

S1 Table. Parameter settings for model simulations.

<i>Parameter</i>	<i>Description</i>	<i>Baseline values</i>
T	Simulation length in time steps	10,000
N	Number of individuals	16
M	Number of tasks	2
$\delta_j = \delta$	Brood-specific rate of stimulus increase (i.e., demand rate); taken to be the same for all tasks	0.6
$\alpha_j^X = \alpha^X$ $\alpha_j^Y = \alpha^Y$	Type-specific performance efficiency of active individuals for task j ; taken to be the same for all tasks	2
$\mu_j^X = \mu^X$ $\mu_j^Y = \mu^Y$	Mean of the type-specific threshold distribution for task j ; taken to be the same for all tasks	10
$\sigma_j^X = \sigma^X$ $\sigma_j^Y = \sigma^Y$	Variance of the type-specific threshold distribution for task j as a fraction of the corresponding mean; taken to be the same for all tasks	0.1
η	Threshold stochasticity	7
$\tau_j^X = \tau^X$ $\tau_j^Y = \tau^Y$	Type-specific probability of quitting task j once active (inverse of average task performance duration); taken to be the same for all tasks	0.2