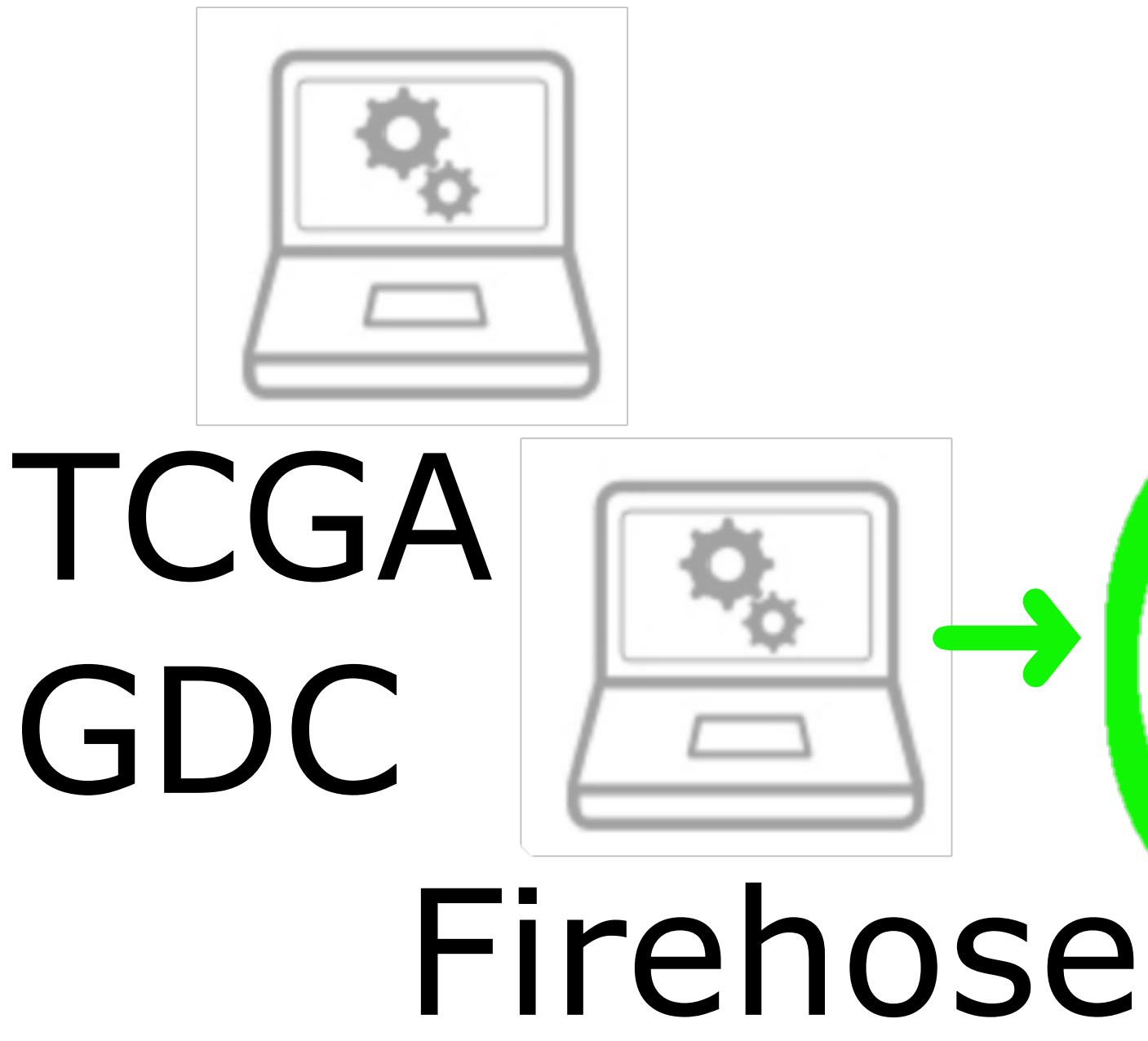


TCGA_HNSCC cohort

Survival Analyses



