

Table S1. Influence of lysozyme on response to the lipopolysaccharide challenge (Δ_{LPS}) for: (A,B) body mass, (C) cloacal temperature, level of (D) reactive oxygen metabolites, (E) total antioxidant capacity, (F) haptoglobin and (G–K) metabolic measurements in pigeons

	Variable (Δ_{LPS})	Lysozyme			Covariate: pre-challenge values			Covariate			
		Estimate \pm s.e.	χ^2_1	<i>P</i>	Estimate \pm s.e.	χ^2_1	<i>P</i>	Estimate \pm s.e.	χ^2_1	<i>P</i>	
A	Body mass pre-MR	1.94 \pm 2.72	0.51	0.477	-0.06 \pm 0.04	1.84	0.174				
B	% Body mass loss (post-minus pre-MR)	-0.03 \pm 0.33	0.01	0.929	-0.32 \pm 0.22	2.20	0.138				
C	Cloacal temperature	0.23 \pm 0.24	0.89	0.345	-0.64 \pm 0.26	6.12	0.013				
D	Reactive oxygen metabolites	0.20 \pm 0.08	6.59	0.010	-0.49 \pm 0.23	4.33	0.037				
E	Total antioxidant capacity	7.88 \pm 5.70	1.91	0.167	-0.58 \pm 0.23	6.64	0.010				
F	Haptoglobin	0.12 \pm 0.04	11.76	<0.001	-0.46 \pm 0.58	0.62	0.431				
G	O ₂ consumption, mass specific	0.03 \pm 0.01	5.75	0.016	-0.23 \pm 0.13	2.98	0.084				
H	O ₂ consumption, whole body	13.88 \pm 4.61	9.08	0.003	-0.34 \pm 0.10	12.33	<0.001	A	0.04 \pm 0.09	0.17	0.685
I	CO ₂ production, mass specific	0.02 \pm 0.01	2.17	0.141	-0.22 \pm 0.14	2.27	0.132				
J	CO ₂ production, whole body	9.11 \pm 6.43	2.01	0.157	-0.28 \pm 0.15	3.61	0.057	A	0.05 \pm 0.10	0.19	0.660
K	RQ (nightly mean)	-0.01 \pm 0.01	0.33	0.569	-0.19 \pm 0.19	1.03	0.310				

For all variables, the pre-challenge time point measurement was included as covariate.

MR, metabolic rate; RQ, respiratory quotient.