

## Publications in refereed journals

## 2019

191. Desurmont, G., D. Laplanche, C. Müller, R. Gols, O. Balmer, E. Belz, V. Trunz and T.C.J. Turlings (2019). Exotic herbivores as disrupters of chemically mediated interactions between plants and natural enemies. (*in prep*)
190. Kim J.W., I. Hiltbold, B.E. Hibbard and & T.C.J. Turlings (2019). Calcium-alginate beads as a formulation for the application of entomopathogenic nematodes to control the Western corn rootworm. (*in prep*)
189. Xu H., G. Zhou, S. Dötterl, I. Schäffler, M. von Arx, G. Roeder, T. Degen, L. Chen, T.C.J. Turlings (2019). The combined use of an attractive and repellent sex pheromone by a gregarious parasitoid. ***Journal of Chemical Ecology*** 45: 559-569
188. Abdala-Roberts L., T. Quijano-Medina, X. Moreira, V. Parra-Tabla, J. Berny-Mier y Teran, L. Grandi, G. Glauser, T.C.J. Turlings, and B. Benrey (2019). Bottom-up effects of plant defenses and climate on geographic variation in insect herbivory on wild cotton (*Gossypium hirsutum*). ***American Journal of Botany*** 106:1059-1067
187. Zhang P.-J., J.-N. Wei, C. Zhao, Y.-F. Zhang, C.-Y. Li, S.-S. Liu, M. Dicke, X.-P. Yu, and T.C.J. Turlings (2019). Airborne host-plant manipulation by whiteflies via an inducible blend of plant volatiles. ***Proc. Natl. Acad. Science USA*** 116: 7387-7396
186. Imperiali, N., G. Jaffuel, K. Shelby, R. Campos-Herrera, R. Geisert, M. Maurhofer, J. Loper, C. Keel, and T.C.J. Turlings, B.E. Hibbard (2019). Protecting maize from rootworm damage with the combined application of arbuscular mycorrhizal fungi, *Pseudomonas* bacteria and entomopathogenic nematodes. ***Scientific Reports*** 9, 3127
185. Abdala-Roberts L., B. Pérez Niño, X. Moreira, V. Parra-Tabla, L. Grandi, G. Glauser, B. Benrey, and T.C.J. Turlings (2019). Effects of early-season insect herbivory on subsequent pathogen infection and ant abundance on wild cotton (*Gossypium hirsutum*). ***Journal of Ecology*** 107: 1518-1529
184. Jaffuel G., V. Půža, A.-S. Hug, R. G. Meuli, J. Nermuť, T.C.J. Turlings, G.A. Desurmont, R. Campos-Herrera (2019). Molecular detection and quantification of slug parasitic nematodes from the soil and their hosts. ***Journal of invertebrate pathology*** 160: 18-25
183. Gasmi L., M. Martínez-Solís, A. Frattini, M. Ye, M.C. Collado, T.C.J. Turlings, M. Erb, and S. Herrero (2019). Can herbivore-induced volatiles protect plants by increasing the herbivores' susceptibility to natural pathogens? ***Applied and Environmental Microbiology*** (online: DOI: 10.1128/AEM.01468-18)
182. Machado R.A.R., P. Bruno, C.C.M. Arce, N. Liechti, A. Köhler, J. Bernal, R. Bruggmann, T.C.J. Turlings (2019). *Photorhabdus khanii* subsp. guanajuatensis subsp. nov., isolated from *Heterorhabditis atacamensis*, and *Photorhabdus luminescens* subsp. mexicana subsp. nov., isolated from *Heterorhabditis mexicana* entomopathogenic nematodes. ***International Journal of Systematic and Evolutionary Microbiology*** (online: doi: 10.1099/ijsem.0.003154)

