

Supplementary material

Appendix 1

Figure A1. Principal component analysis (PCA) graphical representation for (a) *act-nest* and *act-tot* and (b) *beak* and *claws* (see text for details). Arrows represent the correlation of initial behavioural responses to each principal component (i.e. Dim).

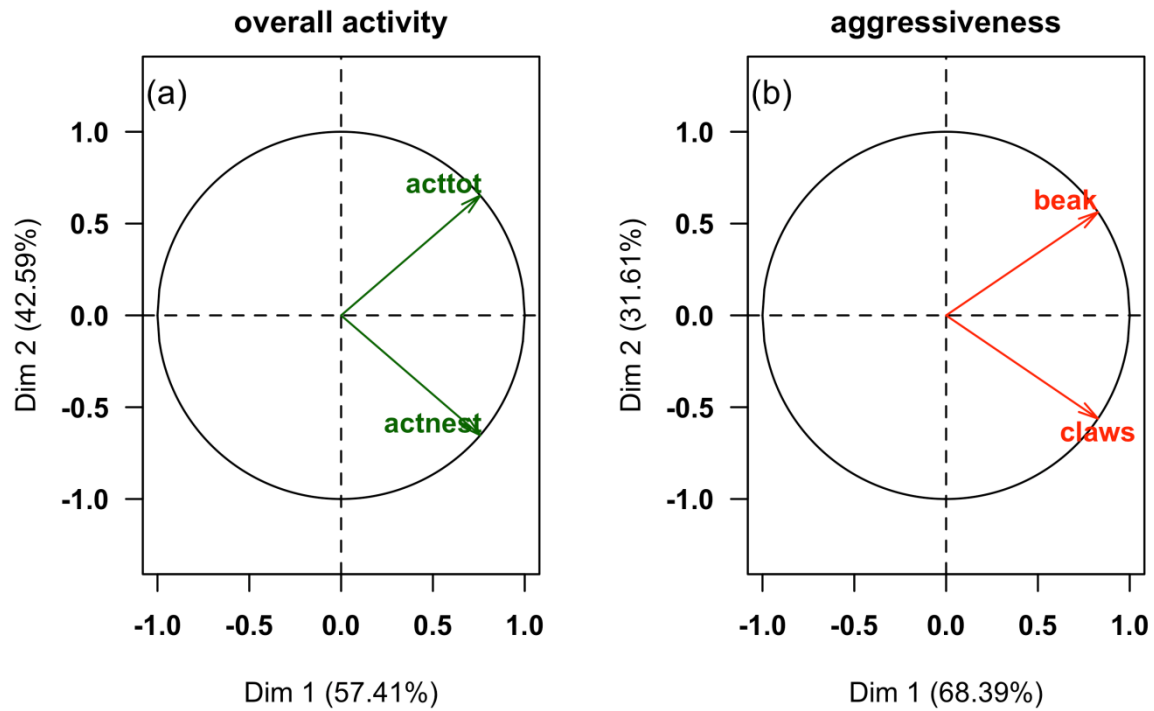


Table A1. Summary of the tasks for each experimenter identity (ID) for the two experimental groups. Tasks done by an experimenter are noted with x.

ID	Group I		Group NI	
	Chick capture	Morphometrics	Chick capture	Morphometrics
	Note taking	Blood sampling	Note taking	Blood sampling
A	X	-	X	-
B	-	X	X	X
C	-	X	X	X
D	-	-	-	X
E	-	-	-	X
F	-	-	X	-
G	-	-	-	X
H	-	-	-	X
I	-	-	X	-

Table A2. Summary of the LMMs analysing the effects of the experimental groups (I vs. NI), the rank of the nest visits and the sex of the chicks on single behavioural responses of Montagu's harrier chicks (see main text for details) and including statistic values and degrees of freedom. Significant effects are in bold. If the interaction group x visit rank was significant, simple effects (group and visit rank) were not tested.

