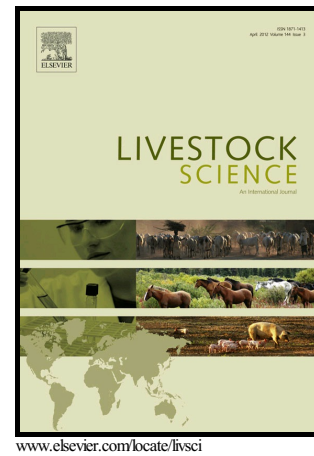


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Vitrification of immature and *in vitro* matured bovine cumulus-oocyte complexes: effects on oocyte structure and embryo development

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ABSTRACT

This study aimed to verify the effects of cryoprotectant and Open Pulled Straw (OPS) vitrification on ultrastructural changes in bovine oocytes. In experiment 1, the cryoprotectant exposure was analyzed by distributing immature and matured cumulus-oocyte complexes (COCs) in groups: control immature, immature and exposed to one vitrification solution (IVS1), immaturred and exposed to two vitrification solutions (IVS1-2), matured and exposed to one vitrification solution (MVS1), matured and exposed to two vitrification solutions (MVS1-2), control matured, IVS1 post *in vitro* maturation (IVS1 post IVM) and IVS1-2 post

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