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Dose-dependent effects of frutalin on *in vitro* maturation and fertilization of pig oocytes

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ABSTRACT

The aim of the present study was to evaluate the effect of frutalin (FTL) on *in vitro* maturation (IVM), and fertilization (IVF) of pig oocytes. In the Experiment 1, cumulus-oocyte complexes (COCs) were submitted to IVM in maturation medium alone or supplemented with different FTL concentration (0.6, 6 and 60 µg/mL), or 0.3 µg/mL doxorubicin (DXR). After IVM, some oocytes were evaluated for chromatin configuration, and the remaining oocytes were submitted to *in vitro* fertilization. In Experiment 2, matured oocytes were fertilized in IVF medium alone (control) or in presence of different FTL concentration (0.6, 6 and 60 µg/mL), or 0.3 µg/mL DXR. After 18 h post fertilization, the endpoints penetration rate, monospermy, spermatozoa

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