

List of publications 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., Herrebout, 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.

33. Baker, T.C., Hansson, B.S., Löfstedt, C., and Löfqvist, J. 1989. Adaptation of male moth antennal neurons in a pheromone plume is associated with cessation of pheromone-mediated flight. *Chem. Senses* 14:439-448.
34. Hansson, B.S., Löfstedt, C., and Foster, S. 1989. Z-linked inheritance of male olfactory response to sex pheromone components in two species of tortricid moths, *Ctenopseustis obliquana* and *Ctenopseustis sp.* *Ent. exp. appl.* 53:137-145.
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.
37. Bengtsson, M., Liljefors, T., Hansson, B.S., Löfstedt, C., and Copaja, S.V. 1990. Structure-activity relationships for chain-shortened analogs of (Z)-5-decenyl acetate, a pheromone component of the turnip moth, *Agrotis segetum*. *J. Chem. Ecol.* 16: 667-684.
38. Bengtsson, B. O. and Löfstedt, C. 1990. No evidence for selection in a pheromonally polymorphic moth population. *Am. Nat.* 136:722-726.
39. Hansson, B.S, Tóth, M., Löfstedt, C., Szöcs, G., Subchev, M., and Löfqvist, J. 1990. Pheromone variation among eastern European and a western Asian population of the turnip moth *Agrotis segetum*. *J. Chem. Ecol.* 16:1611-1622.
40. Hansson, B.S., Szöcs, G., Schmidt, F., Francke, W., Löfstedt, C., and Tóth, M. 1990. Electrophysiological and chemical analysis of sex pheromone communication system of the mottled umber, *Erannis defoliaria* (Lepidoptera: Geometridae). *J. Chem. Ecol.* 16:1887-1897.
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.
42. Löfstedt, C., Vickers, N.J., and Baker, T.C. 1990. Courtship, pheromone titre and determination of the male mating success in the oriental fruit moth, *Grapholita molesta* (Lepidoptera: Tortricidae). *Entomol. Gener.* 15:121-125.
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.
45. Baker, T.C., Francke, W., Millar, J. Löfstedt, C., Hansson, B., Du, J.-W., Phelan, P.L., Vetter, R.S., Youngman, R., and Todd, J. 1991. Identification and bioassay of sex pheromone components of carob moth, *Ectomyelois ceratoniae* (Zeller). *J. Chem. Ecol.* 17:1973-1988.
46. Tóth, M., Löfstedt, C., Blair, B.W., Cabello, T., Farag, A. I., Hansson, B. S., Kovalev, B. G., Maini, S., Nesterov, E.A., Pajor, I., Sazanov, A. P., Shamshev, I. V., Subchev, M., and Szöcs, G. 1992. Attraction of male turnip moths *Agrotis segetum* (Lepidoptera: Noctuidae) to sex pheromone components and their mixtures at 11 sites in Europe, Asia, and Africa. *J. Chem. Ecol.* 18:1337-1347.
47. Hansson, B.S., Ljungberg, H., Hallberg, E., and Löfstedt, C. 1992. Functional specialization of olfactory glomeruli in a moth. *Science* 256:1313-1315.

48. Kovalev, B. G., Löfstedt, C., Nedopekina, S. F., Sorotsinskaja, A. M., Artosjin, K. S., Nesterov, E. A., and Wijk, E. 1991. Isolation and identification of the female sex pheromone of *Heliothis maritima*. *Chemistry of Natural Products* 1991: 574-577 (in Russian).
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.
50. Szöcs, G., Tóth, M., Francke, W., Schmidt, F., Philipp, P., Mori, K., Hansson, B.S., and Löfstedt, C. 1993. Species discrimination in five species of winter-flying geometrids (Lepidoptera) based on chirality of semiochemicals and flight season. *J. Chem. Ecol.* 19:2721-2735.
51. Löfstedt, C., Hansson, B.S., Tóth, M., Szöcs, G., Buda, V., Bengtsson, M., Ryrholm, N., Svensson, M., and Priesner, E. 1994. Pheromone differences between sibling taxa *Diachrysia chrysitis* (Linnaeus, 1758) and *D. tutti* (Kostrowicki, 1961) (Lepidoptera: Noctuidae). *J. Chem. Ecol.* 20:91-109.
52. Jacquin, E., Jurenka, R. A., Ljungberg, H., Nagnan, P., Löfstedt, C., Descoins, C., and Roelofs, W.L. 1994. Control of sex pheromone biosynthesis in the moth *Mamestra brassicae* by the pheromone biosynthesis activating neuropeptide. *Insect Biochem. Molec. Biol.* 24:203-211.
53. Löfstedt, C., Hansson, B.S., Pettersson, E., Valeur, P., and Richards, A. 1994. Pheromonal secretions from glands on the 5th abdominal sternite of hydroptychid and rhyacophilid caddisflies (Trichoptera). *J. Chem. Ecol.* 20:153-170.
54. Hansson, B.S., Hallberg, E., Löfstedt, C., and Steinbrecht, R.A. 1994. Correlation between dendrite diameter and action potential amplitude in sex pheromone specific receptor neurons in male *Ostrinia nubilalis* (Lepidoptera: Pyralidae). *Tissue Cell* 26:503-512.
55. Tóth, M., Szöcs, G., Francke, W., Schmidt, F., Philipp, P., Löfstedt, C., Hansson, B.S., and Farag, A.I. 1994. Pheromonal production of and response to optically active epoxydienes in some geometrid moths (Lepidoptera: Geometridae). *Z. Naturforsch.* 49c:516-521.
56. Wu, W., Hansson, B.S., and Löfstedt, C. 1995. Electrophysiological and behavioural evidence for a fourth sex pheromone component in the turnip moth, *Agrotis segetum*. *Physiol. Ent.* 20:81-92.
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.
58. Zhu, J., Kozlov, M. V., Philipp, P., Francke, W., and Löfstedt, C. 1995. Identification of a novel moth sex pheromone in *Eriocrania cicatricella* (Zett.) (Lepidoptera: Eriocraniidae) and its phylogenetic implications. *J. Chem. Ecol.* 21:29-43.
59. Zhu, J., Löfstedt, C., Philipp, P., Francke, W., Tammaru, T., and Haukioja, E. 1995. A sex pheromone component novel to the Geometridae identified from *Epirrita autumnata*. *Ent. exp. appl.* 75:159-164.
60. Zhu, J., Millar, J., and Löfstedt, C. 1995. Hormonal regulation of sex pheromone biosynthesis in the turnip moth, *Agrotis segetum*. *Archs. Insect Biochem. Physiol.* 30:41-59.
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.

