Whole Genome Sequencing:

Human Whole Genome Sequencing and Data Analysis for Custom Prognosis and Diagnosis including Pharmacogenomics leading to Personalized Precision Medicine practice.

This service is for end users who are already suffering from any chronic or rare diseases and would like to know more about the genetic basis to avoid any Adverse Drug Reactions and optimise drug regime. This service will also help to uncover any related genetic variants that will help to personalise the precision medicine practice.

This service is ideal for end users who are healthy but have a family history of chronic disease suffering and proneness. Such individuals are highly likely to develop the diseases at a later stage and pin-pointing the disease variants earlier will help them to plan a healthy lifestyle to avoid sudden grief. This kind of service to healthy individuals can also help them to plan healthy ageing and plan their fitness regime to avoid any sudden disastrous consequences of stress.

Accuracy of Genetic variant annotations: >90%

Data output: ~50Gb

Data visualization: Customized Cloud based Interactive Knowledgebase accessible through Internet on Smart phone/PC/Tablet

Report: Custom report (PDF format) generation as required by Genetic consultant/ Physician for a specific medical condition or wellness management.

ClinGen Whole Genome Sequencing and Data Analysis will be carried out as per the end user requirement. Whole human genome to be sequenced at 20X coverage, assembled and annotated with Ethnic reference genome for Precision Medicine practice. Whole Genome Data analysis will reveal ALL variants present in the Genome. Data will be analysed on Supercomputer with highly compute intensive algorithms in automated workflows to avoid any human errors and for faster Turn Around Time. Results to be available in a customised and dynamic knowledgebase hosted in the Cloud. Custom PDF reports can be generated for any set of genes or medical conditions as and when required.