Genomics Quality Assessment (GenQA)

GenQA Latest

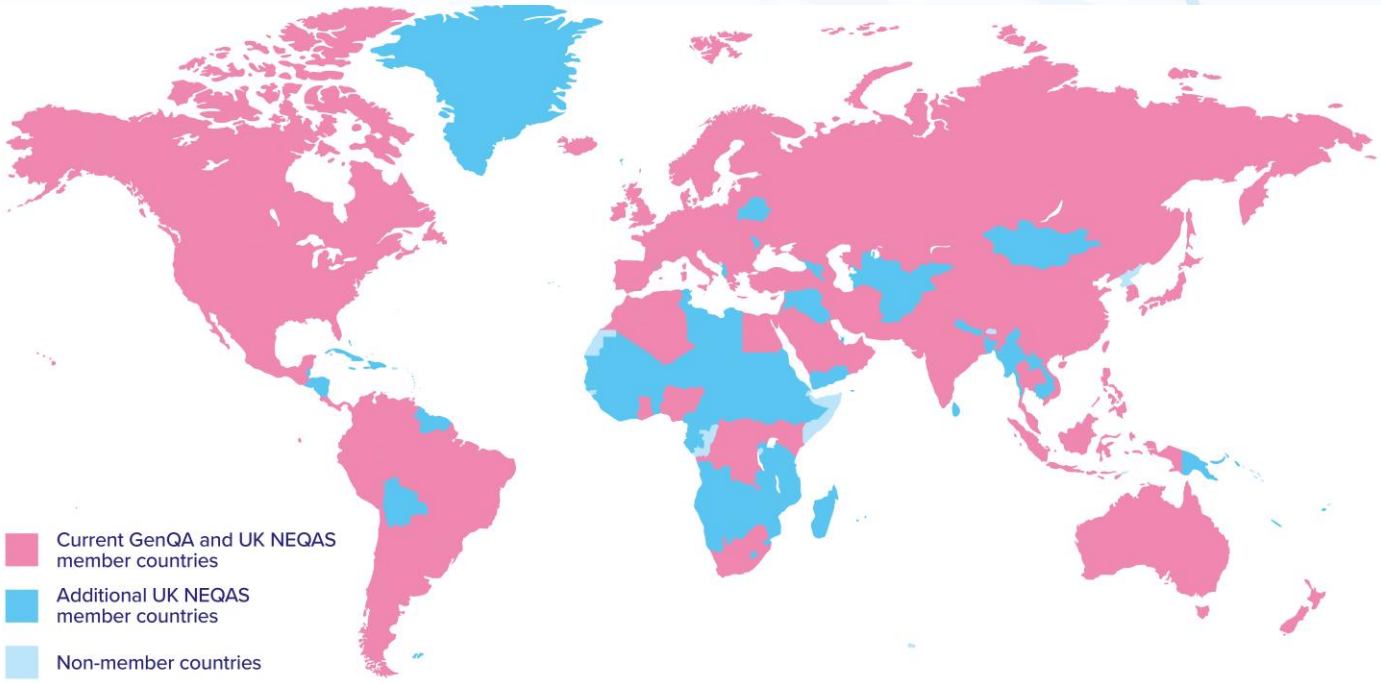
1922 Participating Laboratories

382 Expert Assessors

119 EQAs for 2023

89 Participating Countries

183 Spanish Labs



GenQA is operated by Oxford University NHS Foundation Trust

UK NEQAS

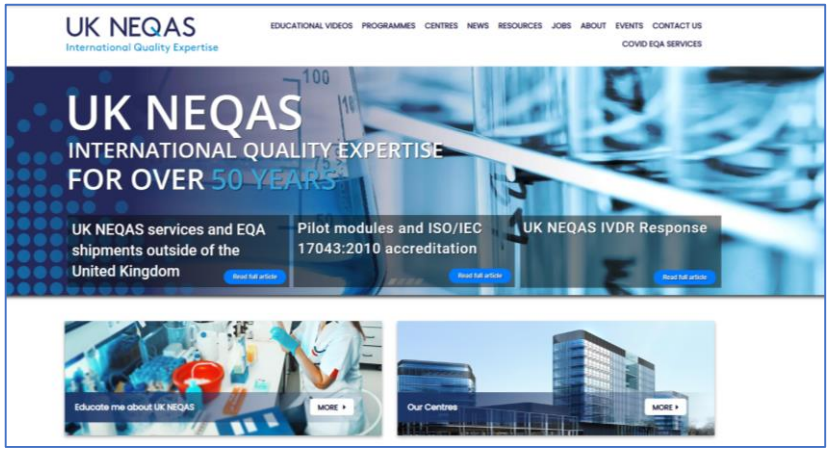
International Quality Expertise

GenQA Genomics Quality Assessment

UK National External Quality Assessment Services

"helping to ensure clinical laboratory test results are accurate, reliable and comparable wherever they are produced"

- Charity organisation
- Self-funding, non-profit making schemes
- 25 specialist centres
- Over 50 years' experience providing EQA
- Participants worldwide
- ISO Accredited



GenQA Genomics Quality Assessment

Member of UK NEQAS consortium

World Health Organization

"EQA is defined as a system for objectively checking the laboratory's performance using an external agency or facility."

