

CONTENTS

	Preface	vii
1.	Chemical ecology: a multidisciplinary approach <i>W. Takken and M. Dicke (The Netherlands)</i>	1
2.	Chemical communication: five major challenges in the postgenomics age <i>D.J. Penn (Austria)</i>	9
3.	Plant-insect interactions in the era of consolidation in biological sciences: <i>Nicotiana attenuata</i> as an ecological expression system <i>A. Kessler (USA)</i>	19
4.	The effect of host-root-derived chemical signals on the germination of parasitic plants <i>R. Matúšová and H.J. Bouwmeester (The Netherlands)</i>	39
5.	Chemical signalling between plants: mechanistic similarities between phytotoxic allelopathy and host recognition by parasitic plants <i>A. Tomilov, N. Tomilova, D.H. Shin, D. Jamison, M. Torres, R. Reagan, H. McGray, T. Horning, R. Truong, A.J. Nava, A. Nava and J.I. Yoder (USA)</i>	55
6.	The chemosensory system of <i>Caenorhabditis elegans</i> and other nematodes <i>D.M. O'Halloran, D.A. Fitzpatrick and A.M. Burnell (Ireland)</i>	71
7.	Variation in learning of herbivory-induced plant odours by parasitic wasps: from brain to behaviour <i>H.M. Smid (The Netherlands)</i>	89
8.	Visualizing a fly's nose: genetic and physiological techniques for studying odour coding in <i>Drosophila</i> <i>M. de Bruyne (Australia)</i>	105

- 9. Chemical communication between roots and shoots: towards an integration of aboveground and belowground induced responses in plants** **127**
N.M. van Dam and T.M. Bezemer (The Netherlands)
- 10. Food-web interactions in lakes: what is the impact of chemical information conveyance?** **145**
E. van Donk (The Netherlands)
- 11. Plant volatiles yielding new ways to exploit plant defence** **161**
J.A. Pickett (UK), T.J.A. Bruce (UK), K. Chamberlain (UK), A. Hassanali (Kenya), Z.R. Khan (Kenya), M.C. Matthes (UK), J.A. Napier (UK), L.E. Smart (UK), L.J. Wadhams (UK) and C.M. Woodcock (UK)
- 12. Chemical ecology from genes to communities: integrating 'omics' with community ecology** **175**
M. Dicke (The Netherlands)