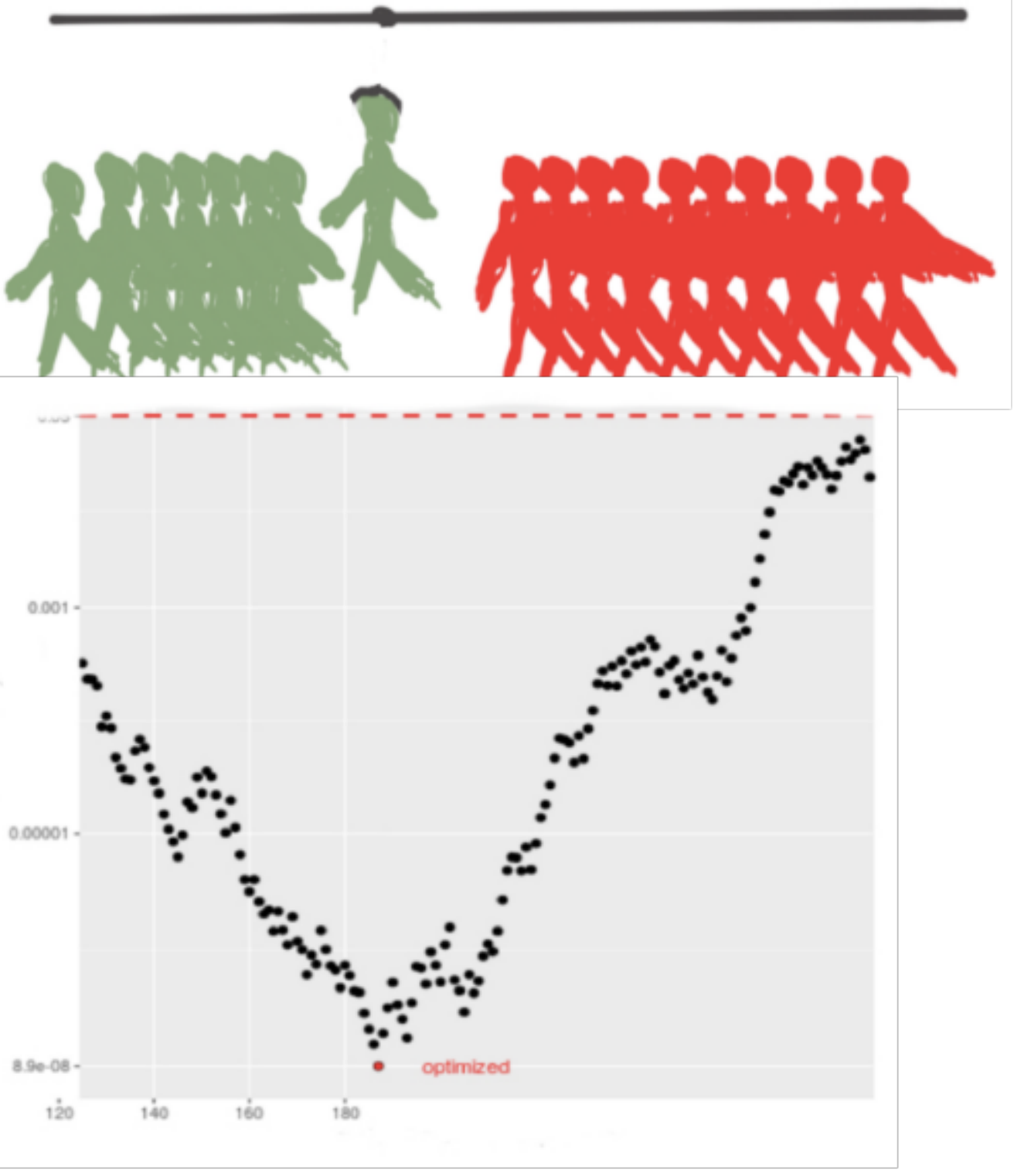
Clinical Data

Data cleaning/
preprocessing

