

## Whole Exome Sequencing:

*Human Whole Exome Sequencing, Assembly 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.*

*The major difference between Whole Genomic Sequencing and Whole Exome Sequencing is that ONLY the genetic variants in the known 23,000 genes will be covered. It should be noted that majority of the known disease and wellness variants are present in these genes.*

*Accuracy of Genetic variant annotations: >80%*

*Data output: 9Gb*

*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 Exome Sequencing and Data Analysis are performed as per end user requirement. All 23, 000 human genes to be assembled and annotated with Ethnic reference genome for Precision Medicine practice 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.*

