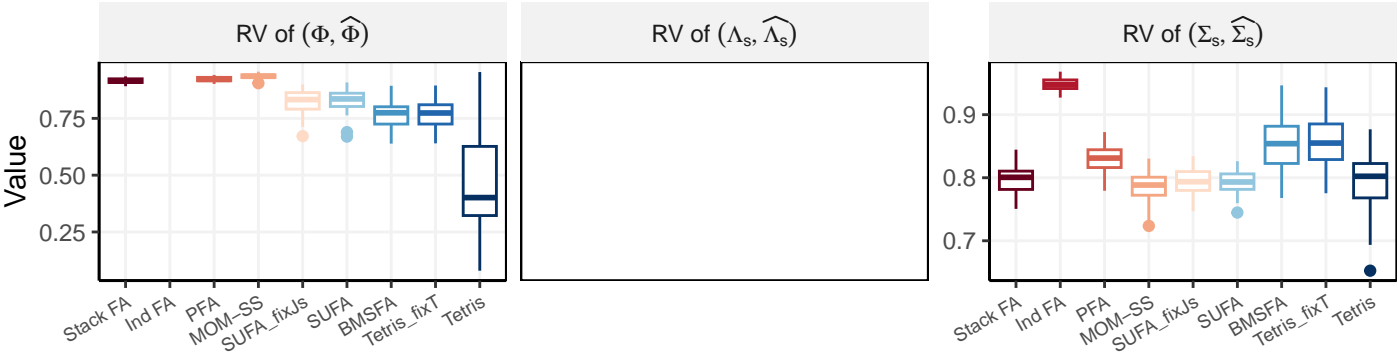
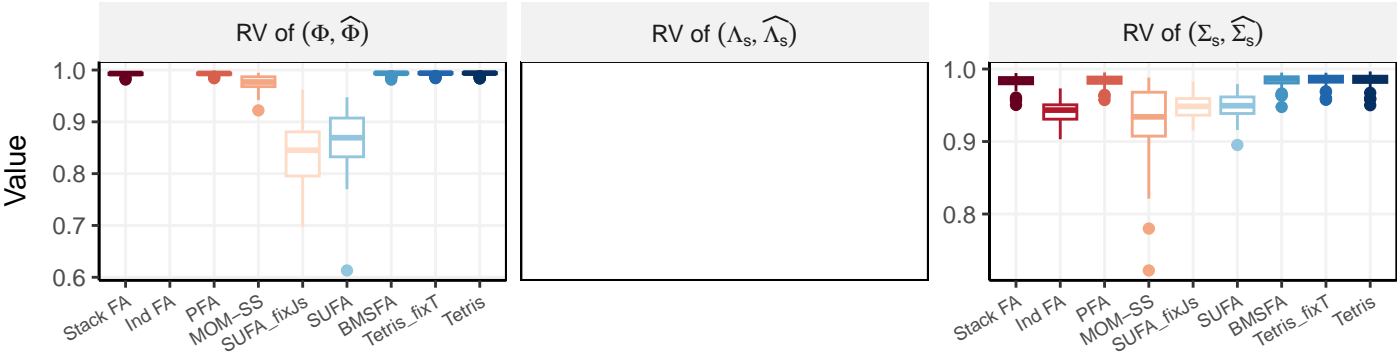


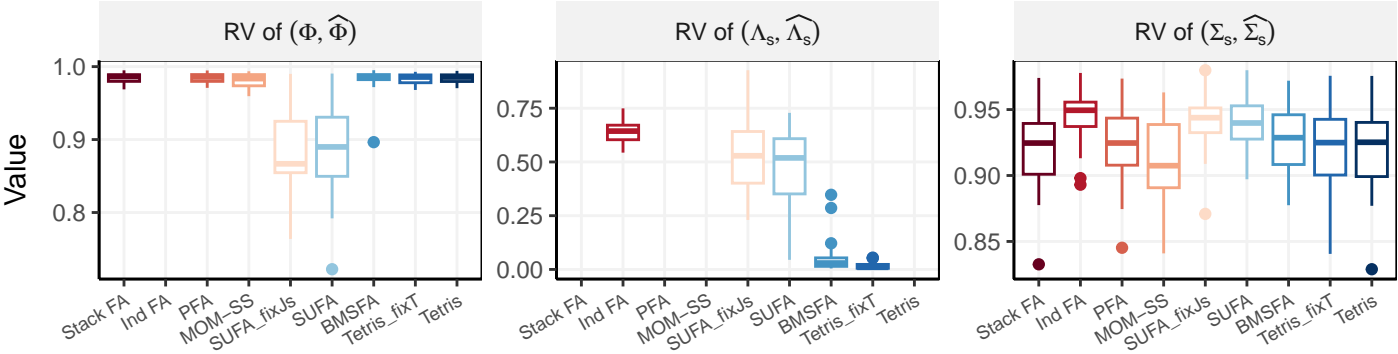
Scenario 1
Based on PFA
S = 4
P = 40
N_s = (100, 100, 100, 100)
K = 4 and Perturbations



