

Transcriptomic divergence of a parasite-populations: two common garden experiments in two hosts

Emanuel G Heitlinger^{*1,2} Horst Taraschewski¹ and Mark Blaxter²

¹Department of Ecology and Parasitology, Zoological Institute 1, University of Karlsruhe, Kornblumenstrasse 13, Karlsruhe, Germany

²Institute of Evolutionary Biology, The Ashworth laboratories, The University of Edinburgh, King's Buildings Campus, Edinburgh, UK

Email: Emanuel G Heitlinger^{*} - emanuelheitlinger@gmail.com; Horst Taraschewski - dc20@rz.uni-karlsruhe.de; Mark Blaxter - mark.blaxter@ed.ac.uk;

^{*}Corresponding author

Abstract

Background:

Results:

Conclusions: Yeh!

Background

Results

The populations differ

The gene expression does too

null device

Discussion

Conclusions

Methods

General coding methods

The bulk of analysis (unless otherwise cited) presented in this paper was carried out in R [1] using custom scripts. We used a method provided in the R-packages Sweave [2] and Weaver [3] for “reproducible research” combining R and T_EXcode in a single file. All intermediate data files needed to compile the present manuscript from data-sources are provided upon request. For visualisation we used the R-packages lattice [4] and ggplot2 [5].

Competing interests

The authors declare no competing interests.

Authors contributions

Acknowledgments

The work of EGH is funded by Volkswagen Foundation, “Förderinitiative Evolutionsbiologie”.

References

1. R Development Core Team: *R: A language and environment for statistical computing*. R Foundation for Statistical Computing, Vienna, Austria 2009, [<http://www.R-project.org>].
2. Leisch F: **Sweave: Dynamic Generation of Statistical Reports Using Literate Data Analysis**. In *Compstat 2002 — Proceedings in Computational Statistics*. Edited by Härdle W, Rönz B, Physica Verlag, Heidelberg 2002:575–580, [<http://www.stat.uni-muenchen.de/~leisch/Sweave>]. [ISBN 3-7908-1517-9].
3. Falcon S: **Caching code chunks in dynamic documents**. *Computational Statistics* 2009, **24**(2):255–261, [<http://www.springerlink.com/content/55411257n1473414>].
4. Sarkar D: *Lattice: Multivariate Data Visualization with R*. New York: Springer 2008, [<http://lmdvr.r-forge.r-project.org>]. [ISBN 978-0-387-75968-5].
5. Wickham H: *ggplot2: elegant graphics for data analysis*. Springer New York 2009, [<http://had.co.nz/ggplot2/book>].

Figures

Figure 1 -

Figure 2 -

Figure 3 -

Figure 4 -

Figure 5 -

Tables

Table 1 -

Table 7 -

Additional Files