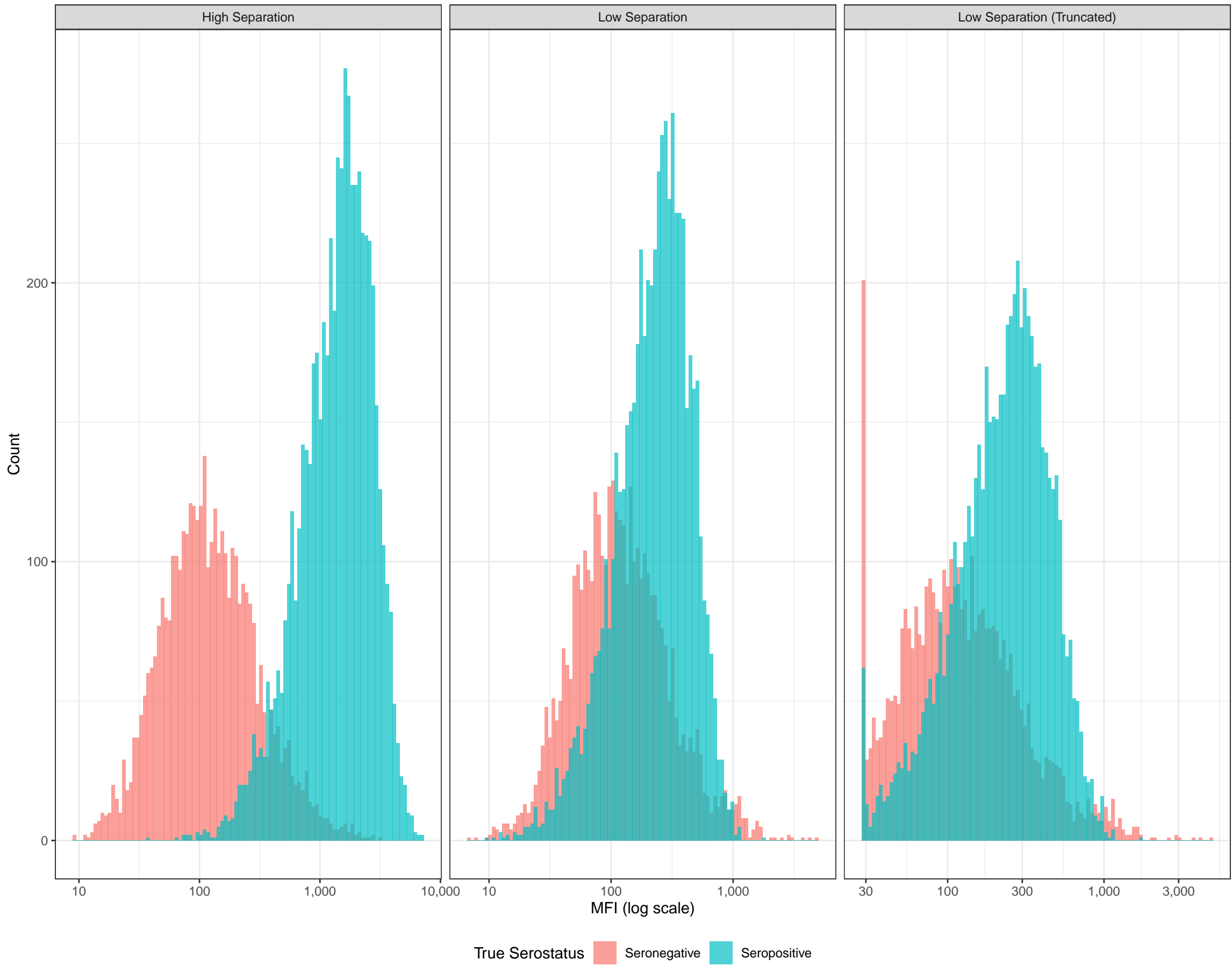


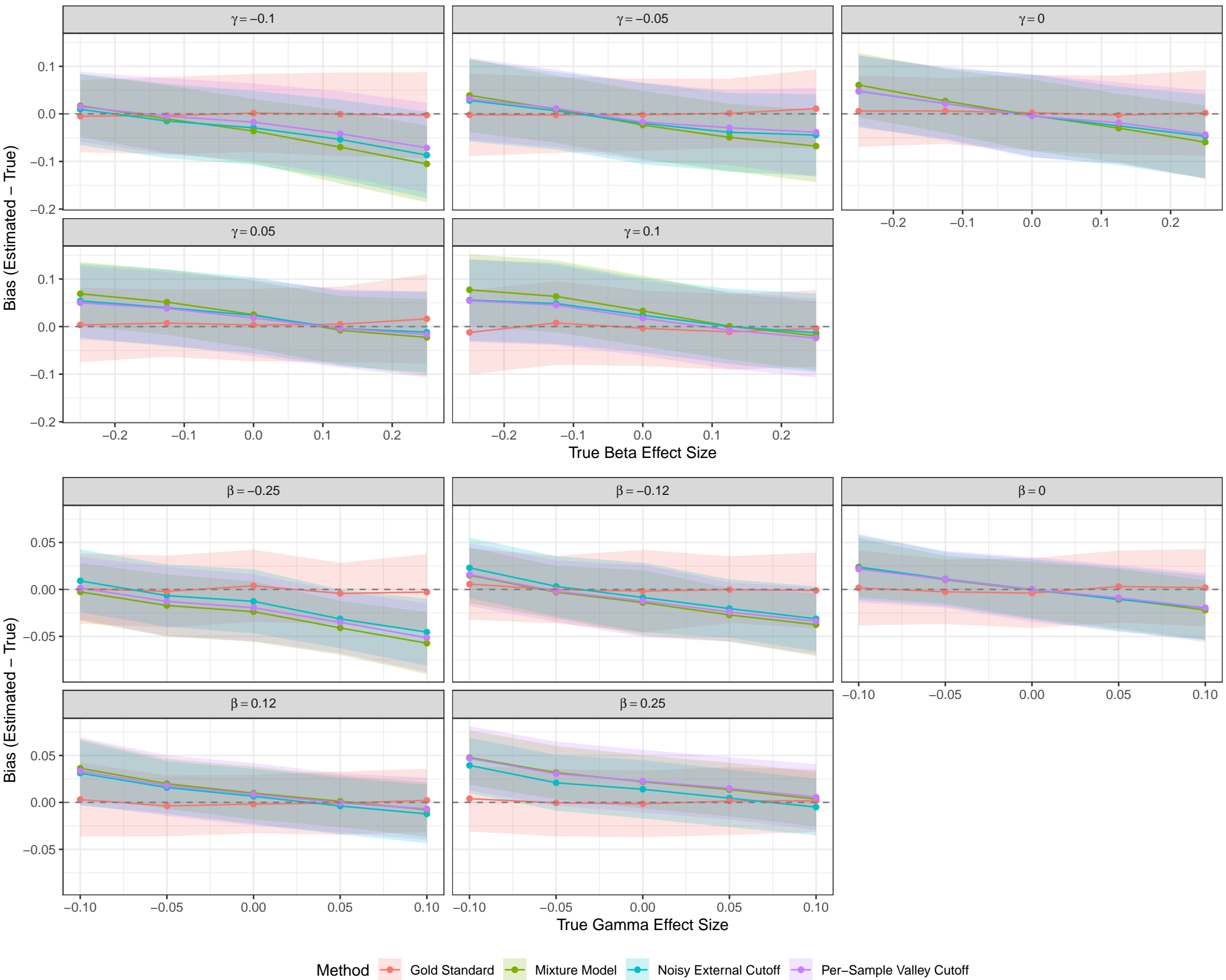
Sample MFI Distributions for Each Scenario
Data generated with no genetic effect ($\beta=0$, $\gamma=0$)



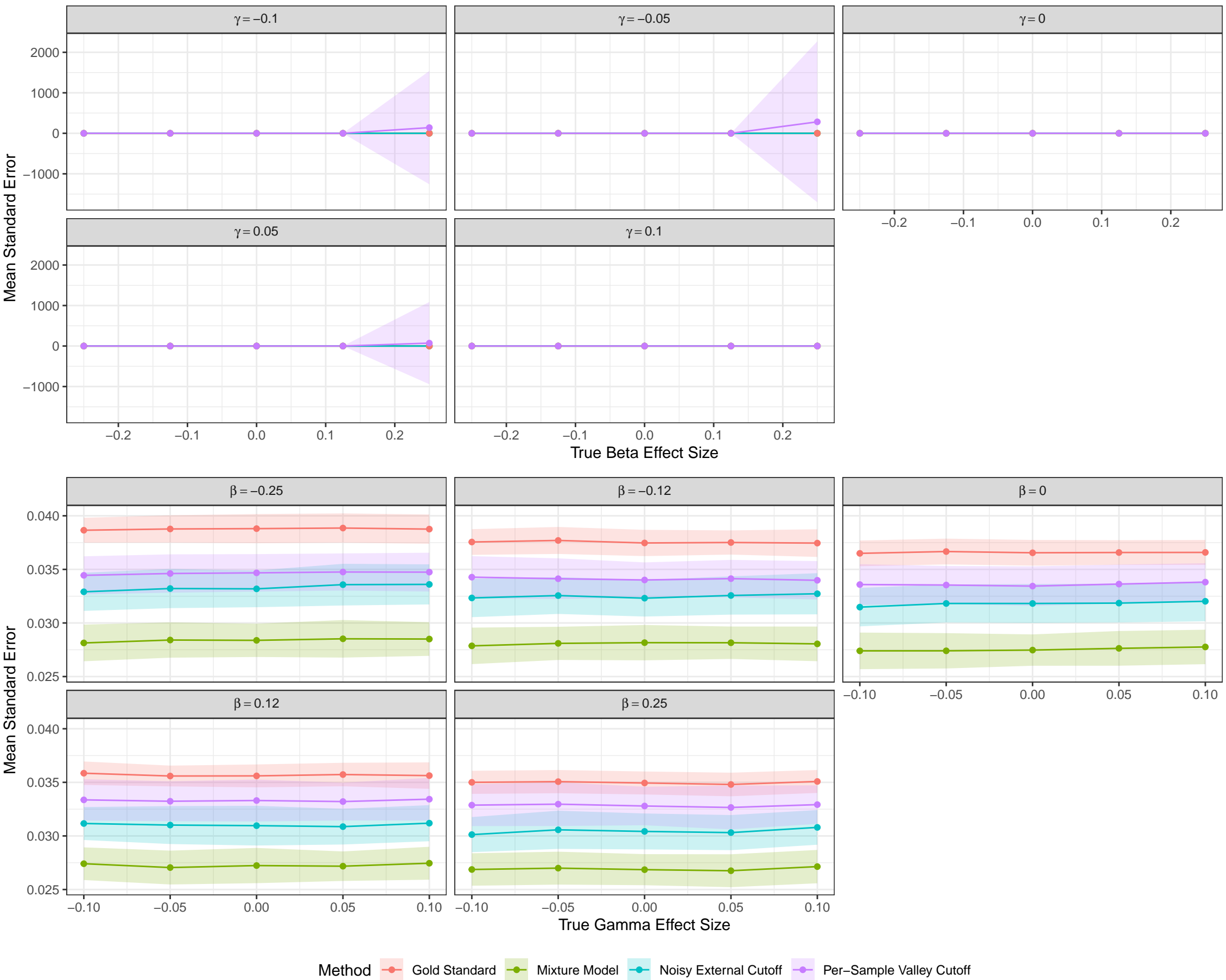
Type I Error Rate (at Alpha = 0.05)

Scenario	Effect	NA	Gold Standard	Mixture Model	Per-Sample