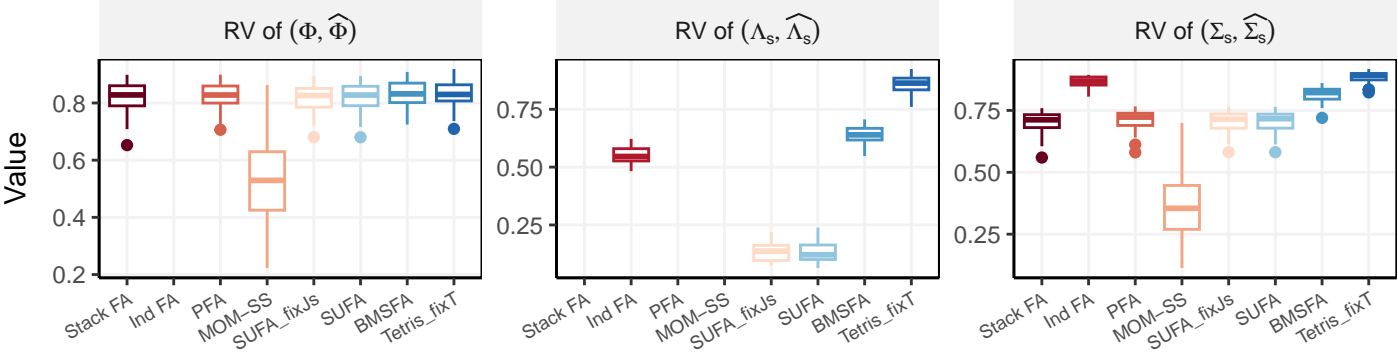
Scenario 2
Based on MOM-SS
S = 4
P = 40
N_s = (100, 100, 100, 100)
K = 4, Known covariates Q=2
plus study-specific intercepts



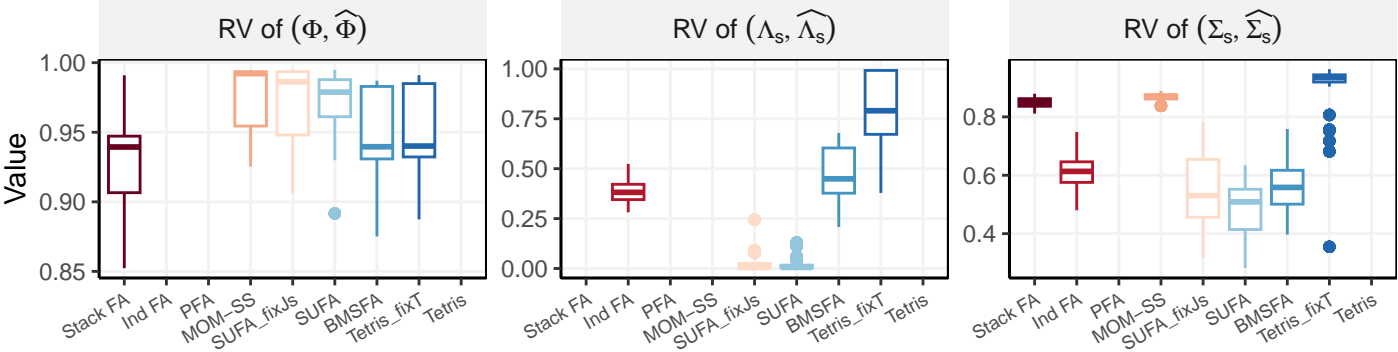
Scenario 3
Based on SUFA
S = 4
P = 40
N_s = (100, 100, 100, 100)
K = 4 and J_s=(1, 1, 1, 1)



Scenario 4 (mimic nutrition)
Based on Tetris plus 12 known covariates
S = 12
P = 42
373 < N_s <= 3775
K = 4, J_s=(1, ..., 1), and 7 partial



Scenario 5 (mimic genomics)
Based on Tetris
S = 4
P = 1060
N_s = (157, 195, 285, 117)
K = 15, J_s=(2, 2, 2, 2), and 3 partial



Method

Stack FA Ind FA PFA MOM-SS SUFA_fixJs SUFA BMSFA Tetris_fixT Tetris