CHROMOSOMAL MICROARRAY

GeneXplore

"Exploring the spiral of life"

CHROMOSOMAL MICROARRAY

- Chromosomal Microarray (CMA) also called as "Molecular Karyotyping" generally used for genetic diagnosis of individuals with unexplained clinical manifestation like: Delayed Development, Multiple Congenital Anomalies, Facial Dysmorphisms, etc.
- CMA detects submicroscopic chromosomal abnormalities in growing fetus using sample from amniocentesis and chorioic villi. CMA is excellent tool to diagnose Copy Number Variation (CNVs) in genome which are much detected in Delayed Developments Disorder, Autism Spectral Disorder, Idiopathic Mental Retardation, etc.

CHROMOSOMAL MICROARRAY DETECTS

- Submicroscopic deletions and duplications, which are too small to detect with microscopy.
- Abnormalities in chromosome structure and number – Chromosomal Aneuploidies / Segmental Aneuploidies
- Unbalanced Chromosomal structural rearrangements like translocations.
- CMA can detect as low as 10% and 20–30% mosaicism from whole chromosome and segmental Aneuploidies.

TEST METHOD - MICROARRAY
SAMPLE REQUIRED - AMNIOTIC FLUID 15 mL / CVS or EDTA BLOOD 2-3 mL
TURN AROUND TIME - 3 TO 4 WEEKS

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