

List of publications by Christer Löfstedt

A - Original scientific publications in international journals:

1. Löfstedt, C., Van Der Pers, J.N.C., Löfqvist, J., Lanne, B.S., Appelgren, M., Bergström, G., and Thelin, B. 1982. Sex pheromone components of the turnip moth, *Agrotis segetum*: chemical identification, electrophysiological evaluation and behavioural activity. *J. Chem. Ecol.* 8:1305-1321.
2. Van Der Pers, J.N.C. and Löfstedt, C. 1983. Continuous single sensillum recording as a detection method for moth pheromone components in the effluent of a gas chromatograph. *Physiol. Entomol.* 8:203-221.
3. Löfstedt, C. and Persson, C. 1983. A synthetic pheromone for monitoring of the turnip moth *Agrotis (Scotia) segetum* (Lepidoptera). *Växtskyddsnotiser* 46:81-85 (in Swedish).
4. Löfstedt, C., Van Der Pers, J.N.C., Löfqvist, J. and Lanne, B.S. 1983. Sex pheromone of the cone pyralid *Dioryctria abietella*. *Ent. exp. appl.* 34:20-26.
5. Löfstedt, C. and Odham, G. 1984. Analysis of moth pheromone acetates by selected ion monitoring using electron impact and chemical ionization mass spectrometry. *Biomedical Mass Spectrometry* 11:106-113.
6. Lanne, B.S., Appelgren, M., Bergström, G., and Löfstedt, C. 1985. Determination of double bond position in monounsaturated acetates from their mass spectra. *Analytical Chemistry* 57:1621-1625.
7. Löfstedt, C., Linn, C.E. Jr., and Löfqvist, J. 1985. Behavioural response of turnip moth males *Agrotis segetum* to sex pheromone in a flight tunnel and in the field. *J. Chem. Ecol.* 11:1209-1221.
8. Löfstedt, C., Lanne, B.S., Löfqvist, J., and Bergström, G. 1985. Individual variation in the pheromone of the turnip moth *Agrotis segetum*. *J. Chem. Ecol.* 11:1181-1196.
9. Löfstedt, C. and Van Der Pers, J.N.C. 1985. Sex pheromones and reproductive isolation in four European small ermine moths. *J. Chem. Ecol.* 11:649-666.
10. Löfstedt, C. and Roelofs, W.L. 1985. Sex pheromone precursors in two primitive New Zealand tortricid moth species. *Insect Biochem.* 15:729-734.
11. Liljefors, T., Thelin, B., Van Der Pers, J.N.C., and Löfstedt, C. 1985. Chain elongated analogues of a pheromone component of the turnip moth, *Agrotis segetum*: A structure-activity study using molecular mechanics. *J. Chem. Soc. Perkin II*, 1957-1962.
12. Löfstedt, C. and Löfqvist, J. 1985. Utveckling av förvirringsmetoden för bekämpning av sädesbroddflyet, *Agrotis segetum* (Lepidoptera, Noctuidae) med feromoner. *Växtskyddsnotiser* 49:45-48 (in Swedish).
13. Löfstedt, C., Löfqvist, J., Lanne, B.S., Van Der Pers, J.N.C., and Hansson, B.S. 1986. Pheromone dialects in European turnip moths *Agrotis segetum*. *Oikos* 46:250-257.
14. Hansson, B.S., Löfstedt, C., Löfqvist, J., and Hallberg, E. 1986. Spatial arrangement of different types of pheromone-sensitive sensilla in a male moth. *Naturwissenschaften* 73:269-270.
15. Löfstedt, C., Elmfors, A., Sjögren, M., and Wijk, E. 1986. Confirmation of sex pheromone biosynthesis from (16-D₃)-palmitic acid in the turnip moth using capillary gas chromatography. *Experientia* 42:1059-1061.
16. Löfstedt, C., Herrebut, W.M., and Du, J.-W. 1986. Evolution of the ermine moth pheromone tetradecyl acetate. *Nature* 323:621-623.