Explanatory variables	χ^2	df	<i>P</i>
<i>Activity at the approach of the nest – act-nest</i>			
Group	0.12	1	0.73
Visit rank	113.73	3	<0.0001
Sex	0.41	1	0.52
Group x Visit rank	18.60	3	<0.001
<i>Activity during handling – act-tot</i>			
Group	0.33	1	0.57
Visit rank	12.15	3	0.007
Sex	0.03	1	0.87
Group x Visit rank	15.36	3	0.002
<i>Attacks with beak – beak</i>			
Group	0.007	1	0.94

Visit rank	43.66	3	<0.0001
Sex	0.37	1	0.54
Group x Visit rank	15.64	3	0.001

Attacks with claws – claws

Group	0.02	1	0.88
Visit rank	13.54	3	0.004
Sex	0.64	1	0.43
Group x Visit rank	13.18	3	0.004

Table A3. Summary of the LMMs analysing the effects of the experimental group (I vs. NI), the rank of the nest visits and the sex of the chicks on behavioural and physiological responses of Montagu's harrier chicks including the parameter estimates \pm standard error (s.e.), statistic values and degrees of freedom.

Explanatory variables	Parameter			
	estimate \pm s.e.	df	<i>t</i>	<i>P</i>
<i>PC1-activity</i>				
Intercept	-0.66 \pm 0.30	40.15	-2.23	0.03
Group NI	0.11 \pm 0.42	38.62	0.27	0.79
Visit 2	-0.39 \pm 0.34	71.41	-1.15	0.26
Visit 3	0.58 \pm 0.34	71.41	1.70	0.09
Visit 4	2.02 \pm 0.34	71.41	5.95	<0.0001
Sex male	0.04 \pm 0.24	35.50	0.16	0.88
Group NI x Visit 2	1.05 \pm 0.47	72.24	2.23	0.03
Group NI x Visit 3	0.36 \pm 0.47	72.24	0.77	0.44
Group NI x Visit 4	-1.34 \pm 0.47	72.24	-2.84	0.006
<i>PC1-attacks</i>				
Intercept	-0.47 \pm 0.31	79.72	-1.51	0.14
Group NI	0.07 \pm 0.42	82.49	0.18	0.86

Visit 2	0.00 ± 0.41	66	0	1
Visit 3	0.94 ± 0.41	66	2.32	0.02
Visit 4	2.18 ± 0.41	66	5.36	0.02
Sex male	-0.22 ± 0.24	21	-0.91	0.37
Group NI x Visit 2	0.48 ± 0.55	66	0.87	0.39
Group NI x Visit 3	-0.30 ± 0.55	66	-0.55	0.59
Group NI x Visit 4	-1.85 ± 0.55	66	-3.34	0.001
<i>Baseline corticosterone</i>				
Intercept	3.93 ± 1.70	12.87	2.31	0.04
Group NI	-1.18 ± 2.32	10.32	-0.51	0.62
Visit 4	2.17 ± 1.15	10.54	1.88	0.09
Sex male	0.04 ± 1.66	10.25	0.03	0.98
Group NI x Visit 4	1.99 ± 1.62	10.86	1.23	0.24
<i>Stress-induced corticosterone</i>				
Intercept	19.06 ± 4.3	13.81	4.43	0.0006
Group NI	6.50 ± 6.43	11.36	1.01	0.33
Visit 4	18.38 ± 3.56	19.47	5.16	<0.0001
Sex male	-3.02 ± 4.22	25.61	-0.72	0.48
Group NI x Visit 4	-12.33 ± 5.38	19.47	-2.29	0.03

Respiratory frequency

Intercept	14.43 ± 1.45	69.28	9.97	<0.0001
Group NI	-1.94 ± 1.94	64.66	-1.0	0.32
Visit 2	-0.79 ± 1.91	76.47	-0.41	0.68
Visit 3	-1.06 ± 1.91	76.47	-0.56	0.58
Visit 4	-0.73 ± 1.91	76.47	-0.38	0.70
Sex male	-0.09 ± 1.06	25.20	-0.08	0.94
Group NI x Visit 2	4.35 ± 2.59	76.47	1.68	0.10
Group NI x Visit 3	4.83 ± 2.59	76.47	1.86	0.07
Group NI x Visit 4	5.45 ± 2.59	76.47	2.1	0.04

Body condition

Intercept	306.25 ± 9.85	8.91	31.09	<0.0001
Group NI	-16.88 ± 12.79	4.68	-1.32	0.25
Sex male	11.51 ± 11.39	19.99	1.01	0.32
