CHROMOSOME DYNAMICS CORE

Providing a variety of services and comprehensive data interpretation

We specialise in state-of-the-art molecular cytogenetics methods for the following research applications:

- Physical mapping of clones/probes
- High resolution characterisation of chromosomal breakpoint in patients
- High resolution characterisation of transgenic insertions
- Verification of cell lines authenticity
- Karyotype analysis of ES cells and iPS cells
- Cell-based assays for gene expression analysis
- Determination of DNA damage and genomic instability
- Copy number variation (CNV), uniparental disomy and loss of heterozygosity analysis

Our research strategy adopts an innovative approach to ensure the exact requirements for your projects are met using a spectrum of techniques:

- DNA- FISH
- RNA-FISH,
- Fibre-FISH,
- Immuno-FISH,
- Multi colour chromosome karyotyping by M-FISH,
- Micronucleus Assay
- DNA Microarray technology
- Wide field & confocal fluorescence microscopy

Data Analysis using the following tools:

- Affymetrix® Genotyping Console™
- Affymetrix® Chromosome Analysis Suite
- Genetix Genus CytoVision®
- Molecular Devices Inc. Metamorph®
- Perkin Elmer Inc. Volocity®
- Zeiss 510 confocal LMS®
- Nikon NIS Elements®

We welcome the opportunity to discuss your interests and opportunities to collaborate
Contact us for more information at:

Chromosome Dynamics Core

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