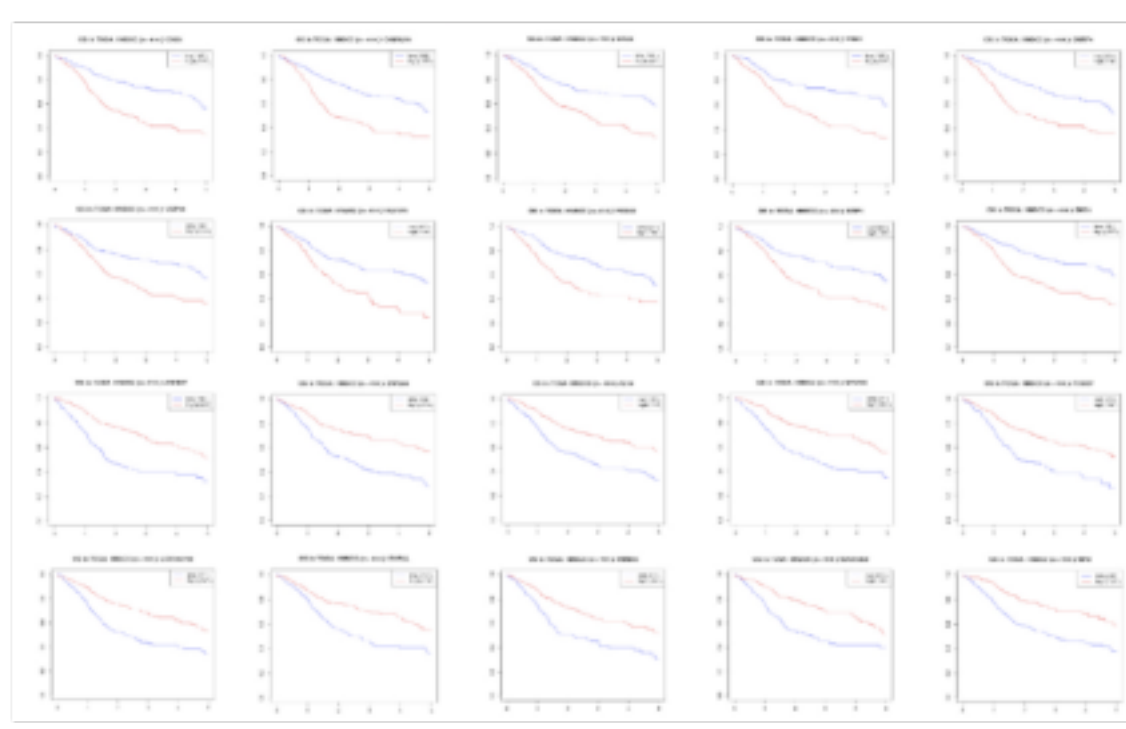
Gene expression values
(20500 genes)

