

TCGA analysis by using online tool

1. Expression of Pten

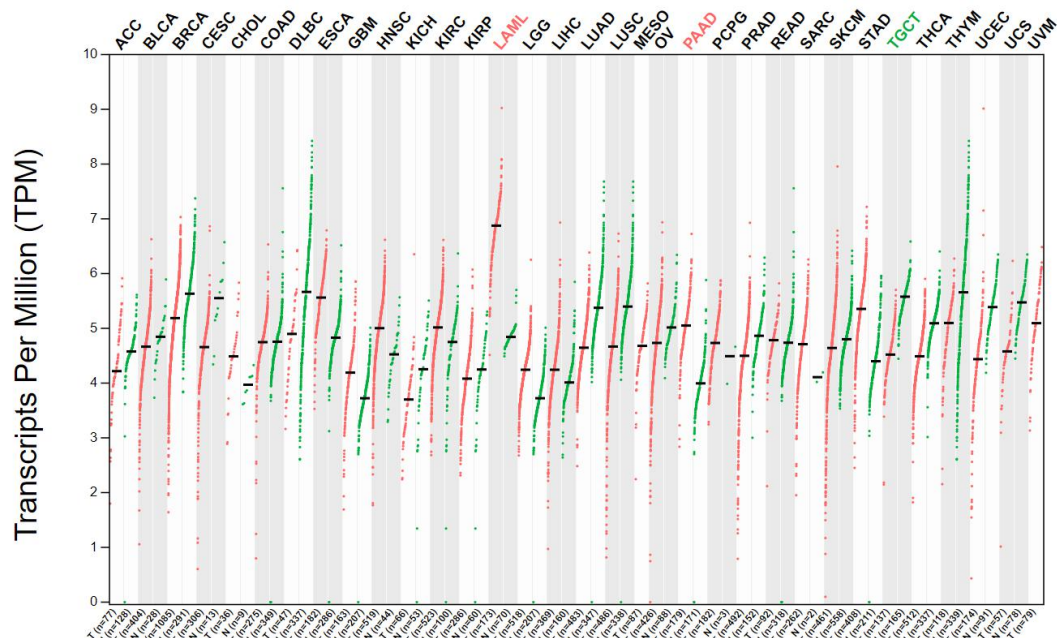


Fig.1. The gene expression profile across all tumor samples and paired normal tissues.(Dot plot)
Each dots represent expression of samples.

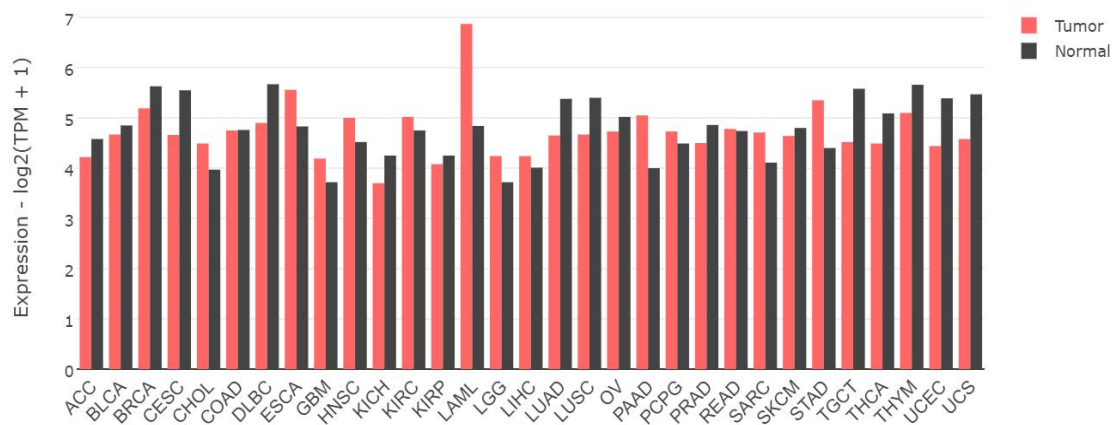


Fig.2. The gene expression profile across all tumor samples and paired normal tissues.(Dot plot)
Each dots represent expression of samples.