62. Kozlov, M. V., Zhu, J. Philipp, P., Francke, W., Zvereva, E.L., Hansson, B.S., and Löfstedt, C. 1996. Pheromone specificity in *Eriocrania semipurpurella* (Stephens) and *E. sangii* (Wood) (Lepidoptera: Eriocraniidae) based on chirality of semiochemicals. *J. Chem. Ecol.* 22:431-454.
63. Zhu, J.-W., Zhao, C., Bengtsson, M., Lu, F., and Löfstedt, C. 1996. Reductase specificity and the ratio regulation of *E/Z* isomers in pheromone biosynthesis of the European corn borer, *Ostrinia nubilalis* (Lepidoptera: Pyralidae). *Insect Biochem. Molec. Biol.* 26:171-176.
64. Witzgall, P., Chambon, J.-P., Bengtsson, M., Unelius, C.R., Appelgren, M., Makranzy, G., Muraleedharan, N., Reed, D.W., Hellrigl, K., Buser, H.-R., Hallberg, E., Bergström, G., Tóth, M., Löfstedt, C., and Löfqvist, J. 1996. Sex pheromones and attractants in the Eucosmini and Grapholitini (Lepidoptera, Tortricidae). *Chemoecology* 7: 58-68.
65. Zhu, J.-W., Löfstedt, C., and Bengtsson, B.O. 1996. Genetic variation in the strongly canalized sex pheromone communication system of the European corn borer, *Ostrinia nubilalis* Hübner (Lepidoptera; Pyralidae). *Genetics* 144:757-766.
66. Wu, W. -Q., Anton, S., Löfstedt, C., and Hansson, B. S. 1996. Discrimination among pheromone component blends by interneurons in male antennal lobes of two populations of the turnip moth, *Agrotis segetum*. *Proc. Ntnl. Acad. Sci. U.S.A.* 93:8022-8027.
67. Zhu J.-W., Ryrholm, N., Ljungberg, H., Hansson, B.S., Hall, D., Reed, D., and Löfstedt, C. 1996. Olefinic acetates, Δ -9,11-14:OAc and Δ -7,9-12:OAc used as sex pheromone components in three geometrid moths, *Idaea aversata*, *I. straminata*, and *I. biselata* (Geometridae, Lepidoptera). *J. Chem. Ecol.* 22:1505-1526.
68. Anton, S., Löfstedt, C., and Hansson, B.S. 1997. Central nervous processing of sex pheromones in two strains of the European corn borer *Ostrinia nubilalis* (Lepidoptera: Pyralidae). *J. Exp. Biol.* 200:1073-1087.
69. LaForest, S., Wu, W.-Q., and Löfstedt, C. 1997. A genetic analysis of population differences in pheromone production and response between two populations of the turnip moth, *Agrotis segetum*. *J. Chem. Ecol.* 23:1487-1504.
70. Wu, W.-Q., Zhu, J.-W., Millar, J., and Löfstedt, C. 1998. A comparative study of sex pheromone biosynthesis in two strains of the turnip moth, *Agrotis segetum*, producing different ratios of sex pheromone components. *Insect Biochem. Molec. Biol.* 28:895-900.
71. Riley, J.R., Valeur, P.G., Smith, A.D., Reynolds, D.R., Poppy, G., and Löfstedt, C. 1998. Harmonic radar as a means of tracking the pheromone-finding and pheromone-following flight of male moths. *J. Insect Behaviour* 11:287-296.
72. Wu, W.-Q, Cottrell, C.B., Hansson, B.S., and Löfstedt, C. 1999. Comparative study of pheromone production and response in two populations of turnip moth, *Agrotis segetum*. *J. Chem. Ecol.* 25:177-196.
73. Van Dongen S., Sprengers E., Löfstedt C., and Matthysen E. 1999. Heritability of tibia fluctuating asymmetry and developmental instability in the winter moth (*Operophtera brumata* L.) (Lepidoptera, Geometridae). *Heredity* 82: 535-542.
74. Van Dongen S., Sprengers E., and Löfstedt C. 1999. Correlated development, organism-wide asymmetry and patterns of asymmetry in two moth species. *Genetica* 105:81-91.
75. Van Dongen S., Sprengers E., Löfstedt C., and Matthysen E. 1999. Fitness components of male and female winter moths (*Operophtera brumata* L.) (Lepidoptera, Geometridae) relative to measures of body size and asymmetry. *Behav. Ecol.* 10:659-665.

76. Valeur, P.G., Hansson, B.S., and Löfstedt, C. 1999. Real-time measurement of pheromone release from individual female moths and synthetic dispensers in a wind tunnel by recording of single receptor-neurone responses. *Physiol. Entomol.* 24: 240-250.
77. Zhang, Q.-H., Birgersson, G., Zhu, J.-W., Löfstedt, C., Löfqvist, J. and Schlyter, F. 1999. Leaf volatiles from nonhost deciduous trees: Variation by tree species, season and temperature, and electrophysiological activity in *Ips typographus*. *J. Chem. Ecol.* 25:1923-1943.
78. Zhu, J.-W., Ryne, C., Unelius, R., Valeur, P.G., and Löfstedt, C. 1999. Reidentification of the female sex pheromone of the Indian meal moth, *Plodia interpunctella*: evidence for a four-component pheromone blend. *Ent. exp. appl.* 92:137-146.
79. Schiestl, F.P., Ayasse, M., Paulus, H.F., Löfstedt, C., Hansson, B.S., Ibarra, F., and Francke W. 1999. Orchid pollination by sexual swindle. *Nature* 399:421-22.
80. LaForest, S.M., Prestwich, G.D., and Löfstedt, C. 1999. Intraspecific nucleotide variation at the pheromone binding protein locus in the turnip moth, *Agrotis segetum*. *Insect Mol. Biol.* 8:481-490.
81. Schiestl, F.P., Ayasse, M., Paulus, H.F., Löfstedt, C., Hansson, B.S., Ibarra F., and Francke, W. 2000. Sex pheromone mimicry in the early spider orchid (*Ophrys sphegodes*): patterns of hydrocarbons as the key mechanism for pollination by sexual deception. *J. Comp. Physiol. A* 186:567-574.
82. Ayasse, M., Schiestl, F.P., Paulus, H.F., Löfstedt, C., Hansson, B., Ibarra, F., and Francke, W. 2000. Evolution of reproductive strategies in the sexually deceptive orchid *Ophrys sphegodes*: How does flower-specific variation of odor signals influence reproductive success? *Evolution* 54:1995-2006.
83. Valeur, P.G., Hansson, B.S., Markebo, K., and Löfstedt, C. 2000. Relationship between sex pheromone elicited behaviour and response of single olfactory receptor neurones in a wind tunnel. *Physiol. Entomol.* 25:223-232.
84. Abraham, D., Ryrholm, N., Wittzell, H., Holloway, J.D., Scoble, M.J., and Löfstedt, C. 2001. Molecular phylogeny of the subfamilies in Geometridae (Geometroidea: Lepidoptera). *Mol. Phylogen. Evol.* 20:65-77.
85. Van Dongen, S., Sprengers, E., and Löfstedt, C. 2001. Lack of evolutionary potential of developmental instability of front tibia length in the Indian meal moth (*Plodia interpunctella*). *Belg. J. Zool.* 131:75-82.
86. Geerts, R., Löfstedt, C., and Menken, S.B.J. 2001. Molecular phylogeny of Trichoptera. *Proc. Exper. Appl. Entomol.* 12:165-167.
87. Bergmann, J., Löfstedt, C. Ivanov, V.D., and Francke, W. 2001. Identification and assignment of absolute configuration of methyl-branched ketones from limnephilid caddisflies. *Eur. J. Org. Chem.* 16:3175-3179.
88. Ryne, C., Svensson, G.P., and Löfstedt, C. 2001. Mating disruption of *Plodia interpunctella* in small-scale plots: effects of pheromone blend, emission rates, and population density. *J. Chem. Ecol.* 27:2109-2124.
89. Ryne, C., Zhu, J.-W., Van Dongen, S., and Löfstedt, C. 2001. Spermatophore size and multiple mating: effects on reproductive success and post-mating behaviour in the Indian meal moth. *-Behaviour* 138:947-963.
90. Svensson, G., Valeur, P.G., Reynolds, D.R., Smith, A.D., Riley, J.R., Baker, T.C., Poppy, G.H., and Löfstedt, C. 2001. Mating disruption in *Agrotis segetum* (Lepidoptera: Noctuidae) monitored by harmonic radar. *-Ent. exp. appl.* 101:111-121.

