

**Hematopathology Testing Service
Bone Marrow/Blood/Body Fluid Specimens**

Clinical Flow Cytometry Laboratory
3477 Euler Way, Room 9032
Pittsburgh, PA 15213
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See Page 2 for Specimen Requirements and requests for Molecular and Cytogenetics Testing. Please include Patient Name and DOB at top of Page 2.

PATIENT INFORMATION (Please print or apply patient label):					
Last Name:		First:		MI:	SSN/MRN#
<input type="radio"/> Outpatient <input type="radio"/> Inpatient – Room#		Birthdate	Genetic Sex: <input type="radio"/> Male <input type="radio"/> Female		ICD 10 Code(s)
REFERRING PHYSICIAN (MUST BE COMPLETED)					
Ordering Provider:		Phone (include area code)		Fax (include area code)	
Institution Name		Copy To:			
Name of person filling out form:				Phone (include area code)	
Date/Time of Collection:			Collection Tech:		
Signature of Ordering Provider (REQUIRED):					
DIAGNOSIS INFORMATION / INDICATION FOR TESTING (Required)					
PB/ CLINICAL ABNORMALITIES:					
<input type="radio"/> Anemia <input type="radio"/> Pancytopenia		<input type="radio"/> Neutropenia <input type="radio"/> Thrombocytopenia		<input type="radio"/> Leukocytosis <input type="radio"/> Lymphocytosis	
				<input type="radio"/> Eosinophilia <input type="radio"/> Thrombocytosis	
				<input type="radio"/> Lymphadenopathy <input type="radio"/> Splenomegaly	
				<input type="radio"/> Blast <input type="radio"/> Other: _____	
ACUTE LEUKEMIA:		OTHER MYELOID NEOPLASMS		MATURE B-CELL NEOPLASMS:	
<input type="radio"/> AML <input type="radio"/> APL <input type="radio"/> B-ALL <input type="radio"/> T-ALL <input type="radio"/> Uncertain		<input type="radio"/> MDS <input type="radio"/> MPN <input type="radio"/> CML <input type="radio"/> PV / PMF / ET <input type="radio"/> MDS / MPN <input type="radio"/> CMML <input type="radio"/> Other:		<input type="radio"/> Burkitt <input type="radio"/> CLL <input type="radio"/> DLBCL <input type="radio"/> Follicular <input type="radio"/> Mantle Cell <input type="radio"/> Marginal Zone <input type="radio"/> Other:	
				MATURE T-CELL NEOPLASMS:	
				<input type="radio"/> AITL <input type="radio"/> T-LGL <input type="radio"/> T-PLL <input type="radio"/> MF/Sezary Syndrome <input type="radio"/> Other:	
				PLASMA CELL NEOPLASMS:	
				<input type="radio"/> Myeloma <input type="radio"/> Monoclonal Gammopathy (MGUS)	
				OTHER:	
				<input type="radio"/> Hodgkin Lymphoma <input type="radio"/> Mastocytosis <input type="radio"/> Neuroblastoma <input type="radio"/> Wilms Tumor <input type="radio"/> Other:	
DISEASE PHASE (if applicable): <input type="radio"/> Presentation <input type="radio"/> Post Therapy <input type="radio"/> Recurrence					
Additional Clinical Information:			ANTI-NEOPLASTIC THERAPIES:		Specify Type
			<input type="radio"/> Chemotherapy		Last Date
			<input type="radio"/> Ag Directed (MAB/CAR-T) RX		
Medications:			<input type="radio"/> Other		
			<input type="radio"/> Growth Factor		
			<input type="radio"/> Radiation		
SPECIMEN INFORMATION (Required)					
Type of Specimen:		<input type="radio"/> Peripheral Blood		<input type="radio"/> Bone Marrow	
		<input type="radio"/> Right Iliac Crest <input type="radio"/> Left Iliac Crest		<input type="radio"/> Fluid (Type/Site)	
PLEASE SEND A COPY OF THE MOST RECENT CBC & DIFFERENTIAL AND A PERIPHERAL SMEAR					
TESTING REQUESTED (Required)					
BONE MARROW INTERPRETATION: Includes peripheral blood interpretation, if available.					
<input type="radio"/> Bone Marrow Smears for Interpretation		<input type="radio"/> Bone Particle Prep for Interpretation (Yellow top/ACD tube)			
<input type="radio"/> Bone Marrow Biopsy for Interpretation		<input type="radio"/> Iron Stain		<input type="radio"/> Other: _____	
<i>Ancillary testing will be determined by pathologist unless otherwise indicated by checking this box <input type="checkbox"/></i>					
PERIPHERAL BLOOD INTERPRETATION: Without bone marrow - Please send 2 PB smears along with current CBC report.					
<input type="radio"/> Diagnostic evaluation of peripheral blood			<input type="radio"/> Sezary Cell Evaluation		
FLOW CYTOMETRY TESTING				MINIMUM RESIDUAL DISEASE	
<input type="radio"/> Leukemia Panel		<input type="radio"/> PNH		<input type="radio"/> T-Lymph Subset Panel	
<input type="radio"/> Lymphoma Panel		<input type="radio"/> ALPS Evaluation		<input type="radio"/> CD4+ Only Evaluation	
<input type="radio"/> R/O Myeloma		<input type="radio"/> Sezary Cell Evaluation		<input type="radio"/> Other (Specify):	
<input type="radio"/> R/O LGL		<input type="radio"/> CGD (NOBA) Evaluations		<input type="radio"/> Plasma Cell Myeloma: (pt. MUST be in CR/VGPR) → ATTESTATION SIGNATURE: (required below)	
				<input type="radio"/> B-ALL (Flow) COG# (if applicable): _____	
				<input type="radio"/> Other:	

