

Internationella publikationer om snytbaggen av svenska forskare (från 1980)

International publications since 1980 on Hylobius abietis by Swedish authors

- Azeem, M., Rajarao, G. K., Nordenhem, H., Nordlander, G. & Borg-Karlson, A. K. 2013. *Penicillium expansum* volatiles reduce pine weevil attraction to host plants. *Journal of Chemical Ecology* 39: 120-128.
<http://dx.doi.org/10.1007/s10886-012-0232-5>
- Azeem, M., Rajarao, G. K., Terenius, O., Nordlander, G., Nordenhem, H., Nagahama, K., Norin, E., & Borg-Karlson, A. K. 2015. A fungal metabolite masks the host plant odor for the pine weevil (*Hylobius abietis*). *Fungal Ecology* 13: 103-111.
<http://dx.doi.org/10.1016/j.funeco.2014.08.009>
- Azeem, M., Terenius, O., Rajarao, G. K., Nagahama, K., Nordenhem, H., Nordlander, G. & Borg-Karlson, A.-K. 2015. Chemodiversity and biodiversity of fungi associated with the pine weevil *Hylobius abietis*. *Fungal Biology* 119: 738-746.
<http://dx.doi.org/10.1016/j.funbio.2015.04.008>
- Berasategui, A., Axelsson, K., Nordlander, G., Schmidt, A., Borg-Karlson, A.-K., Gershenzon, J., Terenius O. & Kaltenpoth, M. 2016. The gut microbiota of the pine weevil is similar across Europe and resembles that of other conifer-feeding beetles. *Molecular Ecology* 25: 4014-4031. <http://dx.doi.org/10.1111/mec.13702>
- Berglund, T., Lindström, A. Aghelpasand, H., Stattin, E. & Ohlsson, A. B. 2016. Protection of spruce seedlings against pine weevil attacks by treatment of seeds or seedlings with nicotinamide, nicotonic acid and jasmonic acid. *Forestry* 89: 127-135. <http://dx.doi.org/10.1093/forestry/cpv040>
- Björklund, N. 2008. Cues for shelter use in a phytophagous insect. *Journal of Insect Behavior* 21: 9-23.
- 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.
- Björkman, C., Bylund, H., Nilsson, U., Nordlander, G. & Schroeder, L. M. 2015. Forest management to mitigate insect damage in a changing climate. Pp. 248-266 *in*: Björkman, C. & Niemelä, P. (eds.) *Climate Change and Insect Pests*. CABI, UK, ix + 266 pp. ISBN-13: 978 1 78064 378 6.
<http://www.cabi.org/cabebooks/ebook/20153325832>
- Blennov, K. & Sallnäs, O. 2002. Risk perception among non-industrial private forest owners. *Scandinavian Journal of Forest Research* 17: 472-479.
- 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.
- Danielsson, M., Kännaste, A., Lindström, A., Hellqvist, C., Stattin, E., Långström, B. & Borg-Karlson, A.-K. 2008. Mini-seedlings of *Picea abies* are less attacked by *Hylobius abietis* than conventional ones: Is plant chemistry the explanation? *Scandinavian Journal of Forest Research* 23: 299-306.
- Day, K. R., Nordlander, G., Kenis, M. & Halldórsson, 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.
- Eidmann, H. H. 1997. Assessment of pine weevil numbers on clear-cut and forest sites with shelter boards and pitfall traps. *Anzeiger für Schädlingskunde, Pflanzenschutz und Umweltschutz* 70: 68-72.
- Eidmann, H. H. & Lindelöw, Å. 1997. Estimates and measurements of pine weevil feeding on conifer seedlings: their relationships and application. *Canadian Journal of Forest Research* 27: 1068-1073.
- Eidmann, H. H. & von Sydow, F. 1989. Stockings for protection of containerized conifer seedlings against pine weevil (*Hylobius abietis* L.) damage. *Scandinavian Journal of Forest Research* 4: 537-547.
- Eidmann, H. H., Nordenhem, H. and Weslien, J. 1996. Physical protection of conifer seedlings against pine weevil feeding. *Scandinavian Journal of Forest Research* 11: 68-75.