91. Bergmann, J., Löfstedt, C., Ivanov, V.D., and Francke, W. 2002. Electrophysiologically active volatile compounds from six species of caddisflies. *Nova Suppl. Ent.* 15:37-46.
92. Plepys, D., Ibarra, F., Francke, W. and Löfstedt, C. 2002. Odour-mediated nectar foraging in the silver Y moth, *Autographa gamma* (Lepidoptera: Noctuidae): behavioural and electrophysiological responses to floral volatiles. *Oikos* 99:75-82.
93. Plepys, D., Ibarra, F., and Löfstedt, C. 2002. Volatiles from flowers of *Platanthera bifolia* (Orchidaceae) attractive to the silver Y moth, *Autographa gamma* (Lepidoptera: Noctuidae). *Oikos* 99:69-74.
94. Larsson, M.C., Hallberg, E., Kozlov, M.V., Francke, W., Hansson, B.S., and Löfstedt, C. 2002. Specialized olfactory receptor neurons mediating intra- and interspecific chemical communication in leafminer moths *Eriocrania* spp. (Lepidoptera: Eriocraniidae). *J. Exp. Biol.* 205:989-998.
95. Ryne, C., Ekeberg, M., Olsson, P.-O. C., Valeur, P.G., and Löfstedt, C. 2002. Water revisited: a powerful attractant for certain stored-product moths. *Entomol. Exp. Appl.* 103:99-103.
96. Svensson, G.P., Ryne, C., and Löfstedt, C. 2002. Heritable variation of sex pheromone composition and the potential for evolution of resistance to pheromone-based control of the Indian meal moth, *Plodia interpunctella*. *J. Chem. Ecol.* 28:1447-1461.
97. Svensson, G P, Skals, N. and Löfstedt, C. 2003. Disruption of the odour-mediated mating behaviour of *Plodia interpunctella* using high-frequency sound. *Ent. exp. appl.* 106:187-192.
98. Skals, N., Plepys, D., El-Sayed, A.M., Löfstedt, C., and Surlykke, A. 2003. Quantitative analysis of the effects of ultrasound from an odor sprayer on moth flight behaviour. *J. Chem. Ecol.* 29:71-82.
99. Skals, N., Plepys, D., and Löfstedt, C. 2003. Foraging and mate-finding in the silver Y moth, *Autographa gamma* (Lepidoptera: Noctuidae) under the risk of predation. *Oikos* 102:351-357.
100. Rosén, W.Q., Han, G.B., and Löfstedt, C. 2003. The circadian rhythm of the sex-pheromone-mediated behavioral response in the turnip moth, *Agrotis segetum*, is not controlled at the peripheral level. *J. Biol. Rhythms* 18:402-408.
101. Svensson, G. P., Löfstedt, C., and Skals, N. 2004. The odour makes the difference: male moths attracted by sex pheromones ignore the threat by predatory bats. *Oikos* 104:91-97.
102. Löfstedt, C., Zhu, J., Kozlov, M.V., Buda, V., Jirle, E.V., Hellqvist, S., Löfqvist, J., Plass, E., Franke, S., and Francke, W. 2004. Identification of the sex pheromone of the currant shoot borer, *Lampronia capitella*. *J. Chem. Ecol.* 30:643-658.
103. Zhao, C.-H., Adlof, R.O., and Löfstedt, C. 2004. Sex pheromone biosynthesis in the pine caterpillar moth, *Dendrolimus punctatus* (Lepidoptera: Lasiocampidae): pathways leading to Z5-monoene and 5,7-conjugated diene components. *Insect. Biochem. Molec. Biol.* 34:261-271.
104. Szöcs, G., Tóth, M. , Kárpáti, Z., Zhu, J-W., Löfstedt, C., Plass, E., and Francke, W. 2004. Identification of polyenic hydrocarbons from the northern winter moth, *Operophtera fagata*, and development of a species specific bait for pheromone lure. *Chemoecology* 14:53-58.
105. Bergmann, J., Löfstedt, C., Ivanov, V.D., and Francke, W. 2004. Identification and synthesis of new bicyclic acetals from caddisflies (Trichoptera). *Tetrah. Lett.* 45:3669-3672.

