

The 212th CARD Seminar

Lecturer : **Jorge M. Sztein DVM PhD (Barcelona)**

Title : **Freezing of Ovary**

Date : 16:00-17:00, Nov 22, 2016

Place : 210 room on the 2nd Floor at Center for Animal Resources
and Development (CARD), Kumamoto University

場所 : 生命資源研究・支援センター

動物資源開発研究施設 2階セミナー室 (210)

Summary:

Ovarian cryopreservation has been demonstrated to be a valid option for archiving of mouse genetic resources. The mouse surgical ovary transfer was described in 1940, and later 1945 Russel and Hurt at the JAX published the technique that still using today. A slow freezing technique using DMSO as cryoprotectant (CPA) was developed at the Jax using slow freezing till -80°C with very good results. This study was followed by a complete histopathology of the frozen-thawed ovary which, indeed, showed that only the large follicles were affected, but the immature oocytes survive the process and produce fertile ova. In 2009 the freezing technique was modified to a two-step freezing in straws using PROH as CPA improving the results after surgically transferring the ovary pieces.

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