

## Robert Glinwood Publications

### Peer reviewed articles in international journals

1. Glinwood R.T., Powell W. and Tripathi C.P.M. (1998) Increased parasitization of aphids on trap plants alongside vials releasing synthetic aphid sex pheromone and effective range of the pheromone. *Biocontrol Science and Technology* 8: 607-614
2. Glinwood R.T., Smiley, D.W.M., Hardie, J., Pickett J.A., Powell, W., Wadhams, L.J. and Woodcock, C.M. (1999) Aphid sex pheromones: manipulation of beneficial insects for aphid population control. *Pesticide Science* 55: 208-209
3. Glinwood R.T., Du Y-J., Smiley D.W.M. and Powell W. (1999) Comparative responses of parasitoids to synthetic and plant-extracted nepetalactone component of aphid sex pheromones. *Journal of Chemical Ecology* 25: 1481-1488
4. Glinwood R.T., Du Y-J. and Powell, W. (1999) Responses to aphid sex pheromones in the aphid parasitoids *Aphidius ervi* and *Aphidius eadyi*. *Entomologia Experimentalis et Applicata* 92: 227-232
5. Glinwood R.T. and Pettersson J. (1999) Does The Density Of Oviparous Females Regulate Mating Success In Bird Cherry-Oat Aphid *Rhopalosiphum padi* (L.)? *Acta Agriculturae Scandinavica B, Soil and Plant Science*. 49: 125-128.
6. Glinwood R.T. and Pettersson J. (2000) Change in response of *Rhopalosiphum padi* spring migrants to the repellent winter host component methyl salicylate. *Entomologia Experimentalis et Applicata* 94: 325-330.
7. Glinwood R.T. and Pettersson J. (2000) Movement by mating females of a host alternating aphid: a response to leaf fall. *Oikos* 90: 43-49.
8. Glinwood R.T. and Pettersson J. (2000) Host choice and host leaving in *Rhopalosiphum padi* (L.) emigrants and repellency of aphid colonies on the winter host. *Bulletin of Entomological Research* 90: 57-61.
9. Ninkovic V., Ahmed E., Glinwood R. and J. Pettersson (2003) Effects of two types of semiochemical on population development of the Bird Cherry Oat Aphid *Rhopalosiphum padi* in a barley crop. *Agricultural and Forest Entomology* 5: 1-7.
10. Glinwood, R.T., Pettersson, J., Ninkovic, V., Ahmed, E., Birkett, M. and Pickett, J.A. (2003) Change in acceptability of barley plants to aphids after exposure to allelochemicals from couch-grass (*Elytrigia repens*). *Journal of Chemical Ecology* 29: 259-272.
11. Glinwood, R.T., Pettersson, J., Kularatne, S., Ahmed, E. and Kumar, V. (2003) Female European tarnished plant bugs, *Lygus rugulipennis* (Heteroptera: Miridae), are attracted to odours from conspecific females. *Acta Agriculturae Scandinavica A, Animal Science* 53: 29-32.

