

Publications from the Swedish Hylobius Research Program (1997 – 2010)

International publications

- Björklund, N. 2008. Cues for shelter use in a phytophagous insect. *Journal of Insect Behavior* 21: 9-23.
- Björklund, N. 2009. Non-destructive tree trunk funnel trap for capturing *Hylobius warreni* (Coleoptera: Curculionidae) ascending stems of trees. *The Canadian Entomologist* 141: 422-424.
- Björklund, N., Nordlander, G. & Bylund, H. 2003. Host-plant acceptance on mineral soil and humus by the pine weevil *Hylobius abietis* (L.). *Agricultural and Forest Entomology* 5: 61-65.
- Björklund, N., Nordlander, G. & Bylund H. 2005. Olfactory and visual stimuli used in orientation to conifer seedlings by the pine weevil, *Hylobius abietis*. *Physiological Entomology* 30: 225-231.
- Bohman, B., Nordlander, G., Nordenhem, H., Sunnerheim, K., Borg-Karlson, A.-K., & Unelius, C. R. 2008. Structure–activity relationships of phenylpropanoids as antifeedants for the pine weevil *Hylobius abietis*. *Journal of Chemical Ecology* 34: 339-352.
- Borg-Karlson, A.-K., Nordlander, G., Mudalige, A., Nordenhem, H. & Unelius, C. R. 2006. Antifeedants in the feces of the pine weevil *Hylobius abietis*: Identification and biological activity. *Journal of Chemical Ecology* 32: 943-957.
- Bratt, K., Sunnerheim, K., Nordenhem, H., Nordlander, G. & Långström, B. 2001. Pine weevil (*Hylobius abietis*) antifeedants from lodgepole pine (*Pinus contorta*). *Journal of Chemical Ecology* 27: 2253-2262.
- Bylund, H., Nordlander, G. & Nordenhem H. 2004. Feeding and oviposition rates in the pine weevil *Hylobius abietis* (Coleoptera: Curculionidae). *Bulletin of Entomological Research* 94: 307-317.
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- Day, K. R., Nordlander, G., Kenis, M. & Halldórson, G. 2004. General biology and life cycles of bark weevils. Chapter 14 (pp. 331-349), *in*: Lieutier, F., Day, K. R., Battisti, A. Grégoire, J.-C. & Evans, H. F. (eds.). *Bark and wood boring insects in living trees in Europe, a synthesis*. Kluwer Academic Publishers, Dordrecht.

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- Johansson, K., Örlander, G. & Nilsson, U. 2006. Effects of mulching and insecticides on establishment and growth of Norway spruce. *Canadian Journal of Forest Research* 36: 2377-2385.
- Kännaste, A., Nordenhem, H., Nordlander, G. & Borg-Karlson, A.-K. 2009. Volatiles from a mite-infested spruce clone and their effects on pine weevil behavior. *Journal of Chemical Ecology* 35: 1262-1271.
- Kindvall, O., Nordlander, G. & Nordenhem, H. 2000. Movement behaviour of the pine weevil *Hylobius abietis* in relation to soil type: an arena experiment. *Entomologia Experimentalis et Applicata* 95: 53-61.
- Klingenberg, M.D., Björklund, N. & Aukema, B.H. 2010. Seeing the forest through the trees: differential dispersal of *Hylobius warreni* Wood within modified forest habitats. *Environmental Entomology* 39: 898-906.
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- Långström, B. & Day, K. R. 2004. Damage, control and management of weevil pests, especially *Hylobius abietis*. Chapter 19 (pp. 415-444), *in*: Lieutier, F., Day, K.R., Battisti, A., Grégoire, J.-C. & Evans, H.F. (eds.). *Bark and wood boring insects in living trees in Europe, a synthesis*. Kluwer Academic Publishers, Dordrecht.
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- Nordlander, G., Bylund, H., Örlander, G. & Wallertz, K. 2003. Pine weevil population density and damage to coniferous seedlings in a regeneration area with and without shelterwood. *Scandinavian Journal of Forest Research* 18: 438-448.
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- Unelius, C. R., Nordlander, G., Nordenhem, H., Hellqvist, C., Legrand, S. & Borg-Karlson, A.-K. 2006. Structure–activity relationships of benzoic acid derivatives as antifeedants for the pine weevil, *Hylobius abietis*. *Journal of Chemical Ecology* 32: 2191-2203.
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- Wallertz, K., Örlander, G. & Luoranen, J. 2005. Damage by pine weevil *Hylobius abietis* to conifer seedlings after shelterwood removal. *Scandinavian Journal of Forest Research* 20: 412-420.
- Wallertz, K., Nordlander, G. & Örlander, G. 2006. Feeding on roots in the humus layer by adult pine weevil, *Hylobius abietis*. *Agricultural and Forest Entomology* 8: 273-279.

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- Björklund, N. 2004. Movement Behaviour and Resource Tracking in the Pine Weevil *Hylobius abietis*. Doctoral thesis, Swedish University of Agricultural Sciences. Acta Universitatis Agriculturae Sueciae, Silvestria 302. ISSN 1401-6230.
- Petersson, M. 2004. Regeneration Methods to Reduce Damage by Pine Weevil to Conifer Seedlings. Doctoral thesis, Swedish University of Agricultural Sciences. Acta Universitatis Agriculturae Sueciae, Silvestria 330. ISSN 1401-6230.
- Wallertz, K. 2009. Pine weevil feeding in Scots pine and Norway spruce regenerations. Doctoral thesis, Swedish University of Agricultural Sciences. Acta Universitatis Agriculturae Sueciae No. 2009: 60. ISSN 1562-6880.

Licentiate thesis

- Wallertz, K. 2005. Pine weevil *Hylobius abietis* feeding in shelterwood systems. Licentiate thesis, Swedish University of Agricultural Sciences, Alnarp, Sweden. ISBN 91-576-6875-2.

Conference abstracts

- Björklund, N. 2006. Sensory cues for shelter use. P. 139 in: Proceedings IUFRO Kanazawa 2003 International Symposium "Forest Insect Population Dynamics and host Influences". Kanazawa University, Japan, 176 pp.
- Bylund, H., Nordenhem, H. & Nordlander, G. 2006. Is the parasitoid *Perilitus areolaris* a significant mortality factor for adult pine weevils? P. 144 in: Proceedings IUFRO Kanazawa 2003 International Symposium "Forest Insect Population Dynamics and host Influences". Kanazawa University, Japan, 176 pp.
- Bylund, H., Petersson, M. & Nordlander, G. 2007. Is the pine weevil population density limited by the amount of breeding resources? (Abstract, 1 p.) Programme IUFRO Wien 2007 Symposium "Natural enemies and other multi-scale influences on forest insects". University of Natural Resources and Applied Life Sciences, BOKU-Vienna, Austria.
- Nordlander, G. 2007. Reproduction of *Hylobius abietis* in roots of storm-felled trees: Quality determines resource availability. (Abstract of poster, 1 p.) Programme IUFRO Wien 2007 Symposium "Natural enemies and other multi-scale influences on forest insects". University of Natural Resources and Applied Life Sciences, BOKU-Vienna, Austria.
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Patents

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