

Supplement 2. Univariate tests of significant differences for the biochemical parameters of *A. uralensis* trapped in the reference areas: the results of ANCOVA on the basis of the homogeneity-of-slopes model

Parameter	Organ	(R ²) ^a	SS ^b				F (2.64)			p			The biochemical parameters (mean± t _{0.05} ×SE) computed for covariates at their means 27 ind./100 trap–day		
			SS _{B1}	SS _{B2}	SS _{B3}	SS _R	F _{B1}	F _{B2}	F _{B3}	p _{B1}	p _{B2}	p _{B3}			
			Ref. 1	Ref. 2	Ref. 3										
Total lipids/protein ratio, equivalent unit	Adrenals	0.67	0.33571	2.23438	0.08997	18.45853	0.5	7.7	0.1	0.561	0.007	0.855	2.23 ±0.24	2.67 ±0.26	2.70 ±0.56
TBARS concentration, nmol×g ⁻¹ protein		0.48	44489	122972	40493	1562276	0.9	5.0	0.8	0.407	0.028	0.441	873 ±71	866 ±75	923 ±164
Total protein content, mkg×g ⁻¹ body		0.65	1391.99	12681.74	343.81	98469.55	0.4	8.2	0.1	0.638	0.005	0.894	108 ±18	91 ±19	74 ±42
Total protein content, mkg×g ⁻¹ body	Spleen	0.78	4602	79056	2277	274150	0.5	18.4	0.3	0.587	<10 ⁻⁴	0.767	1082 ±30	1085 ±31	1035 ±68
DNA/total protein ratio, equivalent unit		0.66	0.000167	0.000215	0.00025	0.001175	4.5	11.7	6.7	0.014	0.001	0.002	0.036 ±0.002	0.034 ±0.002	0.029 ±0.004
Total RNA/DNA ratio, equivalent unit		0.60	0.037763	0.638810	0.04671	2.608555	0.5	15.7	0.6	0.631	<10 ⁻³	0.567	0.93 ±0.09	0.88 ±0.10	1.05 ±0.21
TBARS concentration, nmol×g ⁻¹ protein		0.70	23450.1	130174.3	11439.2	466433.9	1.6	17.8	0.8	0.208	<10 ⁻⁴	0.460	291 ±38	329 ±41	370 ±90
Catalase activity, nkatal×g ⁻¹ protein		0.75	245.07	3821.25	126.08	14118.08	0.6	17.3	0.3	0.576	<10 ⁻⁴	0.752	104.3 ±6.4	102.3 ±7.2	97.9 ±15.6
GPI activity, nkatal×g ⁻¹ protein		0.78	5843	174404	1689	423150	0.4	26.4	0.1	0.644	<10 ⁻⁵	0.880	560 ±37	595 ±39	500 ±85

^a — the determination coefficient (1- SS_R/SS_t) of the ANCOVA.

^b — the sum of squares on account: SS_{B1} — effect of categorical (reference/impact) predictor; SS_{B2} — effect of continuous (population abundance) predictor; SS_{B3} — interaction effect of categorical and continuous predictors SS_R — errors of prediction.