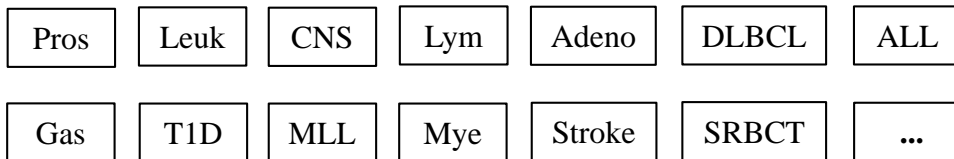


Data Input – 19 datasets



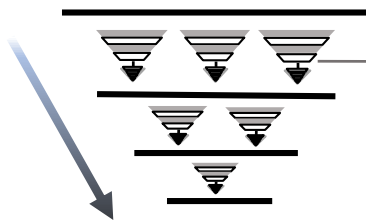
Stage 1. Search space reduction

Filter: t -test + MIC

Candidate gene sets

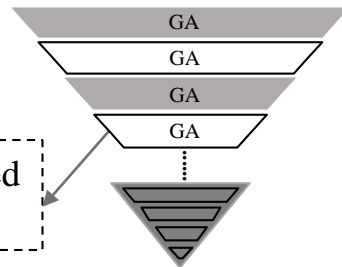
Stage 2. Precise wrapper search

Multilayer iterative
selection using GaRFE
(MGRFE)



Recursive feature elimination
with embedded GA (GA-RFE)

Embedded
GA



Optimal gene combinations

Stage 3. Multiple k-fold cross validation

Biological verification
of selected genes

GeneCards

PubMed

...

Result comparison with
other 20 studies

McTwo

PSO+KNN

...