**Supporting information**

1. ***In vitro* maturation of buffalo oocytes**

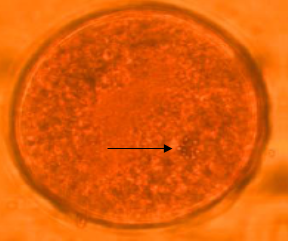
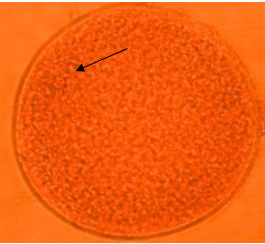
****

Figure S1-1 Germinal vesicle Figure S1-2 Diakinesis (DK)

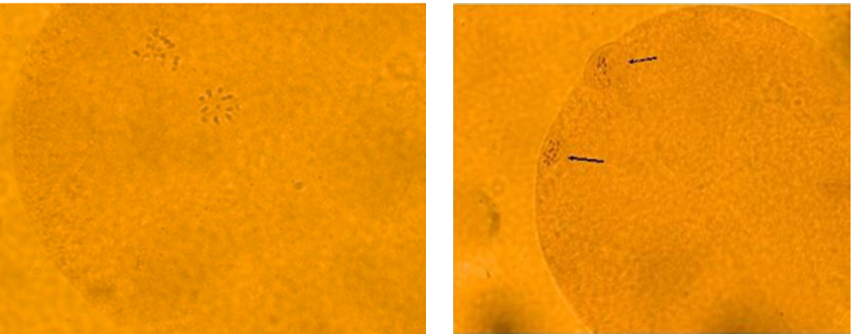


Figure S1-3 Telophase Figure S1-4 Metaphase II

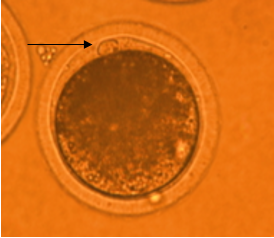


Figure S1-5 Extrusion of PBI Figure S1-6 Pronuclear formation

1. ***In vitro* fertilization of buffalo oocytes**

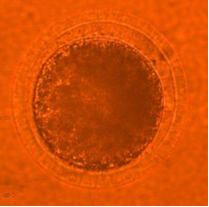
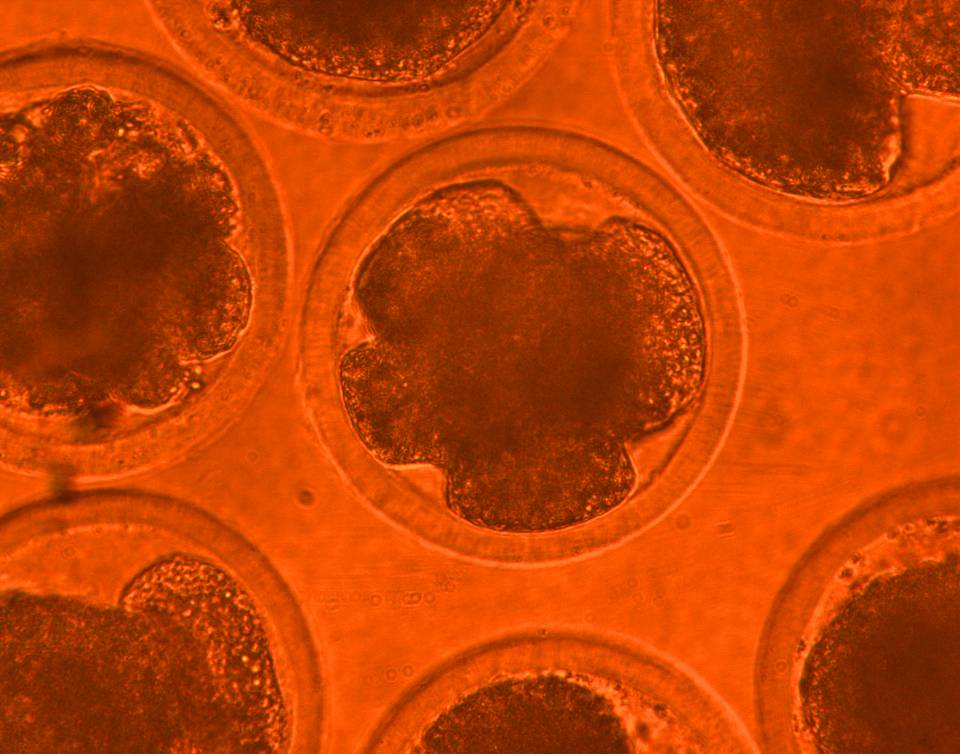
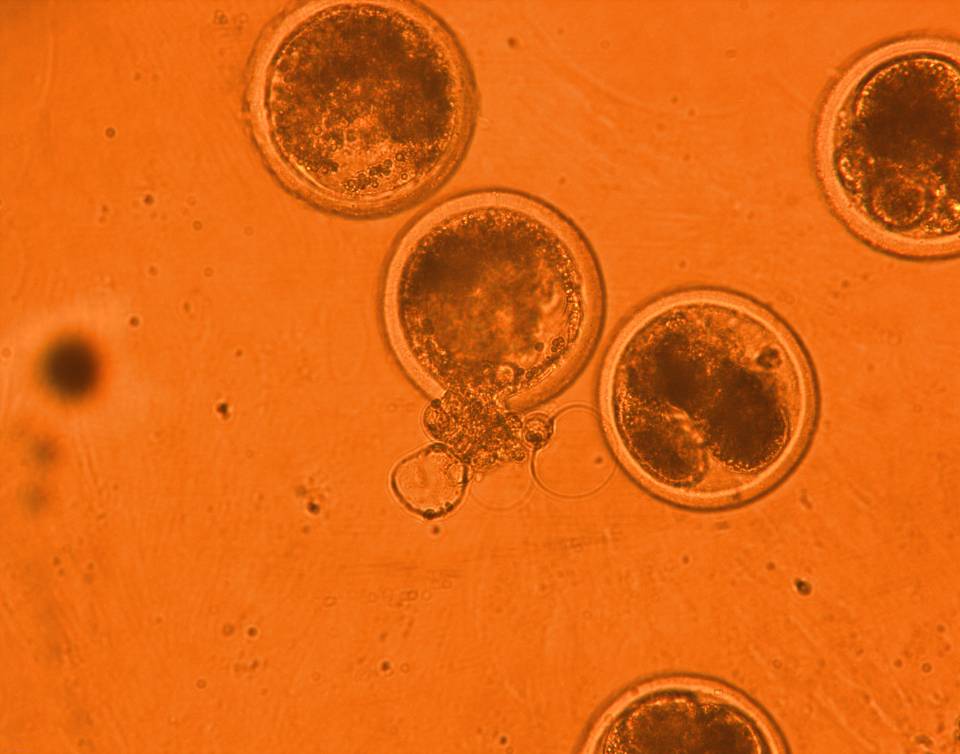
 

Figure S2-1 Fertilized oocyte (arrow) Figure S2-2 Cleavage-stage embryos



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Figure S2-3 cavitated blastocyst (1) and hatched blastocyst (2)