SERVICES PORTFOLIO

Versión actualizada Julio 2020

Pangæa ONCOLOGY

CONTACT US AT

PANGAEA ONCOLOGY
Laboratorio de Oncología
Hospital Universitari Dexeus
Consultas Externas
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C/Sabino de Arana 5-19,
08028 Barcelona

Samples and assays
+34 93 5460119
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+ 34 93 4097981
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+34 93 5460172

info@panoncology.com
www.panoncology.com

ANATOMIC PATHOLOGY

ANATOMICAL PATHOLOGY DIAGNOSIS

Anatomical pathology diagnosis (H&E and 4 IHC analysis)
Confirmation of anatomical pathology diagnosis (Previous AP report required)

MAIN PRONOSTIC AND PREDICTIVE INMUNOHISTOCHEMISTRY ASSAYS *

ALK (D5F3) FDA approved
PDL1 (22C3)
Mismatch Repair Deficiency (MMR)
MET (SP44)
IDH1
AXL

MAIN FISH ASSAYS*

Her2/neu amplification, FDA approved
ALK translocation, FDA approved
MET amplification
EGFR amplification
ROS1 translocation
RET translocation
NTRK1 translocation
BCL6 translocation
MYC translocation
BCL2 translocation
FGFR1 amplification
1p/19q loss

*** Ask for other IHC or FISH assays if required**

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SAMPLE SHIPMENT

All molecular assays on solid tumors require the shipment of paraffin blocs. Please contact us if the tissue bloc is not available.

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MOLECULAR TESTS IN TISSUE SAMPLES

NUCLEIC ACID EXTRACTION

Microdissection and DNA extraction from FFPE tissue
Microdissection and RNA extraction from FFPE tissue

COMBINED STUDIES

COMBINED study with PDL1
NGS DNA Pangaea Extended Solid tumor panel
N-COUNTER RNA Pangaea solid tumor panel
PDL1 IHC

COMBINED study without PDL1
NGS DNA Pangaea Extended solid tumor panel
N-COUNTER RNA Pangaea solid tumor panel

COLON study
KRAS complete sequencing (exons 2, 3 and 4)
NRAS complete sequencing (exons 2, 3 and 4)
BRAF complete sequencing (exons 11 and 15)
Microsatellite Instability

GIST study
c-KIT complete sequencing (exons 8, 9, 11, 13, 14 and 17)
PDGFR complete sequencing (exons 12 and 18)

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MULTIGENIC MOLECULAR PANELS

NGS DNA Pangaea solid tumor panel (20 genes)

Mutations: EGFR, BRAF, MET, ERBB2, ALK, ROS1, PIK3CA, KRAS, NRAS, KIT, PDGFRA, TP53, IDH1, IDH2, ERBB4, STK11.
CNVs: EGFR, ERBB2, MET, FGFR1, RICTOR, BRAF, KRAS, CDK4, CDK6.

NGS DNA Pangaea Extended Solid Tumor Panel (30 genes)
Mutations: EGFR, BRAF, MET, ERBB2, ALK, ROS1, RET, PIK3CA, KRAS, NRAS, KIT, PDGFRA, TP53 STK11, KEAP1, ARID1A, FAT1, NFE2L2, SETD2, POLE, POLD1, IDH1, IDH2, ERBB4, FGFR1, FGFR2, FGFR3.
CNVs: EGFR, ERBB2, MET, FGFR1, FGFR2, FGFR3, BRAF, KRAS, MYC, CDK4, CDK6

NGS RNA fusion Solid Tumor Panel
Genes: ALK, ROS1, RET, FGFR1, FGFR2, FGFR3, NRG1, NTRK1,2, 3, EGFR, BRAF, splicing MET14

GeneRead™ QIAact BRCA Advanced DNA UMI Panel (somatic)

Mutations: BRCA1, BRCA2, TP53, PTEN.