17. Löfstedt, C., Löfqvist, J., and Roques, A. 1986. Pheromones for trapping of two moth species in seed orchards. In: Roques, A., ed., *Proceedings of the cone and seed insects working party conference*, pp 247-255. INRACF, Olivet, France.
18. Tóth, M., Szöcs, G., Löfstedt, C., Hansson, B., and Subchev, M. 1986. Sex pheromone components of *Mamestra suasa*: chemical identification, electrophysiological activity, wind tunnel activity and field tests in two European countries. *Ent. exp. appl.* 42:291-299.
19. Löfstedt, C. 1987. Behaviour of small ermine moths in overlapping pheromone plumes. In: Arn, H., ed., *Mating disruption - behaviour of moths and molecules. WPRS Bulletin* 1987/X/3.
20. Lundberg, S. and Löfstedt, C. 1987. Intra-specific competition in the sex communication channel: a selective force in the evolution of moth pheromones. *J. Theor. Biol.* 125:15-24.
21. Du, J.-W., Löfstedt, C., and Löfqvist, J. 1987. Repeatability of pheromone emissions from individual female ermine moths *Yponomeuta padellus* and *Y. rorellus*. *J. Chem. Ecol.* 13:1431-1441.
22. Hansson, B.S., Löfstedt, C., and Roelofs, W.L. 1987. Inheritance of olfactory response to sex pheromone components in *Ostrinia nubilalis*. *Naturwissenschaften* 74:497-499.
23. Roelofs, W.L., Glover, T., Tang, X-H., Sreng, I., Robbins, P., Eckenrode, C. Löfstedt, C., Hansson, B., and Bengtsson, B. O. 1987. Sex pheromone production and perception in European corn borer moths is determined by both autosomal and sex-linked genes. *Proc. Natl. Acad. Sci. USA* 84:7585-7589.
24. Löfstedt, C. and Herrebut, W.M. 1988. Sex pheromones of three small ermine moths found on the European spindle tree. *Ent. exp. appl.* 46:29-38.
25. Löfstedt, C. and Bengtsson, M. 1988. Sex pheromone biosynthesis in the codling moth *Cydia pomonella* involves E9-desaturation. *J. Chem. Ecol.* 14: 903-915.
26. Nilsson, N.-O., Löfstedt, C., and Dävring, L. 1988. Unusual sex chromosome inheritance in six species of small ermine moths (*Yponomeuta*, Yponomeutidae, Lepidoptera). *Hereditas* 108:259-265.
27. Baker, T.C., Hansson, B.S., Löfstedt, C., and Löfqvist, J. 1988. Adaptation of antennal neurons in moths is associated with cessation of pheromone-mediated upwind flight. *Proc. Natl. Sci. USA.* 85:9826-9830.
28. Priesner, E., Bogenschütz, H., and Löfstedt, C. 1988. Secondary sex pheromone components of *Choristoneura murinana* Hb. (Lepidoptera: Tortricidae). *Z. Naturforsch.* 43c: 918-928.
29. Löfstedt, C., Vickers, N.J., Roelofs, W.L., and Baker, T.C. 1989. Diet related courtship success in the oriental fruit moth, *Grapholita molesta* (Tortricidae). *Oikos* 55:402-408.
30. Tóth, M., Löfstedt, C., Hansson, B.S., Szöcs, G., and Farag, A.I. 1989. Identification of four components from the female sex pheromone of the lima-bean pod borer, *Etiella zinckenella* Tr. (Lepidoptera: Phycitidae). *Ent. exp. appl.* 51:107-112.
31. Löfstedt, C. and Hansson, B.S. 1989. Pheromone detection in moths: Peripheral discrimination and its genetic control, pp. 245-246 in J. Erber, R. Menzel, H.J. Pflüger, and D. Todt (eds.) *Proceedings of the second International Congress of Neuroethology*. Georg Thieme Verlag (Stuttgart - New York).
32. Baker, T.C., Francke, W., Löfstedt, C., Hansson, B., Du, J.-W., Phelan, P.L., Vetter, R.S., and Youngman, R. 1989. Isolation, identification and synthesis of sex pheromone components of the carob moth, *Ectomyelois ceratoniae*. *Tetrah. Lett.* 30:2901-2902.

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35. Löfstedt, C., Hansson, B.S., Roelofs, W.L., and Bengtsson, B.O. 1989. No linkage between genes controlling female pheromone production and male pheromone response in the European corn borer, *Ostrinia nubilalis* Hübner (Lepidoptera; Pyralidae). *Genetics* 123:553-556.
36. Löfstedt, C., Hansson, B.S., Dijkerman, H. J., and Herrebout, W.M. 1990. Behavioural and electrophysiological activity of unsaturated analogues to the pheromone tetradecyl acetate in the small ermine moth *Yponomeuta rorellus*. *Physiol. Entomol.* 15:47-54.
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41. Zhao, C., Löfstedt, C., and Xuying, W. 1990. Sex pheromone biosynthesis in the Asian corn borer *Ostrinia furnacalis* (II): Biosynthesis of (E)- and (Z)-12-Tetradecenyl acetate involves δ -14 desaturation. *Archs Insect Biochem. Physiol.* 15:57-65.
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43. Tóth, M., Szöcs, G., Löfstedt, C., Hansson, B.S., Schmidt, F., and Francke, W. 1991. Epoxy-heptadecadienes identified as sex pheromone components of *Tephрина arenacearia* Hbn. (Lepidoptera: Geometridae).- *Z. Naturforsch.* 46c:257-263.
44. Löfstedt, C., Herrebout, W.H., and Menken, S.B.J. 1991. Sex pheromones and their potential role in the evolution of reproductive isolation in small ermine moths (Yponomeutidae). *Chemoecology* 2:20-28.
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49. Wu, W.-Q., Bengtsson, M., Hansson, B.S., Liljefors, T., Löfstedt, C., Prestwich, G.D., Sun, W.-C., and Svensson, M. 1993. Electrophysiological and behavioural response of turnip moth males, *Agrotis segetum*, to fluorinated pheromone analogues. *J. Chem. Ecol.* 19:143-157.
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57. Zhao, C., Lu, F., Bengtsson, M., and Löfstedt, C. 1995. Substrate specificity of acetyltransferase and reductase enzyme systems used in pheromone biosynthesis by Asian corn borer, *Ostrinia furnacalis*. *J. Chem. Ecol.* 21:1495-1510.
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61. Valeur, P.G. and Löfstedt, C. 1996. Behaviour of male oriental fruit moth, *Grapholita molesta*, in overlapping sex pheromone plumes in a wind tunnel. *Ent. exp. appl.* 79:51-59.
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Irregularly updating my [blog *Spegellandet*](http://spegellandet.blogg.lu.se) at <http://spegellandet.blogg.lu.se> with comments on research politics etc.(in Swedish)