## SUPPLEMENTARY MATERIALS

## Host migration and environmental temperature influence avian haemosporidian prevalence: a molecular survey in a Brazilian Atlantic Rainforest

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**Table S3. Backward selection of the main effects influencing the probability of infection by** *Haemoproteus (Parahaemoproteus)* **sp.** The full random structure was maintained in all models. The Plas.Glmm1 model starts with all main effects (fixed factors), which were sequentially removed. In each step we removed the main effect that explained the small amount of deviance (indicated on the Fixed Factors column). The procedure was repeated until no effect could be removed without causing significant loss of model fit (indicated by the p value column). In this case, this happened only when migratory status was removed from the model, although the improvement in deviance provided by Body mass and Breeding period is marginally significant, indicating a possible role of these factors in the probability of infection by *Haemoproteus* (*Parahaemoproteus*) sp.

Model	<b>Fixed Factors</b>	Deviance	Chisq	DF	Р
Para.Glmm1	Full <sup>4</sup>	180.31			
Para.Glmm2	- Precipitation	180.44	0.133	1	0.715
Para.Glmm3	- Nest shape	181.36	0.916	1	0.338
Para.Glmm4	- Age	182.34	0.979	1	0.322
Para.Glmm5	- Temperature	183.07	0.735	1	0.391
Para.Glmm6	- Body mass	185.83	2.754	1	0.096
Para.Glmm7	- Breeding period	190.34	4.643	2	0.098
Para.Glmm8 (null)	- Migratory status	200.34	9.867	1	0.001**

<sup>'</sup>Full model: *Parahaemoproteus sp.* Infection status ~ Intercept + Age + Precipitation + Migratory Status + Nest Shape + Body mass + Breeding Period + Temperature + (Intercept|Season/Month) +

(Intercept|Order/Family/Genus/Species), family = binomial(link = "logit").