


GYNECOLOGICAL TUMOURS
BREAST

- NGS DNA panel** [SEIN]: AKT1 - BRCA1 - BRCA2 - ERBB2 - ESR1 - PALB2 - PIK3CA - PTEN
- NGS liquid biopsy panel** ^[2] (see page 3)
- HER2 FISH** [MOHC5]
- HER2 serum** ^[2] [ERBB2]
- Prosigna™ PAM50** (Prognostic Gene Signature Assay) ^[2] [PAM50]
 - Tumor size: ≤ 2 cm > 2 cm
 - Lymph node involvement: NO
 - 1-3 lymph nodes involved

OVARY

- NGS DNA panel** [BRCAS]: BRCA1 - BRCA2 (N452)
- HRD Test** (Shallow genome. BRCA1/BRCA2 included) [HRD]*

ENDOMETRIUM

- MSI** ^[2] [MICSA]
- MLH1 methylation** ^[2] [MLH1]
- NGS DNA panel** [ENDON]: BRCA1 - BRCA2 - POLE - TP53
- NGS DNA panel + MSI status by NGS** [ENDOS]: TP53 - POLE - BRCA1 - BRCA2 + MSI


LUNG TUMOURS
FISH [MOHC4]:

- ALK ROS1 HER2
- MET NTRK1 NTRK2
- NTRK3 RET
- NGS DNA panel** [POUM1]: BRAF - EGFR - ERBB2 - KRAS - MET - PIK3CA
- NGS RNA panel** [RPOUM]: ALK - MET exon 14 - NRG1 - NTRK1/2/3 - RET - ROS1
- NGS liquid biopsy panel** ^[2] (see page 3)


DIGESTIVE TUMOURS
PAN DIGESTIVE

- FISH** [MOHC4]:
 - NTRK1 NTRK2 NTRK3
 - MSI** ^[2] [MICSA]
 - MLH1 methylation** ^[2] [MLH1]

STOMACH AND OESOGASTRIC JUNCTION

- HER2 FISH** [MOHC5]

GIST

- NGS DNA panel** [GIST]: BRAF - KIT - PDGFRA

COLO-RECTAL

- NGS DNA panel** [COLO1]: BRAF - KRAS - NRAS - POLE
- DNA panel + MSI status by NGS** [COLOS]: BRAF - KRAS - NRAS - POLE + MSI
- Ex vivo test to assess the sensitivity of tumour cells to chemotherapy prior to administration ONCOGRAMME® – Colorectal** [ONCGC] (fresh tissue only)
- HER2 FISH** [MOHC5]

PANCREAS

- NGS DNA panel** [PDAC]: ATM - BRCA1 - BRCA2 - KRAS - PALB2
- NGS RNA panel** [RPDAC]: NRG1 - NTRK1 - NTRK2 - NTRK3

CHOLANGIOCARCINOMA

- NGS DNA panel** [CHOLA]: BRAF - ERBB2 - IDH1 - KRAS - PIK3CA - TP53
- NGS RNA panel** [RCHOL]: FGFR2 - NTRK1 - NTRK2 - NTRK3
- FISH HER2** [MOHC5]
- MSI** ^[2] [MICSA]


MELANOMA

- NGS DNA panel** [MELA]: BRAF - CKIT - NRAS

If you wish to analyse genes in addition to those already included in the NGS panels, please indicate this below (by selecting them from the list of genes in the PAN ORGAN Panel):

[2]: Analyses outsourced to a reference centre

* Genomic instability score (GIS) using the SeqOne HRD Score solution. Cellularity >20% essential.


URO-NEPHROLOGICAL TUMOURS
PROSTATE

- NGS DNA panel** [PROS]: ATM - BRCA1 - BRCA2 - PTEN - PALB2 - TP53
- MSI** ^[2] [MICSA]
- MLH1 Methylation** ^[2] [MLH1]

VESSIE

- Non-invasive molecular test for bladder cancer monitoring Xpert Bladder Cancer Monitor** [URMOL] (5 x N408)


THYROID

- NGS DNA panel** [DTHYR]: BRAF - HRAS - KRAS - NRAS - RET - TERT promoter - TP53
- NGS RNA panel** [RTHY]: ALK - BRAF - NTRK1 - NTRK2 - NTRK3 - RET


