

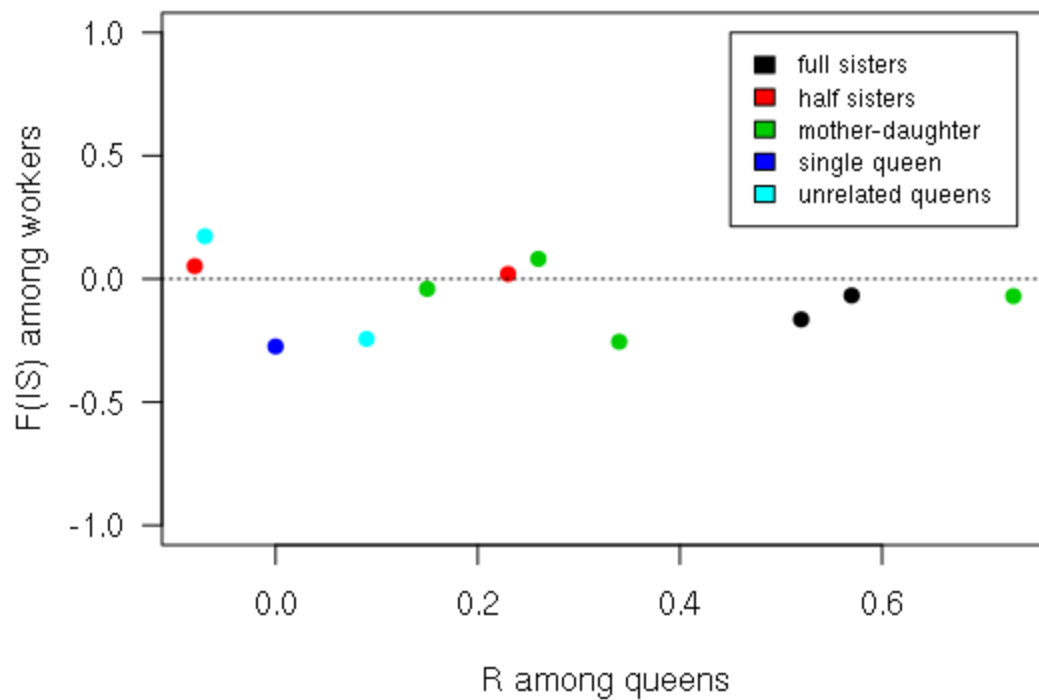
Digital supplementary material to

NEHRING, V., DIJKSTRA, M.B., SUMNER, S., HUGHES, W.O.H. & BOOMSMA, J.J. 2018: Reconstructing the relatedness of cooperatively breeding queens in the Panamanian leaf-cutting ant *Acromyrmex echinator* (Hymenoptera: Formicidae). – Myrmecological News 27: 33-45.

The content of this digital supplementary material was subject to the same scientific editorial processing as the article it accompanies. However, the authors are responsible for copyediting and layout.

Appendix S1: Details for the potentially polygynous colonies discussed in this study (separate .csv file).

Appendix S2: List of all colonies that were genotyped for the current or previous projects, with references to previously published genotyping data and the molecularly derived queen number according to the listed sources (separate .csv file).



Appendix S3: The inbreeding coefficient F_{IS} varied among colonies but did not depend on the relatedness among queen pairs. Positive values of F_{IS} suggest inbreeding, negative values outbreeding. Each data point represents a colony, colours code for the most likely relatedness scenario. There is no correlation between queen relatedness R and the offspring inbreeding coefficient F_{IS} (ANOVA $F_{1,11} = 0.41$, $p = 0.54$).