











Example									
Dataset	Total Sample	Class 0	Class 1	Dataset	Total Sample	Class 0	Class 1		
Leukernia Morphology (train)	38	27 ALL	11 AML	Lymphoma Morphology	77	19 FSC	58 DLCL		
Leukemia Morpholgy (test)	34	20 ALL	14 AML	Lymphoma Outcome	58	22 Low risk	36 High risk		
Leukemia Lineage (ALL)	23	15 B-Cell	8 T-Cell	Brain Morphology	41	14 Glioma	27 MD		
Lymphoma Outcome (AML)	15	8 Low risk	7 High risk	Brain Outcome	50	38 Low risk	12 High risk		

- 2. Morphologies: different leukemia types, ALL vs. AML
- 3. Lineage B-Cell vs. T-Cell, folicular vs. large B-cell lymphoma
- 4. Outcome: treatment outcome, elapse, or drug sensitivity

Result	ts: t	oar	† 1	1		
Dataset	Algorithm	Total Samples	Total error s	Class 1 errors	Class 0 errors	Number Genes
Leukemia Morphology (trest) AML vs ALL	SVM	35	0/35	0/21	0/14	40
	WV	35	2/35	1/21	1/14	50
	k-NN	35	3/35	1/21	2/14	10
Leukemia Lineage (ALL) B vs T	SVM	23	0/23	0/15	0/8	10
	WV	23	0/23	0/15	0/8	9
	k-NN	23	0/23	0/15	0/8	10
Lymphoma FS vs DLCL	SVM	77	4/77	2/32	2/35	200
	WV	77	6/77	1/32	5/35	30
	k-NN	77	3/77	1/32	2/35	250
Brain MD vs Glioma	SVM	41	1/41	1/27	0/14	100
ind to choma	WV	41	1/41	1/27	0/14	3
	k-NN	41	0/41	0/27	0/14	5

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Dataset	Algorithm	Total Samples	Total errors	Class 1 errors	Class 0 errors	Number Genes
Lymphoma LBC treatment outcome	SVM	58	13/58	3/32	10/26	100
	WV	58	15/58	5/32	10/26	12
	k-NN	58	15/58	8/32	7/26	15
Brain	SVM	50	7/50	6/12	1/38	50
MD treatment outcome	WV	50	13/50	6/12	7/38	6
	k-NN	50	10/50	6/12	4/38	5