



Dr. Peter Hansen

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Location: Merrill-Cazier Library room 154
February 26, 2009 from 3:30 – 4:30 PM

“Growth Factors and Cytokines that Function in Maternal Regulation of Preimplantation Embryonic Development in Cattle”

Although the first eight days of development of the bovine embryo can take place in a defined medium, the resultant blastocyst can be aberrant as determined by gene expression, cryotolerance, and survival after transfer into recipients. Here we show that two growth factors present in the uterine lumen can regulate embryonic development in vitro to produce embryos with increased potential for survival after transfer. One of these, insulin-like growth factor-1, improves embryonic survival in the summer only, suggesting it plays a role in thermotolerance, while the other, granulocyte colony-stimulating factor, improves embryonic survival in cool and warm seasons.

Refreshments will follow in the Biotechnology Building Lobby