Kaplan-Meier estimator

Cutoff engine



FDR correction

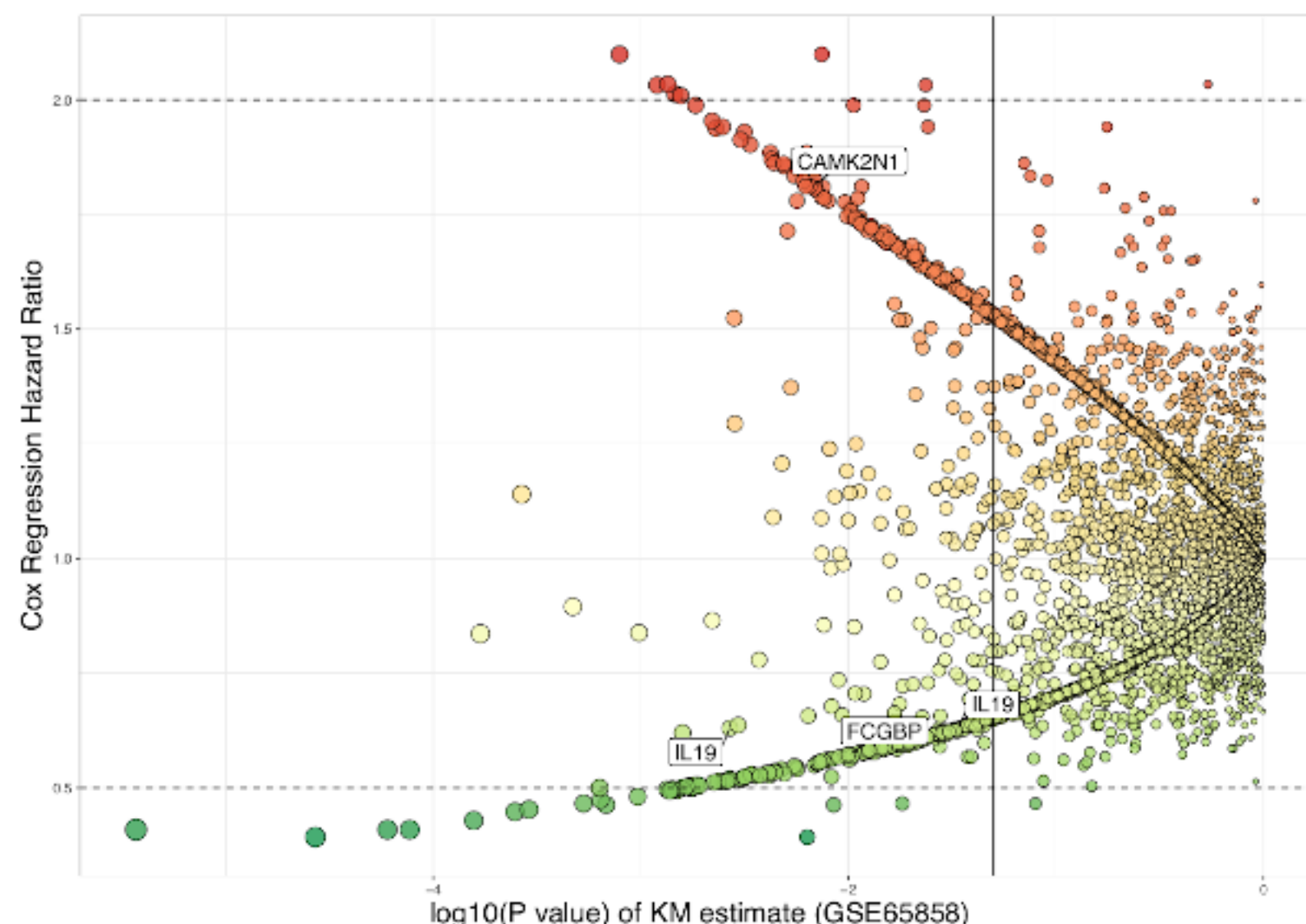


Cox modeling

Features	Univariate	ML Univariate	P-value	ML P-value
Gender	Female	Male	0.001	0.001
Age at diagnosis	≤ 65	> 65	0.001	0.001
Clinical T Status	T1/T2	T3/T4	0.001	0.001
Clinical N Status	N0	N1/N2	0.001	0.001
Clinical M Status	M0	M1	0.001	0.001
Surgical Marg n status	Positive	Negative	0.001	0.001
Tobacco Exposure	Low	High	0.001	0.001
RNA-Seq	Low	High	0.001	0.001