Patient Last/First Name: _____ Patient Date Birth: ____/____/____

OLECULAR & GENOMIC PATHOLOGY (MGP)

Molecular Oncology Test(s) Requested * Check All That Apply *

Lymphoid Neoplasms- <i>NOT MRD/ Not Post Therapy</i>	Myeloid Neoplasms (Bone Marrow Aspirate preferred)- <i>NOT MRD</i>
<input type="checkbox"/> TP53 NGS (mutations and copy number alterations)	<input type="checkbox"/> Myeloid NGS Panel (54 genes, including FLT3, NPM1, TP53, JAK2, MPL, CALR, CEBPA) <i>if BMA, test will be held; reviewing Pathologist will order if appropriate.</i>
<input type="checkbox"/> B-Cell Clonality Analysis (IgH and IgK gene rearrangement testing, PCR)	<input type="checkbox"/> FLT3 Analysis includes internal tandem duplication with allelic ratio and 835/836 codon analysis, PCR
<input type="checkbox"/> T-Cell Clonality Analysis (Beta and Gamma chain gene rearrangement, PCR)	
Minimal Residual Disease	Single Gene Testing – <i>NOT MRD/ included on Myeloid NGS</i>
<input type="checkbox"/> t(9;22) BCR-ABL1 Quantitative RT-PCR Major (M) Breakpoint	<input type="checkbox"/> CALR (Calreticulin) Mutation Analysis exon 9, Sanger Sequencing
<input type="checkbox"/> t(9;22) BCR-ABL1 Quantitative RT-PCR Minor (m) Breakpoint	<input type="checkbox"/> JAK2 V617F Mutation Testing myeloproliferative disorders, PCR
<input type="checkbox"/> t(15;17) PML-RARA Translocation RT-PCR intron 3 breakpoint	<input type="checkbox"/> CEBPA Gene Sequencing for mutations, Sanger Sequencing <i>*Bone Marrow Aspirate preferred</i>
<input type="checkbox"/> t(15;17) PML-RARA Translocation RT-PCR intron/exon 6 breakpoint	<input type="checkbox"/> Comprehensive Hematopathology Molecular Analysis as per Pathologist: Based on BM evaluation – <i>BMA only</i>
<input type="checkbox"/> NPM1, Quantitative testing (Types A, B and D)	
<input type="checkbox"/> Other (please specify):	<input type="checkbox"/> DNA/RNA Storage

