in *Pinus aristata*, Rocky Mountain Bristlecone Pine**

A. W. Schoettle, USDA Forest Service, Rocky Mountain Research Station, Ft Collins, CO; aschoettle@fs.fed.us; **R. A. Sniezko**, **A. Kegley**, and **R. Danchok**, USDA Forest Service, Dorena Genetic Resource Center, Cottage Grove, OR; and **K.S. Burns**, USDA Forest Service, Forest Health Management, Lakewood, CO

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- 26) **Development of Methods for the Restoration of the American Elm in Forested Landscapes**
James M. Slavicek, USDA Forest Service, Forestry Sciences Laboratory, 359 Main Road, Delaware, OH 43015; jslavicek@fs.fed.us
- 27) **Generation of American Elm Trees with Tolerance to Dutch Elm Disease through Controlled Crosses and Selection**
James M Slavicek, USDA Forest Service, Forestry Sciences Laboratory, 359 Main Road, Delaware, OH 43015; jslavicek@fs.fed.us
- 28) **Nine Year Survival of 16 *Phytophthora lateralis* Resistant and Susceptible Port-Orford-Cedar Families in a Southern Oregon Field Trial**
Richard A. Sniezko, USDA Forest Service, Dorena Genetic Resource Center, Cottage Grove, OR; rsniezko@fs.fed.us; **Jim Hamlin**, USDA Forest Service, Umpqua National Forest, Roseburg, OR; **Everett M. Hansen**, Department of Botany & Plant Pathology, Oregon State University, Corvallis, OR; and **Sunny Lucas**, USDA Forest Service, Dorena Genetic Resource Center, Cottage Grove, OR
- 29) **White Pine Blister Rust Resistance of 12 Western White Pine Families at Four Field Sites in the Pacific Northwest**
Richard A. Sniezko, **Angelia Kegley**, **Robert Danchok**, **Sally Long**, and **James Mayo**, USDA Forest Service, Dorena Genetic Resource Center, Cottage Grove, OR; rsniezko@fs.fed.us; and **Jim Hamlin**, Umpqua National Forest, Roseburg, OR
- 30) **Hypersensitivity Reactions in Five Needle Pines in Response to Infection by *Cronartium ribicola***
Katarina Sweeney and **Jeffrey Stone**, Department of Botany and Plant Pathology, Oregon State University, Corvallis, OR 97331; stonej@science.oregonstate.edu; **Richard Sniezko** and **Angelia Kegley**, USDA Forest Service, Dorena Genetic Resource Center, Cottage Grove, OR 97424; and **Anna Schoettle**, USDA Forest Service Rocky Mountain Research Center, Fort Collins, CO 80526
- 31) **Occurrence of *Phytophthora cryptogea* on Rhizosphere of *Cupressus sempervirens* cv "Bolgheri" in Central Italy**
A. M. Vettrano, University of Tuscia, DIPROP, via S. Camillo de Lellis, snc, 01100 Viterbo, Italy; and **R. Danti**, **A. Pecchioli**, and **G. Della Rocca**, Istituto per la Protezione delle Piante IPP-CNR, Via Madonna del Piano 10, I-50019 Sesto F.no (FI), Italy; g.dellarocca@ipp.cnr.it
- 32) **Resistance in Nature Systems to Brown-Spot Needle Blight of Pine in China**
Jianren Ye and **Xiaoqin Wu**, Forest Pathology, Nanjing Forestry University, Nanjing, China; jrye@njfu.com.cn

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- 33) **The Potential of Breeding for Enhanced Inducibility in *Pinus pinaster* and *Pinus radiata***
Rafael Zas, Misión Biológica de Galicia, CSIC, Apdo. 28, 36080 Pontevedra, Spain;
Alejandro Solla, Universidad de Extremadura, Virgen del Puerto 2, 10600 Plasencia,
Spain; and **Xoaquín Moreira** and **Luis Sampedro**, Centro de Investigación Forestal de
Lourizán, Apdo 127, 36080 Pontevedra, Spain; lsampe@uvigo.es
- 34) **Needle Terpenoid Composition of *Pinus halepensis* (Mill.) Trees Infested by Scale
Insect *Marchalina hellenica* (Genn.) in Southern Attica Region, Greece**
Athanasios Gallis, Ministry of Education LLL and Religious Affairs/Public Institute for
Vocational Education and Training, Terma Leonardopoulou, Kilkis, GR-61100, Central
Macedonia region, Greece; tgallis@hotmail.com; **Carlos Arrabal**, Departamento
de Ingeniería Forestal, ETSI Montes, Universidad Polytechnica de Madrid, Ciudad
Universitaria, Madrid, Spain; **Aristotelis Papageorgiou**, Department of Forestry,
Environment and Natural Resources, Democritus University of Thrace, N. Orestiada,
Greece; and **Maria C. Garcia-Vallejo**, Departamento de Industrias Forestales, INIACIFOR,
Apartado 8111, 28080, Madrid, Spain
- 35) **Developing clones of *Eucalyptus cloeziana* resistant to rust (*Puccinia psidii*).**
Rafael F. Alfenas^{1,3}, Marcelo M. Coutinho², Camila S. Freitas³, Rodrigo G. Freitas³, and
Acelino C. Alfenas³
- 36) **Breeding for resistance to adelgids in *Abies fraseri*, *Tsuga canadensis*, and *T.*
caroliniana ****
Ben Smith
- 37) **Testing resistance to chestnut blight of hybrid chestnuts.**
Cécile Robin¹, robin@bordeaux.inra.fr, **Xavier Capdevielle**¹, **Gilles Saint-Jean**¹,
Teresa Barreneche²