Introduction to 1000 Genomes Project and IGSR data resources

DNA & RNA

Beginner
Intermediate

1 hour

The 1000 Genomes Project set out to catalogue common human genetic variation, publishing a set of variations based on sequencing of 2504 individuals from 26 populations. Variant calls, sequence data, high-density genotyping chip calls and cell lines from the 1000 Genomes Project are all available to researchers and can be located via the International Genome Sample Resource (IGSR), along with data from other projects with similarly open data.

Applications of these data sets include filtering non-pathogenic variants from exome and whole genome sequencing projects, genotype imputation for GWAS and mapping eQTLs.

Learning objectives:

- An introduction to IGSR
- A guide to the 1000 Genomes Project
- A summary of the main data resources in IGSR
- Information on locating and downloading data from IGSR

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Contributors

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Links
[1] https://www.ebi.ac.uk/training/online/trainers/fairley_10941