

Director of Laboratories: Dr L Gaunt

Genomic Diagnostics Laboratory

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REQUEST FOR TUMOUR DNA TESTING

PLEASE COMPLETE SECTION 1-4 AND EITHER FORWARD TO THE PATHOLOGY LABORATORY HOLDING THE SAMPLE, OR IF YOU

mft.Pharmaco.GeneticsRequests@nhs.net. S				ECIMEN PLEAS THE PATHOLOGY			
1. PATIENT DETAILS (affix a printed label if available)			2. REFERRER DETAILS				
Forename(s):			Consultant:				
Surname:			Date of request:				
DoB: Sex: M/F			Address for reporting/invoicing:				
NHS No: Hosp No:			Tel: ¹ Email/fax 1:				
Address:			Email/fax 2: ¹ Reports will be sent to multiple email/faxes if required				
Postcode:			Report by: Email (account registration for secure email required - contact laboratory for further information) Fax (a 'Safe Haven' fax no is required)				
3. TEST REQUEST (please select options by placing a tick or cross next to each test required) 1. Please note that all genes are tested and reported and this test may identify pathogenic germline variant. 2.NGS panel testing also available for research or clinical trial support; 3. If a hypermethylation test in addition to another test is required please send a <u>further</u> 4 x 5uM sections; 4. See overleaf for sample requirements.							
Test/Gene	Required	Test/Gene	/Gene			Required	
EGFR mutation testing (NSCLC)		NGS somatic	somatic cancer panel testing ^{1,2} – please circle				
RAS/BRAF/PIK3CA mutation testing (CRC)			ny genes where analysis is a priority (AKT1; ALK; AR; RAF; CTNNB1; DDR2; EGFR; ERBB2; FGFR3; GNA11; GNAQ; IDH1;				
BRAF codon 600 mutation testing	O mutation tasting		DH2; KIT; KRAS; MAP2K1; MET; NRAS; PDGFRA; PIK3CA; PTEN;				
NRAS mutation testing (Melanoma)		RET; STK11; TP53)					
KIT mutation screen (Melanoma)		MSI testing	testing				
KIT/PDGFRA mutation screen (GIST)		MLH1 ³ promo	11 ³ promoter hypermethylation				
FFPE BRCA1/2 mutation screen - treatment focussed in ovarian cancer ¹		MGMT ³ prom	MT ³ promoter hypermethylation				
FFPE Somatic Colorectal Cancer NGS		ΔIK re-arrang	re-arrangement by FISH testing(NSCLC) ⁴				
SCreen ¹ (APC, BMPR1A, CDH1, CTNNB1, MSH6, SMAD4, MLH1, MSH2, MUTYH, POLD1, POLE, PTEN, STK11)			L re-arrangement FISH testing (NSCLC) ⁴				
4. PATHOLOGY AND CLINICAL DETAILS	5. PATHOLOGY						
II -		Date sections s	ate sections sent to Genetics lab:				
Pleas		Please circle th	ease circle the approximate tumour cell content of the sample				
carrie		•	ent for analysis (this information is important and is used to ensure the test rried out is appropriately sensitive)				
REPORT		<10%* 10-20%* 20-30%* >30%					
Pathologist:		*If sample is suitable for macrodissection, please include a H&E stained section with area(s) of tumour clearly circled and an estimate of neoplastic cell content within marked area%					
Hospital/Trust:							
Pathology block/sample no: For NSCLC and Melanoma only							
		Lung cancer	Information	Melanoma	Informa	ition	
CLINICAL URGENCY – EGFR referrals (see overleaf		Confirmed NSCLC	Yes/No	Stage of disease	1/2/3/4		
for TAT) Standard		TTF1 +ve	Yes/No				
Urgent* (treatment) *not to exceed 10% of requests		Sample type					

INFORMATION FOR PATHOLOGY LAB (ALL SAMPLES)

- We require a minimum of 4x5uM unstained slide mounted sections or rolls from a pathology block.
- We accept pathology blocks, but unstained slides are preferred.
- If insufficient tissue available please contact the laboratory for advice.
- If neoplastic cell content is <30% and sample suitable for macrodissection please also send a H&E stained slide with the area of tumour ringed and an estimate of neoplastic cell content within the marked area.
- Sections should be cut under conditions that prevent cross contamination from other specimens.
- Slides carrying sections should be sent in a clean slide carrier. Slides must be clearly marked with a patient or sample identifier that matches details on this form or accompanying Pathology report. In addition please clearly label the container with at least 2 patient identifiers.
- Samples should be despatched as soon as possible as the patient's treatment is dependent on the results of Genomic analysis.
- Please send samples to the address at the letterhead above.

ALK/ROS1 RE-ARRANGEMENT FISH TEST

- Prepare 4 unstained sections (4uM thick) floated on the surface of a purified water bath set at 40°C (+/-2°C).
- Mount on positively charged slides and allowed to air-dry
- Also include 1 H&E slide with regions enriched for neoplastic cells marked by a Pathologist along with an estimate of neoplastic cell
 content in the marked area(s)

EGFR Turn-around times (TAT): standard TAT is 14 calendar days, but URGENT cases can be reported within 7 calendar days.

