

# Canadian Center for Reproductive Medicine and Clinical Embryology

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| <b>Course title</b> | <b>Andrology – Advanced<br/>Andrology techniques in IVF</b> |
| <b>Duration</b>     | 38.75 hours or 5 days                                       |
| <b>Fees</b>         | CAN \$ 4500   |

Course objectives:

Participant trained on this course will receive one-on-one training to develop knowledge and skills in:

- perm DNA fragmentation test by FACS (TUNEL assay)
- MACS\* technique for selection of non-apoptotic spermatozoa
- Measurement of reactive oxygen species (ROS) levels in semen samples
- Measurement of total antioxidant status (TAC) in seminal plasma
- Apoptotic marker in ejaculated spermatozoa by fluorescence microscopy (Annexin V binding)

#### **Educational teaching methods:**

Interactive discussion and teaching sessions

Hands-on laboratory training sessions

Live lectures and multimedia presentations

#### **Evaluation of trainee:**

Knowledge / Theoretical Component (30%): Multiple choice questions on lab techniques linked to each course module

Practical Skills (50%): Tested on specific lab techniques taught during the training

verbal Communication & Comprehension Skills / Integrative Component (20%): PowerPoint talk on a topic linked to a course module and viva voce

Candidates who meet the training requirements and successfully complete the course work will be awarded the Training Certificate

Each participant will receive:

Certificate of Training (issued upon successful assessment by the instructor) and Grading Report