## 2018

181. Girod, P., O. Lierhmann, T. Urvois, T.C.J. Turlings, M. Kenis, and T. Haye (2018). Host specificity of Asian parasitoids for potential classical biological control of *Drosophila suzukii*. ***Journal of Pest Science*** 91: 1241-1250
180. De Lange, E.S. K. Farnier, T. Degen, B. Gaudillat, R. Aguilar-Romero, F. Bahena-Juárez, K. Oyama and T.C.J. Turlings (2018). Parasitic wasps can reduce mortality of teosinte plants infested with fall armyworm: support for a defensive function of herbivore-induced plant volatiles. ***Frontiers in Ecology and Evolution***-Chemical Ecology 6: 55

179. Ye, M., N. Veyrat, H. Xu, T.C.J. Turlings and M. Erb (2018). An herbivore-induced plant volatile reduces parasitoid attraction by changing the smell of caterpillars. *Science Advances* 4: eaar4767
178. Jaffuel, G., R. Blanco-Pérez, A.-S. Hug, X. Chiriboga, R.G. Meuli, F. Mascher, T.C.J. Turlings and R. Campos-Herrera (2018). The evaluation of entomopathogenic nematode soil food web assemblages across Switzerland reveals major differences among agricultural, grassland and forest ecosystems. *Agriculture, Ecosystems & Environment* 262: 48-57.
177. Girod, P., L. Rossignaud, T. Haye, T.C.J. Turlings and M. Kenis (2018). Development of Asian parasitoids in larvae of *D. suzukii* feeding on blueberry and artificial diet. *Journal of Applied Entomology* 142: 483-494
176. Turlings, T.C.J. and M. Erb (2018). Tritrophic interactions mediated by herbivore-induced plant volatiles: mechanisms, ecological relevance, and application potential. *Annual Review of Entomology* 63: 433-452
175. Xu H. and T.C.J. Turlings (2018). Plant volatiles as mate-finding cues for insects. *Trends in Plant Science* 23: 100–111
174. Jaffuel, G., L. Chappuis, D. Guillarme, T.C.J. Turlings, and G. Glauser (2018). Improved separation by at-column dilution in preparative hydrophilic interaction chromatography. *Journal of Chromatography A* 1532: 136-143
173. Sobhy, I.S., T.J.A. Bruce, and T.C.J. Turlings (2018). Priming of cowpea volatile emissions with defense inducers enhances the plant's attractiveness to parasitoids when attacked by caterpillars. *Biocontrol Science & Technology* 74: 966-977
172. Chiriboga M., X., H. Guo, R. Campos-Herrera, G. Röder, N. Imperiali, C. Keel, M. Maurhofer, T.C.J. Turlings (2018). Root-colonizing bacteria enhance the levels of (*E*)- $\beta$ -caryophyllene produced by maize roots in response to rootworm feeding. *Oecologia* 187: 459-468
171. Desurmont, G.A., A. Guiguet and T.C.J. Turlings (2018). Invasive insect herbivores as disrupters of chemically-mediated tritrophic interactions: effects of herbivore density and parasitoid learning. *Biological Invasions* 20: 195-206
170. Carrasco, D., G. Desurmont, D. Laplanche, M. Proffit, R. Gols, P. Becher, M. Larsson, T.C.J. Turlings and P. Anderson (2018). With or without you: effects of the concurrent range expansion of an herbivore and its natural enemy on native species interactions. *Global Change Biology* 24: 631-643
169. Gaillard M.D.P., G. Glauser, C.A.M. Robert and T.C.J. Turlings (2018). Fine-tuning the 'plant domestication-reduced defense' hypothesis: specialist vs generalist herbivores. *New Phytologist* 217: 355-366
- 2017**
168. Imperiali N., X. Chiriboga, K. Schlaeppli, M. Fesselet, D. Villacrés, G. Jaffuel, S. F. Bender, F. Dennert, R. Blanco-Pérez, M.G.A. van der Heijden, M. Maurhofer, F. Mascher, T.C.J. Turlings, C. Keel and R. Campos-Herrera (2017). Combined field inoculations of *Pseudomonas* bacteria, arbuscular mycorrhizal fungi and entomopathogenic nematodes and their effects on wheat performance. *Frontiers in Plant Science* 8: 1809
167. Canestrari, D., D. Bolopo, T.C.J. Turlings, G. Röder, J.M. Marcos and V. Baglione (2017). Formal comment to Soler et al.: Great spotted cuckoo nestlings have no antipredatory effect on magpie or carrion crow host nests in southern Spain. *Plos ONE* 12: e0184446.
166. Desurmont G. A., A. Köhler, D. Maag, D. Laplanche, H. Xu, J. Baumann, C. Demairé, D. Devenoges, M. Glavan, L. Mann and T.C.J. Turlings (2017). The spitting image of plant defenses: effects of plant secondary chemistry on the efficiency of caterpillar regurgitant as an anti-predator defense. *Ecology and Evolution* 7: 6304-6313
165. Jaffuel G., R. Blanco-Pérez, L. Büchi, P. Mäder, A. Fliessbach, R. Charles, T. Degen, T.C.J. Turlings and R. Campos-Herrera (2017). Effects of cover crops on the overwintering success of entomopathogenic nematodes and their antagonists. *Applied Soil Ecology* 114: 62-73

