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Supplementary Material

Cryptic male choice: experimental evidence of sperm sex ratio and seminal fluid adjustment in relation to coital rate

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Supplementary Material 1

Statistical Outputs: The results from the statistical models run on sperm sex ratios and seminal glucose levels in laboratory mice.

Table S1. The output of a generalized linear model, with binomial (logit link) error, investigating influences on the sperm sex ratio of male laboratory mice

Significant factors highlighted in bold

	Df	Deviance	Resid. Df	Resid. Dev	Pr(>Chi)
NULL			43	65.86	
Sperm Glucose	**1**	**5.89**	**42**	**59.97**	**0.02**
Virgin Status	1	0.15	41	59.82	0.70
Blood Glucose	1	0.72	40	59.10	0.40
Body Condition	1	0.29	39	58.82	0.59
Ano-genital Distance	1	0.04	38	58.78	0.85

Table S2. The output of a generalized linear model, with binomial (logit link) error, investigating influences on the sperm sex ratio of mated male laboratory mice

Significant factors highlighted in bold

	Df	Deviance	Resid. Df	Resid. Dev	Pr(>Chi)
NULL			10	19.64	
Sperm Glucose	1	0.03	9	19.61	0.86
Copulation Plugs	**1**	**8.99**	**8**	**10.62**	**0.00**
Blood Glucose	1	0.55	7	10.06	0.46
Body Condition	1	0.08	6	9.98	0.77
Ano-genital Distance	1	0.97	5	9.01	0.33

Table S3. The output of a linear model investigating influences on the seminal glucose level (mmol/L) of mated male laboratory mice

Including an interaction factor between the number of copulation plugs left and blood glucose level. Significant factors highlighted in bold

	Df	Sum Sq	Mean Sq	F Value	Pr(>F)
Copulation Plugs	**1**	**1.81**	**1.81**	**11.73**	**0.02**
Blood Glucose	**1**	**1.11**	**1.11**	**7.22**	**0.04**
Body Condition	1	0.01	0.01	0.04	0.85
Ano-genital Distance	1	0.18	0.18	1.16	0.33
Copulation Plugs: Blood Glucose	1	0.60	0.60	3.92	0.10
Residuals	5	0.77	0.15		

Table S4. The output of a linear model investigating influences on the seminal glucose level (mmol/L) in male laboratory mice

	Df	Sum Sq	Mean Sq	F Value	Pr(>F)
Blood Glucose	1	2.89	2.89	1.70	0.20
Body Condition	1	1.77	1.77	1.04	0.31
Ano-genital Distance	1	0.21	0.21	0.12	0.73
Mated Status	1	1.55	1.55	0.91	0.35
Residuals	39	66.47	1.70		

Table S5. The output of a linear model investigating influences on the seminal glucose level (mmol/L) of virgin male laboratory mice

	Df	Sum Sq	Mean Sq	F Value	Pr(>F)
Blood Glucose	1	2.05	2.05	0.95	0.34
Body Condition	1	3.52	3.52	1.63	0.21
Ano-genital Distance	1	0.10	0.10	0.04	0.84
Residuals	29	62.73	2.16		