

Supplementary material for

Growth and development of the brush-tailed rabbit-rat (*Conilurus penicillatus*), a threatened tree-rat from northern Australia

Catherine M. Kemper

South Australian Museum, North Terrace, Adelaide, SA 5000, Australia. Email: catherine.kemper@samuseum.sa.gov.au

Table S1. Growth models for *C. penicillatus* weight and linear measurements

AIC, Akaike Information Criterion. The data were subjected to 5–11 models in Growth II (von Bertalanffy Nonlinear, Exponential, 3-Parameter Gompertz, 3-Parameter Richards, 3-Parameter Logistic, Morgan–Mercer–Flodin (MMF), 4-Parameter Gompertz, 4-Parameter Logistic, 4-Parameter Janoschek, 4-Parameter Richards, Weibull). Justification for choosing a model with a slightly higher AIC is given in comments.

Parameter	Model	AIC	Upper asymptote	Next-best model (AIC)	Comments
Weight (females)	4-Parameter Richards	4836	174	4-Parameter Gompertz (4836)	
Weight (males)	4-Parameter Richards	3112	177	4-Parameter Gompertz (3112)	
Head (females)	Morgan–Mercer–Flodin	2561	54	Weibull (2563)	
Head (males)	Morgan–Mercer–Flodin	2081	55	von Bertalanffy Non-linear (2131)	
Hindfoot (combined sexes)	Morgan–Mercer–Flodin	4894	45	von Bertalanffy Non-linear (4945)	
Head and body (combined sexes, dead)	Morgan–Mercer–Flodin	889	190	von Bertalanffy Non-linear (889)	
Head and body (combined sexes, live)	Morgan–Mercer–Flodin	1217	170	4-Parameter Gompertz (1216)	Asymptote more realistic fit for MMF
Tail (combined sexes, dead)	Morgan–Mercer–Flodin	451	201	von Bertalanffy Non-linear (450)	Asymptote more realistic fit for MMF
Tail (combined sexes, live)	Morgan–Mercer–Flodin	1216	186	4-Parameter Richards (1216)	
Tail/head and body	Exponential	–40	1.11	3-Parameter Gompertz (43)	