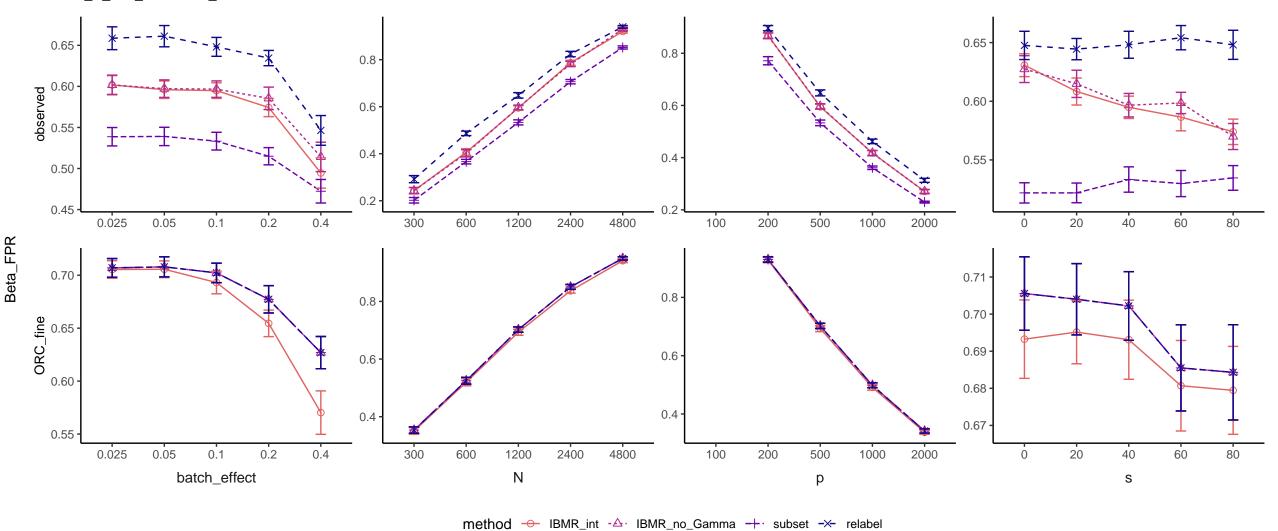
random_X_and_structured_Beta



random_X_and_structured_Beta 950 -observed 800. 800 -0.025 0.05 0.1 0.2 0.4 Beta_SSE 1000 -ORC_fine 600 -0.025 0.05 0.1 0.2 0.4 batch_effect Ν р S

method \rightarrow IBMR_int - \triangle · IBMR_no_Gamma + · subset - \times relabel

random_X_and_structured_Beta 1.00 -0.99 0.98 0.98 0.8 observed 0.96 0.96 0.92 0.96 0.95 -0.025 300 1200 100 500 2000 0.05 0.1 0.2 0.4 600 2400 4800 200 1000 20 40 60 Beta_TPR 1.0000 1.00 -1.000 0.998 -0.95 0.9975 ORC_fine 0.995 0.90 0.9950 0.85 0.990 0.9925 0.994 0.80 0.9900 0.025 0.4 300 100 0.05 0.1 0.2 600 1200 4800 200 2000 2400 500 1000 20 40 60 80 batch_effect Ν р S

method → IBMR_int -△· IBMR_no_Gamma +· subset -× relabel

random_X_and_structured_Beta 0.58 0.8 0.56 **-**0.60 0.54 0.55 opserved 0.52 0.6 0.50 0.50 0.45 0.48 0.40 0.46 0.35 0.44 -0.025 300 1200 100 500 2000 0.2 0.4 600 2400 4800 200 1000 0.05 0.7 error 0.44 0.45 0.45 0.6 ORC_fine 0.44 0.5 0.40 0.43 0.4 0.42 0.42 -0.35 0.3 0.025 0.4 2000

300

600

0.05

0.1

batch_effect

0.2

1200

Ν

2400

4800

method → IBMR_int -△· IBMR_no_Gamma +· subset -× relabel

100

200

500

р

1000

20

60

S

80

random_X_and_structured_Beta 6 observed 300 0.025 0.2 1200 4800 100 500 1000 2000 600 2400 200 0.05 KL_divergence 4.00 -7.5 3.3 -3.75 -3.50 -5.0 3.2 -2.5 3.25 **-**300 1200 0.025 2400 4800 100 200 500 2000 0.05 0.2 0.4 600 1000 20 60 80 batch_effect Ν S

method → IBMR_int -△· IBMR_no_Gamma +· subset -× relabel