

BIOPSY TRAINING BROCHURE

Embryo Biopsy: Understanding the Procedure; Unlocking Insights for a Healthy Future

Introduction:

Welcome to the Embryo Biopsy Training Program!

Embryo biopsy is a critical technique in reproductive medicine, enabling genetic testing for conditions such as chromosomal abnormalities and single-gene disorders. Mastering this technique requires a comprehensive understanding of embryology, micromanipulation skills, and proficiency in biopsy procedures. Our training program offers a unique opportunity to acquire these essential skills under the guidance of experts in the field.

Program Overview:

Embryo Biopsy Training Program is designed to provide participants with hands-on experience and theoretical knowledge essential for performing successful embryo biopsy procedures. The program covers various aspects of embryo biopsy, including:

- Embryonic development and morphology.
- Principles of micromanipulation
- Techniques for biopsy procedures
- Ethical considerations and safety protocols
- Quality control and troubleshooting

Eligibility criteria:

Who Should Attend?

Researchers with experience in micro manipulation, clinical embryologists, clinicians involved in assisted reproduction techniques and IVF lab technologist who want to master the fundamentals of trophectoderm biopsy or refine their skills in the field.

Location:

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

Course Type

3 day-Course -Basic and Advanced

Course Description:

The purpose of this three-day training is to introduce participants to the genetics services which is used in ART and PGT as a screening tool for embryo selection, as well as the techniques for handling cells that have been biopsied and performing embryo biopsies.

Methods for biopsy and cell tubing, including pipettes, media and equipment will be discussed.

Participants will be able to practice biopsy of trophectoderm cells and preparing them for analysis using mouse embryos.

Course Objectives:

- To learn about the most recent PGT trends.
- To have hands-on practise in the processing of cells and trophectoderm biopsies.
- To learn about the introduction of PGT to the clinical and laboratory setting.
- Optimising Microscopy and laser use.

- Hands on microscope, laser and trophectoderm biopsy
- Tubing/ Loading of cells
- Role of vitrification in a PGT program
- Learn how to validate, train and maintain consistent outcomes
- Tips and tricks and troubleshooting solutions

Educational needs and expected outcomes

- Lectures
- Discussions
- Demonstration
- Hands-on training with mouse blastocysts
- Trouble shooting

The course aims to provide you with:

Theory lectures combined with hands on training:

1 Day(To know your machine)-

- Basic understanding of your machine.
- To know about biopsy equipment setting-up(installation and uninstallation).
- Choices of Microtools.
- Laser system & types of lasers.

2 Day(Pre-implantation genetic testing & Genetic lab methods)-

Lectures will be officially conducted by Genetic counsellors

- Pre-implantation genetic testing- why its important, Patient selection criteria, understanding statcal analysis of PGT report.
- Types of PGT- PGT-A,PGT-M,PGT-SR
- Ideal Method for Genetic testing- NGS, Q-PCR, RT-PCR, FISH,SNP Microarray and CGH.

3 Day (Hands-on training) – Troubleshooting)-

- Hands-on training on mouse blastocysts step by step trophectderm biopsy.
- Tips and tricks for trophectoderm biopsy.
- Encountering trouble shooting.

Maximum number of participants

Maximum 3 participants will be participate.

Language

The official language of the course is English.

Certification and Accreditation

When the course is over and the evaluation has been completed, participants can pick up a certificate of attendance.

Key Features

- **Practical Training:** Participants will receive extensive hands-on training using state-of-the-art equipment under the supervision of experienced embryologists.
- **Expert Faculty:** Learn from leading experts in the field of reproductive medicine who will provide personalized guidance and mentorship.
- **Comprehensive Curriculum:** Our curriculum is designed to cover all aspects of embryo biopsy, ensuring participants gain a thorough understanding of the technique.
- **Small Group Sessions:** Benefit from small group sizes to facilitate personalized instruction and interaction with faculty.
- **Certification:** Upon successful completion of the program, participants will receive a certification recognizing their proficiency in embryo biopsy techniques.

What's included?

- Participation to lectures
- Hands-on training
- Syllabus of the Course
- Lunches and refreshments
- Certificate of participation

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.

Join us in advancing your skills in embryo biopsy methods for genetic analysis. Together, let's strive for excellence in assisted reproduction and contribute to the success of fertility treatments worldwide!