- Ericsson, A., Gref, R., Hellqvist, C. & Långström, B. 1988. Wound response of living bark of Scots Pine seedlings and its influence on feeding by the weevil, *Hylobius abietis*. *In*: Mattson, J. W., Levieux, J., and Bernard-Dagan, C.(eds), *Mechanisms of woody plant defenses against insects*. Springer-Verlag Berlin.
- Eriksson, C., Månsson, P. E., Sjödin, K. & Schlyter, F. 2008. Antifeedants and feeding stimulants in bark extracts of ten woody non-host species of the pine weevil, *Hylobius abietis*. *Journal of Chemical Ecology* 34: 1290-1297.
- Fedderwitz, F., Björklund, N., Ninkovic, V. & Nordlander, G. 2014. Diel behaviour and time budget of the adult pine weevil, *Hylobius abietis*. *Physiological Entomology* 39: 103-110. <http://dx.doi.org/10.1111/phen.12053>
- Fedderwitz, F., Björklund, N., Ninkovic, V. & Nordlander, G. 2015. The structure of feeding behavior in a phytophagous insect (*Hylobius abietis*). *Entomologia Experimentalis et Applicata* 155: 229-239. <http://dx.doi.org/10.1111/eea.12302>

- Fedderwitz, F., Nordlander, G., Ninkovic, V. & Björklund, N. 2016. Effects of jasmonate-induced resistance of conifer plants on the feeding behaviour of a bark-chewing insect, *Hylobius abietis*. *Journal of Pest Science* 89: 97-105. <http://dx.doi.org/10.1007/s10340-015-0684-9>
- Gerdin, S. & Hedqvist, K.-J. 1985. *Perilitus areolis* sp. n. (Hymenoptera: Braconidae), an imago-parasitoid of the large pine weevil, *Hylobius abietis* (Linneus), and its reproductive behaviour. *Entomologica Scandinavica* 15: 363-369.
- Hagner, M. & Jonsson, C. 1995. Survival after planting without soil preparation for pine and spruce seedlings protected from *Hylobius abietis* by physical and chemical shelters. *Scandinavian Journal of Forest Research* 10: 225-234.
- Hannertz, M., Thorsén, Å., Mattsson, S. & Weslien, J. 2002. Pine weevil (*Hylobius abietis*) damage to cuttings and seedlings of Norway spruce. *Forest Ecology and Management* 160: 11-17.
- Hjältén, J., Gibb, H. & Ball, J. P. 2010. How will low-intensity burning after clear-felling affect mid-boreal insect assemblages? *Basic and Applied Biology* 11: 363-372.
- 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.
- 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.
- Klapwijk, M., Bylund, H., Schroeder, M. & Björkman, C. 2016. Forest management and natural biocontrol of insect pests. *Forestry* 89: 253-262.
- Klepzig, K.D. & Schlyter, F. 1999. Laboratory evaluation of plant-derived antifeedants against the pine weevil *Hylobius abietis* (Coleoptera:Curculionidae). *Journal of Economic Entomology* 92: 644-650.
- Kännaste, A., Vongvanich, N. & Borg-Karlson, A.-K. 2008. Infestation by a *Nalepella* species induces emissions of α - and β -farnesenes, (-)-linalool and aromatic compounds in Norway spruce clones of different susceptibility to the large pine weevil. *Arthropod-Plant Interactions* 2: 31-41.
- 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.
- Kännaste, A., Zhao, T., Lindström, A., Stattin, E., Långström, B. & Borg-Karlson, A.-K. 2013. Odors of Norway spruce (*Picea abies* L.) seedlings: differences due to chemotype. *Trees* 27: 149-159..
- Legrand, S., Nordlander, G., Nordenhem, H., Borg-Karlson, A.-K. & Unelius, C. R. 2004. Hydroxy-methoxybenzoic methyl esters: synthesis and antifeedant activity on the pine weevil, *Hylobius abietis*. *Zeitschrift für Naturforschung* 59b: 829-835.
- Lekander, B., Eidmann, H. H., Bejer, B. & Kangas, E. 1985. Time of oviposition and its influence on the development of *Hylobius abietis* (L.) (Col., Curculionidae). *Zeitschrift für Angewandte Entomologie* 100: 417-421.

- Lieutier, F., Day, K. R., Evans, H. F. & Långström, B. 2004. General conclusions and research priorities for BAWBILT organisms in Europe. Chapter 23 (pp.541-552), *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.
