

LIST OF PHD THESES IN FOREST GENETICS AND RELATED FIELDS – PART 8 (1999–2002)

The Publisher and the Editorial Board have decided to publish annually in the last issue of the current volume a list of PhD theses defended in the current year. In this issue the sixth part of the list of theses defended in 1999–2002 is published. Announcing the information on defended theses missing in this list and of further theses and sending their copies (if available) to the Editor-in-Chief would be very much appreciated.

- BALIUCKAS, V. 2002: Life history traits and broadleaved tree genetics. *Acta Universitatis Agriculturae Sueciae. Silvestria* 258, 35+69 pp. ISSN 1401-6230, ISBN 91-576-6342-4.
- BENDIXEN, K. 2001: Reproduktionssysteme des Feldahorns (*Acer campestre* L.). Blühphänologie und genetische Untersuchungen. [Reproductive systems of field maple (*Acer campestre* L.). Flowering phenology and genetic investigations]. Georg-August Universität Göttingen, Fakultät für Fortwissenschaften, (supervisor H. H. Hattemer), 165 pp. <http://webdoc.sub.gwdg.de/diss/2001/bendixen/bendixen.pdf>. [in German with English summary].
- BILIR, N. 2002: Primary results of provenance trials established in eastern Black Sea region on Taurus cedar (*Cedrus libani* A. Rich.). Graduate School of Natural and Applied Science, Karadeniz Technical University, 98 pp.
- BITTKAU, CH. 2002: Charakterisierung der genetischen Variation europäischer Populationen von *Acer* spp. Und *Populus tremula* auf der Basis der Chloroplasten-DNA: Rückschlüsse auf die postglaziale Ausbreitung und Differenzierung forstlicher Provenienzen. [Characterisation of the genetic variation of European populations of *Acer* spp. and *Populus tremula* based on chloroplast DNA> inferences on post-glacial remigration routes and differentiation among forest provenances]. Technical University of Munich, Center of Life and Food Sciences, Section of Forest Genetics, Freising. (supervisor G. Müller-Starck), 125 pp + 5 papers.
- BUSOV, V. B. 2001: Auxin-induced gene expression in loblolly pine (*Pinus taeda* L.). North Carolina State University, 190 pp; (supervisors B. Goldfarb and S. L. Spiker).
- BYRAM, T. D. 2000: Simulation of marker assisted breeding in an applied tree improvement project: A case study based on the Western Gulf Forest Tree Improvement Program. Texas A and M University, 140 pp; (supervisor W. J. Lowe).
- DEGUILLoux, M. F. 2002: Molecular methods for traceability of oak wood. INRA Bordeaux-Cestas, Laboratoire de Génétique et d'Amélioration des arbres forestiers, 69 Route d'Arcachon, F-33612 Cestas, France. 153 pp. (including 5 publications). [In French, publications in English]. (Supervisor: Rémy Petit).
- DI FAZIO, S. P. 2002: Measuring and modeling gene flow from hybrid poplar plantations: Implications for transgenic risk assessment. Oregon State University, 230 pp; Supervisor S. J. Strauss).
- DUBOS, CH. 2002: Molecular response of maritime pine seedlings submitted to water stress. INRA Bordeaux-Cestas, Laboratoire de Génétique et d'Amélioration des arbres forestiers, 69 Route d'Arcachon, F-33612 Cestas, France. 202 pp. (including 4 publications). [In French, publications in English]. (supervisor Christophe Plomion).
- FERNANDEZ-MANJARRES, J. F. 2002: Genetic diversity and mating system in a fragmented population of the Andean oak *Quercus humboldtii* Bonpl. (*Fagaceae*) (Colombia). University of Missouri – Saint Louis, 135 pp; (supervisor V. L. Sork).
- FROMM, M. 2001: Reproduktion einer entomophilen Baumart in gringer Populationsdichte – Das Beispiel der Winterlinde (*Tilia cordata* Mill.). [Reproduction of an entomophilous tree species in low density – small-leaved linden (*Tilia cordata* L.) as an example]. Georg-August Universität Göttingen, Fakultät für Fortwissenschaften, (supervisor H. H. Hattemer), 263 pp. <http://webdoc.sub.gwdg.de/diss/2001/fromm/fromm.pdf>. [in German with English summary].
- GRIVET, D. 2002: Phylogeography and comparative molecular evolution of forest trees based on chloroplast DNA markers. INRA Bordeaux-Cestas, Laboratoire de Génétique et d'Amélioration des arbres forestiers, 69 Route d'Arcachon, F-33612 Cestas, France. 173 pp. (including 4 publications). [In French, publications in English]. (supervisor: Rémy Petit).
- GUZICKA, M. 2002: [Anatomical and cytological changes in the vegetative embryonic shoot of Norway spruce during spring activation]. Institute of Dendrology, Polish Academy of Sciences, Kornik (supervisor A. Woźny), 89 pp + 126 figs. [in Polish with English summary].
- HERTZBERG, M. 2001: A functional genomics approach to wood development. Swedish University of Agricultural Sciences, Umeå, *Silvestria* 173).
- IVKOVICH, M. 2001: Breeding for improvement of tracheid characteristics in interior spruce. The University of British Columbia – Canada, 182 pp; (supervisor G. Namkoong).
- KARHU, A. 2001: Evolution and applications of pine microsatellites. University of Oulu. *Acta Universitatis Ouluensis A, Scientiae Rerum Naturalium* 357. 52 pp. + 4 original papers. (supervisor O. Savolainen).
- KOPP, R. F. 2000: Genetic improvement of *Salix* using traditional breeding and AFLP fingerprinting. State University of New York – College of Environmental Science and Forestry, 175 pp; (supervisors L. P. Abrahamson and L. B. Smart).
- KOWNATZKI, D. 2002: Asexuelle und sexuelle Reproduktion bei der Vogelkirsche (*Prunus avium* L.). [Asexual and sexual reproduction in populations of wild cherry (*Prunus avium* L.)]. Georg-August Universität Göttingen, Fakultät für Fortwissenschaften, (supervisor H. H. Hattemer), 122 pp., <http://webdoc.sub.gwdg.de/diss/2002/kownatzki/vokirdis.pdf>. [in German with English

