



# Recovery of female mature germ cells following cryopreservation

## Genome Resource Banking in Felids

experimental  
in vivo design

Fresh or cryopreserved and thawed small cat ovarian cortex fragments were transplanted under the kidney capsule of athymic nude rats.

Xenotransplant survival and development of follicles within the grafts was monitored using high resolution ultrasonography.

*October 2005*

*February 2006*



Week 19

**Transplantation**

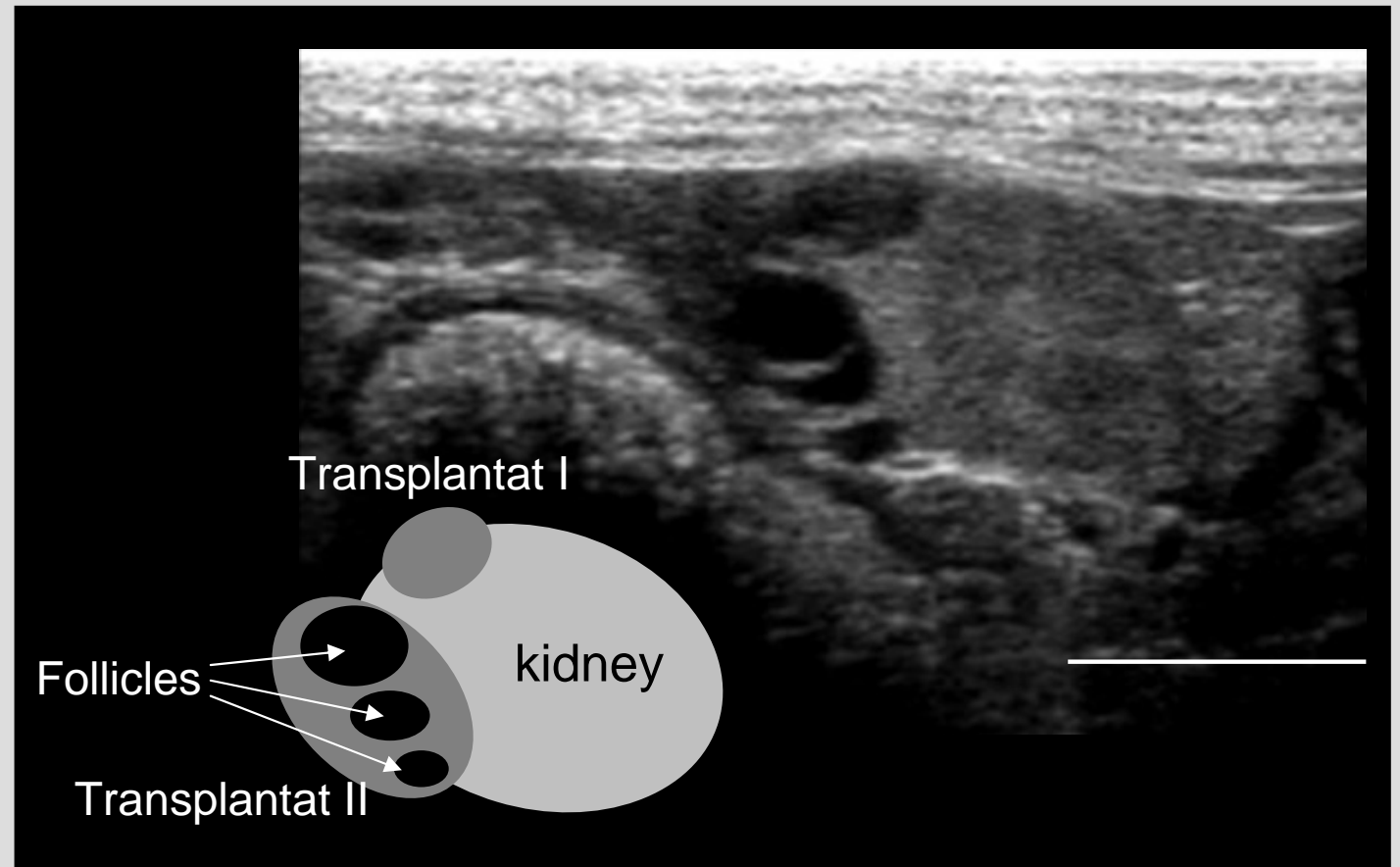
**Ultrasonography  
Recovery of Oocytes**