164. Brüttsch, T., G. Jaffuel, A. Vallat, T.C.J. Turlings and M. Chapuisat (2017). Wood ants produce a potent antimicrobial agent by applying formic acid on tree-collected resin. *Ecology and Evolution* 7: 2249-2254
163. Chiriboga M., X., R. Campos-Herrera, G. Jaffuel, G. Röder and T.C.J. Turlings (2017). Diffusion of the maize root signal (*E*)- $\beta$ -caryophyllene in soils of different textures and the effects on the migration of the entomopathogenic nematode *Heterorhabditis megidis*. *Rhizosphere* 3: 53–59
162. Xu, H., D. Gaylord, T. Degen, G. Zhou, D. Laplanche, L. Henryk and T.C.J. Turlings (2017). Combined use of herbivore-induced plant volatiles and sex pheromones for mate location in braconid parasitoids. *Plant, Cell & Environment* 3: 330-339
161. Röder, G., M. Mota and T. C. J. Turlings (2017). Host plant location by chemotaxis in an aquatic beetle. *Aquatic Sciences* 79: 309-318

## 2016

160. Maag, D., A. Köhler, C.A.M. Robert, M. Frey, J.-L. Wolfender, T.C.J. Turlings, G. Glauser and M. Erb. (2016). Highly localised and persistent induction of Bx1-dependent herbivore resistance factors in maize. *The Plant Journal* 88: 976–991
159. Jaffuel, G., P. Mäder, Ru. Blanco-Perez, X. Chiriboga, A. Fliessbach, T.J.C. Turlings and R. Campos-Herrera (2016). Prevalence and activity of entomopathogenic nematodes and their antagonists in soils that are subject to different agricultural practices. *Agriculture, Ecosystems & Environment* 230: 329–340
158. Rasmann, S. and T.C.J. Turlings (2016). Root signals that mediate mutualistic interactions in the rhizosphere. *Current Opinion in Plant Biology* 32: 62–68
157. Ardanuy, A., R. Albajes and T.C.J. Turlings (2016). Innate and learned prey-searching behavior in a generalist predator. *Journal of Chemical Ecology* 42(6): 497-507
156. Desurmont, G.A., H. Xu and T.C.J. Turlings (2016). Powdery mildew suppresses herbivore-induced plant volatiles and interferes with parasitoid attraction in *Brassica rapa*. *Plant, Cell & Environment* 39: 1920-1927
155. Desurmont, G.A., M.A. Zemanova and T.C.J. Turlings (2016). The gastropod menace: Slugs on Brassica plants affect caterpillar survival through consumption and interference with parasitoid attraction. *Journal of Chemical Ecology* 3: 183-192
154. Liu, X.-F., H.-H. Chen, J.-K. Li, R. Zhang, T.C.J. Turlings and L. Chen (2016). Volatiles released by Chinese liquorice roots mediate host location behavior by neonate *Porphyrophora sophorae* (Hemiptera: Margarodidae). *Pest Management Science* 72(10): 1959-1964
153. Veyrat, N., C.A.M. Robert, H. Xu, M. Frey, J. Ton, T.C.J. Turlings and M. Erb (2016). Herbivore intoxication as a potential primary function of an inducible volatile plant signal. *Journal of Ecology* 104 (2): 591-600
152. de Lange, E. S., K. Farnier, B. Gaudillat and T.C.J. Turlings (2016). Comparing the attraction of two parasitoids to herbivore-induced volatiles of maize and its wild ancestors, the teosintes. *Chemoecology* 26 (1): 33-44

