

WHOLE GENOME SEQUENCING

Large scale, low cost whole genome sequencing.

AGRF and the Garvan Institute's Kinghorn Centre for Clinical Genomics (KCCG) are working together to facilitate Australia's access to large whole genome sequencing.

Whole-genome sequencing now goes beyond humans and is available for population-scale sequencing of other species in a variety of markets, including plant and livestock in agricultural research and model organisms in pharmaceutical research.

The partnership between AGRF and KCCG allows for genomic DNA samples to be submitted to your local AGRF node, for library preparation and Illumina HiSeq XTM Ten sequencing by KCCG.



Service Specifications	(per genome)
Sample required	100uL of 20ng/uL or greater
Minimum sample number	Starting from 1x genome
Sequencing yield	>100GB, >75% bases above Q30, 2x150bp paired end reads
Coverage	Human: 30x mapped equivalent. Also available in 60x and 90x (i.e. in 100GB units) Non-human: coverage dependent on organism genome size
Data format	FASTQ, delivered by SFTP download
Analysis	Data will be QC checked only. For further analysis please enquire

The whole human genome sequencing service is offered on a per sample basis at 30x coverage.

We can work with you to determine the best combination of services for your project, including variant validations and related biological analysis such as gene expression or epigenetic changes.

This service is currently available for research purposes only. Researchers are responsible for ensuring all relevant ethical approvals have been obtained prior to providing samples.

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Our funding partners

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NCRIS
National Research
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