**HematoLogics, Inc.**

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**Fluorescent Activated Cell Sorting (FACS) Combined with FISH (FACS – FISH) Improves Specificity, Sensitivity and Diagnostic Confidence in AML Testing**

**FACS-FISH in AML Improves Diagnostic Confidence and Sensitivity**



**∆N:™** (Difference from Normal**)** Myeloid Flow Cytometry identifies a 0.5% MRD Post-treatment which the Leukemia Associated Immunophenotype (**LAIP)** method can miss.

Diagnostic immunophenotype shows AML with t(11;19)

MLL/KM2TA/11q23 BAP FISH

0R1G1F MLL rearrangement with 3’ deletion

**FACS**

**FISH**

 **Best for Your Patient - Best for You**

**FACS-FISH in AML Improves MRD Testing Specificity and Correlates ∆N:™ (**Difference from Normal**) Flow Cytometry to Molecular Findings**

* Diagnostic sample shows AML with t(8;11): core binding factor in AML {aka Inv(16)}
* Post treatment for MRD shows no evidence of AML with t(8;11) by **∆N:™** flow cytometry but positive for RUNX1/RUNX1T1
* CD34 cells were sorted by FACS
* **RUNX1/RUNX1T1 RQ-PCR positive on MAST cells, not CD34 cells**

 

**∆N:™Flow Cytometry**

**FISH**

**FACS**

RUNX1/RUNX1T1

2R2G

No rearrangement

RUNX1/RUNX1T1

aka AML/ETO

1R1G2F

t(8;21)