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SHORT CO-INCUBATION TIME IN BOVINE IVF WITH OPU OOCYTES AND SEX-SORTED/UNSORTED SPERMATOZOA

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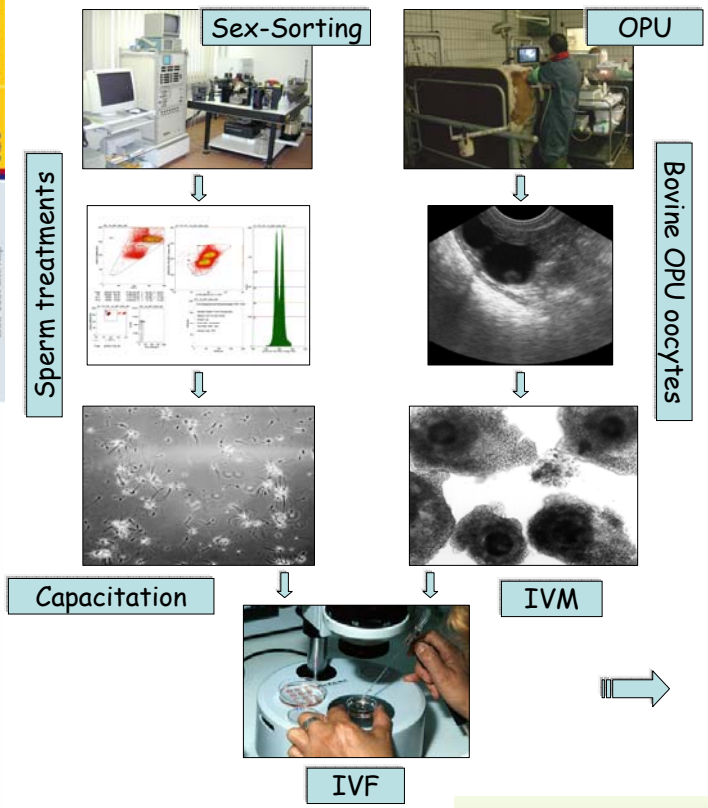
Objectives: Investigate the effects of reducing the duration of gamete co-incubation time on the performance of bovine IVF with OPU oocytes and sex-sorted/unsorted frozen-thawed semen.

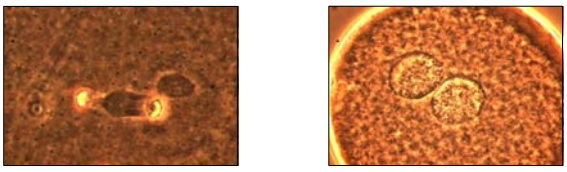
Materials and Methods



Results

Coincubation time/ /Sorted-Unsorted	% PEN (sem)	% MON (sem)	% MPF (sem)	% PERF (sem)
4 h Sorted	9.09 (9.87)	100 (32.15)	50.0 (27.1)	50.0 (26.03)
4 h Unsorted	25.0 (11.57)	50.0 (22.73)	50.0 (27.1)	25.0 (18.41)
8 h Sorted	44.44 (8.91)	50.0 (13.13)	0	0
8 h Unsorted	55.56 (8.91)	73.33 (11.74)	0	0
12 h Sorted	65.38 (9.07)	82.35 (11.03)	78.57 (10.24)	64.71 (8.93)
12 h Unsorted	69.57 (9.65)	75.00 (11.37)	33.33 (11.07)	25.0 (9.20)

PEN (Penetration): From matured oocytes. **MON** (Monospermy).
MPF (Male Pronucleus Formation): Monospermic oocytes from total penetrated oocytes.
PERF (Performance): Monospermic oocytes from total matured oocytes.



Evaluation

Conclusions

1. No differences were found in bovine IVF with OPU oocytes and sex-sorted/unsorted spermatozoa.
2. For OPU oocytes, the reducing of gamete coincubation time during IVF affected adversely PEN, MPF and PERF.
3. Regardless sperm treatment used, best results were obtained for 12 hpi.

Granted by MEC (PR2008-0323) and CARM (Vitrogen Project)

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