2. Differential Genes in Acute Myeloid Leukemia (LAML)



Fig.3.The Over-expressed Genes on Chromosomes in LAML

Gene Symbol	Gene ID	Median (Tumor)	Median (Normal)	Log2(Fold Change)	adjp
IGKC	ENSG00000211592.6	1679.713	2.010	9.125	6.45e-10
CD74	ENSG00000019582.14	1844.353	3.225	8.771	2.97e-16
HLA-DRA	ENSG00000204287.13	727.649	0.685	8.756	1.92e-11
MPO	ENSG00000005381.7	970.308	1.500	8.602	1.26e-7
RNASE2	ENSG00000169385.2	380.353	0.000	8.575	7.36e-19
IGHG1	ENSG00000211896.6	474.215	0.520	8.288	4.04e-7
IGLC2	ENSG00000211677.2	453.512	0.470	8.272	6.85e-9
HLA-B	ENSG00000234745.9	1025.206	2.575	8.165	3.67e-32
IGHA1	ENSG00000211895.4	437.214	0.650	8.053	1.32e-7
GPX1	ENSG00000233276.3	380.432	0.490	8.000	9.24e-35

Table 1. Top 10 Over-expressed Genes in LAML

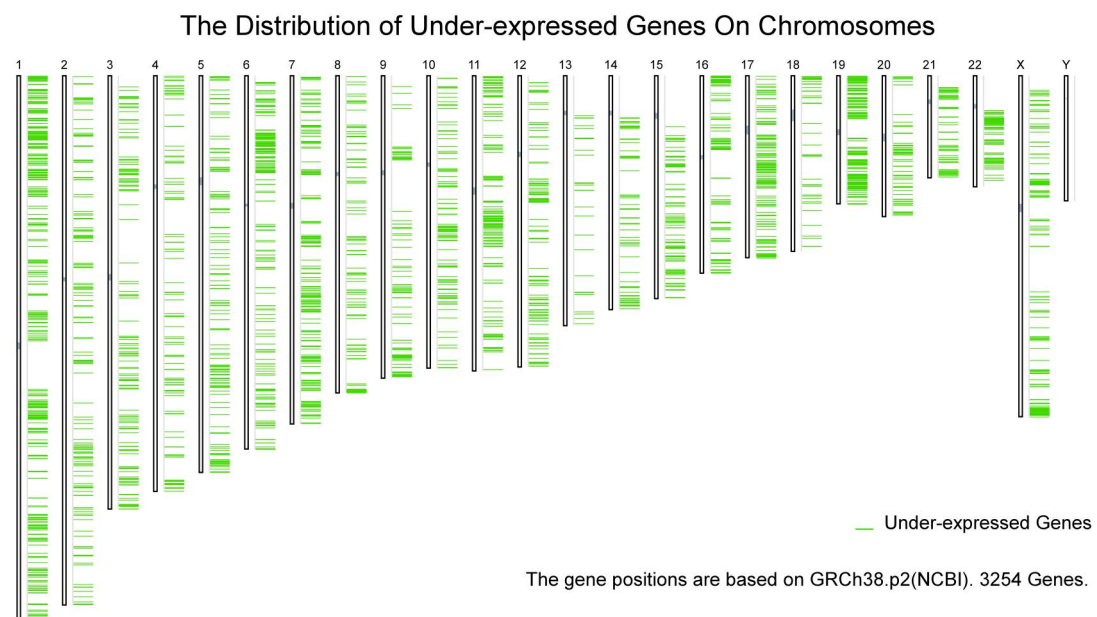


Fig.4.The Under-expressed Genes on Chromosomes in LAML

Gene Symbol	Gene ID	Median (Tumor)	Median (Normal)	Log2(Fold Change)	adjp
HBE1	ENSG00000213931.5	0.150	2689.644	-11.192	2.52e-55
HBG1	ENSG00000213934.6	1.370	3076.767	-10.343	8.43e-10
HBZ	ENSG00000130656.4	0.000	1050.928	-10.039	1.08e-67
AL162151.3	ENSG00000234648.1	0.000	822.487	-9.686	5.19e-27
PRAME	ENSG00000185686.17	0.570	1054.577	-9.393	5.87e-5
GAGE12B	ENSG00000236737.1	0.000	511.680	-9.002	1.15e-6
HBG2	ENSG00000196565.12	35.690	16669.231	-8.828	1.22e-5
NMU	ENSG00000109255.11	0.350	608.852	-8.819	2.97e-26
GAGE1	ENSG00000205777.17	0.000	442.105	-8.792	9.24e-154
RP11-301G19.1	ENSG00000227706.3	0.330	441.233	-8.377	2.74e-17

