

Table S10: Correlation factors between identified metabolites in the polar fraction of mice testicular extracts. The correlation was obtained using the Spearman r with Exact p-value (n = 15). * p < 0.05; ** p < 0.005; *** < 0.0005; **** p < 0.0001.

	Ala	Glu	Gln	Val	Leu	Ile	AMP	Adenosine	Lac	Acetate	Succinate	Betaine	GSH	Taurine	Creatine
Ala		0.5296 *	0.4657	0.5129 *	0.455	0.2476	-0.1489	0.1518	0.3454	-0.0221	0.3346	-0.385	0.1459	0.6492 *	0.1792
Glu	0.5296 *		0.2018	0.2937	0.0251	0.1683	0.1284	-0.248	0.3082	-0.2007	0.4812	0.0406	0.1077	0.4142	-0.1315
Gln	0.4657	0.2018		0.0471	0.0774	-0.0854	0.3152	-0.2975	-0.0501	-0.486	0.0781	0.185	0.4683	0.693 **	-0.3522
Val	0.5129 *	0.2937	0.0471		0.518 *	0.2382	-0.4265	0.4765	0.9087 ****	0.2000	-0.0941	-0.1383	-0.2529	0.4068	0.2620
Leu	0.455	0.0251	0.0774	0.518 *		0.3267	-0.6578 *	0.6976 **	0.4296	0.4386	0.0559	-0.4345	-0.4680	0.2080	0.3166
Ile	0.2476	0.1683	-0.0854	0.2382	0.3267		-0.3118	0.3529	0.1458	0.1265	0.1029	-0.4739	0.0500	0.3110	0.2929
AMP	-0.1489	0.1284	0.3152	-0.4265	-0.6578 *	-0.3118		-0.9412 ****	-0.4153	-0.5206 *	0.1059	0.5710 *	0.3765	-0.1916	-0.4871
Adenosine	0.1518	-0.248	-0.2975	0.4765	0.6976 **	0.3529	-0.9412 ****		0.4433	0.5647 *	-0.2176	-0.5239 *	-0.3765	0.1444	0.4798
Lac	0.3454	0.3082	-0.0501	0.9087 ****	0.4296	0.1458	-0.4153	0.4433		0.2018	-0.1267	0.0015	-0.2194	0.2627	0.2004
Acetate	-0.0221	-0.2007	-0.4860	0.2000	0.4386	0.1265	-0.5206 *	0.5647 *	0.2018		-0.1088	-0.1089	-0.6441 *	-0.3125	0.2517
Succinate	0.3346	0.4812	0.0781	-0.0941	0.0559	0.1029	0.1059	-0.2176	-0.1267	-0.1088		-0.2826	0.1176	0.0987	0.4665
Betaine	-0.385	0.0406	0.1850	-0.1383	-0.4345	-0.4739	0.571 *	-0.5239 *	0.0015	-0.1089	-0.2826		0.0132	-0.2176	-0.5523 *
GSH	0.1459	0.1077	0.4683	-0.2529	-0.468	0.05	0.3765	-0.3765	-0.2194	-0.6441 *	0.1176	0.0132		0.4908	-0.0353
Taurine	0.6492 *	0.4142	0.6930 **	0.4068	0.208	0.311	-0.1916	0.1444	0.2627	-0.3125	0.0987	-0.2176	0.4908		-0.0354
Creatine	0.1792	-0.1315	-0.3522	0.262	0.3166	0.2929	-0.4871	0.4798	0.2004	0.2517	0.4665	-0.5523 *	-0.0353	-0.0354	