106. Olsson, P.-O., C., Anderbrant, O., and Löfstedt, C. 2005. Flight and oviposition behavior of *Ephestia cautella* and *Plodia interpunctella* in response to odors of different chocolate products. *J. Insect Behav.* 18:363-380.
107. Silvegren, G., Löfstedt, C., and Rosén, W.-Q. 2005. Circadian mating activity and effect of pheromone pre-exposure on pheromone response rhythms in the moth *Spodoptera littoralis*. *J. Insect Physiol.* 51:277-286.
108. Skals, N., Anderson, P., Kanneworff, M, Löfstedt, C., and Surlykke, A. 2005. Her odours make him deaf: crossmodal modulation of olfaction and hearing in a male moth. *J. Exp. Biol.* 208:595-601.
109. Abraham D., Löfstedt C., and Picimbon J.-F. 2005. Molecular characterization and evolution of pheromone binding protein genes in *Agrotis* moths. *Insect Biochem. Molec. Biol.* 35:1100-1111.
110. Olsson, P.-O. C., Anderbrant, O., Löfstedt, C., Borg-Karlsson, A.-K., and Liblikas, I. 2005. Electrophysiological and behavioral responses to chocolate volatiles in both sexes of the pyralid moths *Ephestia cautella* and *Plodia interpunctella*. *J. Chem. Ecol.* 31:2947-2961.
111. Olsson, P.-O., C., Ryne, C., Wallén, R., Anderbrant, O., and Löfstedt, C. 2006. Male-produced sex pheromone in *Tribolium confusum*: Behaviour and investigation of pheromone production locations. *J. Stor. Prod. Res.* 42:173-182.
112. Olsson, P.-O.C., Anderbrant, O. and Löfstedt, C. 2006. Attraction and oviposition of *Ephestia kuehniella* induced by volatiles identified from chocolate products. *Entomol. Exp. Appl.* 119:137-144.
113. Olsson, P.-O. C, Anderbrant, O., and Löfstedt, C. 2006. Experience influences oviposition behaviour in two pyralid moths, *Ephestia cautella* and *Plodia interpunctella*. *Anim. Behav.* 72:545-551.
114. Liénard, M.A., Lassance, J.-M.X.S., Paulmier, I., Picimbon, J.-F., and Löfstedt, C. 2006. Differential expression of cytochrome *c* oxidase subunit III gene in castes of the termite *Reticulitermes santonensis*. *J. Insect Physiol.* 52:551-557.
115. Ryne, C., Ekeberg, M., Jonzén, N., Oehschlager, C., Löfstedt, C., and Anderbrant, O. 2006. Reduction in an almond moth *Ephestia cautella* (Lepidoptera: Pyralidae) population by means of mating disruption. *Pest Manag. Sc.* 62:912-918.
116. Jansen, S., Zidek L., Löfstedt, C., Picimbon, J.-F., and Sklenár, V. 2006. ¹H, ¹³C and ¹⁵N resonance assignment of *Bombyx mori* chemosensory protein 1 (BmorCSP1). *J. Biomolec. NMR* 36:47
Supplementary material is available at <http://dx.doi.org/10.1007/s10858-006-9019-8>.
117. Hellqvist, S., Jirle, E., and Löfstedt, C. 2006. Oviposition and flight period of the currant shoot borer *Lampronia capitella*. *J. Appl. Entomol.* 130:491-494.
118. Takanashi, T., Ishikawa, Y., Anderson, P., Huang, Y., Löfstedt, C., Tatsuki, S., and Hansson, B.S. 2006. Unusual response characteristics of pheromone-specific olfactory receptor neurons in the Asian corn borer moth, *Ostrinia furnacalis*. *J. Exp. Biol.* 209:4946-4956.
119. Bengtsson, B.O., and Löfstedt, C. 2007. Direct and indirect selection in moth pheromone evolution: Population genetical simulations of asymmetric sexual interactions. *Biol. J. Linn. Soc.* 90:117-123.
120. Verheggen, F., Ryne, C., Arnaud, L., Olsson, P.-O. C., Lognay, G., Högberg, H.-E., Persson, D., Haubruge, E., and Löfstedt, C. 2007. Electrophysiological and behavioral activity of secondary metabolites in the confused flour beetle *Tribolium confusum*. *J. Chem. Ecol.* 33:525-539.

121. Reynolds, A.M., Reynolds, D. R., Smith, A.D., Svensson, G.P., and Löfstedt, C. 2007. Appetitive flight patterns of male *Agrotis segetum* moths over landscape scales. *J. Theor. Biol.* 245:141-149.
122. Ryne, C., Svensson, G.P., Anderbrant, O., and Löfstedt, C. 2007. Evaluation of long-term mating disruption of *Ephestia kuehniella* and *Plodia interpunctella* (Lepidoptera: Pyralidae) in indoor storage facilities by pheromone traps and monitoring of relative aerial concentrations of pheromone. *J. Econ. Entomol.* 100:1017-1025.
123. Svensson, G. P., Löfstedt, C., and Skals, N. 2007. Listening in pheromone plumes: Disruption of olfactory-guided mate attraction in a moth by a bat-like ultrasound. *J. Insect Sc.* 7:59:1-9.
124. Jansen, S., Chmelík, J., Židek, L., Padrta, P., Novák, P., Zbyněk, Z., Picimbon, J.-F., Löfstedt, C., and Sklenář, V. 2007. Structure of *Bombyx mori* Chemosensory Protein 1 in Solution. *Archs Insect Biochem. Physiol.* 66:135–145.
125. Strandh, M., Johansson, T. Ahrén, D., and Löfstedt, C. 2008. Transcriptional analysis of the pheromone gland of the turnip moth, *Agrotis segetum* (Noctuidae), reveals candidate genes involved in pheromone production. *Insect Mol. Biol.* 17:73-85.
126. Löfstedt, C., Bergmann, J., Francke, W., Jirle, E., Hansson, B.S., and Ivanov, V.D. 2008. Identification of a sex pheromone produced by sternal glands in females of the caddisfly *Molanna angustata* Curtis. *J. Chem. Ecol.* 34:220-228.
127. Nieberding, C.M., de Vos, H., Schneider, M.V, Lassance, J.-M., Estramil, N., Andersson, J., Bång, J., Hedenström, E., Löfstedt, C., and Brakefield, P.M. 2008. The male sex pheromone of the butterfly *Bicyclus anynana*: Towards an evolutionary analysis. *PLoS ONE* 3:e2751:1-12. doi:10.1371/journal.pone.0002751
128. Ruebenbauer, A., Schlyter, F, Hansson, B.S., Löfstedt, C., and Larsson, M.C. 2008. Genetic variability and robustness of host odor preference in *Drosophila melanogaster*. *Curr. Biol.* 18:1438-1443.
129. Liénard, M.A., Strandh, M., Hedenström, E., Johansson, T., and Löfstedt, C. 2008. Key biosynthetic gene subfamily recruited for pheromone production prior to the extensive radiation of Lepidoptera. *BMC Evol. Biol.*8:270:1-15.
130. Závodská, R, von Wowerm, G., Löfstedt, C., Rosén, W.Q., and Sauman, I. 2009. The release of a pheromonotropic neuropeptide, PBAN, in the turnip moth *Agrotis segetum*, exhibits a circadian rhythm. *J. Insect Physiol.* 55:435-440.
131. Lassance, J.-M. and Löfstedt C. 2009. Concerted evolution of male and female display traits in the European corn borer, *Ostrinia nubilalis*. *BMC Biol.* 7:10:1-12.
132. Siemenska, E., Ryne, C., Löfstedt, C., and Anderbrant, O. 2009. Long-term mating disruption of the Mediterranean flour moth, *Ephestia kuehniella*, in a flour mill. *Entomol. Exp. Appl.* 31:294-299.
133. Strandh, M., Johansson, T., and Löfstedt, C. 2009. Global transcriptional analysis of pheromone biosynthesis-related genes in the female turnip moth, *Agrotis segetum* (Noctuidae) using a custom-made cDNA microarray. *Insect. Biochem. Molec. Biol.* 39:484-489.
134. Harraca, V., Ignell, R., Löfstedt, C. and Ryne, C. 2010. Characterization of the antennal olfactory system of the bed bug (*Cimex lectularius*). *Chemical Senses* 35:195-204.
135. Wang, H.-L., Svensson, G.P., Rosenberg, O., Bengtsson, M., Jirle, E.V., and Löfstedt, C. 2010. Identification of the sex pheromone of the spruce seed moth, *Cydia strobilella* L. (Lepidoptera: Tortricidae). *J. Chem. Ecol.* 36:305-313.
136. Lassance, J.-M., Groot, A.T., Liénard, M.A., Antony, B., Borgwardt, C., Andersson, F., Hedenström, E., Heckel, D.G., and Löfstedt, C. 2010. Allelic variation in a fatty-acyl reductase gene causes divergence in moth sex pheromones. *Nature* 466:486-489.

