

Table 7: Multilevel model of individual- and species-level effects of temperature, mean ln(temperature tested) and developmental mode on PLD (Eq. 7, centered at 15 °C).

Summary of Fixed Effects

Individual (Level-1) parameter	Species (Level-2) regression model	Parameter	Estimate	Standard error
Intercept (β_{0i})	Intercept	β_0	0.511	0.598
	Mean ln(test temperature)	β_3	0.739	0.209
	Developmental mode	β_4	0.714	0.225
Rate of change: ln(temperature) (β_{1i})		β_1	- 1.368	0.047
Curvature: ln(temperature) ² (β_{2i})		β_2	- 0.283	0.041

Summary of Random Effects

Variance components	Parameter	Estimate
Level-1 (within species)	σ^2	0.023
Level-2 (between species in initial status)	τ^2	0.543

Different parameter values for β_0 , β_1 , β_2 are obtained when mean ln(temperature tested) and developmental mode are not included in the model (Fig 1B, main text, Table 6; Table 11 in *SI Appendix*).