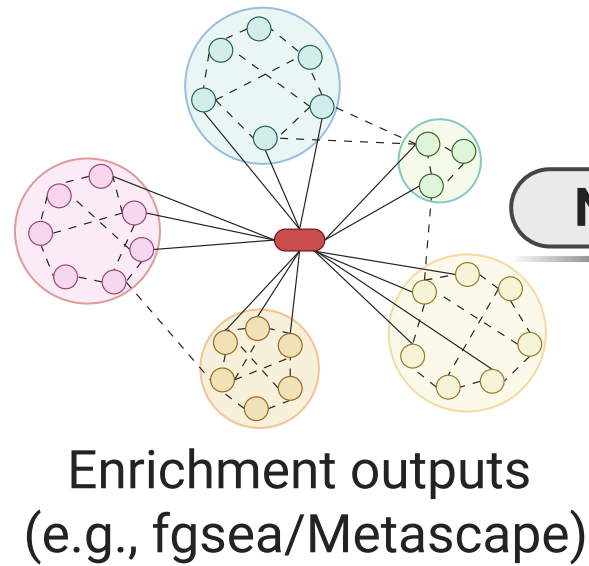


Input

Sample Card (study context)
condition
tissue
perturbation
comparison
(optional)



Normalize

EvidenceTable (term × gene)

term id
source
stat
q value
genes

Audit gates

Decision-grade report

PASS

- stable
- context-specific

ABSTAIN

- unstable
- context-nonspecific

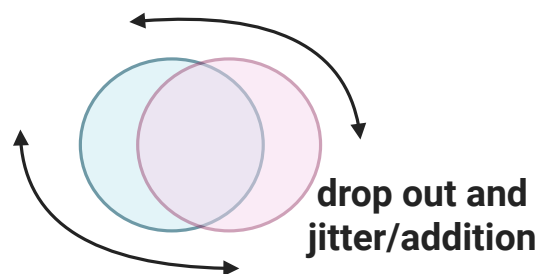
FAIL

- contradiction
- evidence drift

audit log

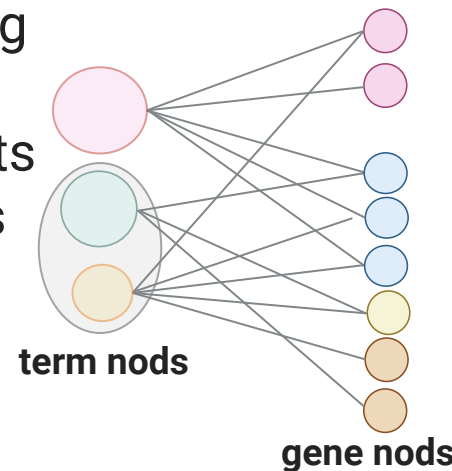
1. Evidence hygiene (distill)

- Canonicalize
- Mask
- Perturb
- Survival-like stability scores



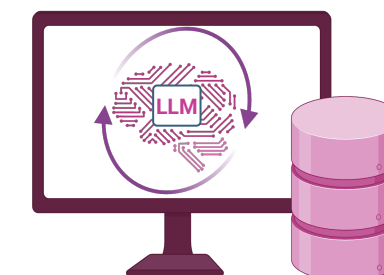
2. Evidence factorization (modules)

- Term–gene bipartite graph
- Hub filtering
- Connected components
- Module IDs



3. Claim proposal (deterministic / optional LLM)

- Representative term
- Typed JSON claim
- Context-conditioned



LLM context
review

LLM claim
proposal