## 2015

151. Erb, M., G. Marti, C. Robert, J. Lu, G.R. Doyen, N. Villard, Y. Barrière, B. W. French, J.-L. Wolfender and T.C.J. Turlings (2015). A physiological and behavioral mechanism for leaf-herbivore induced systemic root resistance. *Plant Physiology* 69(4): 2884-2894
150. Benrey, B., T. Degen and T.C.J Turlings (2015). Special Issue: 15th International Symposium on Insect-Plant Relationships Preface. *Entomologia Experimentalis et Applicata* 157(1): 1-1

149. Campos-Herrera, R., V. Půža, G. Jaffuel, R. Blanco-Pérez, R. Čepulytė-Rakauskienė and T.C.J. Turlings (2015). Unraveling the intraguild competition between *Oscieius* spp. and entomopathogenic nematodes: implications for their natural distribution in Swiss tillage soils. **Journal of Invertebrate Pathology** 132: 216–227
148. Maag, D., M. Erb, J. S. Bernal, J.-L. Wolfender, T.C.J. Turlings and G. Glauser (2015). Maize domestication and anti-herbivore defences: leaf-specific dynamics during early ontogeny of maize and its wild ancestors. **PLoS One** 10 (8) DOI: 10.1371/journal.pone.0135722
147. Pineda, A., R. Soler, M. J. Pozo, S. Rasmann and T.C.J. Turlings (2015). Above-belowground interactions involving plants, microbes and insects. **Frontiers in Plant Science** <http://dx.doi.org/10.3389/fpls.2015.00318>
146. Klausner D., G. Desurmont, G. Glauser, A. Vallat, P. Flury, T. Boller, T.C.J. Turlings and S. Bartels (2015). The Arabidopsis AtPep-PEPR danger detection system is induced by *Spodoptera littoralis* oral secretions to mediate defense responses against herbivores. **Journal of Experimental Botany** 66: 5327-36
145. Jaffuel G., I. Hiltbold and T.C.J. Turlings (2015). Highly potent extracts from pea (*Pisum sativum*) and maize (*Zea mays*) roots can be used to induce quiescence in entomopathogenic nematodes. **Journal of Chemical Ecology** 41 : 793-800
144. Amorós-Jiménez, R., C.A.M. Robert, M.Á. Marcos-García, A. Fereres and T.C.J. Turlings (2015). A differential role of volatiles from conspecific and heterospecific competitors in the selection of oviposition sites by the aphidophagous hoverfly *Sphaerophoria rueppellii*. **Journal of Chemical Ecology** 41(5):493-500
143. Desurmont G.A., D. Laplanche, F.P. Schiestl and Turlings T.C.J. (2015). Floral volatiles interfere with plant attraction of parasitoids: ontogeny-dependent infochemical dynamics in *Brassica rapa*. **BMC Ecology** 15:17 DOI 10.1186/s12898-015-0047-7
142. Campos-Herrera R., G. Jaffuel, X. Chiriboga, R. Blanco-Pérez, M. Fesselet, V. Půža, F. Mascher and T. C. J. Turlings (2015). Traditional and molecular detection methods reveal intense interguild competition and other multitrophic interactions associated with native entomopathogenic nematodes in Swiss tillage soils. **Plant & Soil** 389: 237-255
141. Erb M., N. Veyrat, C.A.M. Robert, H. Xu, M. Frey, J. Ton and T.C.J. Turlings (2015). Indole is an essential herbivore-induced volatile priming signal in maize. **Nature Communications** 6: 6273
140. Kim J.W., G. Jaffuel, and T.C.J. Turlings (2015). Enhanced alginate capsule properties as a formulation of entomopathogenic nematodes. **Biocontrol** 60: 527-535
139. Hiltbold I., G. Jaffuel, T.C.J. Turlings (2015). The dual effects of root cap exudates on nematodes: from quiescence in plant-parasitic nematodes to frenzy in entomopathogenic nematode. **Journal of Experimental Botany** 66: 603-11
138. Sobhy I.S., M. Erb and T.C.J. Turlings (2015). Plant strengtheners enhance parasitoid attraction to herbivore-damaged cotton via qualitative and quantitative changes in induced volatiles. **Pest Management Science** 71 : 686-693
137. Köhler A., D. Maag, N. Veyrat, G. Glauser, J.-L. Wolfender, T. C. J. Turlings, M. Erb (2015). Within-plant distribution of 1,4-benzoxazin-3-ones contributes to herbivore niche differentiation in maize. **Plant, Cell and Environment** 38:1081-93
136. Chabaane Y., D. Laplanche, T. C. J. Turlings and G. A. Desurmont (2015). Impact of exotic insect herbivores on native tritrophic interactions: a case study of the African cotton leafworm, *Spodoptera littoralis*. **Journal of Ecology** 103: 109-117

