Molecular Oncology Testing Menu

ACUTE MYELOID LEUKEMIA
NPM1 Mutation
FLT3 Mutation
CEPBA Mutation
IDH1 & IDH2 Mutations
KIT D816V Mutation
Kit Mutation for AML (Exons 8, 17)
PML/RARA t(15;17) Translocation (PCR) Qualitative
MYELOPROLIFERATIVE NEOPLASMS
JAK2 V617F Mutation
JAK2 Exon 12 Mutation
CALR Mutation
MPL Mutation
KIT D816V Mutation
BCR/ABL1 Analysis, Quantitative
BCR/ABL1 Kinase Domain Mutation
LYMPHOMA
B Cell Clonality (IgH & IgK)
T Cell Clonality (TCRB & TRCG)
IgH/BCL2 t(14;18) Translocation (PCR)
MYD88 (L265P) Mutation
BRAF V600E/V600K Mutations

COLORECTAL AND ENDOMETRIAL CANCER
Comprehensive CRC Mutation Panel (NGS)
KRAS Mutation
NRAS Mutation
Micro Satellite Instability Analysis
BRAF V600E/V600K Mutations
MLH Promoter Methylation
Germaine MLH1 Promoter Methylation
UGT1A1 Promoter Genotyping
GASTROINTESTINAL STROMAL TUMOR
KIT Mutation (Exons 9, 11, 13, 17)
PDGFRA Mutation for GIST
GLIOMA
IDH1 & IDH2 Mutations
BRAF V600E/V600K Mutations
MGMT Promoter Methylation
LUNG CANCER
Comprehensive NSCLC Mutation Panel (NGS)
EGFR Mutation by Fragment Analysis
BRAF V600E/V600K Mutations
KRAS Mutation

MELANOMA
Comprehensive Melanoma Mutation Panel (NGS)
BRAF V600E/V600K Mutations
KIT Mutation (Exons 11, 13, 17)
NRAS Mutation
SARCOMA
SYT/SSX Translocation (PCR)
PAX/FOXO1 Translocation (PCR)
EWSR1/WTI Translocation (PCR)
EWSR1/ATF1 Translocation (PCR)
EWSR1/FLI1 & EWSR1/ERG Translocations (PCR)

NEXT-GENERATION SEQUENCING PANELS DETAILS
Comprehensive CRC Mutation Panel (NGS): KRAS exons 2-4; NRAS exons 2-4; BRAF exons 11 and 15; PIK3CA exons 2, 5, 7, 8, 10, 14, 19 and 21; and AKT1 exons 3 and 6.
Comprehensive NSCLC Mutation Panel (NGS): EGFR exons 3, 7, 15 and 18-21; KRAS exons 2-4; NRAS exons 2-4, BRAF exons 11 and 15; PIK3CA exons 2, 5, 7, 8, 10, 14, 19 and 21; AKT1 exons 3 and 6; and ERBB2 exons 22-24.
Comprehensive Melanoma Mutation Panel (NGS): BRAF exons 11 and 15; NRAS exons 2-4; KIT exons 2, 9-15, 17 and 18; CTNNB1 exon 3, and GNAQ exon 5; and GNA11 exon 5.

Molecular Genetics Testing Menu

BREAST & OVARIAN CANCER
BRCA1 and BRCA2 Gene Sequencing
BRCA1 and BRCA2 Targeted Sequencing, Familial
BRCA1 and BRCA2 Deletion/Duplication
BRCA Ashkenazi Jewish Founder Mutations
PTEN Gene Sequencing
PTEN Deletion/Duplication
TP53 Gene Sequencing
TP53 Deletion/Duplication

LI-FRAUMENI SYNDROME
TP53 Gene Sequencing
TP53 Deletion/Duplication
CYSTIC FIBROSIS
Cystic Fibrosis Carrier Screening
Cystic Fibrosis Full Gene Sequencing
Cystic Fibrosis Deletion/Duplication
SPINAL MUSCULAR ATROPHY
SNM1 and SNM2 Deletion/Copy Number Analysis

FRAGILE X SYNDROME
Fragile X Syndrome (FMR1) Mutation Detection
AUTISM SPECTRUM DISORDERS
Chromosomal Microarray Analysis
MISCELLANEOUS
Apolipoprotein E Genotyping
Factor V Leiden Mutation
Hereditary Hemochromatosis Mutation
MTHFR C677T Mutation
Prothrombin 20210 Mutation

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