CENTRAL NERVOUS SYSTEM TUMOURS
PAN CEREBRAL

- NGS DNA panel** [BRAIN]: BRAF - CDKN2A - EGFR - FGFR1 - HRAS - IDH1 - IDH2 - KRAS - MAP2K1 - NRAS - PIK3CA - TERT promoter - PTEN - RAF1 - RB1 - TP53
- NGS RNA panel** [RBRAI]: ALK - BRAF - EGFRvIII exon 2-7 deletion - NTRK1 - NTRK2 - NTRK3 - ROS1 - TERT

GLIOMA

- FISH** [MOHC4]:
- 1p/19q
 - EGFR
 - p16
- Méthylation MGMT** ^[2] [MGMT]

MEDULLOBLASTOMA

- FISH** [MOHC4]:
- CMYC
 - NMYC


NEUROBLASTOMA

- FISH** [MOHC4]:
- NMYC
 - 1p36


BONE AND SOFT TISSUE TUMOURS
FISH [MOHC4]:

- EWSR1
- MDM2
- DDIT3 (CHOP)
- SS18 (SYT)
- ALK
- FOXO1A (FKHR)

- NGS RNA panel** [RSARC]: ALK - ATF1 - BCOR - BRD3 - BRD4 - CCNB3 - EWSR1 - ERG - FLI1 - FOXO1 - NAB2 - NTRK1 - NTRK2 - NTRK3 - NUTM1 - PAX3/7 - SS18 - SSX1/2 - STAT6 - WT1


PAN ORGANE

- NGS DNA panel** [PAN]: AKT1 - ALK - AR - ATM - BARD1 - BRAF - BRCA1 - BRCA2 - BRIP1 - CDK12 - CDK4 - CDK6 - CDKN2A - CHEK1 - CHEK2 - CTN - NB1 - DDR2 - EGFR - ERBB2 - ESR1 - EZH2 - FANCA - FANCL - FBXW7 - FGFR1 - FGFR2 - FGFR3 - FOXL2 - GNA11 - GNAQ - GNAS - HRAS - IDH1 - IDH2 - JAK2 - KEAP1 - KIT - KRAS - MAP2K1 - MET - MLH1 - MRE11 - NBN - NRAS - NTRK1 - PALB2 - PDGFRA - PIK3CA - POLE - PPP2R2A - PTEN - RAD51B - RAD51C - RAD51D - RAD54L - RAF1 - RB1 - RET - ROS1 - SF3B1 - SMAD4 - STK11 - TERT - TP53

- NGS RNA panel** [RPAN]: AFAP1 - ALK - AR - ATF1 - ATP1B1 - BICC1 - BRAF - BCOR - BRD3 - BRD4 - CCNB3 - CCDC6 - CCDC88A - CD74 - CLTC - DNA - JB1 - EGFR - EML4 - ERG - ETV6 - EWSR1 - EZR - FGFR1 - FGFR2 - FGFR3 - FLI1 - FOXO1 - KIAA1549 - KIF5B - MET - MGA - NAB2 - NCOA4 - NPM1 - NRG1 - NSD3 - NTRK1 - NTRK2 - NTRK3 - NUTM1 - PAX3 - PAX7 - PPARGC1A - PPP1CB - PRKACA - PRKAR1A - QKI - RET - ROS1 - SDC4 - SLC34A2 - SND1 - SS18 - SSX1 - SSX2 - STAT6 - TACC1 - TACC3 - TERT - TMPRSS2 - TPM3 - TPR - TRIM24 - TRIM33 - TRIO - WT1


LIQUID BIOPSY

- NGS liquid biopsy panel** ^[2] [EGFRS]: SNV / Indels (ALK - AKT1 - BRAF - BRCA1 - BRCA2 - EGFR - ERBB2 - ESR1 - FGFR2 - FGFR3 - IDH1 - KIT - KRAS - MET - NRAS - PALB2 - PDGFRA - PIK3CA - RET - ROS1 - TP53), Amplifications / copy number gains (ALK - EGFR - ERBB2 - FGFR2 - FGFR3 - KIT - KRAS - MET - NRAS - PDGFRA - PIK3CA - RET - ROS1), Gene rearrangements (fusion genes) (ALK - CD74 - EML4 - EZR - FGFR2 - FGFR3 - KIF5B - RET - ROS1 - SLC34A2) and MSI status (assessment of microsatellite instability using 15 markers).

Tumours, please specify the localisation:

- Lung
- Breast (ESR1)
- GIST
- Colon
- Pancreas
- Ovarian
- Cholangiocarcinoma
- Thyroid
- Prostate
- Sarcoma
- Melanoma
- Other:

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