**2014**

135. de Lange E., D. Balmer, B. Mauch-Mani, T.C.J. Turlings (2014). Insect and pathogen resistance in cultivated maize and its wild ancestor, teosinte. **New Phytologist** 204: 329-341 (Review)
134. Xu H., N. Veyrat, T. Degen, T.C.J. Turlings (2014). Exceptional use of sex pheromones in parasitoids of the genus *Cotesia*: males are strongly attracted to virgin females, but are no longer attracted to or even repelled by mated females. **Insects** 5: 499-512
133. Röder, G. D, D. Canestrari, D. Bolopo, J.M. Marcos, N. Villard, V. Baglione, and T.C.J. Turlings (2014). Chicks of the great spotted cuckoo may turn brood parasitism into mutualism by producing a foul-smelling secretion that repels predators. **Journal of Chemical Ecology** 40: 320-324
132. Loreto F., M. Dicke, J.-P. Schnitzler, T.C.J. Turlings (2014). Plant volatiles and the environment: a preface. **Plant, Cell and Environment** 37:1905-1908
131. Desurmont G.A., J. Harvey, N.M. van Dam, S. Cristescu, F.P. Schiestl, S. Cozzolino, P. Anderson, M.C. Larsson, P. Kindlmann, H. Danner, and T.C.J. Turlings (2014). Alien interference: Disruption of infochemical networks by invasive insect herbivores. **Plant, Cell and Environment** 37: 1854-1865
130. Robert C.A.M., R.A. Ferrieri, S. Schirmer, B.A. Babst, M.J. Schueller, R.A.R. Machado, C.C.M. Arce, B.E. Hibbard, J. Gershenson, T.C.J. Turlings and M. Erb (2014). Induced carbon reallocation and compensatory growth as root herbivore tolerance mechanisms. **Plant, Cell and Environment** 11: 2613-2622
129. Maag D., C. Dalvit, D. Thevenet, A. Köhler, F.C. Wouters, D.G. Vassão, J. Gershenson, J.-L. Wolfender, T.C.J. Turlings, M. Erb, and G. Glauser (2014). 3- $\beta$ -D-glucopyranosyl-6-methoxy-2-benzoxazolinone (MBOA-N-Glc) is an insect detoxification product of maize 1,4-benzoxazin-3-ones. **Phytochemistry** 102 : 97–105
128. Turlings T.C.J. (2014). From applied entomology to evolutionary ecology and back (Essay for the 40<sup>th</sup> anniversary issue). **Journal of Chemical Ecology** 40: 224
127. Canestrari D., D. Bolopo, T.C.J. Turlings, G. Röder, J.M. Marcos and V. Baglione (2014). From parasitism to mutualism: unexpected interactions between a cuckoo and its host. **Science** 343: 1350-1352
126. Sobhy, I.S., M. Erb, Y. Lou and T. C. J. Turlings (2014). The prospect of applying chemical elicitors and plant strengtheners to enhance the biological control of crop pests. **Philosophical Transactions B** 369: 1471-2970 (review)
125. D'Alessandro, M., M. Erb, J. Ton, A. Brandenburg, D. Karlen, J. Zopfi T.C.J. Turlings (2014). Volatiles produced by soil-borne endophytic bacteria increase plant pathogen resistance and affect tritrophic interactions. **Plant, Cell and Environment** 37: 813-826

