10.1071/RD14123_AC

Supplementary Material: *Reproduction, Fertility and Development*, 2016, 28(4), 516–523.

## Supplementary Material

# Variation in seminal plasma alters the ability of ram spermatozoa to survive cryopreservation

*J. P. Rickard*[A,C], *R. E. Schmidt*[A], *J. W. Maddison*[A], *R. Bathgate*[A], *G. W. Lynch*[A], *X. Druart*[B] *and S. P. de Graaf*[A]

[A]RMC Gunn Building, Regimental Drive, Faculty of Veterinary Science, The University of Sydney, NSW 2006, Australia.

[B]UMR 6175 INRA, CNRS-Université de Tours-Haras Nationaux, Station de Physiologie de la Reproduction et des Comportements, Institut National de la Recherche Agronomique, 37380 Nouzilly, France.

[C]Corresponding author. Email: jessica.rickard@sydney.edu.au

**Table S1. Average volume, wave motion and sperm concentration of each male used in Experiment 1**

Data are actual means ± s.e.m. (*n* = 6 ejaculates/male).

| Ram ID | Age | Breed | Volume (mL) | | Wave motion | | Concentration (spermatozoa/mL) | |
|---|---|---|---|---|---|---|---|---|
| | | | Range | Mean ± s.e.m. % | Range | Mean ± s.e.m. % | Range | Mean ± s.e.m. % |
| A | 6 | Coopworth | 0.5–2.1 | 1.43 ± 0.25 | 4.0–5.0 | 4.17 ± 0.17 | $2.75\times10^9 – 5.15\times10^9$ | $3.99\times10^9 \pm 0.412\times10^9$ |
| B | 6 | Finn X Sulfolk/Coopworth | 0.9–1.5 | 1.15 ± 0.11 | 4.0–5.0 | 4.58 ± 0.19 | $2.8\times10^9 – 5.45\times10^9$ | $4.09\times10^9 \pm 0.476\times10^9$ |
| C | 6 | Sulfolk X Dorset | 1.0–1.8 | 1.3 ± 0.14 | 4.0–5.0 | 4.25 ± 0.17 | $2.95\times10^9 – 6.55\times10^9$ | $4.06\times10^9 \pm 0.882\times10^9$ |
| D | 4 | Dorset | 1.5–2.0 | 1.8 ± 0.1 | 4.0–5.0 | 4.83 ± 0.17 | $4.3\times10^9 – 6.15\times10^9$ | $5.39\times10^9 \pm 0.298\times10^9$ |
| E | 9 | Sulfolk X Dorset | 1.5–2.0 | 1.8 ± 0.1 | 4.0–5.0 | 4.5 ± 0.22 | $3.9\times10^9 – 6.4\times10^9$ | $5.07\times10^9 \pm 0.392\times10^9$ |
| F | 7 | Coopworth | 1.0–2.0 | 1.35 ± 0.11 | 3.5–5.0 | 4.75 ± 0.25 | $2.95\times10^9 – 6.55\times10^9$ | $4.90\times10^9 \pm 0.488\times10^9$ |
| G | 6 | Coopworth X | 1.0–1.5 | 1.25 ± 0.11 | 3.5–4.0 | 3.67 ± 0.11 | $1.8\times10^9 – 3.3\times10^9$ | $2.16\times10^9 \pm 0.395\times10^9$ |
| H | 8 | Dorset | 1.0–1.5 | 1.16 ± 0.11 | 3.5–5.0 | 4.42 ± 0.30 | $4.68\times10^9 – 6.4\times10^9$ | $5.64\times10^9 \pm 0.255\times10^9$ |
| I | 8 | Finn X | 1.0–2.0 | 1.42 ± 0.15 | 3.5–5.0 | 4.5 ± 0.26 | $2.35\times10^9 – 7.5\times10^9$ | $3.08\times10^9 \pm 0.704\times10^9$ |
| J | 6 | Coopworth | 1.0–1.5 | 1.08 ± 0.08 | 4.0–5.0 | 4.67 ± 0.21 | $3.1\times10^9 – 5.45\times10^9$ | $4.76\times10^9 \pm 0.457\times10^9$ |
| K | 7 | Coopworth | 1.0–1.5 | 1.92 ± 0.62 | 4.0–5.0 | 4.58 ± 0.20 | $2.1\times10^9 – 3.4\times10^9$ | $2.54\times10^9 \pm 0.209\times10^9$ |
| L | 10 | Merino | 1.0–1.0 | 1 ± 0.00 | 1.0–4.0 | 2.67 ± 0.56 | $2.55\times10^9 – 3.2\times10^9$ | $2.92\times10^9 \pm 0.882\times10^9$ |
| M | 5 | Merino | 1.0–1.5 | 1.14 ± 0.09 | 3.5–5.0 | 4.58 ± 0.2 | $2.4\times10^9 – 4.8\times10^9$ | $3.86\times10^9 \pm 0.418\times10^9$ |
| N | 7 | Merino X | 1.0–2.0 | 1.51 ± 0.12 | 5.0–5.0 | 5 ± 0.00 | $4\times10^9 – 8.3\times10^9$ | $4.90E\times10^9 \pm 0.985\times10^9$ |
| O | 4 | Merino | 0.8–1.0 | 0.97 ± 0.03 | 4.0–4.5 | 4.08 ± 0.08 | $4.45\times10^9 – 4.45\times10^9$ | $2.12\times10^9 \pm 0.524\times10^9$ |
| P | 4 | Merino | 0.6–1.0 | 0.83 ± 0.06 | 5.0–5.0 | 5 ± 0.00 | $3.65\times10^9 – 6.08\times10^9$ | $4.73\times10^9 \pm 0.348\times10^9$ |
| Q | 4 | Merino | 0.5–1.0 | 0.67 ± 0.11 | 5.0–5.0 | 5 ± 0.00 | $3.08\times10^9 – 6.58\times10^9$ | $4.42\times10^9 \pm 0.502\times10^9$ |