



Stefanie Schläger (Autor)

Identification of variation within sex pheromone blends of various *Maruca vitrata* populations for refining pheromone lures and traps in Asia

Berliner ökophysiologische
und phytomedizinische Schriften



Band 40

Stefanie Schläger

Identification of variation within
sex pheromone blends of various
Maruca vitrata populations for
refining pheromone lures and traps
in Asia



Cuvillier Verlag Göttingen
Internationaler wissenschaftlicher Fachverlag

<https://cuvillier.de/de/shop/publications/7565>

Copyright:

Cuvillier Verlag, Inhaberin Annette Jentsch-Cuvillier, Nonnenstieg 8, 37075 Göttingen, Germany
Telefon: +49 (0)551 54724-0, E-Mail: info@cuvillier.de, Website: <https://cuvillier.de>



Table of Contents

1 Chapter I 1

General Introduction and Thesis Outline

1.1 The Legume Pod Borer as a Pest Insect	1
1.2 Lepidopteran Sex Pheromones and their Application in Pest Management	3
1.3 Sex Pheromone Components and Blends of <i>Maruca vitrata</i>	5

2 Chapter II..... 8

Developing Pheromone Lures for *Maruca vitrata* in Taiwan: Electrophysiological Responses of Males to Sex Pheromone Components and Field Evaluation of Pheromone Traps

2.1 Abstract	8
2.2 Introduction	9
2.3 Methods and Materials	10
2.4 Results	18
2.5 Discussion	21
2.6 Supplementary Material	25

3 Chapter III 27

Pheromone Blend Analysis of *Maruca vitrata* Populations from Tropical Asia and Field Evaluation of Synthetic Pheromone Blends in Taiwan

3.1 Abstract	27
3.2 Introduction	28
3.3 Methods and Materials	30
3.4 Results	33
3.5 Discussion	36
3.6 Supplementary Material	38



4 Chapter IV	40
Chemical Stability of <i>Maruca vitrata</i> Sex Pheromone Compounds on Different Dispensers under Storage and Simulated Field Conditions	
4.1 Abstract	40
4.2 Introduction	41
4.3 Methods and Materials	43
4.4 Results	46
4.5 Discussion	55
4.6 Supplementary Material	58
5 Chapter V	60
Pheromone Blend Analysis and Cross-Attraction among <i>Maruca vitrata</i> Populations from Asia and West Africa	
5.1 Abstract	60
5.2 Introduction	61
5.3 Methods and Materials	63
5.4 Results	67
5.5 Discussion	71
5.6 Supplementary Material	75
6 Chapter VI	76
General Discussion	
7 References	81
8 Summary	91
9 Zusammenfassung	92
10 Acknowledgments.....	94
11 Selbstständigkeitserklärung	96