137. Wang, H.-L., Zhao, C.-H., Millar, J.G., Cardé, R.T., and Löfstedt, C. 2010. Biosynthesis of unusual moth pheromone components involves two different pathways in the navel orangeworm, *Amyelois transitella*. *J. Chem. Ecol.* 36:535–547.
138. Liénard, M.A., Lassance, J.-M., Wang, H.-L., Zhao, C.-H., Piškur, J., Johansson, T., and Löfstedt, C. 2010. Elucidation of the sex-pheromone biosynthesis producing 5,7-dodecadienes in *Dendrolimus punctatus* (Lepidoptera: Lasiocampidae) reveals $\Delta 11$ - and $\Delta 9$ -desaturases with unusual catalytic properties. *Insect. Biochem. Molec. Biol.* 40: 440-452.
139. Liénard, M.A., Hagström, Å.K., Lassance, J.M., and Löfstedt, C. 2010. Evolution of multi-component pheromone signals in small ermine moths involves a single fatty-acyl reductase gene. *Proc. Natl. Acad. Sci. USA* 107:10955-10960.
140. Wang, H.-L., Liénard, M.A., Zhao, C.-H., Wang, C.-Z., and Löfstedt, C. 2010. Neofunctionalization in an ancestral insect desaturase lineage led to rare Δ^6 pheromone signals in the Chinese tussah silkworm. *Insect. Biochem. Molec. Biol.* 40:742-751.
141. Ding, B.-J., Liénard, M.A., Wang, H.-L., Zhao, C.-H., and Löfstedt, C. 2011. Terminal fatty-acyl-CoA desaturase involved in sex pheromone biosynthesis in the winter moth (*Operophtera brumata*). *Insect Biochem. Molec. Biol.* 41:715-722.
142. Lassance, J.-M., Bogdanowicz, S.M., Wanner, K.W., Löfstedt, C., and Harrison, R.G. 2011. Gene genealogies reveal differentiation at sex pheromone olfactory receptor loci in pheromone strains of the European corn borer, *Ostrinia nubilalis*. *Evolution* 65:1583-1593.
143. Löfstedt, C., Svensson, G.P., Jirle, E.V., Rosenberg, O., Roques, A., and Millar, J.G. 2012. (3Z,6Z,9Z,12Z,15Z)-pentacosapentaene and (9Z,11E)-tetradecadienyl acetate: sex pheromone of the spruce coneworm *Dioryctria abietella* (Lepidoptera: Pyralidae). *J. Appl. Entomol.* 136:70-78.
144. Albre, J., Liénard, M., Sirey, T.M., Schmidt, S., Tooman, L.K., Carraher, C., Greenwood, D.R., Löfstedt, C., and Newcomb, R.D. 2012. Sex pheromone evolution is associated with differential regulation of the same desaturase gene in two genera of leafroller moths. *PLoS Genetics* 8:e1002489:1-13.
145. Sadek, M.M., von Wowerm, G., Löfstedt, C., Rosén, W.-Q., and Anderson, P. 2012. Modulation of the temporal pattern of calling behavior of female *Spodoptera littoralis* by exposure to sex pheromone. *J. Insect Physiol.* 58:61-66.
146. Mei, L., Guan, Z.G., Zhou, H.G., Lv, J., Zhu, Z.R., Cheng, J.A., Chen, F.J., Löfstedt, C., Svanberg, S., and Somesfalean, G. 2012. Agricultural pest monitoring using fluorescence lidar techniques – Feasibility study. *Appl. Physics B* 106:733-740.
147. Hagström, Å., Liénard, M. A., Groot, A. T., Hedenström, E., and Löfstedt, C. 2012. Semi-selective fatty acyl reductases from four Heliothine moths influence the specific pheromone composition. *PLoS ONE* 7:e37230:1-11.
148. Svensson, G.P., Wang, H.-L., Lassance, J.-M., Anderbrant, O., Chen, G.-F., Gregorsson, B., Guertin, C., Harala, E., Jirle, E.V., Libkas, I., Petko, V., Roques, A., Rosenberg, O., Strong, W., Voolma, K., Ylioja, T., Wang, Y.-J., Zhou, X.-M., and Löfstedt, C. 2013. Assessment of genetic and pheromonal diversity of the *Cydia strobilella* species complex (Lepidoptera: Tortricidae). *Syst. Ent.* 38:305-315.
149. Andersson, P., Löfstedt, C., and Hambäck, P.A. 2013. How insects sense olfactory patches – the spatial scaling of olfactory information. *Oikos* 122:1009-1016.
150. Lassance, J.-M., Liénard, M.A., Antony, B., Qian, S., Fujii, T., Tabata, J., Ishikawa, Y., and Löfstedt, C. 2013. Functional consequences of sequence variation in the pheromone biosynthetic gene pgFAR for *Ostrinia* moths. *Proc. Natl. Acad. Sci. USA* 110:3967-3972.

