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(54) Title: MAMMALIAN LIVESTOCK PLURIPOTENT STEM CELLS FROM DELAYED EMBRYOS

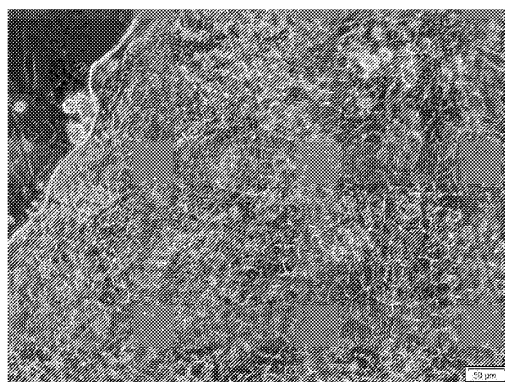


Fig. 9B

(57) Abstract: Provided are methods of deriving a mammalian livestock pluripotent stem cells line, by (a) ex-vivo culturing a mam-
malian livestock embryo of at least 7 days post-fertilization for a culturing period of at least 4 days and no more than until 21 days
post-fertilization so as to obtain an embryo comprising epiblast cell and/or late stage pluripotent stem cell; (b) isolating from the em-
bryo the epiblast cell and/or the late stage pluripotent stem cell, and (c) culturing the epiblast cell and/or the late- stage pluripotent
stem cell under conditions suitable for expansion of undifferentiated mammalian livestock pluripotent stem cells to thereby obtain a
population of mammalian livestock pluripotent stem cells. Also provided are isolated mammalian livestock pluripotent stem cells, and
cells differentiated therefrom.



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