

Molecular Pathology Request Form: Bristol Genetics Laboratory

Please complete electronically: type or click in the grey boxes, save and send this request to the Histopathology laboratory where the sample is stored as soon as possible.

Southmead (NBT) Histopathology: please email CellularPathologyAudit@nbt.nhs.uk or Cellpath.histology@nhs.net

RUH Histopathology ruh-tr.pathology-mdt@nhs.net

Paste patient demographics here or fill in fields below:

Patient name:		Consultant:
Address:		Department and Hospital:
Postcode:		Hospital number:
DOB:	Gender:	Requested by:
NHS number:		Date requested:
Pathology block number:		Date of resection/biopsy:
Pathologist		Date sample sent to BGL:

Test/s required, please click in the appropriate boxes below to make your selection.

Clinical summary:

Any additional information or requests:

DNA tests:

Solid Tumour NGS Gene Panel (please see overleaf for regions covered)

For solid tumour NGS analysis, please select a sub-panel, required genes or complete panel.

<input type="checkbox"/> Sub-Panel :	<input type="checkbox"/> Lung <i>EGFR, BRAF, PIK3CA, KRAS and ERBB2</i>	<input type="checkbox"/> Melanoma <i>BRAF, KIT, NRAS, GNA11 and GNAQ</i>	<input type="checkbox"/> Colorectal <i>KRAS, NRAS, BRAF</i>	<input type="checkbox"/> GIST <i>KIT, PDGFRA, BRAF, KRAS and NRAS</i>
<input type="checkbox"/> Select Genes :	<input type="checkbox"/> <i>AKT1</i>	<input type="checkbox"/> <i>GNA11</i>	<input type="checkbox"/> <i>PDGFRA</i>	
	<input type="checkbox"/> <i>BRAF</i>	<input type="checkbox"/> <i>GNAQ</i>	<input type="checkbox"/> <i>PIK3CA</i>	
	<input type="checkbox"/> <i>EGFR</i>	<input type="checkbox"/> <i>KIT</i>	<input type="checkbox"/> <i>RET</i>	
	<input type="checkbox"/> <i>ERBB2</i>	<input type="checkbox"/> <i>KRAS</i>	<input type="checkbox"/> <i>TP53</i>	
<input type="checkbox"/> <i>FOXL2</i>	<input type="checkbox"/> <i>NRAS</i>			
<input type="checkbox"/> Complete panel				

MSI analysis **BRAF codon 600 pyrosequencing** **MLH1 promoter hypermethylation**

Clonality testing Please specify: Initial B-cell, Initial T-cell, Extended B-cell, Extended T-cell

Please tick appropriate box:

Sample with **>20%** neoplastic cells: send 5 x 10µm sections in a clean universal. Labelled with patient name, date of birth and pathology block number.

Sample with **<20%** neoplastic cells: send 10 x 5µm slide mounted sections along with H&E with regions of >20% neoplastic cells highlighted. Labelled with patient name, date of birth and pathology block number.

FISH tests:

Please choose test/s from drop-down menu/s: **1.** **2.** **3.**

Please send 2 x 4µm and 2 x 2µm sections on 'APES' or 'sticky' slides **per test** required with an accompanying H&E slide with the appropriate tumour rich area(s) marked. Labelled with patient name, date of birth and pathology block number.

Immunohistochemistry (to be completed only for cases outside Bristol):

ALK IHC assay

Please send 2 x 2µm sections on charged slides plus an accompanying H&E slide.

Please include a copy of the histopathology report for this patient

Samples should be dispatched as soon as possible as the patient's treatment is dependent upon the molecular analysis. Send paperwork and sample to: Bristol Genetics Laboratory, Pathology Sciences, Southmead Hospital, Bristol BS10 5NB Phone: 0117 414 6168 Email: nbn-tr.geneticsenquiries@nhs.net

CONSENT STATEMENT It is the referring clinician's responsibility to ensure that the patient/carer knows the purpose of the test and that the DNA sample will be retained in long term storage and may be used for future diagnostic tests. Completing this form is an indication that the clinician has obtained consent for testing and storage. The patient should be advised that the sample may be used anonymously for quality assurance and training purposes. Please advise us of any restrictions. Any remaining sections/slides will be returned to the histopathology laboratory of origin.

Regions covered by solid tumour NGS panel:

<i>AKT1</i> exon 3 (partial): codon 17
<i>BRAF</i> exon 15 (partial): codons 581 to 605
<i>EGFR</i> exons 18, 19 and 20, exon 21 (partial): codons 848 to 875
<i>ERBB2</i> exon 14 (partial): codons 551 to 579, exon 17, exon 20 (partial): codons 770 to 812, exon 21 (partial): codons 832 to 864
<i>FOXL2</i> exon 1 (partial): codon 134
<i>GNA11</i> exon 5 (partial) codons 203 to 230
<i>GNAQ</i> exon 5 (partial):codons 203 to 243
<i>KIT</i> exons 8, 9, 10, 11, 13, 14, 17, 18.
<i>KRAS</i> exon 2 (partial): codons 1 to 20, exon 3 (partial): codons 38 to 72, exon 4
<i>NRAS</i> exon 2 (partial): codons 1 to 22, exon 3 (partial): codons 56 to 94, exon 4
<i>PDGFRA</i> exons 12, 14 and 18
<i>PIK3CA</i> exons 9 and 20
<i>RET</i> exon 16
<i>TP53</i> full coding sequence