**2013**

124. Zhang, P.-J., C.-X. Xu, Y.-B. Lu, J.-M. Zhang, Y.-Q. Liu, A. David, W. Boland and T.C.J. Turlings (2013). Phloem-feeding whiteflies can fool their host plants, but not their parasitoids. **Functional Ecology** 27, 1304–1312
123. von Mérey, G.E., N. Veyrat, M. D'Alessandro and T.C.J. Turlings (2013). Herbivore-induced maize leaf volatiles affect attraction and feeding behaviour of *Spodoptera littoralis* caterpillars. **Frontiers in plant-microbe interactions** 4: 209
122. Robert C.A.M., M. Erb, I. Hiltpold, B. Hibbard, M. Gaillard, J. Bilat, J. Degenhardt, X. Cambet-Petit-Jean, T.C.J. Turlings and C. Zwahlen (2013). Genetically engineered maize plants reveal distinct costs and benefits of constitutive volatile emissions in the field. **Plant Biotechnology Journal** 11(5): 628-39
121. Huffaker, A., G. Pearce, N. Veyrat, M. Erb, T. C. J. Turlings, M. M. Vaughan, P.E.A. Teal, H.T. Alborn, E.A. Schmelz (2013). Plant elicitor peptides are conserved signals regulating direct and indirect anti-herbivore defense. **Proc. Natl. Acad. Science USA** 110(14): 5707-5712

120. Glauser G., N. Veyrat, B. Rochat, J. L. Wolfender, T. C. J. Turlings (2013). Ultra-high pressure liquid chromatography-mass spectrometry for plant metabolomics: a systematic comparison of high-resolution quadrupole-time-of-flight and single stage Orbitrap mass spectrometers. *Journal of Chromatography A* 1292: 151-159
119. Robert C.A.M., D.L. Frank, K.A. Leach, T.C.J. Turlings, B.E. Hibbard and M. Erb (2013). Direct and indirect plant defenses are not suppressed by endosymbionts of a specialist root herbivore. *Journal of Chemical Ecology* 39(4): 507-515
118. Christensen S.A., A. Nemchenko, E. Borrego, I. Murray, I.S. Sobhy, L. Bosak, S. DeBlasio, M. Erb, C.A.M. Robert, K.A. Vaughn, C. Herrfurth, J. Tumlinson, I. Feussner, D. Jackson, T.C.J. Turlings, J. Engelberth, C. Nansen, R. Meeley and M.V. Kolomiets (2013). The maize lipoxygenase, ZmLOX10, mediates green leaf volatile, jasmonate and herbivore-induced plant volatile production for defense against insect attack. *The Plant Journal* 74, 59–73
117. Marti G., M. Erb, J. Boccard, G. Glauser, G. R. Doyen, N. Villard, T.C.J. Turlings, S. Rudaz and J.-L. Wolfender (2013). Metabolomics reveals herbivore-induced metabolites of resistance and susceptibility in maize leaves and roots. *Plant, Cell and Environment* 36(3): 621-39

