CRYOPRESERVATION OF BOVINE AND BUFFALO OOCYTES AND EMBRYOS

Rangsun Parpnai, Yuanyuan Liang, Kanchana Panyawai, Nucharin Sripunya Kanokwan Srirattana and Mariena Ketudat-Cairns
Embryo Technology and Stem Cell Research Center, School of Biotechnology, Institute of Agricultural Technology, Suranaree University of Technology, Nakhon Ratchasima, 30000, Thailand
e-mail: rangsun@g.sut.ac.th

ABSTRACT

The cryopreservation of the female livestock genetics has become an international priority, which is a crucial step for conservation of animal genetic resources. The bovine and buffalo are the major milk and meat producing farm animals raised in many countries. However, their oocytes and embryos are very sensitive to chilling and cryopreservation. This review presents the cryopreservation of oocytes and embryos from bovine and buffalo including its associated problems, source of oocytes to be cryopreserved, embryos cryopreservation of embryos, and the future of vitrification of oocytes and embryos.

Keywords: Bovine, Buffalo, Oocytes, Embryos, Vitrification