

**Table 1supp.** Results of quantitative ICP-MS elemental analysis of chicken liver tissue. Elemental content from three biological replicates was calculated with standard deviation (SD) and the statistically significant differences from ANOVA test were marked as in Table 2 in the main text

Element	Category	ICP-MS (non-homogenized)				ICP-MS (homogenized)			
		mg/kg	SD	Groups		mg/kg	SD	Groups	
Na	RS	925	39	A		302	14	A	
	OD	863	35	A	B	278	13		B
	FD3	837	38		B	286	4	A	B
	FD17	835	41		B	280	7		B
Mg	RS	199	11	A		204	10	A	
	OD	180	7		B	186	11		B
	FD3	179	7		B	197	3	A	B
	FD17	188	10	A	B	194	5	A	B
K	RS	2882	150	A		2026	11	A	
	OD	2627	127		B	1777	86		B
	FD3	2552	111		B	1973	14	A	
	FD17	2708	101	A	B	1959	36	A	
Ca	RS	190	27	A		39.7	8.9	A	
	OD	151	14	A		42.4	5.2	A	
	FD3	157	26	A		29.3	1.3		B
	FD17	158	24	A		25.2	3.0		B
Mn	RS	5.67	0.43	A		4.32	0.49	A	
	OD	4.63	0.31		B	3.47	0.14		B
	FD3	4.80	0.30		B	3.63	0.10		B
	FD17	4.57	0.33		B	3.59	0.14		B
Fe	RS	166	9	A		71	17	A	
	OD	154	6	A		100	10		B
	FD3	160	10	A		112	3		B
	FD17	160	11	A		113	3		B
Cu	RS	4.90	0.20	A		5.33	0.58	A	
	OD	3.99	0.33		B	3.67	0.11		B
	FD3	4.06	0.09		B	4.43	0.13		C
	FD17	4.02	0.11		B	4.36	0.16		C
Zn	RS	24.6	3.1	A		45.1	2.0	A	
	OD	19.0	1.4		B	26.8	2.0		B
	FD3	19.4	0.4		B	42.1	0.8		C
	FD17	19.8	0.6		B	40.8	0.1		C
Sr	RS	0.201	0.030	A		0.172	0.021	A	
	OD	0.160	0.021	A		0.124	0.004		B
	FD3	0.175	0.030	A		0.135	0.005		B
	FD17	0.177	0.030	A		0.134	0.006		B