


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS PROFICIENCY TESTING</p> <p>7872</p> <p>Accredited to ISO/IEC 17043:2010</p>	<p>Oxford University Hospitals NHS Foundation Trust, operating GenQA</p> <p>Issue No: 013 Issue date: 05 April 2023</p>	
	<p>Level 1, The Women's Centre John Radcliffe Hospital Oxford University Hospitals NHS Foundation Trust Oxford OX3 9DU</p>	<p>Contact: Mrs Melody Tabiner Tel: +44 (0)7714727072 E-Mail: melody.tabiner@genqa.org bettinaq@genqa.org Website: www.genqa.org</p>
Proficiency Testing provided from the locations specified below		

Locations covered by the organisation and their relevant activities

<u>Location details</u>	<u>Activity</u>	<u>Location code</u>
<p>GenQA Level1, The Women's Centre John Radcliffe Hospital Oxford University Hospitals NHS Trust Oxford OX3 9DU</p>	<p>Local contact Mrs Melody Tabiner Contact details above</p> <p>Scheme operations Cytogenomics</p>	JRH
<p>GenQA Level1, The Women's Centre John Radcliffe Hospital Oxford University Hospitals NHS Trust Oxford OX3 9DU</p>	<p>Local contact Mrs Bettina Quellhorst Email: bettinaq@genqa.org</p> <p>QMS operations</p>	JRH
<p>GenQA Laboratory Medicine NHS Lothian NINE, Edinburgh BioQuarter Little France Road Edinburgh EH16 4UX</p>	<p>Local contact Prof Sandi Deans Tel: 0131 242 6898 Email: Sandi.Deans@ed.ac.uk</p> <p>Scheme operations and laboratory services</p>	RIE



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DETAIL OF ACCREDITATION

Materials/Products	Scheme Name/Type of Test/Properties Measured	Scheme Protocols/Procedures/ Techniques Used	Location Code
Online images	<u>Cytogenomics EQA Schemes</u> Constitutional EQAs: Prenatal Karyotyping Cytogenetic analysis of images and interpretation of results	All protocols available through www.genqa.org	RIE
Online Images	Postnatal Karyotyping Cytogenetic analysis of images and interpretation of results		RIE
Online images	Pregnancy Loss (G-banded and molecular methods) Cytogenetic analysis of images and interpretation of results and technical ability to obtain a result on an array or NGS platform, analysis, and interpretation of results		RIE
Images and DNA	Chromosome Breakage Syndromes Analysis of images and interpretation of results and for the DNA case Technical ability to obtain a result using molecular methods, analysis and interpretation of results		RIE
Online	Abnormal Ultrasound Analysis of images and interpretation of results		RIE
Online case scenario/DNA	Disorders of sexual development		RIE
Online case scenario/DNA	Infertility		RIE



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Materials/Products	Scheme Name/Type of Test/Properties Measured	Scheme Protocols/Procedures/ Techniques Used	Location Code
Online case scenario	<u>Cytogenomics EQA Schemes</u> (cont'd) Severe Developmental Delay (SDD)	All protocols available through www.genqa.org	RIE
Online images	PGT of Blastomere (FISH) Analysis of FISH images and interpretation of results		RIE
DNA	PGT- SR Preimplantation Genetic Testing for chromosomal rearrangements showing Technical ability to obtain a result on an array or NGS platform, analysis, and interpretation of results		RIE
DNA	PGT-A Preimplantation Genetic Testing for aneuploidies interpretation of results - showing Technical ability to obtain a result on an array or NGS platform, analysis, and interpretation of results		RIE
DNA	Postnatal Constitutional CNV detection Technical ability to obtain a result on an array or NGS platform, analysis, and interpretation of results		RIE
DNA	Prenatal CNV Detection Technical ability to obtain a result on an array platform, analysis and interpretation of results		RIE



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Fixed cell suspensions and DNA	<u>Cytogenomics EQA Schemes (cont'd)</u> Rapid Prenatal Testing for common aneuploidies Technical ability to obtain a result using FISH, analysis, and interpretation of results. Technical ability to obtain a molecular result for rapid detection of aneuploidies of chromosomes 13, 18, 21, X and Y, analysis and interpretation of results	All protocols available through www.genqa.org	JRH, RIE
Online images/DNA	Haemato-Oncology EQAs: Acute Lymphoblastic Leukaemia Cytogenetic analysis of images and interpretation of results and technical ability to obtain a result on an array or NGS platform, analysis, and interpretation of results		JRH
Fixed Cell Suspensions / online images	Myeloma Technical ability to obtain a result using FISH, analysis and interpretation of results Cytogenetic analysis of images and interpretation of results		JRH, RIE
Online images and Fixed cell suspensions/DNA	Chronic Lymphocytic Leukaemia Cytogenetic analysis of images and interpretation of results. Technical ability to obtain a result using FISH, array or NGS platform analysis, and interpretation of results		JRH / RIE
Fixed Cell/DNA	Microdeletion syndromes		RIE



