

Corticosterone-mediated physiological stress modulates hepatic lipid metabolism, metabolite profiles, and systemic responses in chickens

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Figure S1

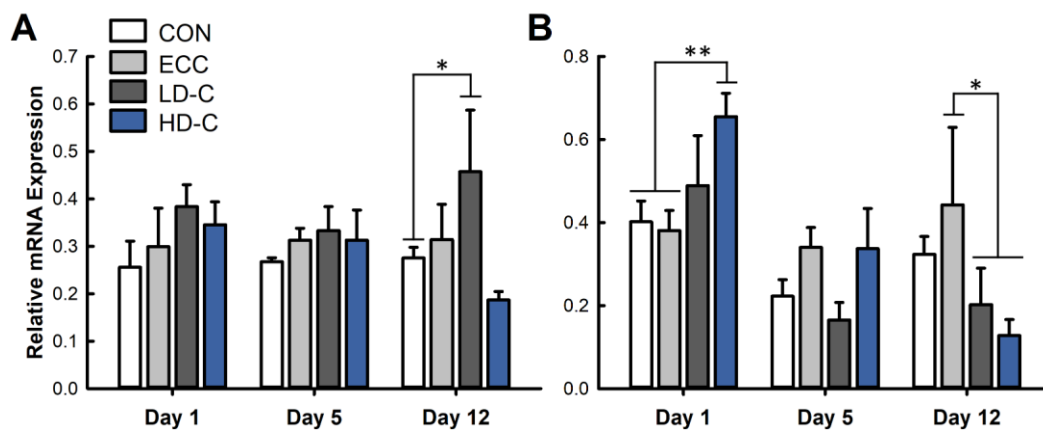


Figure S1. Effect of CORT treatment on *GLUT2* mRNA expression. Birds were administered standard drinking water (CON), 0.2% ethanol drinking water (ECC), 10 mg per litre of CORT (LD-C), or 30 mg per litre of CORT (HD-C); birds were euthanized and sampled at 1, 5, or 12 days post continual treatment. **(A-B)** relative mRNA gene expression of *GLUT2* in **(A)** liver and **(B)** jejunum. Bars represent mean (n=3) and vertical lines associated with bars represent standard error of the mean. * p<0.05 and ** p<0.01.