12. Glinwood, R., Willekens, J. and Pettersson, J. (2003) Discrimination of aphid mutualists by an ant based on chemical cues. *Acta Agriculturae Scandinavica B, Soil and Plant Science* 53: 177-182.
13. Glinwood, R., Ninkovic, V., Ahmed, E. and Pettersson, J. (2004) Barley exposed to aerial allelopathy from thistles (*Cirsium* spp.) becomes less acceptable to aphids. *Ecological Entomology* 29: 188-195.
14. Pettersson J., Ninkovic V., Glinwood R., Birkett M.A., and Pickett J.A. (2005) Foraging in a complex environment – semiochemicals support searching behaviour of the seven spot ladybird. *European Journal of Entomology* 102: 365-370.
15. Waka, M., Hopkins, R.J., Glinwood, R. and Curtis, C. (2006) The effect of repellents *Ocimum forskolei* and deet on the response of *Anopheles stephensi* to host odours. *Medical and Veterinary Entomology* 20: 373-376.
16. Amarawardana, L., Bandara, P., Kumar V., Pettersson, J., Ninkovic, J. and Glinwood, R. (2007) Olfactory response of *Myzus persicae* (Homoptera: Aphididae) to volatiles from leek and chives -potential for intercropping with sweet pepper. *Acta Agriculturae Scandinavica B, Soil and Plant Science* 57: 87-91.
17. Prinsloo, G., Ninkovic, V., van der Linde, T. C., van der Westhuizen A. J, Pettersson J. and Glinwood R. (2007) Test of semiochemicals and a resistant wheat variety for Russian wheat aphid management in South Africa. *Journal of Applied Entomology* 131: 637-644.
18. Glinwood, R.T., Gradin, T., Karpinska, B., Ahmed, E., Jonsson, L.M.V. and Ninkovic, V. (2007) Aphid acceptance of barley exposed to volatile phytochemicals differs between plants exposed in daylight and darkness. *Plant Signalling and Behavior* 2: 205-210.
19. Ban, L., Didon, A., Jonsson, L.M.V., Glinwood R., and Delp, G. (2007) An improved detection method for the Rhopalosiphum padi virus (RhPV) allows monitoring of its presence in aphids and its movement within plants. *Journal of Virological Methods* 142:136-142
20. Ban L., Ahmed A., Ninkovic V., Delp G. & Glinwood (2008) Infection with an insect virus affects olfactory behaviour and interactions with host plant and natural enemies in an aphid. *Entomologia Experimentalis et Applicata* 127: 108-117
21. Pettersson, J. Ninkovic V., Glinwood R., Al Abassi S., Birkett M., Pickett J & Wadhams L. (2008) Chemical stimuli supporting foraging behaviour of *Coccinella septempunctata* L (Coleoptera: Coccinellidae): volatiles and allelobiosis – a minireview. *Applied Entomology and Zoology* 43: 315-321
22. Pareja , M., Mohib, A., Birkett, M.A., Dufour, S. & Glinwood, R.T. (2009) Multivariate statistics coupled to generalised linear models reveal complex use of chemical cues by a parasitoid. *Animal Behaviour* 77: 901-909.

23. Bandara K.A.N.P., Kumar, V., Ninkovic, V., Ahmed, E., Pettersson, J. & Glinwood, R. (2009) Can leek interfere with bean plant - bean fly interaction? Test of ecological pest management in mixed cropping. *Journal of Economic Entomology* 102: 999-1008.
24. Glinwood R., Ahmed E, Qvarfordt E, Ninkovic V & Pettersson J (2009) Airborne interactions between undamaged plants of different cultivars affect insect herbivores and natural enemies. *Arthropod-Plant Interactions* 3: 219-224.
25. Ninkovic V, Dahlin I, Glinwood R & Pettersson J (2009) Weed-barley interactions affect aphid plant acceptance in laboratory and field experiments. *Entomologia Experimentalis et Applicata* 133: 38-45.
26. Ninkovic V, Al Abassi S, Ahmed E, Glinwood R, Pettersson J (2011) Effect of within-species plant genotype mixing on habitat preference of a polyphagous insect predator. *Oecologia* 166: 391-400
27. Glinwood R, Ahmed E, Qvarfordt E, Ninkovic V (2011) Olfactory learning of plant genotypes by a polyphagous insect predator. *Oecologia* 166: 637-647.
28. Glinwood R, Ninkovic V, Pettersson J (2011) Chemical interaction between undamaged plants- effects on herbivores and natural enemies. *Phytochemistry* 72: 1682-1689
29. Dekker T, Ignell R, Ghebru M, Glinwood R, Hopkins R (2011) Identification of mosquito repellent odours from *Ocimum forskolei*. *Parasites and Vectors* 4:183.
30. Tegelaar K, Hagman M, Glinwood R, Petterson J & Leimar O (2012) Ant-aphid mutualism: the influence of ants on the aphid summer cycle. *Oikos* 121: 61-66
31. Pareja M., Qvarfordt E., Webster B, Mayon P, Pickett J, Birkett M., Glinwood R. (2012) Herbivory by a phloem-feeding insect inhibits floral volatile production. *PLoS ONE* 7(2): e31971. doi:10.1371/journal.pone.0031971
32. Šipoš J, Kvastegård E, Baffoe KO, Kawshar S, Glinwood R, Kindlmann P. (2012) Differences in the predatory behaviour of male and female ladybird beetles (Coccinellidae). *European Journal of Environmental Sciences* 2: 47-51.
33. Webster B, Qvarfordt E, Olsson U & Glinwood R (2012) Different roles for innate and learnt behavioral responses to odors in insect host-location. *Behavioral Ecology* (in press)
34. Tegelaar K, Glinwood R, Pettersson J & Leimar O (2012) Transgenerational effects and the cost of ant tending in aphids. *Oecologia* (in press)

### **Peer-reviewed critical reviews**

Åhman, I, Glinwood R & Ninkovic V (2010) The potential for modifying plant volatile composition to enhance resistance to arthropod pests. CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources 5 (6): 1-10.