N-COUNTER RNA Pangaea solid tumor panel

Rearrangement: ALK, ROS1, RET, NTRK1,2,3 and NRG1
Splicing variants: METΔ14 and EGFRvIII

N-COUNTER RNA Pan-Sarcoma panel

Rearrangement: 178 fusion probes/29 sarcoma types

PROSIGNA

Genetic prognostic signature for breast cancer

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INDIVIDUAL GENE MUTATIONS

EGFR complete sequencing (exons 18, 19, 20, 21 and T790M)
EGFR hotspot mutations (exons 19, 21 and T790M)
EGFR one hotspot mutation
EGFR resistance mutation C797S
KRAS complete sequencing (exons 2, 3 and 4)
KRAS hotspot mutations (codons 12, 13 and 61)
NRAS complete sequencing (exons 2, 3 and 4)
BRAF complete sequencing (exons 11 and 15)
BRAF hotspot mutations (V600E and V600K)
PIK3CA complete sequencing (exons 10 and 21)
PIK3CA hotspot mutations (codons 542, 545 and 1047)
ALK resistance complete sequencing (exons 22, 23, 24 and 25)
ERBB2 (HER2)complete sequencing (exons 8, 17, 19, 20, 21)
ERBB4 (HER4) complete sequencing (exons 8, 17, 19, 20, 21)
TP53 complete sequencing (exons 4, 5, 6, 7, 8 and 9)
c-KIT complete sequencing (exons 8, 9, 11, 13, 14 and 17)
PDGFR complete sequencing (exons 12 and 18)
IDH1/2 complete sequencing (exon 4)

MGMT PROMOTER METHYLATION

MICROSATELLITE INSTABILITY

SPLICING VARIANTS AND REARRANGEMENTS

ALK-EML4 by RT-PCR (variants 1, 2 and 3)
ALK-EML4 by RT-PCR (one known variant)
MET splicing variants 7/8-14
EGFR vIII splicing variant
MET splicing variant 14

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MOLECULAR TESTS IN LIQUID BIOPSY

NUCLEIC ACID EXTRACTION

cfDNA extraction from liquid biopsies
cfRNA extraction from liquid biopsies
DNA extraction from white blood cells
RNA extraction from liquid biopsies-platelets

MULTIGENIC MOLECULAR PANELS

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CNVs: EGFR, ERBB2, MET, FGFR1, RICTOR, BRAF, KRAS, CDK4, CDK6.

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CNVs: EGFR, ERBB2, MET, FGFR1, FGFR2, FGFR3, BRAF, KRAS, MYC, CDK4, CDK6

GeneRead™ QIAact BRCA Advanced DNA UMI Panel (somatic, cfDNA)

Mutations: BRCA1, BRCA2, TP53, PTEN.

GeneRead™ QIAact BRCA Advanced DNA UMI Panel (germline)

Mutations: BRCA1, BRCA2, TP53, PTEN.

Sample at diagnosis
Confirmation of familiar mutation

SAMPLE SHIPMENT

Three EDTA tubes of blood and one of serum are routinely required for most liquid biopsy assays. Please contact us for assays in other types of liquid.

For the GuardantHealth 360 assay please contact us.

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c-KIT complete sequencing (exons 8, 9, 11, 13, 14, 17)
PDGFR complete sequencing (exons 12 y 18)
IDH1/2 complete sequencing (exon 4)

SPLICING VARIANTS AND REARRANGEMENTS

ALK-EML4 by RT-PCR (variants 1, 2 and 3)
ALK-EML4 by RT-PCR (one known variant)
MET splicing variants 7/8-14
MET splicing variant 14
EGFR vIII splicing variant

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EXTERNALIZED SERVICES

IN TISSUE SAMPLES

Foundation ONE CDx

Foundation ONE HEME

Onco DEEP
Onco DEEP CUP (Ca. Unknown Primary) (OncoDNA)
313 gens in solid tumor

Onco STRAT&GO
Onco STRAT&GO CUP (Ca. Unknown Primary) (OncoDNA)
313 gens in solid tumor and 40 gens in liquid biopsy

IN LIQUID BIOPSY

Foundation One Liquid

GUARDANT HEALTH 360

OncoTRACE (OncoDNA) : 40 gens

Monitoring sample
Three monitoring samples

Ovarian and Breast Cancer Panels (Bemygene)
BRCA1, BRCA2, CDH1, PTEN, STK11, XRCC2, TP53, MLH1, MSH2, MSH6, PMS2, EMCM*, MUTHY, ATM, BLM, CHEK2, NBN, BARD1, BRIP1, FAM175A, MEN1, MRE11A, PALB2, RAD50, RAD51C, RAD51D.

Extended Hereditary Cancer Panel (qGenomics)
APC, ATM, BARD1, BMPR1A, BRCA1, BRCA2, BRIP1, CDH1, CDK4, CDKN2A, CHEK2, EPCAM, MLH1, MSH2, MSH6, MRE11A, MUTYH, NBN, RAD50, PMS2, POLD1, POLE, NF1, PALB2, PTEN, RAD50, RAD51C, RAD51D, SMAD4, STK11, TP53

Sample at diagnosis
Confirmation of familiar mutation

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