

Table 2. Linear Mixed-effects Models of various parental behaviours. Reproductive periods and sexes were analysed separately. Instead of an overall parental effect from the genetic or social parent, most of our analyses revealed a significant social effect from the pair.

Incubation period

	Parameter estimate ± SE	df	t	P-value
Nest attendance time				
Males	(Intercept) 0.89 ± 0.15	22	5.80	<0.001
	humidity -0.004 ± 0.002	12	-1.90	0.081
	pair behaviour -0.34 ± 0.17	12	-2.04	0.065
Females	(Intercept) 0.31 ± 0.21	24	1.5	0.146
	pair behaviour -0.37 ± 0.18	12	-2.02	0.066
	<i>genetic mother's behaviour</i> 0.58 ± 0.27	24	2.13	0.043
Hourly nest attendance rate				
Males	(Intercept) 1.51 ± 0.23	22	6.54	<0.001
	pair behaviour 0.13 ± 0.05	15	2.59	0.021
Females	(Intercept) 0.45 ± 0.20	24	2.28	0.032
	pair behaviour 0.04 ± 0.02	12	2.37	0.035
Hourly incubation rate				
Males	(Intercept) 0.46 ± 0.12	22	3.65	0.001
	pair behaviour 0.14 ± 0.02	15	6.67	<0.001
Females	(Intercept) 0.56 ± 0.16	25	3.54	0.002
	pair behaviour 0.22 ± 0.04	15	6.34	<0.001

Post-hatching period

	Parameter estimate ± SE	df	t	P-value
Nest attendance time				
Males	(Intercept) 0.70 ± 0.06	22	11.22	<0.001
	<i>brood size</i> -0.05 ± 0.02	14	-2.47	0.027

Females					
	(Intercept)	0.88 ± 0.43	25	2.07	0.049
	<i>brood size</i>	-0.44 ± 0.14	11	-3.25	0.008
Hourly nest attendance rate					
Males					
	(Intercept)	1.02 ± 0.18	22	5.80	<0.001
	<i>pair behaviour</i>	0.10 ± 0.03	14	3.69	0.002
Females					
	(Intercept)	0.59 ± 0.03	25	18.75	<0.001
	<i>pair behaviour</i>	-0.01 ± 0.004	11	-2.99	0.012
Hourly brooding rate					
Males					
	(Intercept)	5.56 ± 1.48	19	3.77	0.001
	<i>brood size</i>	-0.17 ± 0.08	10	-1.96	0.078
	<i>temperature</i>	-0.14 ± 0.06	10	-2.33	0.042
	<i>genetic father's behaviour</i>	0.06 ± 0.03	19	1.95	0.066
Females					
	(Intercept)	-2.35 ± 0.28	24	-8.38	<0.001
	<i>brood size</i>	-0.23 ± 0.09	11	-2.48	0.031

Incubation period of the second generation compared to post-hatching period of the parental generation

		Parameter estimate ± SE	df	t	P-value
Hourly incubation rate					
Males					
	(Intercept)	0.15 ± 0.15	22	0.95	0.352
	<i>pair behaviour</i>	0.14 ± 0.02	14	7.63	0.000
	<i>social father's behaviour</i>	0.06 ± 0.02	14	2.98	0.010