

**INFRAFRONTIER I3 - Cryopreservation training course**



**Laboratory Course on  
CRYOPRESERVATION OF MOUSE GERMLASM**

October 20 - 24, 2014

**Consiglio Nazionale delle Ricerche  
Campus "A. Buzzati-Traverso"  
I-00015 Monterotondo Scalo, Rome, Italy**

The Consiglio Nazionale delle Ricerche, EMMA-Monterotondo Campus International Development and The Jackson Laboratory offer a comprehensive course on cryopreservation of mouse embryos, sperm and ovaries. This Course is financially supported by the European Union FP7 Capacities Specific Program, through the Infrafrontier-I3.

**CRYOPRESERVATION COURSE**

The course is offered to teach methods in cryopreservation for banking of various strains of mice used in research, including inbred, transgenic and knock-out strains. Several methods of cryopreservation are now available and because no single method is adequate for all the various strains of mice being developed, a variety of methods are taught. The course is designed primarily as a "hands-on" laboratory program in which participants learn techniques for the cryopreservation of cleavage-stage embryos, spermatozoa and ovaries.

*Techniques include:*

- *Embryo "two-step" equilibrium freezing in plastic straws.*
- *Embryo non-equilibrium "ultra-rapid" cooling or "vitrification" in straws.*
- *Sperm freezing and recovery of frozen sperm by in vitro fertilization.*

In addition, general principles of cryobiology, development of inventory databases for individual programs, and adaptation of long-term storage systems and cryogenic equipment for different situations will be presented and discussed.

### Course faculty:

***In memory of Stanley P. Leibo - Course leader 1999-2013***  
*Dept. of Biological Sciences, University of New Orleans*  
*Audubon Center for Research of Endangered Species, New Orleans*

Robert Taft, Jane Farley  
Reproductive Sciences  
The Jackson Laboratory, Bar Harbor

Marcello Raspa, Ferdinando Scavizzi, Raffaele Matteoni  
Consiglio Nazionale delle Ricerche  
European Mouse Mutant Archive (EMMA)  
Monterotondo Campus International Development  
INFRAFRONTIER I3  
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Susan Marschall  
Helmholtz Zentrum München, Institute of Experimental Genetics  
INFRAFRONTIER I3  
Neuherberg-Munich (Germany)

Martin Fray  
Medical Research Council, Mammalian Genetics Unit  
INFRAFRONTIER I3  
Harwell (United Kingdom)

Lluís Montoliu  
Centro Nacional de Biotecnología, Consejo Superior de Investigaciones Científicas  
INFRAFRONTIER I3  
Madrid (Spain)

K. C. Kent Lloyd  
Center for Comparative Medicine, School of Veterinary Medicine  
NIH-Mouse Mutant Regional Resource Centers (MMRRC)  
University of California at Davis

### Enrollment

Enrollment is limited to **10** participants and early application is advised. This Course is financially supported by the EU FP7 Capacities Specific Program, through the Infrafrontier-I3.

### Course Fees\*:

***European Union's and Associated Countries' nationals:***

Academic or Non-Profit Institutions: **Euro 400.00**

Other Institutions: **Euro 950.00**

***Other Countries' nationals:***

Academic or Non-Profit Institutions: **Euro 900.00**

Other Institutions: **Euro 1,200.00**

***\*Fees do not include participant's travel and lodging.***

***An acceptance letter will be sent to the selected participants including details about payment requirements and lodging information.***

***Deadline for applications: September 10, 2014***

**Download the Course application form at:**

**<http://www.emma.cnr.it/Courses/Course14/Applic-form14.doc>**

Course information:

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Consiglio Nazionale delle Ricerche



***Monterotondo Cryopreservation Course 1999-2014***

***Pictures from 2013 Monterotondo Cryopreservation Course***