- Lindelöw, Å., Eidmann, H. H. & Nordenhem, H. 1993. Response on the ground of bark beetle and weevil species colonizing conifer stumps and roots to terpenes and ethanol. *Journal of Chemical Ecology* 19: 1393-1403.
- Lindgren, B. S., Nordlander, G. & Birgersson, G. 1996. Feeding deterrence of verbenone to the pine weevil, *Hylobius abietis* (L.) (Col., Curculionidae). *Journal of Applied Entomology* 120: 397-403.
- Lindström, A., Hellqvist, C., Gyldberg, B., Långström, B. & Mattsson, A. 1986. Field performance of a protective collar against damage by *Hylobius abietis*. *Scandinavian Journal of Forest Research* 1: 3-15.
- Lundborg, L., Fedderwitz, F., Björklund, N., Nordlander, G. & Borg-Karlson, A.-K. & 2016. Induced defenses change the chemical composition of pine seedlings and influence meal properties of the pine weevil *Hylobius abietis*. *Phytochemistry* 130: 99-105. <http://dx.doi.org/10.1016/j.phytochem.2016.06.002>
- Lundborg, L., Nordlander, G., Björklund, N., Nordenhem, H. & Borg-Karlson, A.-K. 2016. Methyl jasmonate induced monoterpenes in Scots pine and Norway spruce tissues affect pine weevil orientation. *Journal of Chemical Ecology* 42: 1237-1246. <http://link.springer.com/article/10.1007%2Fs10886-016-0790-z>
- Långström, B. 1982. Abundance and seasonal activity of adult *Hylobius*-weevils in reforestation areas during first years following final felling. *Communicationes Instituti Forestalis Fenniae* 106, pp. 23.
- 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.
- Löf, M. 2000. Influence of patch scarification and insect herbivory on growth and survival in *Fagus sylvatica* L., *Picea abies* L. Karst and *Quercus robur* L. seedlings following a Norway spruce forest. *Forest Ecology and Management* 134: 111-123.
- Löf, M., Isacson, G., Rydberg, D. & Welander, T. N. 2004. Herbivory of the pine weevil (*Hylobius abietis* L.) and short snouted weevils (*Strophosoma melanogrammum* Forst. and *Otiorhynchus scaber* L.) during conversion of wind-thrown Norway spruce forest into a mixed-species plantation. *Forest Ecology and Management* 190: 281-290.
- Löf, M., Paulsson, R., Rydberg, D. & Welander, N. T. 2005. The influence of different overstory removal on planted spruce and several broadleaved tree species: Survival, growth and pine weevil damage during three years. *Annals of Forest Science* 62: 237-244.
- Maňák, V., Nordenhem, H., Björklund, N., Lenoir, L. & Nordlander, G. 2013. Ants protect conifer seedlings from feeding damage by the pine weevil *Hylobius abietis*. *Agricultural and Forest Entomology* 15: 98-105. <http://dx.doi.org/10.1111/j.1461-9563.2012.00597.x>

- Maňák, V., Björklund, N., Lenoir, L. & Nordlander, G. 2015. The effect of red wood ant abundance on feeding damage by the pine weevil *Hylobius abietis*. *Agricultural and Forest Entomology* 17: 57-63. <http://dx.doi.org/10.1111/afe.12080>
- Maňák, V., Björklund, N., Lenoir, L., Knape, J. & Nordlander, G. 2016. Behavioural responses of pine weevils to non-consumptive interactions with red wood ants. *Journal of Zoology* 299: 10-16. <http://onlinelibrary.wiley.com/doi/10.1111/jzo.12321/abstract>
- Maňák, V., Björklund, N., Lenoir, L., & Nordlander, G. 2017. Testing associational resistance against pine weevils mediated by *Lasius* ants attending conifer seedlings. *Journal of Applied Entomology* [Published online 27 June 2016] <http://dx.doi.org/10.1111/jen.12345>
- Månsson, P. E. & Schlyter, F. 2004. *Hylobius* pine weevils adult host selection and antifeedants: feeding behaviour on host and non-host woody scandinavian plants. *Agricultural and Forest Entomology* 6: 165-171.
- Månsson, P. E., Eriksson, C. & Sjödin, K. 2005. Antifeedants against *Hylobius abietis* pine weevils: an active compound in extract of bark of *Tilia cordata* linden. *Journal of Chemical Ecology* 31: 989-1001.
