


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>Accredited to ISO 15189:2012</p>	<h3>Genomics England Limited</h3> <p>Issue No: 002 Issue date: 22 July 2020</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>MATERIALS/PRODUCT Tested</p> <p>Whole human genome sequencing data from an external source</p>	<p><u>BIOINFORMATICS</u></p> <p>Identification of Somatic and Germline regions in cancer patients which contain potentially actionable variants as follows:</p> <p>Single Nucleotide Variants (SNVs) Indels Copy Number Variations (CNVs) Structural Variant (SVs) Internal Tandem Duplications (ITDs)</p>	<p>Documented in-house methods:</p> <p>Alignment, Variant calling, QC steps and checks and identification of potentially clinical actionable variation from WGS data from cancer samples</p> <p>Software and platforms:</p> <p>Bertha (Workflow manager) Open CGA (LIMS) Cellbase (Genomic reference and annotation database) Panel App (Knowledgebase of gene phenotype association) Interpretation Portal Decision Support (BSVI)</p> <p>SOPs: BER-SOP-0001 Cancer Bioinformatics Pipeline BER-SOP-0007 GMS Cancer Bioinformatics Pipeline Dragen Alignment Dragen variant caller (Small variants) Strelka (Somatic small variant caller) Pindel (ITDs) Canvas/Dragen CNV (CNVs) and Manta (SVs) Clinical Variant Ark (CVA, Knowledgebase) Starling for germline small variants</p>



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<p>MATERIALS/PRODUCT Tested (cont'd)</p> <p>Whole human genome sequencing data from an external source</p>	<p><u>BIOINFORMATICS (cont'd)</u></p> <p>Identification of variants (as listed below) with potential diagnostic utility in genomes of individuals or families with rare diseases.</p> <p>Single Nucleotide Variants (SNVs) Indels Copy Number Variations (CNVs) Short tandem repeats (STRs)</p>	<p>Documented in- house methods:</p> <p>Alignment, Variant Calling, QC steps and checks and identification of potentially clinically actionable variation from WGS data from affected individuals with rare disease and their family members</p> <p>Software and platforms:</p> <p>Platypus (variant caller) Dragen Alignment Dragen variant caller (Small variants) Canvas/Dragen CNV (CNVs) and Manta (SVs) ExpansionHunter (STRs) Bertha (Workflow manager) Family selection workflow (assurance check) Genetic v reported (assurance check) Open CGA (LIMS) Variant Interpretation Pipeline Panel App (Knowledgebase of gene phenotype association) Cellbase (Genomic reference and annotation database) Interpretation Portal Decision Support (Congenica/Fabric) Clinical Variant Ark (CVA, Knowledgebase)</p> <p>SOPs: BER-SOP-0002 - Rare Disease Pipeline BER-SOP-0006 Rare Disease Pipeline for GMS (Genomics Medicine Service) IP-SOP-0001 Interpretation pipeline</p>



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<p>MATERIALS/PRODUCT Tested (cont'd)</p> <p>Whole human genome sequencing data from an external source</p>	<p><u>BIOINFORMATICS (cont'd)</u></p> <p>Identification of germline variants with potential drug toxicity implications (as listed below) in genomes of cancer patients.</p> <p>DPYD variants: c.1905+1G>A c.1679T>G c.2846A>T c.1129-5923C>G c.1236G>Aii</p>	<p>Documented in-house methods:</p> <p>Variant calling and identification of PGx variants in cancer patients</p> <p>Software and platforms:</p> <p>Dragen variant caller (Small variants) Strelka (Somatic small variant caller) Starling for germline small variants</p> <p>SOP: CUR – SOP -0001 Curation of Pharmacogenetics for genome analysis BER-SOP-0001 Cancer Bioinformatics Pipeline BER-SOP-0007 GMS Cancer Bioinformatics Pipeline Bertha, Interpretation Portal and CVA</p>
END		