

Table S1. Pearson's correlation analysis: associations between colony-forming units, sperm concentration, progressive motility and biochemical parameters of seminal plasma.

	CFU	CON	PRO	Ca	Mg	Phos	Trig	Chol	Creat	ALP	ALT	BILI	UA	Urea	TP	ALB
CFU	1	0.678***	-0.541***	-0.372*	-0.444*	-0.265	-0.368	-0.342	-0.447*	-0.403*	-0.370*	-0.305	-0.421*	-0.425*	-0.533**	-0.423*
CON		1	-0.490**	-0.248	-0.026	-0.468*	-0.178	-0.158	-0.333	-0.221	-0.445*	-0.136	-0.469*	-0.176	-0.527**	-0.365
PRO			1	0.629***	0.591**	0.494**	0.174	0.447*	0.640**	0.563**	0.384*	0.084	0.402*	0.327*	0.466*	0.327
Ca				1	0.416*	0.395*	0.281	0.481*	0.481*	0.477*	0.291	-0.159	0.450*	0.383*	0.588**	0.324*
Mg					1	0.189	0.424*	0.295	0.463*	0.291	0.026	0.138	0.492**	0.414*	0.372	0.578**
Phos						1	0.136	0.573**	0.668***	0.216	0.592**	-0.111	0.483*	0.405*	0.544**	0.461*
Trigs							1	0.480**	0.427*	0.222	0.063	0.002	0.093	0.465**	-0.004	0.436*
Chol								1	0.810***	0.585**	0.457**	0.091	0.143	0.510**	0.448*	0.314
Creat									1	0.524**	0.4256*	-0.044	0.386*	0.590**	0.532**	0.432*
ALP										1	0.317	0.187	0.283	0.340*	0.402*	0.093
ALT											1	0.226	0.394*	0.287	0.454*	0.088
BILI												1	-0.132	0.025	0.263	0.039
UA													1	0.472*	0.603*	0.397*
Urea														1	0.433*	0.155
TP															1	0.233
ALB																1

Legend: CFU – colony-forming unit, CON – sperm concentration, PRO – progressive motility, Ca – calcium, Mg – magnesium, Phos – phosphorus, Trig – Triglycerides, Chol – cholesterol, Creat – creatinine, ALP – alkaline phosphatase, ALT – alanine aminotransferase, BILI – bilirubin, UA – uric acid, TP – total proteins, ALB – albumin. Significance levels: *P<0.05, **P<0.01, ***P<0.001.