- Månsson, P. E., Schlyter, F., Eriksson, C. & Sjödin, K. 2006. Nonanoic acid, other alkanolic acids, and related compounds as antifeedants in *Hylobius abietis* pine weevils. *Entomologia Experimentalis et Applicata* 121: 191-201.
- Nilsson, U., Luoranen, J., Kolström, T., Örlander, G. & Puttonen, P. 2010. Reforestation with planting in northern Europe. *Scandinavian Journal of Forest Research* 25: 283-294.
- Nordenhem, H. 1989. Age, sexual development, and seasonal occurrence of the pine weevil *Hylobius abietis* (L.). *Journal of Applied Entomology* 108: 260-270.
- Nordenhem, H. & Eidmann, H. H. 1991. Response of the pine weevil *Hylobius abietis* L. (Col., Curculionidae) to host volatiles in different phases of its adult life cycle. *Journal of Applied Entomology* 112: 353-358.
- Nordenhem, H. & Nordlander, G. 1994. Olfactory oriented migration through soil by root-living *Hylobius abietis* (L.) larvae (Col., Curculionidae). *Journal of Applied Entomology* 117: 457-462.
- Nordlander, G. 1987. A method for trapping *Hylobius abietis* (L.) with a standardized bait and its potential for forecasting seedling damage. *Scandinavian Journal of Forest Research* 2: 199-213.
- Nordlander, G. 1989. The use of artificial baits to forecast seedling damage caused by *Hylobius abietis* (Coleoptera: Curculionidae), pp. 34-35 in: Alfaro, R.I. & Glover, S.G. (eds.), *Insects Affecting Reforestation: Biology and Damage*. Forestry Canada, Victoria, Canada.
- Nordlander, G. 1990. Limonene inhibits attraction to alpha-pinene in the pine weevils *Hylobius abietis* and *H. pinastri*. *Journal of Chemical Ecology* 16: 1307-1320.
- Nordlander, G. 1991. Host finding in the pine weevil *Hylobius abietis*: effects of conifer volatiles and added limonene. *Entomologia Experimentalis et Applicata* 59: 229-237.

- Nordlander, G., Eidmann, H.H., Jacobsson, U., Nordenhem, H. & Sjödin, K. 1986. Orientation of the pine weevil *Hylobius abietis* to underground sources of host volatiles. *Entomologia Experimentalis et Applicata* 41: 91-100.
- Nordlander, G., Nordenhem, H. & Bylund, H. 1997. Oviposition patterns of the pine weevil *Hylobius abietis*. *Entomologia Experimentalis et Applicata* 85: 1-9.
- Nordlander, G., Örländer, G. & Langvall O. 2003. Feeding by the pine weevil *Hylobius abietis* in relation to sun exposure and distance to forest edges. *Agricultural and Forest Entomology* 5: 191-198.
- Nordlander, G., Bylund, H., Örländer, 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.
- Nordlander, G., Bylund, H. & Björklund, N. 2005. Soil type and microtopography influencing feeding above and below ground by the pine weevil *Hylobius abietis* (L.). *Agricultural and Forest Entomology* 7: 107-113.
- Nordlander, G., Nordenhem, H. & Hellqvist, C. 2009. A flexible sand coating (Conniflex) for the protection of conifer seedlings against damage by the pine weevil, *Hylobius abietis*. *Agricultural and Forest Entomology* 11:91-100.
- Nordlander, G., Hellqvist, C., Johansson, K. & Nordenhem H. 2011. Regeneration of European boreal forests: Effectiveness of measures against seedling mortality caused by the pine weevil *Hylobius abietis*. *Forest Ecology and Management* 262: 2354-2363.
- Nordlander, G., Hellqvist, C. & Hjelm, K. 2017. Replanting conifer seedlings after pine weevil emigration in spring decreases feeding damage and seedling mortality. *Scandinavian Journal of Forest Research* 32: 60-67.
<http://dx.doi.org/10.1080/02827581.2016.1186220>
- Nystrand, O. & Granström, A. 2000. Predation on *Pinus sylvestris* seeds and juvenile seedlings in swedish boreal forest in relation to stand disturbance by logging. *Journal of Applied Ecology* 37: 449-463.