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Fixed cell suspensions	<u>Cytogenomics EQA Schemes</u> (cont'd) Haematological Technical FISH Technical ability to obtain a result using FISH, analysis, and interpretation of results	All protocols available through www.genqa.org	JRH / RIE
Online images/DNA	Myeloid Disorders Cytogenetic analysis of images and interpretation of results and technical ability to obtain a result on an array or NGS platform, analysis, and interpretation of result		JRH
Online Images and Fixed cell suspension FFPE slides	Lymphoma Technical ability to obtain a result using FISH, analysis and interpretation of results Cytogenetic analysis of images and interpretation of results		JRH, RIE
DNA and lyophilised cells	CLL TP-53 Technical ability to obtain a result using sequencing methods, analysis and interpretation of results		JRH, RIE
DNA and lyophilised cells	CLL IGHV Technical ability to obtain a result using sequencing methods, analysis and interpretation of results		JRH, RIE



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Case scenario or DNA	<p><u>Molecular Genetics EQA Schemes:</u></p> <p>Molecular Genetic disorders Achondroplasia Angelman syndrome Alzheimer disease Arrhythmia Beckwith Wiedemann syndrome BEST disease Brugada syndrome C9orf72 related Frontotemporal Dementia and/or Amyotrophic Lateral Sclerosis CADASIL Calcium Disorders Campomelic dysplasia Catecholaminergic polymorphic ventricular tachycardia (CPVT) Charcot Marie Tooth disease (X-linked) Congenital bilateral absence of the vas deferens Connexin 26 Cystic fibrosis Dravet syndrome Duchenne and Becker muscular dystrophies Emery Dreifuss muscular dystrophy Fabry disease Familial adenomatous polyposis Hereditary breast and ovarian cancer Familial hypercholesterolaemia Familial medullary thyroid carcinoma FGFR2 related skeletal dysplasias FGFR3 related skeletal dysplasias</p>	<p>All protocols available through www.genqa.org</p>	RIE



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Case scenario or DNA	<p><u>Molecular Genetics EQA Schemes (cont'd)</u></p> <p>Molecular Genetic Disorders (cont'd) Fragile X syndrome Fragile X associated tremor ataxia Friedreich ataxia Gaucher disease Gastrohepatology disorders Hereditary and motor sensory neuropathy Hereditary neuropathy with liability to pressure palsies Hereditary spastic paraplegia Huntington disease Hypertrophic Cardiomyopathy Li-Fraumeni syndrome Limb Girdle muscular dystrophies Long QT syndrome Lynch syndrome / Hereditary non-polyposis colon cancer Marfan syndrome Maternal cell contamination and sexing MUYTH-associated polyposis Medium chain acyl CoA dehydrogenase deficiency Mitochondrial diseases Molecular aneuploidy testing Multiple endocrine neoplasia types 2A & 2B Myotonic dystrophy type 1 Neurofibromatosis type 1 Neurofibromatosis type 2 Osteogenesis Imperfecta Paraganglioma (SDHD related) Parkinson disease Pathogenicity of sequence variants POLG mutation testing Prader-Willi syndrome Primary Immunodeficiency disorders</p>	<p>All protocols available through www.genqa.org</p>	RIE



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Case scenario or DNA	<u>Molecular Genetics EQA Schemes (cont'd)</u> Molecular Genetic Disorders (cont'd) Respiratory disorders Retinitis pigmentosa Retinopathies Rett syndrome Schwannomatosis SDHD related paraganglioma SOX-9 associated skeletal dysplasias Spinal bulbar muscular atrophy Spinal muscular atrophy Spinocerebellar ataxias Tay Sachs disease Tuberous sclerosis Von Hippel-Lindau disease X-inactivation Variant Validation	All protocols available through www.genqa.org	RIE
DNA	Prediction of 5-Fluorouracil Toxicity (DPYD)		RIE
DNA	Aminoglycoside Induced deafness		RIE
Online case scenario	Linkage analysis		RIE
Online case scenario	Exome data interpretation		RIE
Dried blood spots	Dried blood spot testing Cystic fibrosis (genotyping only) Medium chain acyl Co-A dehydrogenase deficiency (genotyping only)		RIE
DNA and lymphocytes	Pre-implantation genetic testing Monogenic disorders		RIE
Genomic DNA	Next Generation Sequencing (NGS) Germline		RIE



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Plasma / Artificial plasma	<u>Molecular Genetics EQA Schemes (cont'd)</u> Non Invasive prenatal Testing (NIPT) Fetal sex determination Common aneuploidies (chromosomes 13, 18, 21, X and Y) Common microdeletions Technical ability to obtain a result using NIPT methods, analysis and interpretation of results	All protocols available through www.genqa.org	RIE
Artificial plasma	cfDNA testing		RIE
Formalin fixed paraffin embedded (FFPE) tumour section or DNA	Molecular pathology Microsatellite instability testing Molecular analysis in colorectal cancer Molecular analysis in gastrointestinal stromal tumours Molecular analysis in lung cancer		RIE RIE RIE
FFPE	NTRK fusions Molecular analysis in melanoma		RIE RIE
FFPE	Prostate cancer		RIE
FFPE	Mismatch Repair		RIE
FFPE	Sarcoma		RIE
FFPE	Molecular Tissue Identification		RIE
FFPE	Breast cancer		RIE
FFPE	Renal tumours		RIE
FFPE	Thyroid cancer genotyping only		RIE
FFPE	CNS Tumours		RIE
FFPE	BRCA testing for ovarian and prostate cancer – somatic		RIE
DNA	BRCA testing for ovarian, breast, pancreatic and prostate cancer – somatic		RIE



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Blood	Molecular pathology cont'd DNA extraction schemes DNA extraction from venous blood samples		RIE RIE
FFPE tissue	DNA extraction from formalin fixed paraffin embedded (FFPE) tissue samples		RIE
END			