

Table S1: Table of candiate models used for each analysis. Bold indicates that the model was selected within the anlysis (wi ≥ 0.0 5)			
A) Latency to lay eggs: Mixed effect cox model (coxme). Colony of origin and microcolony included as random factors			
	AICc	ΔAICc	wi
null model	509.10	0.00	1.00
treatment	601.60	92.50	0.00
B) Sucrose drank per bee (lmer): Colony of origin and microcolony included as random factors			
	AICc	ΔAICc	wi
treatment + day	-1303.90	0.00	1.00
treatment + day + treatment:day	-1279.50	24.40	0.00
day	-1275.50	28.33	0.00
treatment	-1250.70	53.16	0.00
null model	-1221.80	82.11	0.00
C) Egg production (glimmTMB hurdle model): Colony of origin included as a random factor			
	AICc	ΔAICc	wi
treatment	849.20	0.00	1.00
null model	871.90	22.67	0.00
D) Larvae production (glimmTMB hurdle model): Colony of origin included as a random factor			
	AICc	ΔAICc	wi
treatment	439.90	0.00	0.94
null model	445.50	5.56	0.06
E) Ovary development (glmer, binomial distribution): Colony of origin and microcolony included as random factors			
	AICc	ΔAICc	wi
treatment + bee size	323.20	0.00	1.00
treatment	362.60	39.38	0.00
bee size	405.70	82.50	0.00
null model	436.50	113.32	0.00
F) Mean oocyte size per bee (lmer): Colony of origin and microcolony included as random factors			
	AICc	ΔAICc	wi
treatment + bee size	397.10	0.00	0.85
treatment + bee size + treatment:bee size	400.50	3.42	0.15
treatment	414.70	17.55	0.00
bee size	443.20	46.11	0.00
null model	462.10	65.01	0.00
G) Maximum oocyte size per bee (lmer) : Colony of origin and microcolony included as random factors			
	AICc	ΔAICc	wi
treatment + bee size	443.30	0.00	0.89
treatment + bee size + treatment:bee size	447.80	4.52	0.09
treatment	451.50	8.20	0.02
bee size	461.70	18.41	0.00
null model	470.20	26.93	0.00
H) Worker survival (coxme) : Colony of origin and microcolony included as random factors			
	AICc	delta	weight
treatment	1034.30	0.00	1.00
null model	1110.70	76.39	0.00