- Petersson, M. & Örländer, G. 2003. Effectiveness of combinations of shelterwood, scarification, and feeding barriers to reduce pine weevil damage. *Canadian Journal of Forest Research* 33: 64-73.
- Petersson, M., Örländer, G. & Nilsson, U. 2004. Feeding barriers to reduce damage by pine weevil (*Hylobius abietis*). *Scandinavian Journal of Forest Research* 19: 48-59.
- Petersson, M., Örländer, G. & Nordlander, G. 2005. Soil features affecting damage to conifer seedlings by the pine weevil *Hylobius abietis*. *Forestry* 78: 83-92.
- Petersson, M., Nordlander, G. & Örländer, G. 2006. Why vegetation increases pine weevil damage: Bridge or shelter? *Forest Ecology and Management* 225: 368-377.
- Schlyter, F. 2004. Semiochemicals in the life of bark feeding weevils. Chapter 15 (pp.351-364), *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.
- Schlyter, F., Marling, E. & Löfqvist, E. 2004. A new microassay for antifeedants in *Hylobius* pine weevils (Coleoptera). *Journal of Pest Science* 77:191-195.

- Schlyter, F., Smitt, O., Sjödin, K., Högberg, H.-E. & Löfqvist, J. 2004 Carvone and less volatile analogues as repellent and deterrent antifeedants against the pine weevil, *Hylobius abietis*. *Journal of Applied Entomology* 128: 610-619.
- Solbreck, C. 1980. Dispersal distances of migrating pine weevils, *Hylobius abietis*, Coleoptera: Curculionidae. *Entomologia Experimentalis et Applicata* 28:123-131.
- Shtykova, L., Masuda, M., Eriksson, C., Sjödin, K., Marling, E., Schlyter, F. & Nydén, M. 2008. Latex coatings containing antifeedants: Formulation, characterization, and application for protection of conifer seedlings against pine weevil feeding. *Progress in Organic Coatings* 63: 160-166.
- Sunnerheim, K., Nordqvist, A., Nordlander, G., Borg-Karlson, A.-K., Unelius, C. R., Bohman, B., Nordenhem, H., Hellqvist, C. & Karlén, A. 2007. Quantitative structure–activity relationships of pine weevil antifeedants, a multivariate approach. *Journal of Agricultural and Food Chemistry* 55: 9365-9372.
- Terenius, O., Björklund, N., Jaenson, T. G. T. & Nordlander, G. 2014. Premature proposal of the pine weevil as a vector of a human pathogen. *Journal of Clinical Microbiology* 52: 4115. <http://dx.doi.org/10.1128/JCM.02167-14>
- Thorsén, Å., Mattsson, S. & Weslien, J. 2001. Influence of stem diameter on the survival and growth of containerized Norway spruce seedlings attacked by pine weevils (*Hylobius* spp.). *Scandinavian Journal of Forest Research* 16: 54-66.
- Tilles, D.A., Sjödin, K., Nordlander, G. & Eidmann, H. H. 1986. Synergism between ethanol and conifer host volatiles as attractants for the pine weevil, *Hylobius abietis* (L.) (Coleoptera: Curculionidae). *Journal of Economic Entomology*. 79: 970-973.
- Tilles, D.A., Nordlander, G., Nordenhem, H., Eidmann, H. H., Wassgren, A.-B. & Bergström, G. 1986. Increased release of host volatiles from feeding scars: A major cause of field aggregation in the pine weevil *Hylobius abietis* (Coleoptera: Curculionidae). *Environmental Entomology* 15: 1050-1054.
- Tilles, D. A., Eidmann, H. H., & Solbreck, B. 1988. Mating stimulant of the pine weevil *Hylobius abietis* (L.). *Journal of Chemical Ecology* 14: 1495-1503.
- Torstensson, L., Börjesson, E. & Arvidsson, B. 1999. Treatment of bare root spruce seedlings with permethrin against pine weevil before lifting. *Scandinavian Journal of Forest Research* 14: 408-415.
- 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.
- Victorsson, J. & Jonsell, M. 2016. Overlooked subterranean saproxylic beetle diversity in clear-cut stumps and its implications for stump extraction. *Forest Ecology and Management* 371: 59-66.
