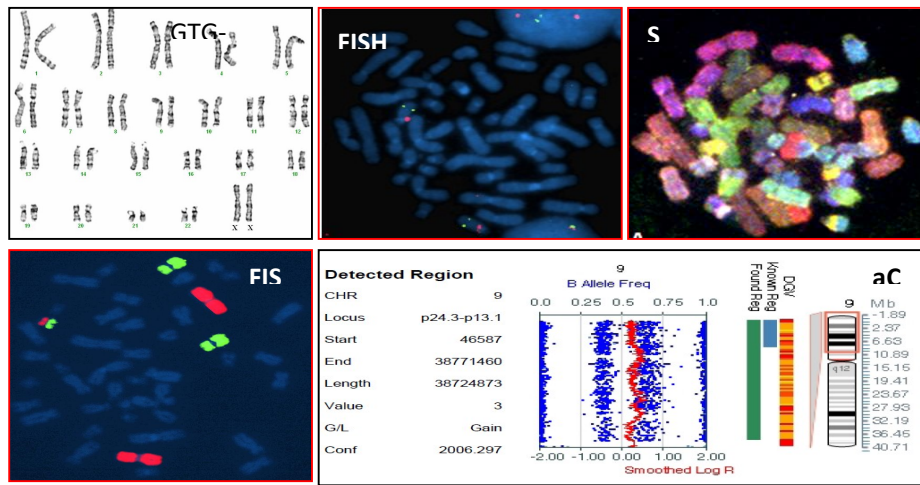


Centre for DNA Fingerprinting and Diagnostics, Hyderabad

Hands on workshop on

Clinical Applications of Molecular Cytogenetics

10th -15th June 2019



Cytogenetics is still a gold standard technique to identify the numerical and structural chromosomal abnormalities in this era of next generation sequencing. The aim of this workshop is to provide an introduction to methods and hands-on experience for the diagnosis of chromosomal disorders in cytogenetics, FISH and microarray analyses.

Lectures: Chromosomal abnormalities, Principle of FISH and its applications in human disorders, Types of probes involved in the detection of microdeletion syndromes and structural rearrangements, Importance of microarray in human disorders, Quality control in cytogenetics, etc.

Laboratory: Hands on training in cytogenetics, FISH with single and dual color FISH probes (centromere, locus –specific, whole chromosome paint probes), Imaging and analysis, Microarray data analyses, case-based discussions, etc.

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