

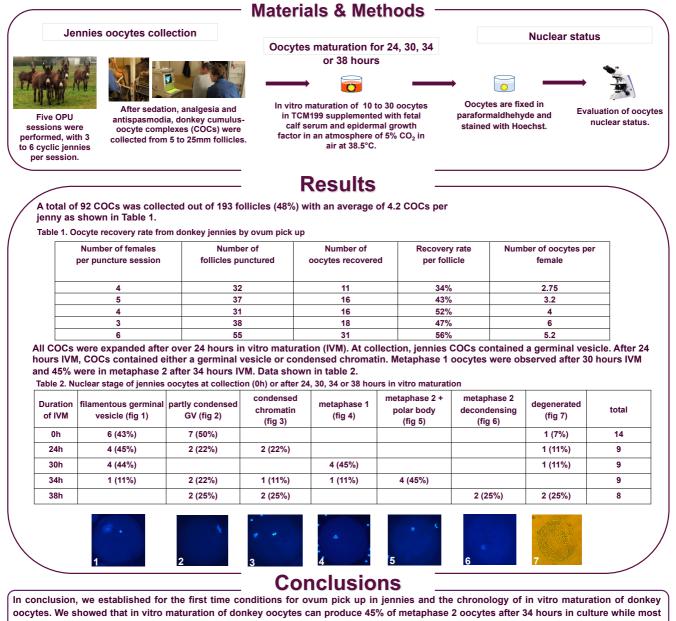
Chronology of in vitro maturation of donkey (Equus asinus) oocytes collected by ovum pick up

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Most wild donkey breeds are currently endangered and many domestic donkey breeds are vulnerable to extinction. Embryos cryopreservation allows the preservation of genetics from both male and female and is the fastest method to restore a breed. However, embryo production in vivo is limited in equids. In vitro production of embryos would allow the production of several embryos per cycle, but no technique has yet been developed in the donkey for in vitro production of embryos. The first steps for in vitro embryo production are collection of immature oocytes on a donor female using ovum pick up (OPU) and in vitro maturation of the oocytes. However, OPU has never been reported on jennies and the chronology of IVM of jennies oocytes has never been studied. Our objective was to develop OPU in jennies and to analyze the chronology of in vitro maturation of donkey oocytes.



equine oocytes reach metaphase 2 after only 30 hours in culture.



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