- von Hofsten, H. & Weslien, J. 2005. Temporal patterns of seedling mortality by pine weevils (*Hylobius abietis*) after prescribed burning in northern Sweden. *Scandinavian Journal of Forest Research* 20: 130-135.
- von Sydow, F. 1993. Fungi occurring in the roots and basal parts of one- and two- year old spruce and pine stumps. *Scandinavian Journal of Forest Research* 8: 174-184.

- von Sydow, F. 1997. Abundance of pine weevils (*Hylobius abietis*) and damage to conifer seedlings in relation to silvicultural practices. *Scandinavian Journal of Forest Research* 12: 157-167.
- von Sydow, F. & Birgersson, G. 1997. Conifer stump condition and pine weevil (*Hylobius abietis*) reproduction. *Canadian Journal of Forest Research* 27: 1254-1262.
- von Sydow, F. & Örlander, G. 1994. The influence of shelterwood density on *Hylobius abietes* (L.) occurrence and feeding on planted conifers. *Scandinavian Journal of Forest Research* 9: 367-375.
- Wallertz, K. & Malmqvist, C. 2013. The effect of mechanical site preparation methods on the establishment of Norway spruce (*Picea abies* (L.) Karst.) and Douglas fir (*Pseudotsuga menziesii* (Mirb.) Franco) in southern Sweden. *Forestry* 86: 71-78. .
<http://dx.doi.org/10.1093/forestry/cps065>
- Wallertz, K. & Petersson, M. 2011. Pine weevil damage to Norway spruce seedlings: effects of nutrient-loading, soil inversion and physical protection during seedling establishment. *Agricultural and Forest Entomology* 13: 413-421.
- 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.
- 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., Nordenhem, H. & Nordlander, G. 2014. Damage by the pine weevil *Hylobius abietis* to seedlings of two native and five introduced tree species in Sweden. *Silva Fennica* 48(4): article id 1188, 14 pp.
<http://dx.doi.org/10.14214/sf.1188>.
- Wallertz, K., Hanssen, K. H., Hjelm, K. & Floistad, I. S. 2016. Effects of planting time on pine weevil (*Hylobius abietis*) damage to Norway spruce seedlings. *Scandinavian Journal of Forest Research* 31: 362-370.
<http://dx.doi.org/10.1080/02827581.2016.1186220>
- Wibe, A., Borg-Karlson, A.K., Norin, T. & Mustaparta, H. 1996. Identification of plant volatiles activating the same receptor neurons in the pine weevil, *Hylobius abietis*. *Entomologia Experimentalis et Applicata* 80: 39-42.
- Wibe, A., Borg-Karlson, A.-K., Persson, M., Norin, T. & Mustaparta, H. Enantiomeric composition of monoterpene hydrocarbons in some conifers and receptor neuron discrimination of α -pinene and limonene enantiomers in the pine weevil, *Hylobius abietis*. *Journal of Chemical Ecology* 24: 273-287.
- Zas, R., Björklund, N., Nordlander, G., Cendán, C., Hellqvist, C. & Sampedro, L. 2014. Exploiting jasmonate-induced responses for field protection of conifer seedlings against a major forest pest, *Hylobius abietis*. *Forest Ecology and Management* 313: 212-223.
- Örlander, G. & Nilsson, U. 1999. Effect of reforestation methods on pine weevil (*Hylobius abietis*) damage and seedling survival. *Scandinavian Journal of Forest Research* 14: 341-354.
- Örlander, G. & Nordlander, G. 2003. Effects of field vegetation control on pine weevil (*Hylobius abietis*) damage to newly planted Norway spruce seedlings. *Annals of Forest Science* 60: 667-671.

- Örlander, G., Nilsson, U. & Nordlander, G. 1997. Pine weevil abundance on clearcuts of different ages: a 6-year study using pitfall traps. *Scandinavian Journal of Forest Research* 12: 225-240.
- Örlander, G., Nordlander, G., Wallertz, K. & Nordenhem, H. 2000. Feeding in the crowns of Scots pine trees by the pine weevil *Hylobius abietis*. *Scandinavian Journal of Forest Research* 15: 194-201.
- Örlander, G., Nordlander, G. & Wallertz, K. 2001. Extra food supply decreases damage by the pine weevil *Hylobius abietis*. *Scandinavian Journal of Forest Research* 16: 450-454.