APARTS

Antwerp **PA**thology **R**esearch and **T**rial **S**ervice
INQUIRY & QUOTE REQUEST FORM
Email: APARTS@uza.be

PROJECT INFORMATION

Project short title / Acronym			
Title			
Sponsor/ Funding institution			
MEC approval	☐ obtained Ref: …	☐ pending	☐ N/A
Mandatory Biobank agreement *(link to Biobank)*	☐ YES Ref:	☐ NO	☐ N/A
Principle Investigator (PI)			
Institution & department			
Purchase Order number / Project (budget) ID			
Contact person			
E-mail contact			
Project type	☐ Academic	☐ Commercial	
Co-publication[$]	☐ YES	☐ NO	
Nature of Request	☐ Cost estimate for project proposal	☐ Approved project	
Proposed delivery date of APARTS service (MM/YYYY)			
Number of cases			
Diseases type			
Sample Type	Tissue: ☐ FFPE tissue ☐ FF tissue		
	Fluids: ☐ Urine ☐ Blood ☐ Plasma		
	Other: …		

$ A discount may apply for the analysis fee of molecular biologist/pathologist in case of co-publication.

UA/UZA pathology group member involved in the project?	☐ No ☐ Yes – Name: … ☐ Type of involvement (e.g. copromotor):

TYPE OF ANALYSIS

1. **Sample processing and staining (histology, immunohistochemistry and ISH)**
2. **Histopathologic evaluation**
3. **Digital Microscopy**
4. **Molecular analysis**

1 Sample processing and staining

☐ *The principle investigator has obtained the appropriate consent, medical ethical commission (MEC) permission and proper use of the biomaterials.*

Processing			
Fixation	☐ formalin	☐ ethanol	☐ other: …
Embedding	☐ paraffin blocks	☐ cell suspension in agar cell blocks	☐ other: …
	☐ other: …		
Number of blocks			

Please provide an excel list with sample names. This name will be printed on the cassette.

Cutting					
Sample type	☐ paraffin blocks	☐ frozen tissue	☐ TMA blocks		
Tissue type (i.e. organ)					
Total no. of blocks					
Number of sections	No. of blocks				
	Section thickness (µM)				
Specification per block	No of sections/block				
Method	☐ RNAse-free cutting	☐ serial sections on glass	☐ sections in cups		
Planned analysis	☐ Histochem	☐ IHC or (F)ISH	☐ D/ RNA-isolation		
	☐ Other, i.e. …….				
Other remarks					

Histochemical stainings				
Staining	☐ HE	☐ PAP	☐ PAS…	☐ other: …
Number of slides				

Immunohistochemical stainings				
IHC staining on Omnis (Dako/Agilent) or BenchMark Ultra (Ventana/Roche) *Only for human FFPE samples*				
Protocol	☐ UZA PA*: see list IHC UZA pathology department ☐ optimisation/validation in consultation with researcher ☐ protocol (for Omnis/Benchmark) supplied by researcher			
Antibody	#	AB provided by researcher*	DAB	Alk Fos or Magenta
		☐	☐	
		☐	☐	
		☐	☐	
		☐	☐	
Control tissue	☐ each run	☐ each slide	☐ not required (e.g. internal control present)	
Other remarks				
IHC technical quality will be evaluated by pathology department				

* if protocol of UZA PA is used, then AB is provided by APARTS

In Situ Hybridisaition (ISH)			
Material	☐ FFPE tissue slides	☐ Cytospins	Other, i.e
(F)ISH	List of probes*: see list FISH UZA pathology department		
	Probe	#	Probe provided by researcher
			☐
			☐
			☐
Type of analysis	☐ AMPLIFICATION	☐ BREAK	☐ FUSION ☐ DELETION
Number of nuclei for evaluation	☐ 20	☐ 50	☐ Other:
Representative microscopic image needed	☐ YES ☐ NO		
CISH	☐ EBER	☐ Other:	

* if protocol of UZA PA is used, then probe is provided by APARTS

2 Histopathologic evaluation

Microscopic evaluation				
H&E	evaluate if representative tissue is present			
	% relevant cells		ROI selection and annotation	
	other:			
IHC	#	Scoring system		
		H-score: intensity & %	other scoring system:	descriptive
		☐		
		☐		
Evaluation by a specific pathologist requested?	No Yes – Name: …			
Other remarks				

3 Digital Microscopy (WSI, Ultra-fast scanner, Philips, 40x)

Slides need to be clean without excess mounting media on the (edges of the) cover glass, mounting medium has to be dry and cover glass should NOT stick out. No marking on the slide allowed.

Please provide an external hard drive for image storage (0.5-1.5 Gb/image at 40x, depending on tissue area).

Scanning	
Number of slides	
Image format	☐ Tiff ☐ ISyntax
Required magnification:	☐ 40x ☐ 20x ☐ 10x ☐ 5x
Back-up storage for 1 month by APARTS	☐ YES ☐ NO

4 Molecular analysis

NA extraction			
D/RNA isolation of FFPE sections	# of cases: ….	Macrodissection required? ☐ YES ☐ NO	
	# of sections /case: …..		
cfDNA isolation	Material: ☐ plasma ☐ urine ☐ CSF ☐ other:		
	# of cases:	ml/case:	Elution volume:
Measurement of concentration	☐ Nanodrop	☐ Qubit DNA BR	☐ Qubit DNA HS
	☐ Qubit RNA BR	☐ Qubit RNA HS	
Other remarks			

PCR			
Idylla	☐ BRAF V600	☐ NRAS+BRAF	☐ KRAS
	☐ NSCLC fusion	☐ MSI	
	☐ ctEGFR	☐ ctKRAS	
	☐ Other: ….		
Real-time PCR	☐ HPV Xpert (cyto)	☐ HPV sacace (cyto + FFPE)	
	☐ Other: ….		
Digital droplet PCR	☐ KRAS G12/13	☐ KRAS G12C	☐ BRAF V600
	☐ EGFR 5 hotspots	☐ EGFR T790M	☐ MYD88 L265P
	☐ Other: …		

Full range of available assays on Idylla platform and QX200 ddPCR platform: biocartis website en bio-rad website.

Next Generation Sequencing (NGS)
☐ Oncomine Focus Assay (OFA)– DNA panel (SNV and small indels, 23 genes)
☐ Oncomine Focus Assay (OFA)– RNA panel for fusions (22 genes) + METex14 skipping & EGFR VIII
☐ Oncomine Comprehensive Assay (OCA) – DNA panel (143 genes)
☐ Oncomine Comprehensive Assay (OCA) – RNA panel (22 fusions)
☐ BRCA1/2 with Oncomine Research Assay (SNV and small indels)

☐ Gynaecology targeted NGS panel (22 genes)
☐ Glioma targeted NGS panel including TP53, IDH1/2, 1p19q deletion and EGFR amplification
☐ Thyroid targeted NGS panel including POLE (15 genes)
☐ TMB with Oncomine Tumor Mutation Load assay
☐ CNA by sWGS
☐ Oncomine PAN-CANCER cell-free assay (52 genes)
☐ Other:

Detailed NGS panel information is available here: labogids UZA pathologie - NGS.

Methylation
☐ MGMT promoter hypermethylation by RT-PCR
☐ MLH1 promoter hypermethylation by RT-PCR
☐ Whole genome methylation by Infinium EPIC microarray
☐ Other: