THE UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER

Genetics Laboratory Department of Pediatrics
Genetics Requisition For Hematology/Oncology

Patient Sticker Here

O'Donoghue Research Bldg
1122 NE 13 Street, Suite 1400
Oklahoma City, OK 73104
Phone: 405-271-3589
Fax: 405-271-7117
After hours phone: 405-496-9514
www.genetics.ouhsc.edu

REFERRING PHYSICIAN/FACILITY/CLINICAL INFO

Physician Name_____

NPI_____

Phone(____)_____ Fax (___)_____

Genetic Counselor _____ Phone(___)_____

Clinic/Hospital_____

Phone(____)_____ Fax (___)_____

Reason for Study_____

Date Specimen Collected_____ **WBC**_____

PATIENT AND BILLING INFORMATION

Patient Name (last,first,m.)_____

Parent Name (if patient is a minor)_____

DOB_____ SSN_____ MRN_____

Sex: □ Male □ Female □ Ambiguous □ Unknown □ Inpatient □ Outpatient

Ethnicity of patient (check all that apply)
□ African-American □ Asian □Caucasian/NW European □ E. Indian
□ Hispanic □ Jewish-Ashkenazi □ Jewish-Sephardic □ Native American
□ Native Hawaiian/Other Pacific Islander □ Other_____

Patient's Address_____

City_____ State_____ Zip Code_____

SPECIMEN TYPES for Chromosome and/or FISH Analysis (See Page 2 for Collection Requirements)

☐ **Bone Marrow** ☐ **Leukemic Blood/Peripheral Blood for neoplastic study** ☐ **Solid Tumor** ☐ **Unstained Slides (FISH testing only)**

Chromosome and/or FISH Analysis

□ **Karyotype** (routine chromosome analysis) □ **Karyotype and FISH** Select a FISH probe below □ **FISH only** Select a FISH probe below

Acute Myeloid Leukemia (AML) panel
□ ETO/AML1 t(8;21)(q22;q22) M2
□ PML/RARA t(15;17)(q22;q21.2) M3
□ CBFbeta inv(16); t(16;16) M4
□ cen8/c-MYC trisomy 8 M0-M7
□ MLL 11q23 rearrangement
□ AF9/MLL t(9;11)(p22;q23)
□ AF6/MLL t(6;11)(q27;q23)
□ MLL/ENL t(11;19)(q23;p13.3)
□ DEK/CAN t(6;9)(p23;q34)

B-cell Acute Lymphoblastic Leukemia (ALL) panel
□ TEL/AML1 t(12;21)(p13;q11.2)
□ BCR/ABLt(9;22)(q34;q11.2)
□ PBX1/TCF3 t(1;19)(q23;p13.2)
□ p16(CDKN2A)/CEP9 del(9p)
□ CEP4/CEP10
□ MLL 11q23 rearrangement
□ AF4/MLL t(4;11)(q21;q23)
□ MLL/ENL t(11;19)(q23;p13.3)

T-cell Acute Lymphoblastic Leukemia (T-ALL)
□ BCR/ABL t(9;22)(q34;q11.2)
□ MLL 11q23 rearrangement
□ TCR alpha/delta 14q11 rearrangement

Chronic Myelogenous Leukemia (CML)
□ BCR/ABL t(9;22)(q34;q11.2)

Chronic Lymphocytic Leukemia (CLL) panel
□ MYB/6cen -6/del(6q)
□ ATM/CEP11 -11/del(11q)
□ MDM2/CEP12 trisomy 12
□ D13S319/LAMP1 –13/del(13q)
□ TP53/CEP17 -17/del(17p)
□ CCND1/IGHG1 t(11;14)
□ IGHG1/BCL2 t(14;18)

Myelodysplastic syndrome (MDS) panel
□ EGR1/D5S721 -5/del(5q)
□ CEP7D7S486 -7/del(7q)
□ CEP8 trisomy 8
□ D13S319/LAMP1 -13/del(13q)
□ D20S108 -20/del(20q)
□ EVI1 inv(3)/t(3;3)

Lymphoma panel
□ c-MYC 8q24 rearrangement → Positive reflex to c-MYC/IGHG1 below
□ c-MYC/IGHG1 t(8;l4) ←
□ CCND1/IGHG1 t(11;14)
□ BCL2/IGHG1 t(14;18)
□ BCL6 3q27 rearrangement
□ MALT1 18q21 rearrangement → Positive reflex to MALT1/IGHG1 and API2
□ MALT1/IGHG1 t(14;18) ←
□ MALT1/API2 t(11;18) ←
□ ALK 2p23 rearrangement

Eosinophilia panel
□ FIPILI/PDGFRA 4q12 rearrangement
□ PDGFRB 5q33 rearrangement
□ FGFR1/CEP8 8p12 rearrangement
□ CBFB inv(16)/t(16;16)