151. Hagström, Å.K., Walther, A., Wendland, J., and Löfstedt, C. 2013. Subcellular localization of the Fatty Acyl Reductase involved in pheromone biosynthesis in the Tobacco Budworm, *Heliothis virescens* (Noctuidae: Lepidoptera). *Insect Biochem. Molec. Biol.* 43:510-521.
152. Wang, H.-L., Zhao, C.-H., Szöcs, G., Chinta, S.P., Schulz, S., and Löfstedt, C. 2013. Biosynthesis and PBAN-regulated transport of pheromone polyenes in the Winter Moth, *Operophtera brumata*. *J. Chem. Ecol.* 13:790-796.
153. Andersson, P., Löfstedt, C., and Hambäck, P. 2013. Insect density-plant density relationships: a modified view of insect responses to resource concentrations. *Oecologia* 173:1333-1344.
154. Zhang, D-D. and Löfstedt, C. 2013. Functional evolution of a multigene family: Orthologous and paralogous pheromone receptor genes in the turnip moth, *Agrotis segetum*. *PLoS One* 8:e77345:1-12.
155. Hagström Å. K., Wang, H.-L., Liénard, M.A., Lassance, J.M., Johansson, T., and Löfstedt, C. 2013. A moth pheromone brewery: production of (Z)-11-hexadecenol by heterologous co-expression of two biosynthetic genes from a noctuid moth in a yeast cell factory. *Microbial Cell Factories* 12:125:1-11.
156. Hagström, Å.K., Albre, J., Tooman, L.K., Thirmawithana, A.H., Corcoran, J., Löfstedt, C., and Newcomb, R.D. 2014. A novel fatty acyl desaturase from the pheromone glands of *Ctenopseustis obliquana* and *C. herana* with specific Z5-desaturase activity on myristic acid. *J. Chem. Ecol.* 40:63-70.
157. Ding, B.-J., Hofvander, P., Wang, H.-L., Durrett, T.P., Stymne, S., and Löfstedt, C. 2014. A plant factory for moth pheromone production. *Nature Commun.* 5:3353:1-7.
158. Svensson, G.P., Gündüz, E.A., Sjöberg, N., Hedenström, E., Lassance J.-M., Wang H.-L., Löfstedt, C., and Anderbrant, O. 2014. Identification, synthesis, and behavioral activity of 5,11-dimethylpentacosane, a novel sex pheromone component of the greater wax moth, *Galleria mellonella* (L.). *J. Chem. Ecol.* 40:387–395
159. Reyes-Garcia, L., Cuevas, Y., Ballesteros, C., Curkovic, T., Löfstedt, C., and Bergmann, J. 2014. A 4-component sex pheromone of the Chilean fruit leaf roller *Proeulia auraria* (Lepidoptera: Tortricidae). *Cien. Inv. Agr.* 41:187-196.
160. Liénard, M.A., Wang, H.-L., Lassance, J.-M., and Löfstedt, C. 2014. Sex pheromone biosynthetic pathways are conserved between moths and the butterfly *Bicyclus anyana*. *Nature Commun.* 5: 3957:1-12.
161. Wang, H.-L., Brattström, O., Brakefield, P., Francke, W., and Löfstedt, C. 2014. Identification and biosynthesis of novel male-specific esters in the wings of the tropical butterfly, *Bicyclus martius sanaos*. *J. Chem. Ecol.* 40:549–559.
162. Andersson, M.N., Videvall, E., Walden, K.O., Harris, M.O., Robertson, H.M., and Löfstedt, C. 2014 Sex- and tissue-specific profiles of chemosensory gene expression in a herbivorous gall-inducing fly (Diptera: Cecidomyiidae). *BMC Genomics* 15:501:1-19.
163. Wang, H.-L., Svensson, G. P., Jacobsson, J., Jirle, E. V., Rosenberg, O, Francke, W., Anderbrant, O., Millar, J.G., and Löfstedt, C. 2015. Sex pheromone of the cloaked pug moth, *Eupithecia abietaria* (Lepidoptera: Geometridae), a pest of spruce cones. *J. Appl. Entomol.* 139:352-360.
164. Hedenström, E., Andersson, J., Wallin, E.A., Bång, J., Wang, H.-L., Löfstedt, C., Brattström, O., and Bacquet, P. 2015. Stereomeric analysis of 6,10,14-trimethylpentadecan-2-ol and the corresponding ketone in wing extracts from African *Bicyclus* butterfly species. *J. Chem. Ecol.* 41:44-51.

165. Zhao, C. et al. (The Hessian Fly Genomics Consortium). 2015. A massive expansion of effector genes underlies gall-formation in the wheat pest *Mayetiola destructor*. *Curr. Biol.* 25:613-620.
166. Bacquet, P.M.B., Brattström, O., Wang, H.-L., Allen, C. E., Löfstedt, C., Brakefield, P. M., and Nieberding, C.M. 2015. Selection on male sex pheromone composition contributes to butterfly reproductive isolation. *Proc. R. Soc. B* 282:20142734:1-9.
167. Wang, H.-L., Geertsema, H., van Nieukerken, E.J., and Löfstedt, C. 2015. Identification of the female-produced sex pheromone of the leafminer *Holocacista capensis* infesting grapevine in South Africa. *J. Chem. Ecol.* 41:724-731.
168. Ding, B.-J. and Löfstedt, C. 2015. Analysis of the *Agrotis segetum* pheromone gland transcriptome in the light of sex pheromone biosynthesis. *BMC Genomics* 16:711:1-21.
169. Zhang, D.-D., Wang, H.-L., Schultze, A., Fross, H., Francke, W., Krieger, J., and Löfstedt, C. 2016. Receptor for detection of a Type II sex pheromone in the winter moth *Operophtera brumata*. *Sci. Rep.* 6:18576:1-11.
170. Ding, B.-J., Lager, I., Bansal, S., Durrett, T.P., Stymne, S., and Löfstedt, C. 2016. The yeast ATF1 acetyltransferase efficiently acetylates insect pheromone alcohols: implications for the biological production of moth pheromones. *Lipids* 51:469-475.
171. Jakobsson, J., Svensson, G.P., Löfstedt, C., and Anderbrant, O. 2016. Antennal and behavioural responses of the spruce seed moth, *Cydia strobilella*, to floral volatiles of Norway spruce, *Picea abies*, and temporal variation in emission of active compounds. *Ent. exp. appl.* 160:209-218.
172. Ding, B.-J., Carraher, C., and Löfstedt, C. 2016. Sequence variation determining stereochemistry of a $\Delta 11$ desaturase active in moth sex pheromone biosynthesis. *Insect Biochem. Molec. Biol.* 74:68-75.
173. Bacquet, P.M.B., de Jong, M., Brattström, O., Wang, H.L., Molleman, F., Heuskin, S., Lognay, G., Löfstedt, C., Brakefield, PM, Vanderpoorten, A., and Nieberding, C.M. 2016. Differentiation in putative male sex pheromone components across and within populations of the African butterfly *Bicyclus anynana* as a potential driver of reproductive isolation. *Ecol. Evol.* 6:6064-6084.
174. Mansourian, S., Corcoran, J., Enjin, A., Löfstedt, C., Dacke, M., and Stensmyr, M. C. 2016. Fecal-derived phenol induces egg-laying aversion in *Drosophila*. *Curr. Biol.* 26:2762-2769.
175. Andersson, M.N., Corcoran, J.A., Zhang, D.-D., Hillbur, Y., Newcomb, R.D., and Löfstedt, C. 2016. A sex pheromone receptor in the Hessian Fly *Mayetiola destructor* (Diptera, Cecidomyiidae). *Frontiers Cell. Neurosc.* 10:212:1-12.
176. Ruther, J., Hagström, Å.K., Brandstetter, B., Hofferberth, J., Bruckmann, A., Semmelmann, F., Fink, M., Lowack, H., Laberer, S., Niehuis, O., Deutzmann, R., Löfstedt, C., and Sterner, R. 2016. Epimerisation of chiral hydroxylactones by short-chain dehydrogenases/reductases accounts for sex pheromone evolution in *Nasonia*. *Scientific Rep.* 6:e34697:1-13.
177. Yuvaraj, J.K., Corcoran, J.A., Andersson, M.N., Newcomb, R.D., Anderbrant, O., and Löfstedt, C. 2017. Characterization of odorant receptors from a non-ditrysian moth, *Eriocrania semipurpurella* sheds light on the origin of sex pheromone receptors in Lepidoptera. *Mol. Biol. Evol.* 34:2733-2746.
178. Svensson, G.P., Wang, H.-L., Jirle, E.V., Rosenberg, O., Liblikas, I., Chong, J.M., Löfstedt, C., and Anderbrant, O. 2018. Challenges of pheromone-based mating disruption of *Cydia strobilella* and *Dioryctria abietella* in spruce seed orchards. *J. Pest Sc.* 91:639-650.

