Next Generation Sequencing (NGS) EQA

- Assess data accuracy
- Use any platform/technology
- Test single gene(s), gene panel or whole genome
- Submit up to 3 different sets of data per EQA
- 8 weeks to submit results
- All EQA samples validated
- Detailed instructions provided
- Results assessed by expert panel
- Marking criteria based on professional guidelines
- Offered in collaboration with EMQN

**EQA 2019**

<table>
<thead>
<tr>
<th>NGS inherited disorders (germline)</th>
<th>NGS somatic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samples provided:</td>
<td>DNA extracted from fresh frozen tumour tissue and matched germline DNA from blood</td>
</tr>
<tr>
<td>Procedure:</td>
<td>Perform sequencing for the genes usually tested during your routine diagnostic NGS procedures</td>
</tr>
<tr>
<td>Files accepted:</td>
<td>FASTQ ✓</td>
</tr>
<tr>
<td>Data submission:</td>
<td>Upload files via online portal (automated assistance provided for correct format upload)</td>
</tr>
</tbody>
</table>

**Sample Handling EQAs for 2019**

- DNA extraction from blood samples
- DNA extraction from formalin fixed paraffin embedded (FFPE) tissue samples
- DNA extraction from fresh frozen (FF) tissue samples
- DNA extraction from saliva samples
- DNA quantification

For further information on these EQAs contact us at info@genqa.org

Please see overleaf for more EQA information
Email: info@genqa.org
Receive validated EQA material

Analyse material using routine procedures

Upload post-analyses data files (up to 3 data sets)

Expert evaluation of submissions & EQA consensus generated

Compare laboratory performance (benchmark)

Education/Internal review/Quality improvement

The EQA Cycle

For further information, please contact us at info@genqa.org
Registration for all GenQA EQAs for 2020 will open in September 2019

GenQA EQA Specialties

- Molecular Genetic Disorders
- Molecular Rapid Aneuploidy (MRA)
- Molecular Pathology
- Sample Handling: DNA extraction & quantification
- Newborn Screening
- Non-Invasive Prenatal Testing (NIPT)
- Haematological Neoplasms
- Technical: Next Generation Sequencing
- Constitutional Postnatal Testing
- Constitutional Prenatal Testing
- Clinical Genetics
- Individual Competency Assessment (G-TACT / Tissue-i)

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