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**Of moths, mites and microbes - The role of bacteria in the life history of two arthropod herbivores**

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# Author contributions

## **Variability of bacterial communities in the moth *Heliothis virescens* indicates transient association with the host**

HEIKE STAUDACHER, *Martin Kaltenpoth, Johannes A.J. Breeuwer, Steph B.J. Menken, David G. Heckel & Astrid T. Groot*

HS, MK & ATG planned the experiments, HS conducted experiments, HS analysed the data, HS, MK, JAJB, DGH, SBJM & ATG wrote the manuscript

## **Sex-specific trade-offs between immune response and reproduction in a moth**

*Andrea Barthel\**, HEIKE STAUDACHER\*, *Antje Schmaltz, David G. Heckel & Astrid T. Groot*

AB, HS, DGH & ATG planned the experiments, AB & AS conducted the experiments, HS analysed the data, AB, HS, DGH & ATG wrote the manuscript

*\*Contributed equally to this study*

## **Effects of immune challenge on the oviposition strategy of a noctuid moth**

HEIKE STAUDACHER, *Steph B.J. Menken & Astrid T. Groot*

HS & ATG planned the experiments, HS conducted the experiments and analysed the data, HS, SBJM & ATG wrote the article

## **The bacterial symbionts *Wolbachia*, *Cardinium* and *Spiroplasma* affect gene expression and survival of their spider mite host and impact distinct induced responses in plants**

HEIKE STAUDACHER\*, *Bernardus C.J. Schimmel\**, *Mart M. Lamers, Nicky Wybouw, Astrid T. Groot & Merijn R. Kant*

HS, BCJS, ATG, & MRK planned the experiments, BCJS, HS & MML conducted the experiments, HS & NW analysed the data, HS, BCJS, ATG & MRK wrote the manuscript

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# Biography

Heike Staudacher was born on the 30th of January, 1982 in Schramberg, Germany. She obtained the Abitur at the Gymnasium Schramberg in 2001. After the Abitur, Heike studied media informatics for one semester and took a 1-year course in digital film directing at the SAE in Amsterdam. In 2004, she started her studies of Biology at the Free University in Berlin, with paleontology, zoology and genetics as minors and ecology as major subject. She conducted her Diploma thesis at the Max Planck Institute for Chemical Ecology in Jena, Germany, and finished her studies in 2009. In 2010, Heike worked as a field technician on population dynamics of *Aedes aegypti* in Mexico for three months. In 2011, she started her PhD project at the Institute of Biodiversity and Ecosystem Dynamics of the University of Amsterdam with Dr. Astrid Groot as her supervisor and Prof. Dr. Steph Menken as her promotor.

## PUBLICATIONS

- Sato, Y., STAUDACHER, H. & Sabelis, M.W. 2016. Why do males choose heterospecific females in the red spider mite? *Experimental and Applied Acarology* **68**: 21-31.
- Barthel, A.\*, Staudacher, H.\*, Schmaltz, A., Heckel, D. G., & Groot, A.T. 2015. Sex-specific consequences of an induced immune response on reproduction in a moth. *BMC Evolutionary Biology* **15**: 282. (\*equal contribution)
- Melo, J.W.S., Lima, D.B., STAUDACHER, H., Silva, F.R., Gondim Jr, M.G.C. & Sabelis, M.W. 2015. Evidence of *Amblyseius largoensis* and *Euseius alatus* as biological control agent of *Aceria guerreronis*. *Experimental and Applied Acarology* **67**: 411-421.
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- Groot, A.T., STAUDACHER, H., Barthel, A., Inglis, O., Schöfl, G., Santangelo, R., Gebauer-Jung, S., Vogel, H., Emerson, J. & Schal, C. 2013. One quantitative trait locus for intra- and interspecific variation in a sex pheromone. *Molecular Ecology* **22**: 1065-1080.
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