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Nota di contenuto	Intro -- 1. General introduction and aim of the thesis -- 2 Chemical profiling of male-specific Aphrodisiac pheromones of Pieris rapae populations from different geographic regions -- 2.1 Abstract -- 2.2 Introduction -- 2.3 Materials and Methods -- 2.4 Results -- 2.5 Discussion -- 3 Electroantennographic responses of female P. rapae subspecies to the male wings' volatiles -- 3.1 Abstract -- 3.2 Introduction -- 3.3 Materials and Methods -- 4. Quantification of volatile compounds in the wings of Pieris brassicae and attraction tests of compounds in behavioral assay -- 4.1 Abstract -- 4.2 Introduction -- 4.3 Materials and Methods -- 4.4 Results -- 4.5 Discussion -- 5. Host plant suitability of various Brassica cultivars for Pieris species and their response to herbivory -- 5.1 Abstract -- 5.2 Introduction -- 5.3 Materials and Methods -- 5.4 Results -- 5.5 Discussion -- 6 General Discussion -- 7 References -- 8 Summary -- 9 Zusammenfassung -- 10 Acknowledgments -- 11 Selbstständigkeitserklärung.