Figure S2

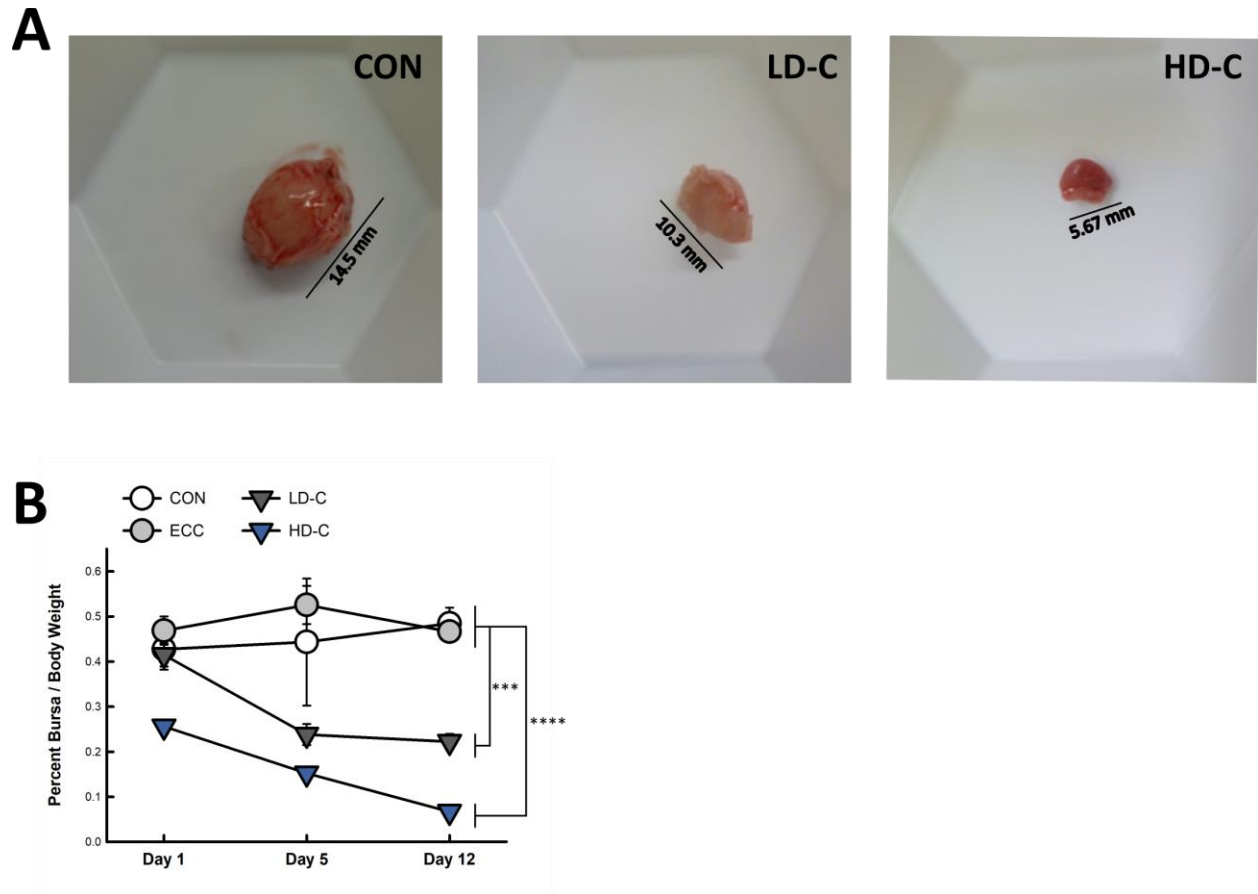


Figure S2. CORT treatment reduces size of bursa of Fabricius. Birds were administered standard drinking water (CON), 0.2% ethanol drinking water (ECC), 10 mg per litre of CORT (LD-C), or 30 mg per litre of CORT (HD-C); birds were euthanized and sampled at 1, 5, or 12 days post continual treatment. **(A)** gross morphology of bursa of Fabricius after 12 days of CORT administration. **(B)** relative size of bursa of Fabricius to body weight. Markers represent mean (n=3) and vertical lines associated with markers represent standard error of the mean. Markers without vertical lines indicates marker is obscuring the standard error of mean. *** $p < 0.001$ and **** $p < 0.0001$.

Table S1. List of primers used for mRNA gene expression

Name	Abbreviation	Sequence 5' to 3'		Product Size	Reference Sequence	Source
Fatty Acid Synthase	FAS	Forward	CAACAGCCAGCTTGGAATGG	161	NM_205155.2	This Study
		Reverse	CTGTGGTTCTCAGGGGCTTT			
Acetyl-CoA Carboxylase	ACC	Forward	CGTGAGGAGCCATTACAT	171	NM_205505.1	This Study
		Reverse	TGGAAATCCCTCTTCTGTGC			
Malic Enzyme	ME	Forward	AATACACAGAGGGACGTGGC	121	NM_204303.1	This Study
		Reverse	GCAACTCCAGGGAACACGTA			
Sterol Regulatory Element Binding Factor 1	SREBF1	Forward	CAGAAGAGCAAGTCCCTCAAG	129	NM_204126.2	This Study
		Reverse	GGAGCCTACATCCGAGGG			
Apolipoprotein B	APOB	Forward	AGCCAACTAAGTGGACTGC	100	NM_001044633.1	This Study
		Reverse	GATCCGGCCTTCACTTTTCA			
Apolipoprotein C-III	APOC3	Forward	CAAGCCAGGAAATGGCTGTC	184	NM_001302127.1	This Study
		Reverse	GACAAAAGGGAACGGTGCT			
Microsomal Triglyceride Transferase Protein	MTTP	Forward	AAACTGGAAGTGAATCGGT	101	NM_001109784.2	This Study
		Reverse	GGCATGGAACGTAAGTGA			
Glucose Transporter 2	GLUT2	Forward	GGAGGCCAAAAAGAGTTGAAG	105	NM_207178.1	This Study
		Reverse	ACTCTCTTTTCACTCGCAGC			
Serum Amyloid A1	SAA1	Forward	TGGGTGAAGTGGTGACAAA	180	XM_003641328.3	This Study
		Reverse	CTGGACTATCTAGACGGACT			
Ceruloplasmin	CP	Forward	GGGCTTAGGGTCAGAAGTCG	147	XM_015291853.1	This Study
		Reverse	TCAAAAATTCCTTCAGAATCAGGCT			
Transferrin	TF	Forward	TACTTCAGCGAGGGTTGTGC	148	NM_205304.1	This Study
		Reverse	CCAGACACCGTAAAGCTCCG			
Interleukin 1 β	IL1 β	Forward	TGCCTGCAGAAGAAGCCTCG	137	NM_204524.1	This Study
		Reverse	CTCCGCAGCAGTTTGGTCAT			
Interleukin 6	IL6	Forward	AGGACGAGATGTGCAAGAAG	176	NM_204628.1	This Study
		Reverse	CATTCTCCTCGTCGAAGCC			
Transforming Growth Factor β 2	TGFB2	Forward	CCATCTACAACAGCACCAGGG	157	NM_001031045.3	This Study
		Reverse	TAGCTTGGTGGGATGGCATTTTC			
β -Actin	BA	Forward	CTCTGACTGACCGGTTACT	172	NM_205518.1	This Study
		Reverse	TACCAACCATCACCCCTGAT			
Tata-Box Binding Protein	TBP	Forward	GTTCCCTGTGTGCGTTGC	147		PMID: 27685470
		Reverse	TAGCCCGATGATGCCGTAT			