CYTOGENETICS

Empowering Australian Genomics

A wide range of services based on the Illumina Human BeadChip arrays

AGRF Array-Based Cytogenetics

These services accommodate projects with a broad range of applications which include:

- Copy number variation (CNV)
- Loss of Heterozygosity (LOH)
- Chromosomal aberrations
- Linkage and linkage-disequilibrium mapping
- Association studies
- SNP Genotyping
- Population genetics studies

These applications enable the discovery of more causative aberrations than conventional karyotype or FISH technologies.

AGRF offers the array-based cytogenetics service to provide a high-resolution view of the entire genome, enabling the examination of genetic variation frequently associated with congenital disorders.

High-Throughput Processing

AGRF is able to offer high-throughput screening for cytogenetic testing. Using Tecan automation we are capable of processing more than 864 samples per week.

Illumina Services

AGRF offers a full service on all catalogue Illumina Human BeadChip arrays for Cytogenetics testing, including POC samples. AGRF utilises Illumina's HumanCytoSNP-12 and CytoSNP-850k BeadChips.

The Human CytoSNP-12 features:

- Median Spacing: 6.2 Kb (~0.008 cM)
- Sample Number: 12 per array
- Cytogenetic Markers: 299,671 (targeting known regions of cytogenetic importance)
- Focused target: 400 genes involved in developmental
- defects, delay and other structural changes

The CytoSNP-850K features:

- Over 850,000 SNPs with 15x redundancy
- Sample Number: 8 per array
- Coverage for 3,262 genes of known cytogenetics relevance in both constitutional and cancer applications
- Higher and lower density arrays are also available.

illumina CSPro CERTIFIED SERVICE PROVIDER

NATA WORLD RECOGNISED ACCREDITATION

Our funding partners

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These schemes include NCRIS, EIF, Super Science Initiative CRIS and NCRIS 2.

NCRIS National Research Infrastructure for Australia An Australian Government Initiative

BIOPLATFORMS AUSTRALIA

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