



CENTER FOR MEDICAL GENETICS

A complete genetic diagnostic solutions

(a unit of GenVams Trust)

TRAINING PROGRAMS

Center for Medical genetics has a separate wing which focuses on providing extensive training for students and professionals in the field of cytogenetics.

All students undergoing the training program will be given a certificate.

Module I: Cytogenetics - Karyotyping and Basics of Genetic Counseling

Course duration - 2 Weeks

Timing: Monday - Friday

10.00a. to 5.00p.

Course Outline:

- Concepts of Genetics
- Principles of blood culture and isolation of lymphocytes (Practical - Hands on)
- Identification of chromosomes, karyotyping and diagnostic reporting of the same according to ISCN
- Correlating Chromosomal Abnormalities with Syndromes and their Clinical Features
- Pedigree Analysis
- Evaluation

Module II: Cytogenetics - Karyotyping, Fluorescence Insitu Hybridization (FISH) Demo and Basics of Genetic Counseling

Course duration - 2 Weeks

Timing: Monday - Friday
10.00a. to 5.00p.

Course Outline

- Concepts of Genetics
- Principles of blood culture and isolation of lymphocytes (Practical - Hands on)
- Identification of Chromosomes - Normal and Abnormal
- Correlating Chromosomal Abnormalities with Syndromes and their Clinical Features
- Principle of Fluorescence Insitu Hybridization (Practical - Demo)
- Pedigree Analysis
- Evaluation

Module III: Cytogenetics - Karyotyping, Fluorescence Insitu Hybridization (FISH) Hands-on and Basics of Genetic Counseling

Course duration - 2 Weeks

Timing: Monday - Friday
10.00a. to 5.00p.

Course Outline:

- Concepts of Genetics
- Principles of blood culture and isolation of lymphocytes (Practical - Hands on)
- Identification of Chromosomes - Normal and Abnormal
- Correlating Chromosomal Abnormalities with Syndromes and their Clinical Features
- Principle of Fluorescence Insitu Hybridization (Practical - Hands - on)
- Pedigree Analysis

- Evaluation

Module IV: Fluorescence Insitu Hybridization (FISH)

Course duration - 2 Weeks

Timing: Monday - Friday
10.00a. to 5.00p.

Course Outline:

- Concepts of Genetics
- Principle of Fluorescence Insitu Hybridization (Practical - Hands - on)
- Correlating Chromosomal Abnormalities with Syndromes/diseases.
- Evaluation