Workshop on ARRAY CGH: Principles, Applications, and Clinical Genomic Data Interpretation

Array comparative genomic hybridization, also known as array CGH, is a molecular cytogenetic technique for the detection of chromosomal copy number changes on a genome wide and high-resolution scale. It is considered the first-line investigation for patients with developmental delay, intellectual disability, autism, epilepsy or congenital abnormalities. It can also be used in the prenatal setting for the investigation of fetal ultrasound anomalies.

In this workshop you will learn:

- Fundamentals, applications and limitations of array CGH
- Application of array CGH in preimplantation genetic screening (PGT), prenatal, and postnatal
- Copy number variations (CNV) in the human population and clinical interpretation of CNVs
- Use of genomic databases in reporting and clinical interpretation of array CGH findings
- Understanding common challenges and solutions

This workshop is suitable for graduates and students of all academic levels in biology, paramedical, and medical fields. It is necessary for the participants to have previous knowledge about DNA and RNA.