

ADVANCE EMBRYOLOGY TRAINING PROGRAM

Introduction to Advanced Embryology Training Program!

Welcome to the Advanced Embryology Training Program, designed for professionals seeking to expand their knowledge and proficiency in the complex field of embryology and assisted reproductive technologies (ART). This program is tailored to individuals with a solid understanding of basic embryology principles and aims to explore advanced concepts, cutting-edge techniques, and emerging research in reproductive sciences.

Location:

This course will be held at the Center of ————

Course Type

7 day-Course -Basic and Advanced.

Maximum number of participants:

Maximum 3 participants will be participate.

Program Objectives:

1. Advanced Embryonic Development:

Dive deeper into the molecular mechanisms and signaling pathways involved in embryonic development, including epigenetic modifications and cell differentiation.

1. Fertilization Techniques:

Conventional IVF:

Procedures for conventional IVF, including insemination techniques.

Intracytoplasmic Sperm Injection (ICSI):

Techniques for microinjection of sperm into oocytes.

Laser Assisted Hatching:

Methods for assisting embryo hatching before implantation.

1. Embryo Assessment and Selection:

Criteria for evaluating embryo development and selecting embryos for transfer.
Introduction to embryo scoring systems and grading.

1. Cryopreservation Techniques:

Oocyte and Embryo Freezing:

Protocols for Oocyte and embryo cryopreservation, including cryoprotectant use and controlled-rate freezing.

Thawing Techniques:

Procedures for thawing frozen Oocyte and embryos and preparing them for embryo transfer.

1. Advanced Laboratory Techniques:

Master advanced techniques in embryo culture optimization, time-lapse imaging(TLM), blastocyst biopsy for preimplantation genetic testing (PGT), and advanced cryopreservation methods (e.g., vitrification).

1. Microsurgically Retrieved Sperm Processing:

Surgically retrieved sperms from TESA, PESA, TESE And MICRO-TESE

Surgically retrieved Sperm processing for ICSI

1. Research and Innovation:

Explore current research trends and innovations in embryology, including the use of stem cells in reproductive medicine, mitochondrial replacement therapy, and gene editing technologies.

1. Clinical Applications:

Understand advanced clinical applications of embryology in ART, such as embryo selection algorithms, embryo-endometrial interactions and Endometrial receptivity assay(ERA).

1. Quality Management and Regulatory Considerations:

Gain insights into advanced quality control measures, accreditation standards (e.g., ISO 15189), and regulatory frameworks governing embryology laboratories.

1. Quality Control and Assurance:

Maintaining quality standards in the laboratory through proper documentation and record-keeping.

Techniques for ensuring accuracy and reliability in laboratory procedures.

1. Ethical and Legal Considerations:

Ethical guidelines and considerations in embryology and assisted reproductive technologies.

Legal aspects related to embryo handling, storage, and disposition.

Training Format:

Specialized Lectures and Seminars:

Engage with leading experts in embryology and reproductive sciences through in-depth lectures covering advanced topics and recent developments.

Hands-on Workshops:

Participate in practical workshops focusing on advanced laboratory techniques, including live demonstrations of cutting-edge equipment and technologies.

Research Symposia:

Attend research symposia and presentations showcasing groundbreaking studies and advancements in embryology and reproductive medicine.

Clinical Case Studies:

Analyze complex clinical cases to apply advanced embryology knowledge and critical thinking skills to real-world scenarios.

Target Audience:

Experienced Embryologists and Practitioners:

Professionals already working in ART laboratories who seek to enhance their expertise and stay abreast of advancements in the field.

Researchers and Academics:

Scholars and researchers interested in advancing their understanding of embryology and contributing to innovative research in reproductive sciences.

Healthcare Leaders and Decision-Makers:

Individuals involved in policy-making, quality assurance, and strategic management in fertility clinics and healthcare institutions.

Benefits of Participation:

This advanced training program aims to equip participants with advanced theoretical knowledge, practical skills, and research insights necessary to excel in the rapidly evolving field of embryology and reproductive sciences. By the end of this program, participants will be prepared to lead innovative initiatives, contribute to research advancements, and enhance clinical outcomes in assisted reproductive technologies.

We are excited to embark on this journey of exploration and discovery with you as we delve into the intricacies of advanced embryology and its transformative impact on reproductive health and fertility treatments.

Fee structure:

Language:

The official language of the course is English.

What's not included?

Travel to and from India.

Accommodation Fees for Applying for a Visa

It is recommended that participants arrange for their own travel insurance.

“An Advance embryology training program to prepare participation to embark on an enriching journey where curiosity meets expertise, and together, we explore the limitless possibilities of advanced embryology.”