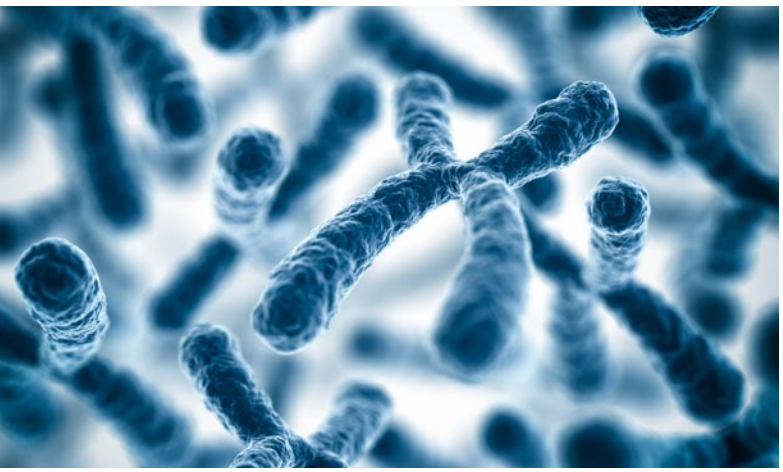
ARRAY BASED CYTOGENETICS

Empowering Australian Genomics



AGRF offers a wide range of services based on the utilisation of Illumina Human BeadChip arrays.

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 genetic 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.

Illumina services

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

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 density arrays are also available.

illumina CSPro CERTIFIED SERVICE PROVIDER

NATA WORLD RECOGNISED ACCREDITATION

High-Throughput Processing

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

Our funding partners

AGRF is a not-for-profit organisation supported by the Commonwealth Government infrastructure schemes administered through Bioplatforms Australia.

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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