Yale Cytogenetics Laboratory
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CANCER CYTOGENETICS REQUISITION

Patient Demographics or Place sticker here

Patient Name (Last, First)

MRN# **DOB** / / **Sex** M / F

Specimen Information

- ☐ **Bone Marrow** ☐ R ☐ L
- ☐ **Leukemic Blood** _____% Blasts
- ☐ **Lymph Node**
- ☐ **Other, specify:** _____

Blood/Marrow Samples MUST be in Sodium Heparin (NaHep, striped green tube)

Clinical Information

Diagnosis (Include ICD10 code)

- ☐ New Diagnosis
- ☐ Relapse
- ☐ Remission

S/P transplant: Y / N **Donor** autologous / M / F

Referring clinician

Test Requested

☐ Karyotype (G-band Chromosome Analysis)

☐ Genomic Microarray Analysis (arrayCGH)

☐ Fluorescence In Situ Hybridization (FISH) - specify probe or panel

ALL

☐ ***B cell/pre-B cell ALL panel***
- ☐ ABL1::BCR, t(9;22)
- ☐ KMT2A, t(11q23;v)
- ☐ ETV6::RUNX1, t(12;21)
- ☐ CEP4/10/17, hyperdiploidy
- ☐ TCF3::PBX1, t(1;19)
- ☐ CDKN2A, 9p-
- ☐ MYC, t(8q24;v)
- ☐ IGH, t(14q32;v)
- ☐ PAX5, t(9p13.2;v)

☐ ***ph-like ALL panel***
- ☐ ABL2, t(1q25;v)
- ☐ PDGFRB, t(5q33;v)
- ☐ JAK2, t(9p24;v)
- ☐ ABL1, t(9q34;v)
- ☐ CRLF2, t(Xp22.3/Yp11.32;v)

☐ ***T cell ALL panel***
- ☐ TCRA/D, t(14q11;v)
- ☐ TCRB, t(7q35;v)
- ☐ CDKN2A, 9p-
- ☐ TLX3, t(5q35;v)
- ☐ ABL1::BCR, t(9;22)
- ☐ KMT2A, t(11q23;v)

OTHER

- ☐ EWSR1 (Ewing's Sarcoma)
- ☐ PAX3 (Rhabdomyosarcoma)
- ☐ PAX7 (Rhabdomyosarcoma)
- ☐ NMYC (Neuroblastoma)
- ☐ XX/XY (Sex-mismatched BMT/SCT)

pediatric FISH

Panels in blue, other testing by request

Myeloid

☐ ***AML panel***
- ☐ ABL1::BCR, t(9;22)
- ☐ KMT2A, t(11q23;v)
- ☐ RUNX1::RUNX1T1, t(8;21)
- ☐ CBFB::MYH11, inv(16)
- ☐ NUP98, t(11p15;v)
- ☐ EGR1, 5q-/-5
- ☐ RELN/TES, 7q-/-7
- ☐ TP53, 17p-
- ☐ 20q-
- ☐ PML/RARA, t(15;17)
- ☐ GLIS2, inv(16)(cryptic) *
- ☐ MECOM, t(3q26.2;v)

☐ ***MDS panel***
- ☐ EGR1, 5q-/-5
- ☐ RELN/TES, 7q-/-7
- ☐ MYC/D20S108, +8/20q-
- ☐ TP53, 17p-

☐ ***MPN (CML/PV/ET/PMF/CNL/ CMML/MPN unclassifiable)***
- ☐ ABL1::BCR, t(9;22)

☐ ***Mastocytosis/Mast cell disease***
- ☐ FIPIL1/PDGFRA, t(4q12;v)

☐ ***Eosinophilia/MPN with eos.***
- ☐ FIPIL1/PDGFRA, t(4q12;v)
- ☐ PDGFRB, t(5q33;v)
- ☐ FGFR1, t(8p12;v)
- ☐ JAK2, t(9p24;v)
- ☐ ABL1, t(9q34;v)
- ☐ ETV6, t(12p13;v)
- ☐ FLT3, t(13q12;v)
- ☐ CBFB, inv(16)

Lymphoma

☐ ***B-cell, NOS***
- ☐ BCL6, t(3q27;v)
- ☐ MYC, t(8q24;v)
- ☐ IGH, t(14q32;v)

☐ ***Burkitt***
- ☐ MYC, t(8q24;v)

☐ ***DLBCL***
- ☐ BCL6, t(3q27;v)
- ☐ MYC, t(8q24;v)
- ☐ BCL2 t(18q21;v)

☐ ***Follicular***
- ☐ IGH::BCL2, t(14;18)

☐ ***Mantle Cell***
- ☐ CCND1::IGH, t(11;14)
- ☐ TP53, 17p-

☐ ***Marginal Zone***
- ☐ IGH, t(14q32;v)
- ☐ MALT, t(18q21;v)

☐ ***Splenic Marginal Zone***
- ☐ RELN/TES, 7q-/-7
- ☐ IGH, t(14q32;v)
- ☐ MALT, t(18q21;v)

☐ ***T-cell lymphoma, NOS***
- ☐ TCRA/D, t(14q11;v)

☐ ***ALCL***
- ☐ ALK, t(2p23;v)

☐ ***CTCL panel***
- ☐ MYC, 8q24
- ☐ RB1, 13q14.2
- ☐ ATM/TP53, 11q-/17p-
- ☐ CDKN2A, 9p-
- ☐ CTCL1 [ZEB1,STAT3,ARID1A]
- ☐ CTCL2 [DNMT3A,CARD11,FAS]

Lymphocytic Leukemia

☐ ***CLL panel***
- ☐ DLEU1/CEP12, 13q-/+12
- ☐ ATM/TP53, 11q-/17p-

☐ ***B-cell PLL panel***
- ☐ IGH, t(14q32;v)
- ☐ DLEU1, 13q-
- ☐ TP53, 17p-

☐ ***T-cell PLL panel***
- ☐ TCRA/D, t(14q11;v)
- ☐ TCL1, t(14q32;v)
- ☐ ATM/TP53, 11q-/17p-

MGUS/MM

☐ ***Myeloma panel***
- ☐ IGH, t(14q32;v)
- ☐ 15q/17p, Hyperdiploidy
- ☐ RB1, 13q-
- ☐ CKS1B/CDKN2C, 1p/1q
- ☐ CCND1::IGH, t(11;14)
- ☐ FGFR3::IGH, t(4;14)
- ☐ IGH::MAF, t(14;16)
- ☐ IGH::MAFB, t(14;20)
- ☐ CCND3::IGH, t(6;14)

Waldenstroms/LPL

☐ ***Myeloma panel*** (IGH, 15/17, 13q-, 1p/1q)

☐ ***B-cell lymphoma panel*** (BCL6, MYC, IGH)

☐ MYB, 6q-

SPECIFIC PROBES

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_____

_____

Consent for Testing *I hereby authorize Yale Cytogenetics Lab to perform the selected test(s) on this patient, as well as any additional FISH test(s) deemed clinically necessary. I also authorize the lab to preserve for scientific or teaching purposes or otherwise dispose of any residual sample material not needed for diagnosis.*