



UvA-DARE (Digital Academic Repository)

Isomers of green leaf volatiles in *Nicotiana attenuata* and their role in plant-insect interactions

Allmann, S.

Publication date
2012

[Link to publication](#)

Citation for published version (APA):

Allmann, S. (2012). *Isomers of green leaf volatiles in Nicotiana attenuata and their role in plant-insect interactions*. [Thesis, fully internal, Universiteit van Amsterdam]. Wöhrmann Printing Service.

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

Table of Contents

Chapter 1 – General Introduction: Green leaf volatiles as a ‘cure-all’ – biosynthesis, regulation and function.	7
Chapter 2 – Oxylin channeling in <i>Nicotiana attenuata</i> : Lipoxygenase 2 supplies substrates for green leaf volatile production.	31
Chapter 3 – Insects betray themselves in nature to predators by rapid isomerization of green leaf volatiles.	57
Chapter 4 – Isomerization of green leaf volatiles alters the behavioral responses of female <i>Manduca</i> moths.	95
Chapter 5 – Purification and properties of a (3 <i>Z</i>):(2 <i>E</i>)-enal isomerase from <i>Manduca sexta</i> ’s oral secretion.	131
Chapter 6 – General Discussion	151
Summary	167
Samenvatting	169
Zusammenfassung	172
About the author	175
Publications	175
Acknowledgement	177