

SUPPLEMENTAL MATERIAL

Hatlen et al., <http://www.jem.org/cgi/content/full/jem.20150524/DC1>

Table S1. The *TET2* mutations in AML patients from studies by the Cancer Genome Atlas Research Network (2013) and Patel et al. (2012)

Patient database	Frequency of patients with a <i>TET2</i> mutation	<i>TET2</i> mutations	Effect	t(8;21) status
TCGA	2.00%	Q481	Nonsense	Negative
		R550	Nonsense	Negative
		315	Frameshift	Negative
ECOG	9.55%	270	Frameshift	Negative
		S327X	Missense	Negative
		P426L	Missense	Negative
		K433X	Missense	Negative
		E452A	Missense	Negative
		R544X	Missense	Negative
		R550X	Missense	Negative
		586	Frameshift	Negative
		Q622X	Missense	Negative
		F868L	Missense	Negative
		Q891X	Missense	Negative
		912	Frameshift	Negative
		Q916X	Missense	Negative
		921	Frameshift	Negative
		958	Frameshift	Negative
		966	Frameshift	Negative
		W1003X	Missense	Negative
		Q1021R	Missense	Negative
		1034	Frameshift	Negative
		Q1084P	Missense	Negative
		1114	Frameshift	Negative
		1118	Frameshift	Negative
		E1141K	Missense	Negative
		H1219Y	Missense	Negative
		N1260K	Missense	Negative
		R1261C	Missense	Negative
		G1283D	Missense	Negative
		W1292R	Missense	Negative
1299	Frameshift	Negative		
1322	Frameshift	Negative		
R1365H	Missense	Positive		
G1369V	Frameshift	Negative		
1395	Frameshift	Negative		
E1405X	Missense	Negative		
1439	Frameshift	Positive		
1448	Frameshift	Negative		
S1486X	Missense	Negative		
Q1524X	Missense	Negative		
R1572W	Missense	Negative		
H1817N	Missense	Negative		
E1851K	Missense	Positive		
I1873T	Missense	Negative		
1893	Frameshift	Negative		
R1896M	Missense	Negative		
S1898F	Missense	Negative		
Y1902X	Missense	Negative		
1960	Frameshift	Negative		
P1962L	Missense	Negative		

Table S2. **Statistics of *TET2* mutations in AML patients from the ECOG E1900 trial from the Patel et al. (2012) study**

Given gene	% Patients mutant for given gene	% Patients mutant for given gene and <i>TET2</i>	% Patients mutant for <i>TET2</i> that are mutant for given gene	% Patients mutant for given gene that are mutant for <i>TET2</i>	Tendency for mutations to co-occur	
					P-value	Adj. p-value
<i>FLT3</i>	36.93%	3.27%	34.21%	8.84%	0.17	1.00
<i>NPM1</i>	29.65%	3.02%	31.58%	10.17%	0.15	1.00
<i>DNMT3A</i>	25.63%	2.01%	21.05%	7.84%	0.18	1.00
<i>NRAS</i>	10.30%	1.76%	18.42%	17.07%	0.09	1.00
<i>RUNX1</i>	8.79%	1.51%	15.79%	17.14%	0.09	1.00
<i>CBF</i>	18.09%	1.26%	13.16%	6.94%	0.20	1.00
<i>ASXL1</i>	3.02%	1.01%	10.53%	33.33%	0.03	0.71
<i>CEBPa</i>	9.55%	1.01%	10.53%	10.53%	0.15	1.00
<i>WT1</i>	9.05%	0.75%	7.89%	8.33%	0.18	1.00
<i>AML1-ETO</i>	7.29%	0.75%	7.89%	10.34%	0.15	1.00
<i>PHF6</i>	3.27%	0.50%	5.26%	15.38%	0.10	1.00
Monosomy 7	1.01%	0.50%	5.26%	50.00%	0.01	0.27
<i>IDH2</i>	8.54%	0.25%	2.63%	2.94%	0.29	1.00
<i>KIT</i>	5.78%	0.25%	2.63%	4.35%	0.25	1.00
<i>TP53</i>	4.02%	0.25%	2.63%	6.25%	0.21	1.00
<i>PTEN</i>	1.76%	0.25%	2.63%	14.29%	0.11	1.00
<i>EVI1</i> ⁺	1.26%	0.25%	2.63%	20.00%	0.07	1.00
split <i>MLL</i>	5.53%	0.25%	2.63%	4.55%	0.25	1.00
Trisomy 8	3.77%	0.25%	2.63%	6.67%	0.20	1.00
<i>IDH1</i>	6.28%	0.00%	0.00%	0.00%	0.50	1.00
<i>KRAS</i>	2.76%	0.00%	0.00%	0.00%	0.50	1.00
5q deletion	1.51%	0.00%	0.00%	0.00%	0.50	1.00
<i>MLL-PTD</i>	4.52%	0.00%	0.00%	0.00%	0.50	1.00
t69	0.50%	0.00%	0.00%	0.00%	0.50	1.00

Table S3. **The *PTPN11* mutations in AML patients from the Cancer Genome Atlas Research Network (2013) study**

Patient database	Frequency of patients with a <i>PTPN11</i> mutation	<i>PTPN11</i> mutations	Effect	t(8;21) status
TCGA	13.33%	G60V	Missense	Negative
		D61Y	Missense	Negative
		D61V	Missense	Negative
		F71L	Missense	Negative
		T73I	Missense	Negative
		S189A	Missense	Negative
		Y197*	Nonsense	Negative
		L206L	Missense	Negative
		N308D	Missense	Negative
		S502P	Missense	Negative
		Q510L	Missense	Negative

REFERENCES

Cancer Genome Atlas Research Network. 2013. Genomic and epigenomic landscapes of adult de novo acute myeloid leukemia. *N. Engl. J. Med.* 368:2059–2074. <http://dx.doi.org/10.1056/NEJMoa1301689>

Patel, J.P., M. Gönen, M.E. Figueroa, H. Fernandez, Z. Sun, J. Racevskis, P. Van Vlierberghe, I. Dalgalev, S. Thomas, O. Aminova, et al. 2012. Prognostic relevance of integrated genetic profiling in acute myeloid leukemia. *N. Engl. J. Med.* 366:1079–1089. <http://dx.doi.org/10.1056/NEJMoa1112304>