



Workshops

Workshop No. 3 - Valencia **HANDS-ON WORKSHOP: Vitrification in a closed system** (Open for a limited number)

The workshop is organized by Prof. Amir Arav and will take place in Valencia.

VITRIFICATION OF OOCYTES: Vitrification in a closed system, VALENCIA, SPAIN
Thursday, April 22, 2010, 09:00-18:00

9:00-13:00 THEORETICAL SESSION

9:00 - 9:40 Fundamentals of Cryobiology
S. Leibo, USA

9:40-10:20 Vitrification of oocytes and embryos
A. Arav, Israel

10:20-11:00 Coffee break

11:00-11:40 Different approaches of Vitrification
G. Vajta, Australia

11:40-12:40 The Cryotop method for oocyte Vitrification. Description of the technique.
Clinical results
M. Kuwayama, Japan

Aim of the theoretical session: To introduce the biophysical and biochemical principles involved in cryobiology;

- Ice formation
- Slow freezing procedures
- Seeding
- Freezing curves
- The physical principles of Vitrification, introduction to minimum volume methods, cooling rates and different Vitrification devices.

13:00-14:00 Lunch

14:00-18:00 **HANDS-ON WORKSHOP: OOCYTE AND EMBRYO VITRIFICATION - Vitrification in a closed system:** **Directors: Y. Barak and A. Arav**

We will demonstrate the different techniques of closed system Vitrification.

Each participant will try to vitrify oocytes using Sealed SOPS and the VitMaster.

We will review and troubleshoot problems which occur during Vitrification, revealing the methods required to solve these problems.

- 1) Solution effect - are we using a safe solution?
- 2) Technical skills - how to produce a small drop containing oocytes
- 3) Open vs Closed system, LN vs. Slush vitrification
- 4) Using homemade cryo-microscope, explore the crystallization, de-vitrification, fracturing and recrystallization phenomenons.

Workshop fee including Congress registration: €2,500 (Two Thousand Five Hundred Euro).