UroVysion panel
□ CEP3/CEP7/CEP17
□ CDKN2A p16 9p21 deletion

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Chromosome and/or FISH Analysis

☐ **Karyotype** (routine chromosome analysis) ☐ **Karyotype and FISH** (Select a FISH probe below) ☐ **FISH only** (Select a FISH probe below)

Multiple Myeloma (MM) panel

☐ IGHG1 14q32 rearrangements → **Positive reflex to c-MAF and FGFR3**
☐ IGHG1/c-MAF t(14;16) ←
☐ IGHG1/FGFR3 t(4;14) ←
☐ CCND1/IGHG1 t(11;14)
☐ TP53/CEP17 -17/del(17p)
☐ RB1/LAMP1 -13/del(13q)
☐ CEP9/CEP15 trisomy 9,15
☐ CEP3/CEP7 trisomy 3,7
☐ 1q21 gain

Myeloproliferative Neoplasms panel

☐ BCR/ABL1 t(9;22)
☐ FIPILI/PDGFRA 4q12 rearrangement
☐ PDGFRB 5q33 rearrangement
☐ FGFR1 8p12 rearrangement

Other Malignancies

☐ n-MYC 2p24 amplification in neuroblastoma
☐ PDGFRB/TEL t(5;12)
☐ MDM2 12q15 differentiated liposarcoma
☐ MYB 6q23
☐ ETV6 12p13 rearrangement
☐ c-MYC 8q24 rearrangement
☐ TP53 17p13 deletion
☐ BCL2 18q21 rearrangement
☐ FIP1L1 4q12 rearrangements
☐ D13S25 13q14.3
☐ CCND1 11q13 rearrangement
☐ CSF1R 5q33-q34
☐ ALK 2p23 rearrangement
☐ ERBB2 (HER2/neu) amplification in breast cancer
☐ FUS 16p11.2 myxoid/round cell liposarcoma
☐ CHOP 12q13 myxoid/round cell liposarcoma
☐ SS18 18q11.2 synovial sarcoma
☐ ROS1 6q22 rearrangement
☐ EGFR 7p12 amplification
☐ FKHR 13q14 rhadomyosarcoma
☐ 1p/del(19q) oligodendrogliomas
☐ RB1 13q14 deletion
☐ TCR alpha/delta 14q11
☐ EWSR1 22q12 Ewing sarcoma

Specimen Requirements for Chromosome and/or FISH analysis

Bone Marrow
Place in heparinized syringe, large sodium heparin tube (dark green top) or transport medium.
Fresh sample keep at room temperature, do not freeze. No additional specimen is needed for FISH studies.

Leukemic Blood/Peripheral Blood for neoplastic study
3-5 cc in large sodium heparin tube (dark green top). Fresh sample keep at room temperature, do not freeze. No additional specimen is needed for FISH studies.

Solid Tumor 2-3 cc/1-2cm2 in transport media or sterile normal saline. Do not use formalin and do not use a fixative. Observe sterile technique. Keep cool, do not freeze.

Unstained Slides we request 2 slides for each FISH probe ordered. Please circle the area on the slide you would like analyzed.

To request Microarray or Sequencing Analysis for cancer please complete page 3!

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□ Native Hawaiian/Other Pacific Islander □ Other_____

Patient's Address_____

City_____ State_____ Zip Code_____

SPECIMEN TYPES for Sequencing and Microarray Analysis

☐ **Leukemic Blood/Peripheral Blood for neoplastic study** 3-5 cc blood in large EDTA tube with the purple top. Keep at room temperature.

Sequencing Assays and Microarray Testing

□ Sequencing Analysis (Please select a gene(s) from the list below.

Hereditary Multiple Osteochondromas (HMO)
□ EXT1 gene
□ EXT2 gene

Hereditary Leiomyomatosis
□ FH gene

Melanoma
□ CDKN2A gene

Hereditary Papillary Renal Carcinoma
□ MET gene

Pancreatic Cancer
□ PALB2 gene

Colon Cancer
□ TP53 gene

Polyposis
□ APC gene (familial adenomatous polyposis
□ MUTYH gene (associated polyposis)
□ SMAD4 gene (juvenile polyposis)
□ BMPR1A gene (juvenile polyposis)

Paragangliomas
□ SDHD gene
□ SDHB gene
□ SDHC gene
□ SDHA gene
□ SDHAF2 gene
□ MAX gene

HNPCC/Lynch syndrome
□ MSH2 gene
□ MLH1 gene
□ MSH6 gene
□ EPCAM gene

Hamartoma Tumor syndrome
□ PTEN gene

Hereditary breast and ovarian cancer
□ BRCA1 gene
□ BRCA2 gene

Multiple Endocrine Neoplasia
□ MEN1 gene
□ RET gene

Von Hippel Lindau syndrome
□ VHL gene pheochromocytomas

☐ Microarray analysis

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