

Table S3. Generalized linear mixed models implemented for each response variable using the “glmmTMB” R package, including zero-inflation and dispersion parameters to reduce effects of heteroscedasticity.

Response variable	glmmTMB distribution	zero- inflation ⁺ (ziformula)	dispersion parameter [†] (dispformula)	full model
Total number of embryos	nbinom1	~1	~1	~ Population * Female size
Total number of capsules	nbinom1	~1	~1	~ Population * Female size
Total number of hatchlings	nbinom1	~1	~1	~ Population * Female size
Total number of clutches	nbinom1	~1	~1	~ Population * Female size
Offspring provisioning	lognormal(link = "log")	~0	~Population	~ Population + Female size + (1 Female ID/clutch ID)
Offspring size	lognormal(link = "log")	~0	~Population	~ Population + Female size + (1 Female ID/clutch ID)
Capsule size	gamma(link = "log")	~0	~Population	~ Population + Female size + (1 Female ID/clutch ID)
Embryo density	genpois(link = "log")	~0	~Population	~ Population + Female size + (1 Female ID/clutch ID)
Offspring survival (F1)	betabinomial	~1	~Population	~ Population + Female size + (1 Female ID/clutch ID) [‡]
Offspring survival (F2)	betabinomial	~Population	~1	~ Temperature * Population + Parental temperature + (1 Female ID) [‡]

⁺ziformula = ~0 (no zero-inflation), ~1 (probability equal for all observation), or ~factor; [†]dispformula = ~1 (standard dispersion for a given distribution family); [‡]weights = total number of embryos.