

S9 Table Correlation analysis

Species *E. verrucosus*

Type of experiment gradual hypothermia

	Hsp70	Lactate	LDH	Peroxidas e	Catalase	Temperatu re
Hsp70		-0.89	0.38	0.34	1.00	0.99
Lactate	-0.89		-0.08	-0.68	-0.88	-0.94
LDH	0.38	-0.08		0.11	-0.50	0.27
Peroxidase	0.34	-0.68	0.11		0.34	0.39
Catalase	1.00	-0.88	-0.50	0.34		0.99
Temperature	0.99	-0.94	0.27	0.39	0.99	

Type of experiment gradual hyperthermia

	Hsp70	Lactate	LDH	Peroxidas e	Catalase	Temperatu re
Hsp70		-0.66	0.55	-0.16	0.33	-0.62
Lactate	-0.66		-0.85	0.65	0.22	0.98
LDH	0.55	-0.85		-0.72	-0.50	-0.89
Peroxidase	-0.16	0.65	-0.72		0.33	0.72
Catalase	0.33	0.22	-0.50	0.33		0.22
Temperature	-0.62	0.98	-0.89	0.72	0.22	

Species *O. flavus*

Type of experiment gradual hypothermia

	Hsp70	Lactate	LDH	Peroxidas e	Catalase	Temperatu re
Hsp70		0.96	0.01	0.12	-0.78	-0.93
Lactate	0.96		0.29	0.65	-0.92	-1.00
LDH	0.01	0.29		0.31	-0.64	0.37
Peroxidase	0.12	0.65	0.31		-0.89	-0.71
Catalase	-0.78	-0.92	-0.64	-0.89		0.95
Temperature	-0.93	-1.00	0.37	-0.71	0.95	

Type of experiment gradual hyperthermia

	Hsp70	Lactate	LDH	Peroxidas e	Catalase	Temperatu re
Hsp70		0.69	-0.08	1.00	0.96	0.69
Lactate	0.69		-0.77	0.69	0.86	0.77
LDH	-0.08	-0.77		-0.08	-0.35	-0.47
Peroxidase	1.00	0.69	-0.08		0.96	0.69
Catalase	0.96	0.86	-0.35	0.96		0.74
Temperature	0.69	0.77	-0.47	0.69	0.74	

Species *G. lacustris*

Type of experiment gradual hypothermia

	Hsp70	Lactate	LDH	Peroxidas e	Catalase	Temperatu re
Hsp70		0.27	0.62	0.18	0.31	0.61
Lactate	0.27		-0.58	1.00	1.00	0.93
LDH	0.62	-0.58		-0.65	-0.55	0.24
Peroxidase	0.18	1.00	-0.65		0.99	0.89
Catalase	0.31	1.00	-0.55	0.99		0.94
Temperature	0.61	0.93	0.24	0.89	0.94	

Type of experiment gradual hyperthermia

	Hsp70	Lactate	LDH	Peroxidas e	Catalase	Temperatu re
Hsp70		0.93	-0.73	-0.21	0.47	0.72
Lactate	0.93		-0.74	-0.34	0.51	0.72
LDH	-0.73	-0.74		0.52	-0.80	-0.91
Peroxidase	-0.21	-0.34	0.52		-0.22	-0.39
Catalase	0.47	0.51	-0.80	-0.22		0.91
Temperature	0.72	0.72	-0.91	-0.39	0.91	

r values were visualised with blue columns in case of positive correlation and red columns in case of negative correlation