Table 2. Top 10 Under-expressed Genes in LAML

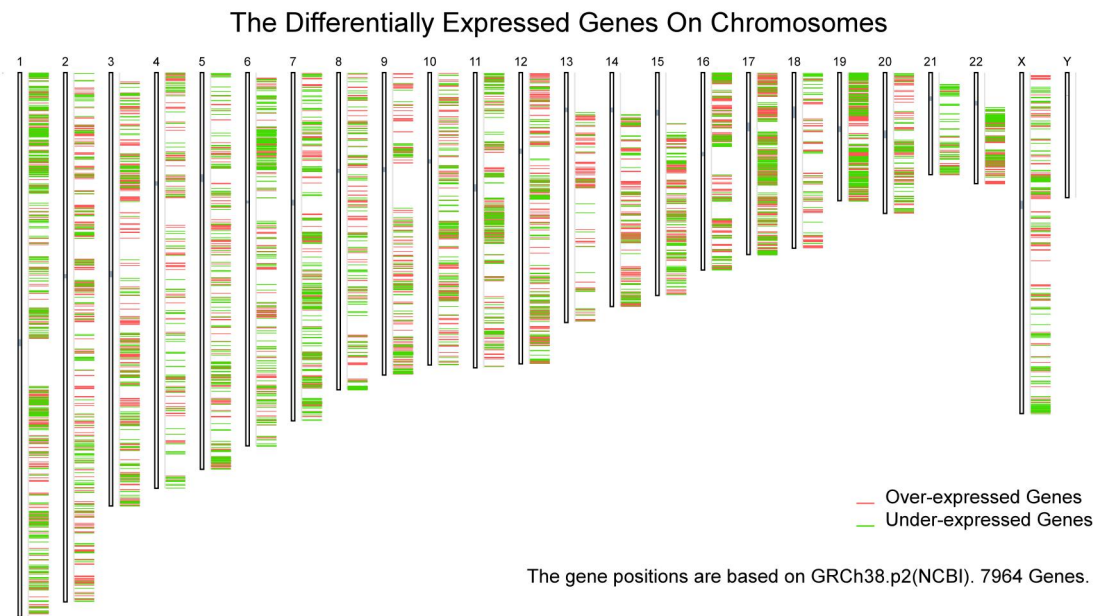


Fig.5. The Differentially expressed Genes on Chromosomes in LAML

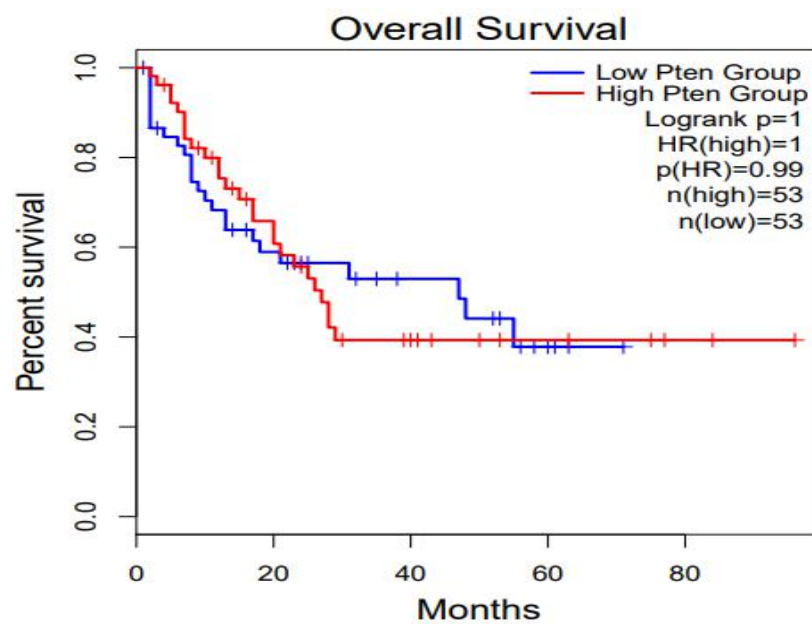


Fig.6. The Overall Survival in LAML

Gene Symbol	Gene ID	P-Value (Survival os)
MYH15	ENSG00000144821.9	5.07e-7
USP30-AS1	ENSG00000256262.1	3.29e-6
AFAP1L2	ENSG00000169129.14	4.79e-6
C6orf183	ENSG00000243587.6	4.85e-6
TNNT3	ENSG00000130595.16	5.37e-6
C10orf128	ENSG00000204161.13	5.92e-6
ROBO3	ENSG00000154134.14	7.51e-6
TCF15	ENSG00000125878.5	1.09e-5
ADAMTS7P4	ENSG00000218052.5	1.27e-5
CD52	ENSG00000169442.8	1.49e-5

Table 3. Top 10 Genes related to the Overall Survival in LAML