# Ultrasonography (Fresh grafts - week 19)

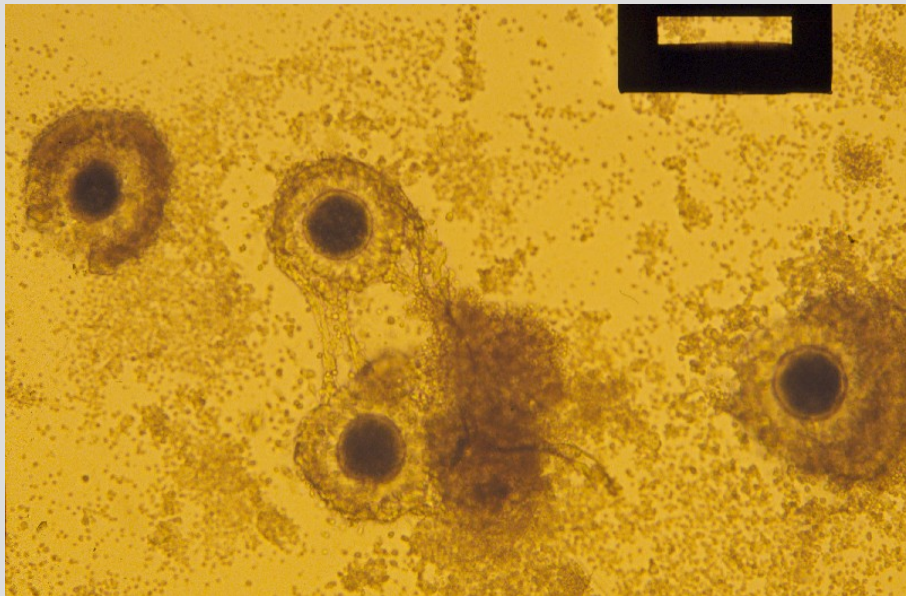
In this animal several antral follicles were detected in week 19 after xenotransplantation. The diameter was 2.7, 1.8 and 1.4 mm. A fourth follicles is located out of the image plane. All follicles were punctured and oocytes were recovered.





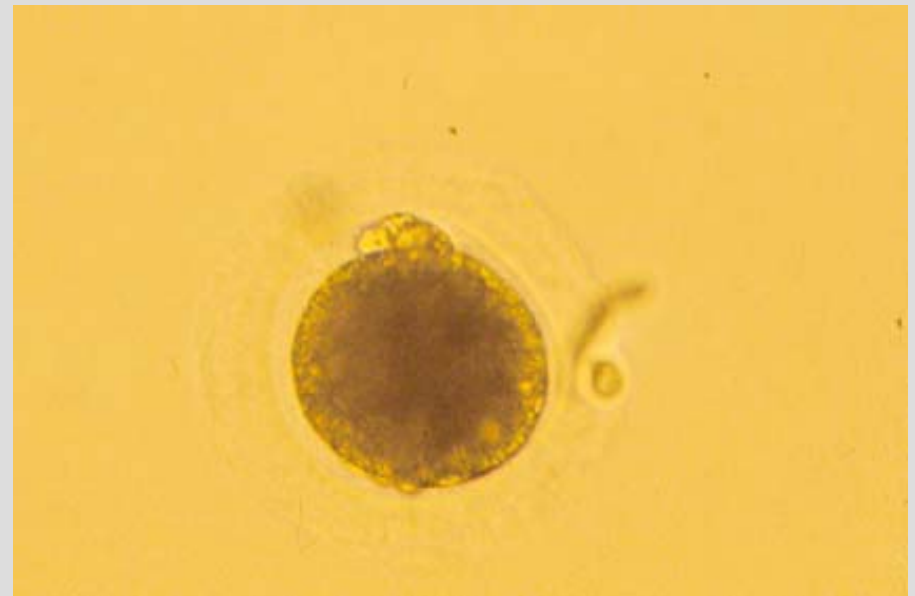
# Oocyte recovery (Fresh grafts - week 19)

## Oocytes after puncture of follicles



Oocytes after puncture of antral follicles in the xenografts

## Oocytes after IVM/IVF



Oocytes capable of fertilization after *in vitro* culture (24 hrs)