GSE65858

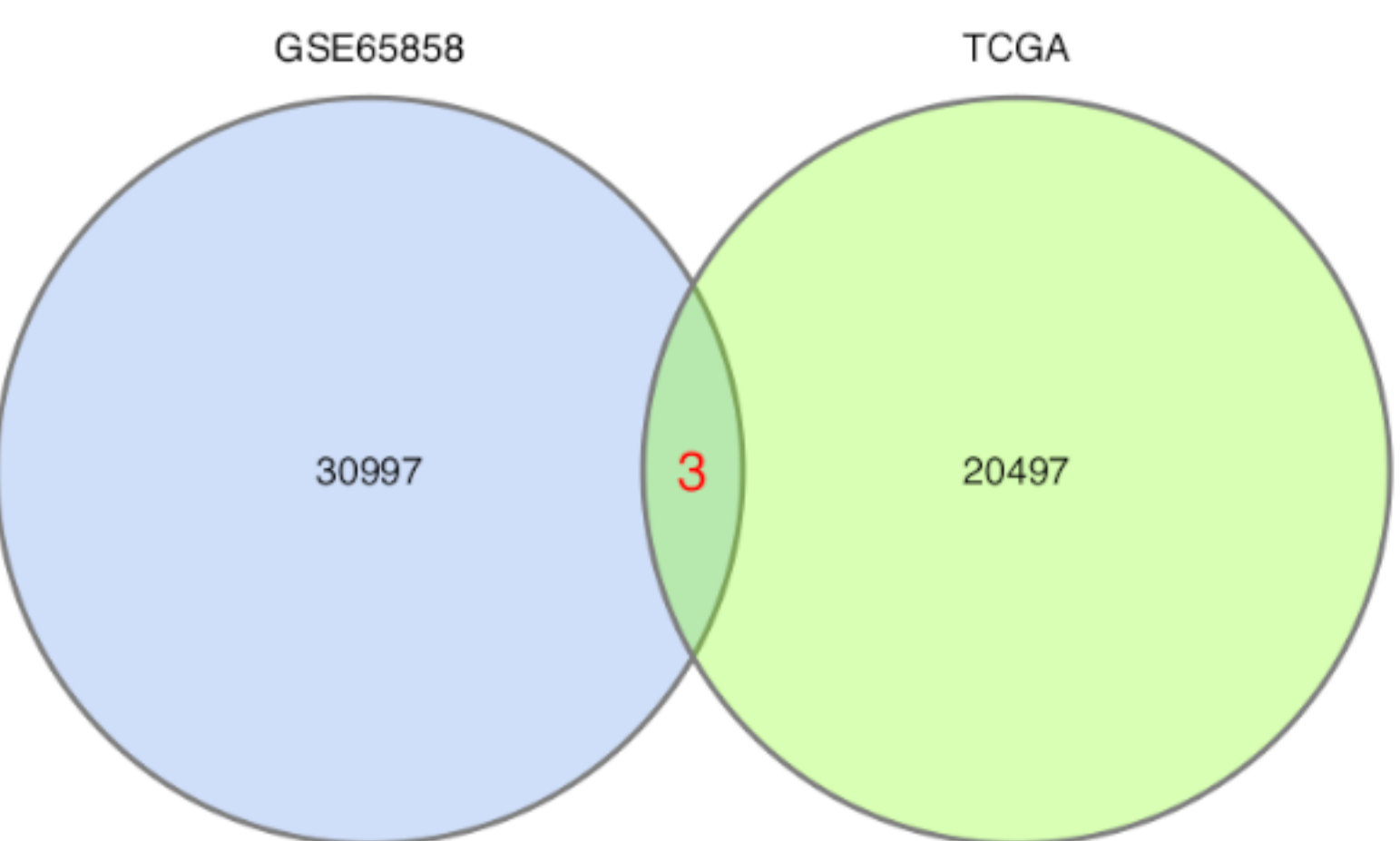
Candidate selection



Kaplan-Meier
Cox model

+

Hazard ratio/
Bonferroni
correction



Biormarker
Candidates