UPMC CYTOGENETICS LABORATORY

Disease Phase	Test Requested (MUST be completed)
<input type="checkbox"/> New Diagnosis:	<input type="checkbox"/> Comprehensive Hematopathology Cytogenetic Analysis as per Pathologist <i>(includes karyotype, FISH tests and/or panel, oncology microarray testing, diagnosis specific)</i>
	<input type="checkbox"/> Culture and Hold <i>(Relevant diagnostic testing will be ordered by the reviewing pathologist)</i>
	<input type="checkbox"/> Chromosome Analysis (Karyotype) with Confirmatory FISH Testing*
	<input type="checkbox"/> PML/RARA FISH (reflex to RARA breakapart if necessary; STAT for new diagnosis only)
	<input type="checkbox"/> BCR/ABL1 t(9;22) FISH
<input type="checkbox"/> Relapse	<input type="checkbox"/> Integrated B-ALL Package: B-ALL FISH panel**, Onco Array, Karyotype* <input type="checkbox"/> Onco Array
	<input type="checkbox"/> T-ALL Package: T-ALL FISH Panel**, Karyotype
	<input type="checkbox"/> Integrated MDS Package: Onco Array, Karyotype*
	<input type="checkbox"/> Integrated AML Package: Onco Array, Karyotype*, FISH** (CBFB; RUNX1T1/RUNX1; KMT2A) rearrangements
<input type="checkbox"/> Remission (Post Therapy)	<input type="checkbox"/> Integrated CLL Package: Onco Array (CD19+ or whole PB/BM), Karyotype*, complementary FISH testing**
	<input type="checkbox"/> MM Package (includes plasma cell separation): Karyotype, FISH (IGH, IGH/MYC); MM Microarray, Includes Reflex FISH for IGH partners (CCND1, FGFR3, CCND3, MAF, MAFB)**
	<input type="checkbox"/> Culture and Hold <input type="checkbox"/> Karyotype <input type="checkbox"/> MM Follow-up CD138+ FISH
<input type="checkbox"/> Follow-up FISH (specify): <i>Unless specified, ONLY follow-up FISH testing for previously detected abnormal clone(s) will be performed on remission specimens once an initial FISH testing has been performed.</i>	
<input type="checkbox"/> Post- Transplant	<input type="checkbox"/> XX/XY donor FISH test
<input type="checkbox"/> Other Test	<input type="checkbox"/> FISH as per Pathologist (specify):

Post-Bone Marrow Transplant: Days post transplant _____ **Genetic Sex of Donor:** Male Female

**Confirmatory FISH testing for clinically relevant regions will be performed on samples with abnormal karyotypes according to the laboratory best practice and diagnostic guidelines. Laboratory reserves the rights to determine a suitable methodology for testing including unstimulated and/or stimulated short and long-term cultures, FISH and/or microarray assay preferences, and FISH probe selection.*
****Visit our website for complete probe and panel listing as well as disease-specific testing approaches (www.pittgenetics.org)**

Specimen Requirements (Each laboratory requires an individual specimen)

Clinical Flow Cytometry Laboratory	Bone Marrow (2 ml Green top)	Ship at room temp by overnight delivery in a properly labeled shipping container for biohazard substances. If bone marrow, send one non-heparinized, unstained bone marrow slide if possible.
	Peripheral Blood (5 ml Purple top)	
Molecular & Genomics Pathology Laboratory	Bone Marrow (3 ml Purple top)	Blood should be refrigerated until shipment at 4°C. Ship at room temp by overnight delivery in a properly labeled shipping container for biohazard substances
	Peripheral Blood (3 ml Purple top)	
	<input type="checkbox"/> (MUST complete Molecular & Genomic Pathology Laboratory section above)	
UPMC Cytogenetics Lab (Classical, FISH, Microarray)	Bone Marrow (3 ml Green top)	Specimen should be drawn in a heparinized syringe and placed in a Green top (sodium heparin) tube. Ship at room temp. An additional 1 ml Purple top (EDTA) tube is needed for microarray orders.
	Peripheral Blood (1 ml min. Green top)	
	<input type="checkbox"/> (MUST complete UPMC Cytogenetic Laboratory section above)	