179. Corcoran, J. A., Sonntag, Y., Andersson, M. A., Johanson, U., and Löfstedt, C. 2018. Endogenous insensitivity to the Orco agonist VUAA1 reveals novel olfactory receptor complex properties in a specialist fly *Mayetiola destructor*. *Sc. Rep.* 8:e3489.
180. Yuvaraj, J.K., Andersson, M.A., Anderbrant, O., and Löfstedt, C. 2018. Diversity of olfactory structures: A comparative study of antennal sensilla in Trichoptera and Lepidoptera. *Micron* 111:9-18.
181. Yuvaraj, J.K., Andersson, M.N., Corcoran, J.A., Anderbrant, O., and Löfstedt, C. 2018. Functional characterization of odorant receptors from *Lampronia capitella* suggests a non-ditrysian origin of the lepidopteran pheromone receptor clade. *Insect Biochem. Mol. Biol.* 100:39-47.
182. Yuvaraj, J. T., Andersson, M.N., Zhang, D.-D., and Löfstedt, C. 2018. Antennal transcriptome analysis of the chemosensory gene families from Trichoptera and basal Lepidoptera. *Frontiers Physiol.* 9:e1365:1-16.
183. Wang, H.-L., Baldessari, M., Anfora, G., van Nieuwerkerken, E.J., and Löfstedt, C. Sex pheromone identification in two leafminer species, *Antispila oinophylla* and *Holocacista rivillei* (Lepidoptera: Heliozelidae) infesting grapevine in Italy. *J. Chem. Ecol.* (accepted).

B - Reviews, book chapters, etc

1. Löfstedt, C. 1978. *Sexualferomoner hos fjärilhonor - kemi, biologi och användning för populationskontroll*. Zoologiska institutionen, Lunds Universitet. 119 pp.
2. Löfstedt, C. 1984. *Sex pheromone communication in the turnip moth Agrotis segetum*. Thesis. Dept. of Animal Ecology. University of Lund. 101 pp.
3. Van Der Pers, J.N.C. and Löfstedt, C. 1986. Signal-response relationship in sex pheromone communication, pp. 235-241 in T. Payne, M. Birch and C. Kennedy (eds.). *Mechanisms in Insect Olfaction. Proceedings of NSF-NATO Sponsored Seminar on Mechanisms of Perception and Orientation*. Oxford University Press, Oxford.
4. Löfstedt, C. 1986. Sexualferomoner och reproduktiv isolering hos nattfjärilar. *Entomologisk tidskrift* 107:125-137.
5. Löfstedt, C. 1987. Sex pheromone communication in the turnip moth *Agrotis segetum*. *Insect Chemoreception* 9:123-129 (in Russian).
6. Löfstedt, C. 1988. Evolutionary genetics of invertebrate behavior: Progress and Prospects. (Book review). *Quart. Rev. Biol.* 63:359-360.
7. Löfstedt, C. 1990. Population variation and genetic control of pheromone communication systems in moths. *Ent. exp. appl.* 54:199-218.
8. Löfstedt, C. 1991. Evolution of moth pheromones, pp. 57-73 in I. Hrdy (ed.). *Insect Chemical Ecology*. Academia Praha and SPB Acad. Publ., The Hague, The Netherlands.
9. Löfstedt, C. 1993. Moth pheromone genetics and evolution. *Phil. Trans. R. Soc. Lond.* B 340:167-177.
10. Löfstedt, C. 1995. Phylogenetic analysis of pheromone communication in moths, pp. 57-58 in J.-L. Clement and D. Morgan (eds.). *Proceedings of Conference J. Monod: Chemical communication in vertebrates and invertebrates: Nature, neuroregulation and molecular receptors of pheromones*. CNRS, Marseille, France.
11. Löfstedt, C. and Kozlov, M. 1997. A phylogenetic analysis of pheromone communication in primitive moths, pp. 473-489 in R.T. Cardé and A.K. Minks (eds.). *Insect Pheromone Research: New Directions*. Chapman & Hall, New York.
12. Foster, S.P., Muggleston, S.J., Löfstedt, C., and Hansson, B.S. 1996. A genetic study on pheromonal communication in two *Ctenopseustis* moths, pp. 514-524 in R.T. Cardé

