

Table S7: Correlation factors between biometric data and Testicular metabolites. 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	Creatine	GSH	Betaine	Taurine
R testis	-0.4709	-0.3567	-0.3514	-0.482	-0.3175	-0.4149	0.299	-0.2532	-0.359	0.2807	0.0092	-0.0214	-0.3783	0.3419	-0.8194 ***
L testis	-0.7021 **	-0.3553	-0.2882	-0.6478 *	-0.395	-0.2742	0.3284	-0.2712	-0.4737	0.2501	-0.0060	-0.1206	-0.1778	0.5035 *	-0.7096 **
R epididymis	-0.0117	0.0273	-0.0399	-0.0563	0.1953	-0.2039	0.0485	0.0893	0.0039	-0.0680	-0.2447	-0.2769	-0.2738	0.0146	-0.2442
Seminal Vesicles	-0.3503	-0.2265	0.3146	-0.5192 *	-0.3129	-0.1254	0.441	-0.3112	-0.4542	-0.1947	-0.0501	-0.2974	0.3378	0.476	-0.1345
Liver	0.0944	-0.1152	0.2041	-0.0044	-0.2754	-0.2046	0.5725 *	-0.3591	-0.0892	0.1177	-0.2193	-0.2445	0.1148	0.4124	-0.1615
GSI	-0.0414	0.2581	-0.2657	-0.1945	0.2249	0.3508	-0.3847	0.2314	-0.1587	0.2918	0.6175 *	0.4196	-0.2845	-0.3968	-0.0879
BAT	0.0885	0.1141	0.1835	-0.1706	-0.3706	-0.5117 *	0.5177 *	-0.4189	-0.1686	-0.1631	0.2783	-0.1041	0.3561	0.4222	-0.0262
Epididymal fat	-0.4598	-0.3867	0.1487	-0.2794	-0.6313 *	-0.4971	0.5735 *	-0.4559	-0.2798	-0.2324	-0.5529 *	-0.5416 *	0.1941	0.7432 **	-0.2078
Perirenal fat	-0.403	-0.3806	-0.0022	-0.2548	-0.5969 *	-0.5700 *	0.5287 *	-0.4138	-0.2367	-0.1105	-0.5287 *	-0.4024	0.2239	0.6809 **	-0.2952
Retroperiton. fat	-0.339	-0.1415	0.0973	-0.2329	-0.6214 *	-0.4273	0.7092 **	-0.6054 *	-0.1241	-0.1395	-0.3531	-0.4499	0.2582	0.8575 ****	-0.2729
Fat mass	-0.423	-0.3041	0.0206	-0.2735	-0.7388 **	-0.5588 *	0.6412 *	-0.5353 *	-0.2253	-0.2235	-0.4176	-0.4268	0.2588	0.727 **	-0.2889
Body weight	-0.2552	-0.5547 *	0.1186	-0.0662	-0.3166	-0.5077 *	0.299	-0.2532	-0.359	0.2807	0.0092	-0.0214	-0.3783	0.3419	-0.8194 ***