- summary].
- KRYSTUFEK, V. 2001: Population genetic analysis of *Populus nigra* in Austria using nuclear and chloroplast DNA markers. University of Vienna, Vienna, 150 pp.
- MARIETTE, S. 2001: Assessment of intra- and interpopulation genetic diversity: impact of the sampling strategy within the genome and choice of markers. Experimental results in oaks (*Quercus petraea* and *Q. robur*) and pines (*Pinus pinaster*). INRA Bordeaux-Cestas, Laboratoire de Génétique et d'Amélioration des arbres forestiers, 69 Route d'Arcachon, F-33612 Cestas, France. 84 pp. (+ 6 publications). [In French, publications in English]. (supervisor: Antoine Kremer)
- MYBURG, A. A. 2001: Genetic architecture of hybrid fitness and wood quality traits in a wide interspecific cross of *Eucalyptus* tree species. North Carolina State University, 228 pp; (supervisors R. W. Whetten and R. R. Sederoff).
- NAVARRO PEREIRA, C. 2002: Genetic resources of *Cedrela odorata* L. and their efficient use in Mesoamerica. University of Helsinki, Faculty of Agriculture and Forestry, Department of Applied Biology. 112 pp. Supervisors P.M.A. Tigerstedt & P. Pulkkinen.
- NIEMI, K. 2002: Ectomycorrhizal fungi and exogenous growth regulators in vegetative propagation of Scots pine (*Pinus sylvestris* (L.)). Kuopio University Publications. Natural and Environmental Sciences, **134**, 49 pp. Supervisors H. Häggman & H. Heinonen-Tanski.
- NIKKANEN, T. 2002: Functioning of a Norway spruce (*Picea abies* (L.) Karst.) seed orchard. Finnish Forest Research Institute, Research Papers **850**, 58 pp + 76 pp (7 papers). Supervisor. P. Pulkkinen. ISBN 951-40-1820-3, ISSN 0358-4283.
- PECHTER, P. 2001: Characterization of transgenic aspen (*Populus tremuloides* Michx.) harboring a homologous cinnamate 4-hydroxylase (C4H) transgene and analysis of two aspen 4-coumarate: CoA ligase (4CL) gene promoters. Michigan Technological University, 106 pp; (supervisor Ch. J. Tsai).
- RIBEIRO, M. M. 2001: Genetics of *Pinus pinaster* Aiton with cytoplasmic and nuclear markers. Swedish University of Agricultural Sciences, Umeå, Silvestria 177; (supervisor A. Szmidt).
- RUOTSALAINEN, S. 2002: Managing breeding stock in the initiation of a long-term tree breeding program. Finnish Forest Research Institute, Research Papers **875**, 95 pp. + 61 pp. (4 papers). Supervisor: D. Lindgren ISBN 951-40-1860-5, ISSN 0358-4283.
- SALEHI-SHANJANI, P. 2002: Genetic diversity of *Fagus orientalis* Lipsky and its relationship with some physiological, biochemical and morphological characteristics in Iran. Research Institute of Forests and Rangelands, Teheran (supervisors R. A. Khavari-Nejad, K. Sagheb-Talebi, L. Paule & R. Giannini), 210 pp. (Farsi version), 151 pp. (English version).
- SMETS, P. R. G. M. 2001: Genetic variation for resource use efficiencies in lodgepole pine. The University of British Columbia – Canada, 132 pp; (supervisor G. Namkoong).
