

Online Resource 4 a) Comparison of intrinsic distances (ordinate) between *Chorthippus biguttulus* (grey boxplots) and Locusta *migratoria* (white boxplots) for increasing levels of processing (abscissa). There were no significant differences between the two species investigated (REZ: p = 0.231; LN: p = 0.119, AN: p = 0.695, Mann-Whitney-U-Test). b) Comparison of the slopes (ordinate) between *Chorthippus biguttulus* and *Locusta migratoria* for increasing levels of processing (abscissa). Again, there were no significant differences between the two species (REZ: p = 0.513; LN: p = 0.187, AN: p = 0.217, Mann-Whitney-U-Test).

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