- and A.K. Minks (eds.). *Insect Pheromone Research: New Directions*. Chapman & Hall, New York.
13. Hallberg, E., Hansson, B.S., and Löfstedt, C. 2003. Sensilla and Proprioceptors, pp. 267-288, in N. P. Kristensen (ed.). *Handbook of Zoology*. Vol. IV. Part 36. Lepidoptera, Moths and Butterflies. Vol. 2: Morphology, Physiology and Development. Walter de Gruyter, Berlin/New York.
 14. Liénard, M.A. and Löfstedt, C. 2010. Functional flexibility as a prelude to signal diversity? *Comm. Integr. Biol.* 3:586-588.
 15. Lassance, J.-M. and Löfstedt, C. 2013. Chemical communication: A jewel sheds light on signal evolution. *Curr. Biol.* 23:R346-R348.
 16. Svensson, G.P., Strandh, M., and Löfstedt, C. 2014. Movements in the olfactory landscape, pp. 195-218 in L.-A. Hansson and S. Åkesson (eds.). *Animal movement across scales*. Oxford University Press, Oxford.
 17. Andersson, M. N, Löfstedt, C., and Newcomb R. D. 2015. Insect olfaction and the evolution of receptor tuning. *Front. Ecol. Evol.* 3:53:1-14.
 18. Zhang D.-D. and Löfstedt C. (2015) Moth pheromone receptors: gene sequences, function, and evolution. *Front. Ecol. Evol.* 3:105:1-10.
 19. Löfstedt, C., Wahlberg, N., and Millar, J.G. 2016. Evolutionary Patterns of Pheromone Diversity in Lepidoptera, pp. 43-78 in *Pheromone Communication in Moths: Evolution, Behavior and Application*. J.D. Allison and R.T. Cardé (eds.). University of California Press, Berkeley.
 20. Liénard, M.A. and Löfstedt, C. 2016. Small ermine moths: Role of pheromones in reproductive isolation and speciation, pp. 211-224 in *Pheromone Communication in Moths: Evolution, Behavior and Application*. J.D. Allison and R.T. Cardé (eds.). University of California Press, Berkeley.
 21. Olsson, S.B., Bhardwaj, P.K., Brockmann, A., Chandrashekara, K., Gross, J., Harari, A., Hillier, N.K., Jacquin-Joly, E., Khesoh, V., Lima, E., Löfstedt, C., Marion-Poll, F., Ahmad Mir, B., Raguso, R.A., Rai, S., Poddar Sarkar, M., Seenivasagan, T., and Uma Shaanker, R. 2017. New Frontiers for Chemical Ecology: Reaffirming a Commitment to the Göteborg Resolution. *J. Chem. Ecol.* 43:2-3.

C - Articles published in popular press, etc.

Papers from before 1979 are not included.

1. Löfstedt, C. 1979, Kom slå dig ner och älska med mig. *Fältbiologen* 1979(5):6-7.
2. Löfstedt, C. 1980. Dofterna lockar och förvirrar. *Fältbiologen* 1980(1):12-13.
3. Löfstedt, C. 1983. Forskning om insekters doftkommunikation. *Ordo* 17(2):15-17.
4. Löfqvist, J., Hallberg, E., Löfstedt, C., Van Der Pers, J.N.C., and Lanne, B. 1984. Feromoner hos insekter: Kärleksdofter blir bekämpningsmedel. *Forskning och Framsteg* 1984(2):4-9.
5. Bengtsson, G., Brönmark, C., Herrmann, J., Löfstedt, C., Malmqvist, B., and Nilsson, I. 1984. Hur gick det för giraffen i rulltrappan? Om Lamarck som läromästare. *Fauna och flora* 79:129-136.
6. Löfstedt, C. 1985. Spinnmalarnas kärleksliv: det är doften som gör det, in T. Alerstam, J. Karlsson and C. Otto (eds.). *Populationsekologi - om djurens fortplantning och överlevnad*. Liber, Malmö.

7. Hansson, B.S., Hallberg, E., Löfstedt, C., Liljefors, T., and Löfqvist, J. 1995. Insekternas luktsinne: Den ut- och invända näsan. *Forskning och Framsteg* 1995(5):33-37.
8. Anderbrant, O. and Löfstedt, C. 2002. Dofter mot "mask" i maten. *Livsmedelsteknik* 44:46-47.
9. Löfstedt, C. 2004. Konstruerad kris i Lund. Aktuella frågor. *Sydsvenskan* 20 oktober
10. Anderbrant, O, Ryne, C., Olsson, P.-O., Löfstedt, C. 2005. Doftämnen istället för gifter i livsmedelsindustrin. *Forskningsnytt* 2005:22-23.
11. Lundberg, P. och Löfstedt, C. 2006. Universitet i förfall. Aktuella frågor. *Sydsvenskan* 19 juli.
12. Löfstedt, C. 2006. Full kostnadstäckning – feltänkt från grunden. *LUM* 2006(9):35.
13. Löfstedt, C. och Hansson, B.S. 2007. Jan Löfqvist – minnesteckning. *Kungliga Fysiografiska Sällskapet I Lund. Årsbok 2005-2006*. Sid. 133-137.
14. Löfstedt, C. 2007. Utled på de nya "könsorden". *LUM* 2007(8):39.
15. Rosenberg, O., Löfstedt, C. och Weslien, J. 2009. Fjärilsdofter i fröplantager kan ge oss mer förädlad granfrö. *Resultat från Skogforsk* nr 19 2009. 2pp.
16. Löfstedt, C. Och Lundberg, P. 2012. En medicin som skulle döda patienten. SvD (Brännpunkt 16 mars). http://www.svd.se/opinion/brannpunkt/en-medicin-som-skulle-doda-patienten_6931305.svd
17. Halle, B., Hesslow, G., Karlström, G., Lidin, S., Lindgren, G., Löfstedt, C., Nilsson, D.E., Sterner, O., Svensson, B.E.Y. Pseudovetenskap sprids okritiskt. SvD (Brännpunkt). http://www.svd.se/opinion/brannpunkt/pseudovetenskap-sprids-okritiskt_7629298.svd
18. Vetenskapskriget. *Filosofiska Rummet*, Sveriges Radio. 6 januari 2013. (sverigesradio.se/sida/avsnitt/135944?programid=793)
19. Löfstedt, C. 2013. Ifrågasätt de nya sanningarna i stället. (Forskningens framtid i Sverige). *Curie* 2013-01-24. (<http://www.tidningencurie.se/22/debatt/debatter/2013-01-24-ifragasatt-de-nya-sanningarna-i-stallet.html>)
20. Löfstedt, C. 2015. Forskningens ansvar mot offentligheten. Symposiet *Forskningens samhällsansvar*, Lund 13 maj 2014. Red: Ståhl, S., pp. 98-103. Kungl. Fysiogr. Sällsk. i Lund, Lund.
21. Bengtsson, B.O. and Löfstedt, C. 2015. Minnesteckningar över avlidna ledamöter. Jure Piskur 1960–2014. *Kungliga Fysiografiska Sällskapet i Lund. Årsbok 2013-2014*. Sid. 167-168. (Har ej boken, kolla att alla årtal är rätt gissade).
22. Rosenberg, O., Löfstedt, C., Wang, H.L., Svensson, G., Anderbrant, O. and Jirle, E. 2015. Doft av skadegörare i granfröplantager. Kunskapsbanken, Skogforsk (in Swedish)(<http://www.skogforsk.se/kunskap/kunskapsbanken/2015/doft-av-skadegorare-i-granfroplantager/>)

Irregularly updating my blog *Spegellandet* at <http://spegellandet.blogg.lu.se> with comments on research politics etc.