



Mouse Embryo and Spermatozoa Cryopreservation Training Course

Date: 23rd to 26th September 2013

Frozen Embryo and Sperm Archive (FESA)
Mary Lyon Centre
MRC Harwell
Harwell Science and Innovation Campus
Oxfordshire
OX11 0RD

This course is intended to give animal technologists practical 'hands on' experience of the murine embryo and spermatozoa freezing techniques routinely used at Harwell. In addition, delegates will gain experience of a simple and robust *in vitro* fertilization procedure.

Participants will gain first-hand experience in following techniques:

- Cryopreservation of mouse embryos produced *in vivo* or *in vitro*.
- Cryopreservation of mouse spermatozoa, and their recovery by *in vitro* fertilisation.
- Thawing and use of cryopreserved embryos – mouse embryo transfer techniques will be demonstrated.
- Inventory and storage of cryopreserved samples.
- Safe packaging of cryopreserved samples for domestic or international shipment.

Places for this course are limited to **six** delegates. The course registration fee, which is subsidised by Infrafrontier I3, is £1000 for academic/non-profit institutions (other institutions please enquire). Fees do not include participant's travel or lodging which is arranged on your behalf at Bed and Breakfast close to the Harwell Science and Innovation Campus.

For more information, please contact fesa@har.mrc.ac.uk

Agenda

Day 1 - Monday 23rd September 2013

08:30 - 9:00 hrs	Arrival and registration
09:00 - 10:00 hrs	Introductory lecture, including coffee and discussion
10:00 – 12.30 hrs	Embryo handling, drawing pipettes
12:30 –13:30 hrs	<i>LUNCH</i>
13:30 – 15:15 hrs	Sperm freezing

Day 2 - Tuesday 24th September 2013

08:00 hrs	Arrival
08:00 - 10:30 hrs	Embryo harvesting
10:30 – 11:00 hrs	<i>TEA AND COFFEE</i>
11:00 – 13:00 hrs	Load embryo straws and set up embryo freeze
13:00 – 14:00 hrs	<i>LUNCH</i>
14:00 – 15:15 hrs	Thaw out embryo straws
15:15 – 16:30 hrs	Set up for Wednesdays IVF session
19:30 hrs	<i>COURSE DINNER</i>

Day 3 - Wednesday 25th September 2013

08:00 – 10:00 hrs	Perform IVF
10:00 – 10:30 hrs	<i>TEA AND COFFEE</i>
10:30 – 12:30 hrs	Sperm harvesting, sperm thawing and dispersal
12:30 –13:30 hrs	<i>LUNCH</i>
14:30 – 15:30 hrs	Wash IVF zygotes
15:30 – 16:30 hrs	How embryos are shipped

Day 4 - Thursday 26th September 2013

08:30 – 10:00 hrs	Score IVF embryos, plus hyaluronidase treatment of embryos
10:00 – 10:30 hrs	<i>TEA AND COFFEE</i>
10:30- 11:30 hrs	Surgical embryo transfer (demonstration only)
11:30 –12:30 hrs	Load embryo straws and set up a second freeze session and recap/review course