

## **CENTRE for REPRODUCTIVE EDUCATION & SPECIALIST TRAINING (CREST)**

### **Basic ART Course for Embryologists**

7 March – 1 April, 2011

#### **Who we are:**

The first specialised training centre for Assisted Reproductive Techniques (ART) of its kind has been established in Asia Pacific, to enhance the ART skills of clinicians, embryologists, nurses and administrators from around the region.

Located at the National University Hospital, Singapore (NUH) and founded by Professor PC Wong, Head of Reproductive Endocrinology & Infertility, this flagship Training Centre welcomes aspiring ART specialists from around the region to its international meeting place in Singapore. CREST offers a unique combination of theory and practical hands-on learning opportunities within its purpose-built training site at the NUH. Four state-of-the-art laboratories showcasing the latest equipment for effective ART procedures, together with a low student-teacher ratio, both maximise and encourage learning and growth opportunities. The unique *real life, real learning* approach will enable practitioners to immediately apply newly acquired skills.

CREST is made possible by a grant from Merck Serono and *LIFE: Learning Initiatives for Fertility Experts*.

#### **Course Objectives:**

The Basic ART Course for Embryologists provides a detailed overview of all aspects of the ART laboratory, including the set-up and running of the lab, specific procedures and quality control to ensure the highest possible success rates in an IVF programme.

The course offers each trainee a complete hands-on learning opportunity. Classes are conducted in state-of-the-art training laboratories equipped with an integrated murine system and the latest equipment for effective ART procedures. Faculty will work one-on-one with trainees throughout the course, providing a total overview and continuous assessment.

#### **Who is it for?**

The Basic course is targeted at the beginner or novice Embryologist who is looking to develop his or her skills further in the IVF field. Trainees should possess a Bachelor of Science degree in Biology, Biotechnology or Biological Sciences and should be familiar with culture techniques and have experience in tissue handling. A minimum requirement of basic working English is required.

#### **Who is it not for?**

The experienced IVF Embryologist who is looking to refresh or update his knowledge.

**Course Fee:** S\$6,000

## **Curriculum:**

### **Week 1**

- Introduction to lab procedures, equipment and apparatus, consumables, handling of pipettes and pumps
- Aliquoting, aseptic technique, Drawn-out pipettes
- Sperm preparation: assessment, cryopreservation, preparation for IVF and ICSI

### **Week 2**

- Stimulation protocols
- Forecast and setup for cases
- Oocyte retrieval, grading of oocytes and insemination
- ICSI: Aligning of injection needles and immobilization of sperm
- Other micromanipulation techniques

### **Week 3**

- ICSI (continued)
- Embryo cleavage, blastocysts, and culture medium
- Embryo selection, embryo replacement
- Cryopreservation

### **Week 4**

- Setting up an IVF Lab
- ICSI (continued)
- Quality control and maintenance, record keeping
- Troubleshooting
- 1 day attachment to an IVF Lab

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**Application Form  
Basic ART Course for Embryologists**

**Personal Details**

Name: \_\_\_\_\_ Gender: M/F

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Date of Birth: \_\_\_\_\_ Age: \_\_\_\_\_ Race: \_\_\_\_\_

Citizenship: \_\_\_\_\_ NRIC/Passport No.: \_\_\_\_\_

**Education / Professional Qualifications**

Name of School/University attended	Country	Duration of course	Highest academic qualification attained

**Employment History**

Name of Employer	Country	Designation	Period of Employment	
			From	To

**Others**

Specialty:  Andrology  Embryology  OB/GYN  Urology  Other

**Previous/Current IVF Centre information**

Name of previous/current IVF centre

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No. of embryologists in the IVF centre \_\_\_\_\_

No. of IVF/ICSI cycles per annum \_\_\_\_\_

No. of Thaw cycles per annum \_\_\_\_\_

**Related experience**

No. of years of IVF work \_\_\_\_\_

Training period \_\_\_\_\_

No. of IVF/ICSI performed unsupervised \_\_\_\_\_

**Any other information which may be useful for this application**

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