## 2012

116. Robert C.A.M., M. Erb, B.E. Hibbard, B.W. French, C. Zwahlen, and T.C.J. Turlings (2012). A specialist root herbivore reduces plant resistance and uses an induced plant volatile to aggregate in a density dependent manner. *Functional Ecology* 26, 1429–1440
115. Xiao, Y., Q. Wang, M. Erb, T.C.J. Turlings, L. Ge, J. Hu, J. Li, X. Han, T. Zhang, J. Lu, G. Zhang and Y. Lou (2012). Specific herbivore-induced volatiles defend plants and determine insect community composition in the field. *Ecology Letters* 15: 1130-1139
114. Hiltbold, I., B.E. Hibbard, B.W. French and T.C.J. Turlings (2012). Capsules containing entomopathogenic nematodes as a Trojan horse approach to control the western corn rootworm. *Plant and Soil* 385: 11-25
113. Turlings, T.C.J., I. Hiltbold and S. Rasmann (2012). The importance of root-produced volatiles as foraging cues for entomopathogenic nematodes. *Marschner Review* for the "Rhizosphere 3" Special Issue. *Plant and Soil* 358: 51–60
112. Glauser, G., F. Schweizer, T.C.J. Turlings and P. Reymond (2012). Rapid profiling of intact glucosinolates in Arabidopsis leaves by UHPLC-QTOFMS using a charged surface hybrid column. *Phytochemical Analysis* 23: 520-528
111. Hiltbold, I., and T.C.J. Turlings (2012). Manipulation of chemically mediated interactions in agricultural soils to enhance the control of crop pests and to improve crop yield. *Journal of Chemical Ecology* 38:641-50
110. Robert, C.A.M., M. Erb, M. Duployer, C. Zwahlen, G.R. Doyen and T.C.J. Turlings (2012). Herbivore-induced plant volatiles mediate host selection by a root herbivore. *New Phytologist* 194: 1061-1069
109. Sobhy, I.S., M. Erb, A. A. Sarhan, M. M. El-Husseini, N.S. Mandour and T. C. J. Turlings (2012). Less is more: treatment with BTH and laminarin reduces herbivore-induced volatile emissions in maize but increases parasitoid attraction. *Journal of Chemical Ecology* 38: 348-360
108. Xin, Z., Z. Yu, B. Wang, J. Qi, M. Erb, T.C.J. Turlings, S. Liu, and Y. Lou (2012). The broadleaf herbicide 2,4-dichlorophenoxyacetic acid turns rice into a living trap for a major insect pest and a parasitic wasp. *New Phytologist* 194: 498-510.
107. Degen, T., N. Bakalovic, D. Bergvinson, and T.C.J. Turlings (2012). Differential performance and parasitism of caterpillars on maize inbred lines with distinctly different herbivore-induced volatile emissions. *PLoS One* 7(10): e47589



106. Heng-Yu L., R. Théron, G. Röder, T. Turlings, Yun Luo, R.F.M. Lange, C. Ballif, and L.-E. Perret-Aebi (2012). Insights into the encapsulation process of photovoltaic modules: GCMS analysis on the curing step of poly(ethylene-co-vinyl acetate) (EVA) encapsulant. *Polymers & Polymer Composites* 20, 665-672
105. Robert, C.A.M., N. Veyrat, G. Glauser, G. Marti, G.R. Doyen, N. Villard, M.D.P. Gaillard, T.G. Köllner, D. Giron, M. Body, B.A. Babst, R. A. Ferrieri, T.C.J. Turlings and M. Erb (2012). A specialist root herbivore exploits defensive metabolites to locate nutritious tissues. *Ecology Letters* 15: 55–64
104. von Mérey G. E., N. Veyrat, E. de Lange, T. Degen, G. Mahuku, R. López Valdez, T.C.J. Turlings, and M. D’Alessandro (2012). Minor effects of two elicitors of insect and pathogen resistance on the volatile emission and the biological control of *Spodoptera frugiperda* in maize fields. *Biological Control* 60: 7-15

## 2011

103. Erb, M., D. Balmer, E. de Lange, G. von Mérey, C. Planchamp, C. Robert, G. Roeder, I. Sobhy, C. Zwahlen, B. Mauch-Mani and T.C.J. Turlings (2011). Synergies and trade-offs between insect and pathogen resistance in maize leaves and roots. *Plant Cell and Environment* 34: 1088-1103
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**BOOK (CHAPTERS)**

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