Appendix S1 List of publications gathered for the review on the use of microsatellite markers with butterflies, mammals and birds

Appendix S2 SIMULATIONS – F<sub>ST</sub> against distance

Appendix S3 SIMULATIONS – Stabilization of the genetic parameters value

Appendix S4 Overlap between subsamples

Appendix S5 EMPIRICAL - Effect of sampling design on allele frequencies

Appendix S6 SIMULATIONS - Effect of sampling design on allele frequencies

Appendix S7 EMPIRICAL – Effect of sampling design on AR

Appendix S8 SIMULATIONS – Effect of sampling design on AR

Appendix S9 EMPIRICAL – Effect of sampling design on H<sub>o</sub>

Appendix S10 SIMULATIONS – Effect of sampling design on  $\ensuremath{\mathsf{H}_{\circ}}$ 

Appendix S11 EMPIRICAL – Effect of sampling design on H<sub>s</sub>

Appendix S12 SIMULATIONS – Effect of sampling design on H<sub>s</sub>

Appendix S13 EMPIRICAL – Effect of sampling design on F<sub>IS</sub>

Appendix S14 SIMULATIONS – Effect of sampling design on FIS

Appendix S15 EMPIRICAL – Effect of sampling design on genetic differentiation

Appendix S16 SIMULATIONS – Effect of sampling design on genetic differentiation