### **Chapters in books with international coverage**

Ninkovic, V., Glinwood, R. and Pettersson, J. (2006) Communication between undamaged plants by volatiles: the role of allelobiosis. In: *Communication in Plants* (eds.) F. Baluška, S. Mancuso and D. Volkmann. Springer-Verlag, Berlin. pp 421-434.

Pickett J.A and Glinwood R.T (2007) Chemical Ecology. In: *Aphids as Crop Pests*. (eds) H.F. van Emden and R. Harrington. CABI, UK. pp 235-260.

Glinwood R. (2010) Volatile chemical interaction between undamaged plants - effects at higher trophic levels. In F. Baluška, V. Ninkovic eds. *Plant Communication from an Ecological Perspective*, Springer-Verlag, Berlin

### **Peer-reviewed conference proceedings**

Pettersson, J., Ninkovic, V and Glinwood, R. (2003) Plant activation of barley by intercropped conspecifics and weeds: allelobiosis. BCPC Crop Science and Technology 2003, volume 2, 1135-1144.

Ahman, I., Ninkovic, V., Kellner, M., Kolodinska-Brantestam, A., Karpinska, B., Delp, G., Glinwood, R., Jonsson, L. and Pettersson, J. (2008) Editor(s): Prohens, J.; Badenes, M. L. , Modern variety breeding for present and future needs. Proceedings of the 18th EUCARPIA general congress, Valencia, Spain, 9-12 September, 2008 Page(s): 293

### **Popular science articles**

Pettersson, J., Glinwood, R., Ninkovic, V. and Ahmed, E. (2005) Bladlös- finns det 'piller' som hjälper? *Forskningsnytt* No. 1, March 2005: 16-17.

Glinwood R., Birkett M., Kumar, S. Ninkovic V and Pettersson J (2008) Sustainable plant protection for increased food security in a changing climate. *Currents* 44/45: 29-33.

Ninkovic V, Glinwood R, Pettersson J (2011) Samverkan mellan växter ger ökat växtskydd. *Växtskyddsnotiser* 66: 12-14

Åhman, I., Crespo, L., Ninkovic, V., Glinwood, R. & Jonsson, L. 2012. Plantprat – Resistens mot bladlöss i korn och vete. Rapport från Växtodlings- och växtskydds dagar i Växjö den 4 och 5 december 2012. ISSN 0282-180X Meddelande från Södra Jordbruksförsöksdistriktet nr 65: 12:1-12:3.

### **Oral presentations at international conferences**

Glinwood, R, Pettersson, J., Ahmed , E., Ninkovic , V (2002). Weed-barley allelopathy affects aphid host plant selection. IOBC Sicily September 22-27. **(Invited speaker)**.

Glinwood, R. and Ninkovic, V. (2004) Effects of allelobiosis on insect-plant relationships: weeds, barley, aphids and natural enemies. Twelfth International Symposium on Insect-Plant Relationships, August 7-11, Berlin, Germany, (SIP 12).

Glinwood, R. (2004) Plant-plant allelobiosis and tritrophic interactions. 20<sup>th</sup> Brazilian Congress of Entomology, Gramado, Brazil, September 5-10 2004. **(Invited speaker)**.

Glinwood, R. (2007) Allelobiosis: chemical interaction between undamaged plants. Entomology 07- Annual conference Royal Entomological Society of Great Britain, Edinburgh, UK, July 16-18 2007. **(Invited speaker, keynote address)**.

Glinwood R. (2008) Chemical interactions between undamaged plants- a tritrophic perspective. Conference of the International Society for Chemical Ecology, Penn State Univ. USA, August 17-22 2008 **(Invited speaker)**.

Glinwood R (2011) Chemical interactions between undamaged plants- effects on plants and insects. International Botanical Congress, Melbourne, Australia July 23-30 2011 **(Invited speaker)**.

**Glinwood R** (2012) Airborne interactions between different plant cultivars- effects on aphids and their natural enemies. International Congress of Entomology, Daegu, S. Korea, August 19-24 2012 **(Invited speaker)**.