We're driven to work in partnership with genomics centres
- **both laboratories and clinicians**
- across the world
to provide high quality patient testing for genomic disorders and acquired diseases.

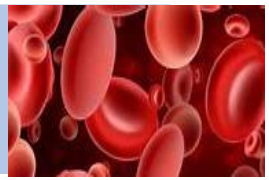
We know the **fast-evolving field of genomic medicine** will continue to advance, and our **scientific team** is focussed on delivering fit for purpose external quality assessments (proficiency testing) and individual competency assessments that continuously develop with the pace of change.

EQAs cover the breadth of genomics services

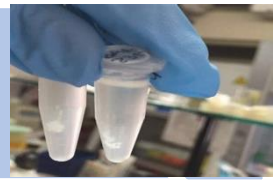
Reproductive Genomics

Genomic and Inherited Disorders

Haematological neoplasms

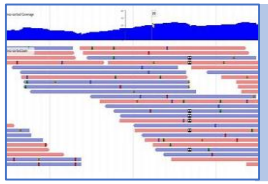


Sample Handling



Pharmacogenomics

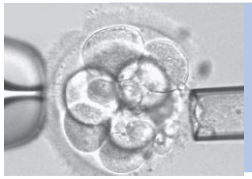
Molecular Pathology



Technical: NGS and OGM

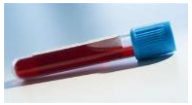
Clinical Genetics and Genetic Counselling

Molecular Newborn Screening

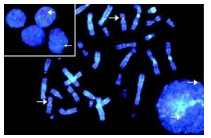


Preimplantation Genetic Testing

Format of EQAs







Registration

Finalise reports and apply performance critiera for genotyping

Sample sourcing & validation

EQA distribution

Results submission

Marking critiera defined

Assessment

Collation of results

Individual EQA Provider Scheme reports plus laboratory reports

Appeals process

GenQA Genomics Quality Assessment

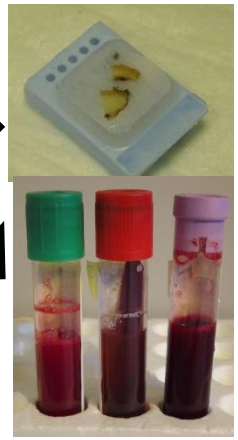
Member of UK NEQAS consortium

End to End testing

Pre-test consultation/ Referral → Sample → Analysis → Interpretation → Reporting → MDT → Consultation

Pre-test referral

Consultation



Sample handling

DNA extraction
DNA quality

DNA quantity

Testing accuracy

Interpretation

Reporting

Haematology SAG

Molecular Pathology SAG

Cancer Genomics Specialist Advisory Group

Co-chairs
David Gonzalez de Castro – UK
Blanca Espinet - Spain

Cancer Genomics EQAs

Acute Lymphoblastic Leukaemia
Chronic Lymphocytic Leukaemia
Haematological Technical FISH
Lymphoma
Lymphoma Technical NGS
Myeloid disorders (AML, MDS)
Multiple myeloma
CLL-IGHV mutation status
CLL- *TP53* analysis
Pathogenicity of haematological neoplasm variants
ISCN nomenclature
Optical Genome Mapping (pilot)

Breast Cancer - Tumour expression profiling
Central Nervous System tumours
Cholangiocarcinoma
Endometrial tumours
Gastrointestinal Stromal
Microsatellite Instability (MSI)
Molecular Tissue identification
NTRK fusions
Renal tumours
Sarcoma
Pathogenicity of somatic solid tumour SNVs,
BRCA testing for ovarian and prostate cancer - somatic
BRCA testing for ovarian, breast, prostate and pancreatic cancer - germline
BRCA testing in prostate cancer – cfDNA
Lung cancer - (cf) DNA in lung cancer
Lung cancer
Colorectal cancer
Melanoma

Roles of an assessor

- To provide samples/images to aid in producing the EQAs (not mandatory)
- To aid in validating the EQA samples
- To assess EQAs using GenQA marking interface online – assessment meetings are held to discuss results following marking
- To provide advice for EQAs
- To potentially help with any participants that ask advice when they are having difficulties

Advantages to being an assessor

- Chance to see ways different laboratories report results
- Can be used as evidence of CPD (GenQA will provide a certificate)
- Interaction with other experts in your field
- Potential to influence best practice in genomic medicine

Scientific expert advisors

Are you interested in:

Finding out more about external quality assessment?

Working with like-minded scientists worldwide?

Supporting GenQA to shape the future of our EQAs?

Reviewing your laboratory's report format against other anonymised laboratory reports?

Gaining evidence for you continued professional development?

To apply, you will require:

Several years' experience of providing diagnostic testing and authorising clinical laboratory results/reports in the relevant EQA.

The role may include:

Sourcing/advising on suitable samples/images for EQA.

Validating the test results for an EQA.

Advise on content of clinical case scenarios.

Advising on marking criteria.

Assessing anonymised EQA reports/results submitted by participants.

Advising on participant appeals.

Contributing to EQA Summary reports.

Attending the relevant Special Advisory Group (SAG) meetings.

Contact us: info@genqa.org providing a copy of your CV