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	Abstract S	Submission — View Submitted Abstract
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 Department of Equine 2 Hubrecht Institute-KNA Laboratorio di Tecnolog Department of Veterina Department of Farm An Compared to their in vivo c comparable, may be more j trophectoderm delineation i respectively (3). Expression early horse embryo develog slaughtered mares (n = 5, decreased during the morul with a decreasing proportio completion of primitive end reduced. IVP morulae had u regulation of CDX2 during b (NANOG and SOX2). In sun 	d Biomedical Sciences, James Cook University, Townsville, QLD, Australia Sciences, Utrecht University, Utrecht, The Netherlands W, Utrecht, The Netherlands ie della Riproduzione, Avantea srl, Cremona, Italy ry Medical Science, University of Bologna, Bologna, Italy imal Health, Utrecht University, Utrecht, The Netherlands ounterparts, in vitro produced (IVP) horse embryos are smaller, have fewer cells orone to pre-implantation failure (1,2). During mouse blastocyst formation, Oct4 respectively, while differential expression of Nanog and Gata6 determines which of these genes and other pluripotency markers (DPPA4, ESRRB, GDF3, SALL4, . mment. Morulae, early and expanded blastocysts were recovered non-surgically fi 7 and 9 per group at the respective stages). Gene expression was quantified by a-to-early blastocyst (<i>ESRRB</i> and <i>GDF3</i>) or early-to-expanded blastocyst (<i>DPPA</i> 4, no fpluripotent (epiblast) cells. Expanded blastocysts showed reduced <i>GATA6</i> are oderm segregation, and trophectoderm proliferation. In IVP embryos, <i>GDF3</i> , <i>TEH</i> indetectable <i>CDX2</i> expression and reduced <i>OCT4</i> compared to <i>in vivo</i> morulae. <i>I</i> blastocyst expansion was not observed <i>in vitro</i> , while down-regulation of some pi mary, IVP embryos show an altered expression pattern for genes associated wil or indicates changes in the proportion of cells entering the 3 cell lineages remain	4 and Cdx2 are essential for inner cell mass (ICM) and 1 CM cells form pluripotent epiblast or primitive endoderm SOX2 and TERT) was used to examine the effects of IVP on from mares, or produced <i>in vitro</i> by ICSI of oocytes from real-time PCR (4). Expression of most pluripotency genes 14, NANOG, OCT4 and SOX2) transitions <i>in vivo</i> ; consistent and increased CDX2 expression presumably reflecting 187 and GATA6 expression was undetectable, and SALL4 Additionally, the expected down-regulation of OCT4 and up- pluripotency genes was delayed (ESRRB) or advanced th cell lineage segregation. Whether this primarily reflects