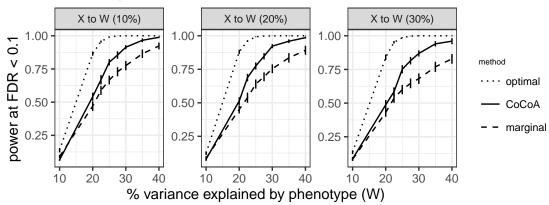
# Simulation results for the causal discovery of DEGs

### Yongjin Park

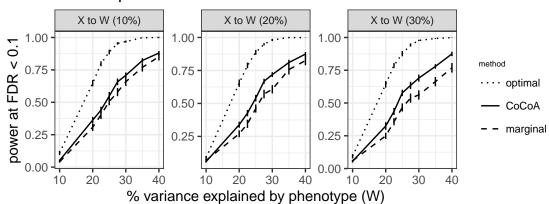
#### 50 cells per individual X to W (10%) X to W (20%) X to W (30%) F1 score in PR curve 1.0 0.8 0.8 0.8 · · · · optimal 0.6 CoCoA 0.6 0.6 marginal 0.4 0.4 10 20 20 30 40 30 40 % variance explained by phenotype (W) 10 cells per individual X to W (10%) X to W (20%) X to W (30%) F1 score in PR curve 1.00 1.00 1.0 method 0.8 0.75 0.75 · · · · optimal 0.6 CoCoA 0.50 0.50 marginal 0.4 0.25 0.25 20 30 30 30 40 % variance explained by phenotype (W)

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## 50 cells per individual



### 10 cells per individual



PDF