

**Habitat complexity –
how structural and chemical vegetation characteristics
mediate host-parasitoid interactions**

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*Für meine Familie –
In beiden Welten*

This thesis is based on the following manuscripts

- I. Barbara Randlkofer, Elisabeth Obermaier, Torsten Meiners (2007) Mother's choice of the oviposition site: balancing risk of egg parasitism and need of food supply for the progeny with an infochemical shelter? *Chemoecology* 17: 177-186.
- II. Elisabeth Obermaier, Annette Heisswolf, Hans Joachim Poethke, Barbara Randlkofer, Torsten Meiners (in press) Plant architecture and vegetation structure: two ways for insect herbivores to escape parasitism. *European Journal of Entomology*
- III. Elisabeth Obermaier, Annette Heisswolf, Barbara Randlkofer, Torsten Meiners (2006) Enemies in low places – insects avoid winter mortality and egg parasitism by modulating oviposition height. *Bulletin of Entomological Research* 96 (4): 337-343.
- IV. Barbara Randlkofer, Florian Jordan, Oliver Mitesser, Torsten Meiners, Elisabeth Obermaier (manuscript) Vegetation density as non-consumable resource: an important factor mediating oviposition site selection of herbivorous insects.
- V. Barbara Randlkofer, Elisabeth Obermaier, Jérôme Casas, Torsten Meiners (submitted) Connectivity counts – disentangling effects of vegetation structures on the searching movement of a parasitoid through manipulative experiments.
- VI. Barbara Randlkofer, Elisabeth Obermaier, Monika Hilker, Torsten Meiners (manuscript) Vegetational complexity – the influence of plant diversity, chemical diversity and vegetation structure on herbivores and their natural enemies.

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