- STIRLING, B. V. 2001: Molecular characterization of major gene resistance in a *Populus*-leaf rust pathosystem. University of Washington, 139 pp; (supervisor H. D. Bradshaw (Toby)).
- SUN, S. 2001: Detecting major genes for growth rate with RAPD markers using a diallel cross of loblolly pine. North Carolina State University, 125 pp; (supervisors B. H. Liu and R. Sederoff.)
- ŠUNDERLÍKOVÁ, V. 2002: Molecular aspects of oak somatic embryo maturation. Institute of Plant Genetic and Biotechnologies of the Slovak Academy of Sciences, Nitra, xxx pp. Supervisors M. G. Ostrolúcká, E. Wilhelm & J. Salaj).
- WANG, Y. S. 2002: Isolation and characterization of cDNAs involved in vascular development of quaking aspen (*Populus tremuloides*). Michigan Technological University, 195 pp; (supervisor Ch. J. Tsai).
- WOO, K. S. 2000: Variation in needle morphology of blister rust-susceptible and resistant western white pine (*Pinus monticola*, *Cronartium ribicola*). University of Idaho, 161 pp; (supervisor L. Fins).
- TANG, X. 2002: Breeding in sea buckthorn (*Hippophae rhamnoides*) genetics of berry yield, quality and plant cold hardiness. University of Helsinki, Faculty of Agriculture and Forestry, Department of Applied Biology. 48 + 57 pp (original papers). Supervisors P.M.A. Tigerstedt & P. Pulkkinen.
- VELIKORIDKO, T. I., 2002: Tolerance and structural and population variation of *Pinus sylvestris* L. under industrially polluted conditions of the Ukrainian South-East. National Botanical Garden of the National Academy of Sciences of Ukraine, Kiev (supervisor I. I. Korshikov), 182 pp. [in Ukrainian].
- VENÄLÄINEN, M. 2002: Decay resistance of heartwood timber as a quality characteristic in Scots pine breeding. Metsäntutkimuslaitoksen tiedonantoja 880. Finnish Forest Research Institute, Research Papers 880. Punkaharjun tutkimusasema, Punkaharju Research Station. 53 pp. + 6 original papers. Supervisors A. Harju & H. Viitanen
- XIAO, Y. 2000: Crown structure, growth performance, nutritional characteristics, and their genetic parameter estimates in juvenile loblolly and slash pine. University of Florida, 221pp; (supervisor E. J. Jokela).
- YU, Q. 2001: Selection and propagation of hybrid aspen clones for growth and fibre quality. University of Helsinki, Faculty of Agriculture and Forestry, Department of Applied Biology. 41 + 54 pp. (original papers). Supervisors P.M.A. Tigerstedt & P. Pulkkinen.
- ZENG, W. 2000: Statistical methods for detecting major genes of quantitative traits using phenotypic data of a diallel mating. North Carolina State University, 145 pp; (supervisors B. Li and Z. B. Zeng).

ACKNOWLEDGMENTS

Except the authors themselves, thanks are due to Prof. Raffaello Giannini, Dr. I. I. Korshikov, Prof. Gerhard Müller-Starck, Prof. Dag Lindgren and Dr. Bailian Li for providing the information on relevant Ph.D. theses.

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