Valley	Noisy External
High Separation	Gamma	0.0%	4.0%	7.0%	4.0%	6.0%
High Separation	Beta	NA	5.5%	6.0%	7.0%	6.5%
Low Separation	Gamma	0.0%	4.5%	6.5%	7.0%	5.0%
Low Separation	Beta	NA	5.5%	3.5%	0.0%	2.5%
Low Separation Truncated	Gamma	0.0%	3.0%	6.5%	2.9%	4.0%
Low Separation Truncated	Beta	NA	3.0%	2.5%	2.0%	4.0%

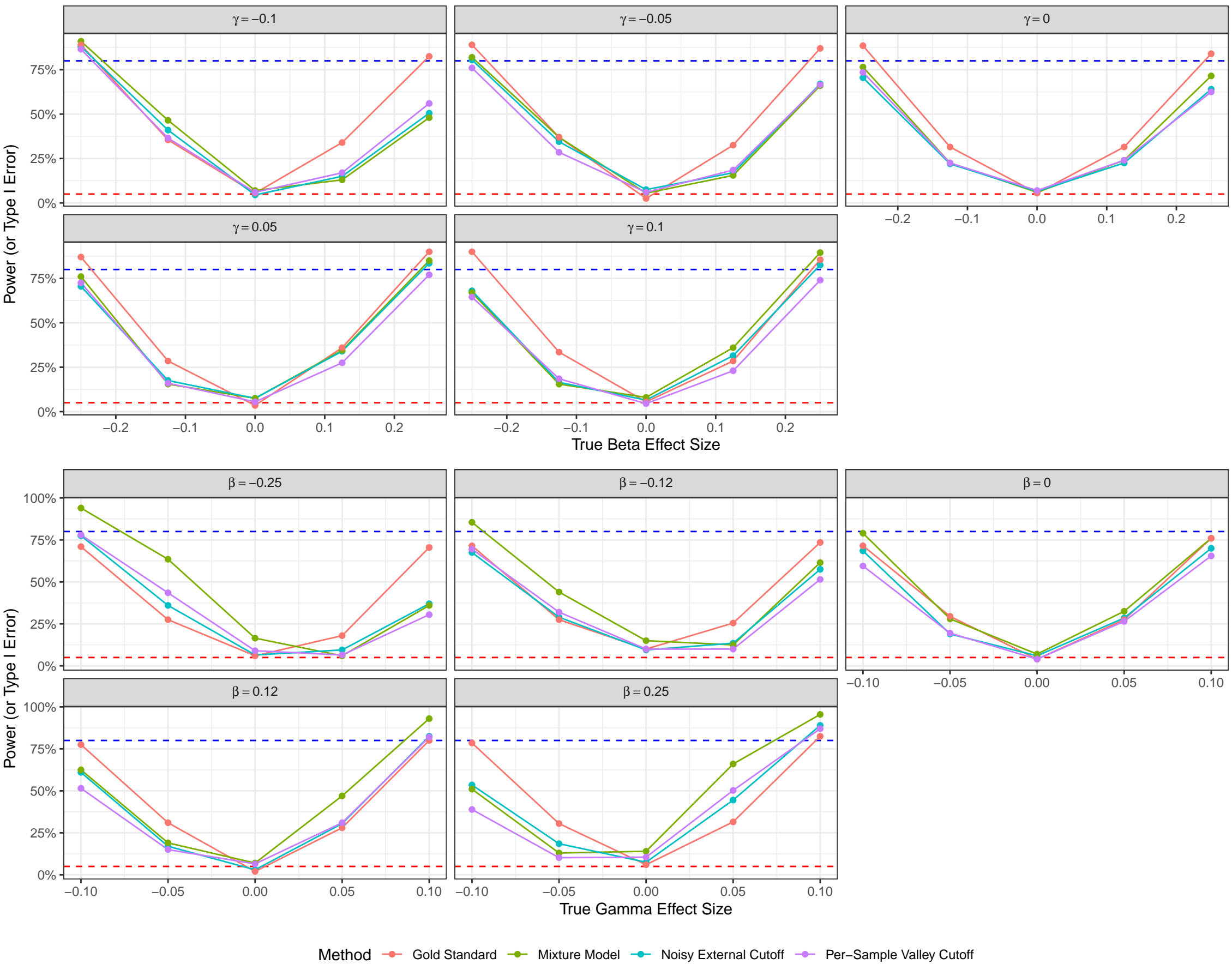
HIGH SEPARATION : Bias (Estimated – True)



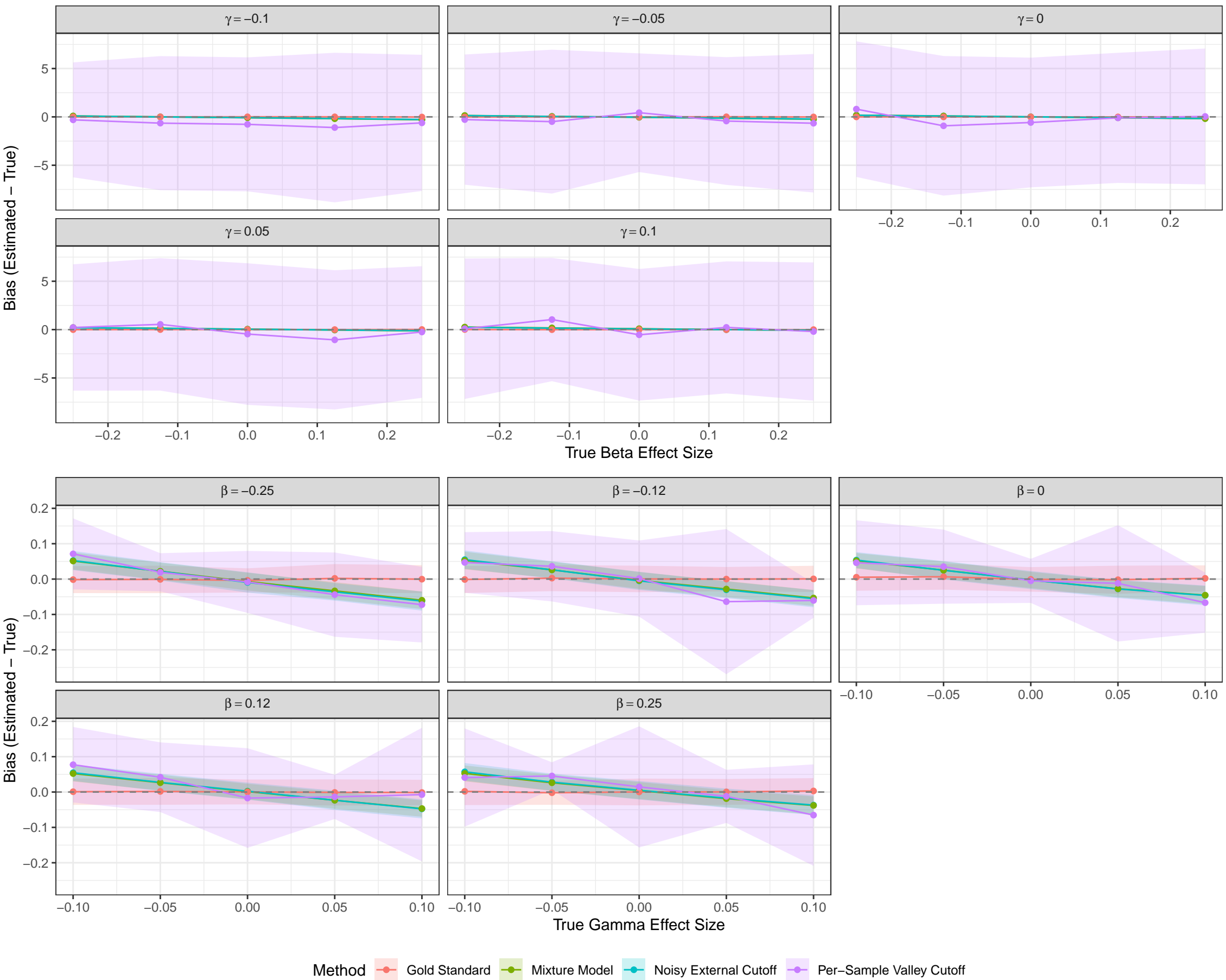
HIGH SEPARATION : Mean Standard Error



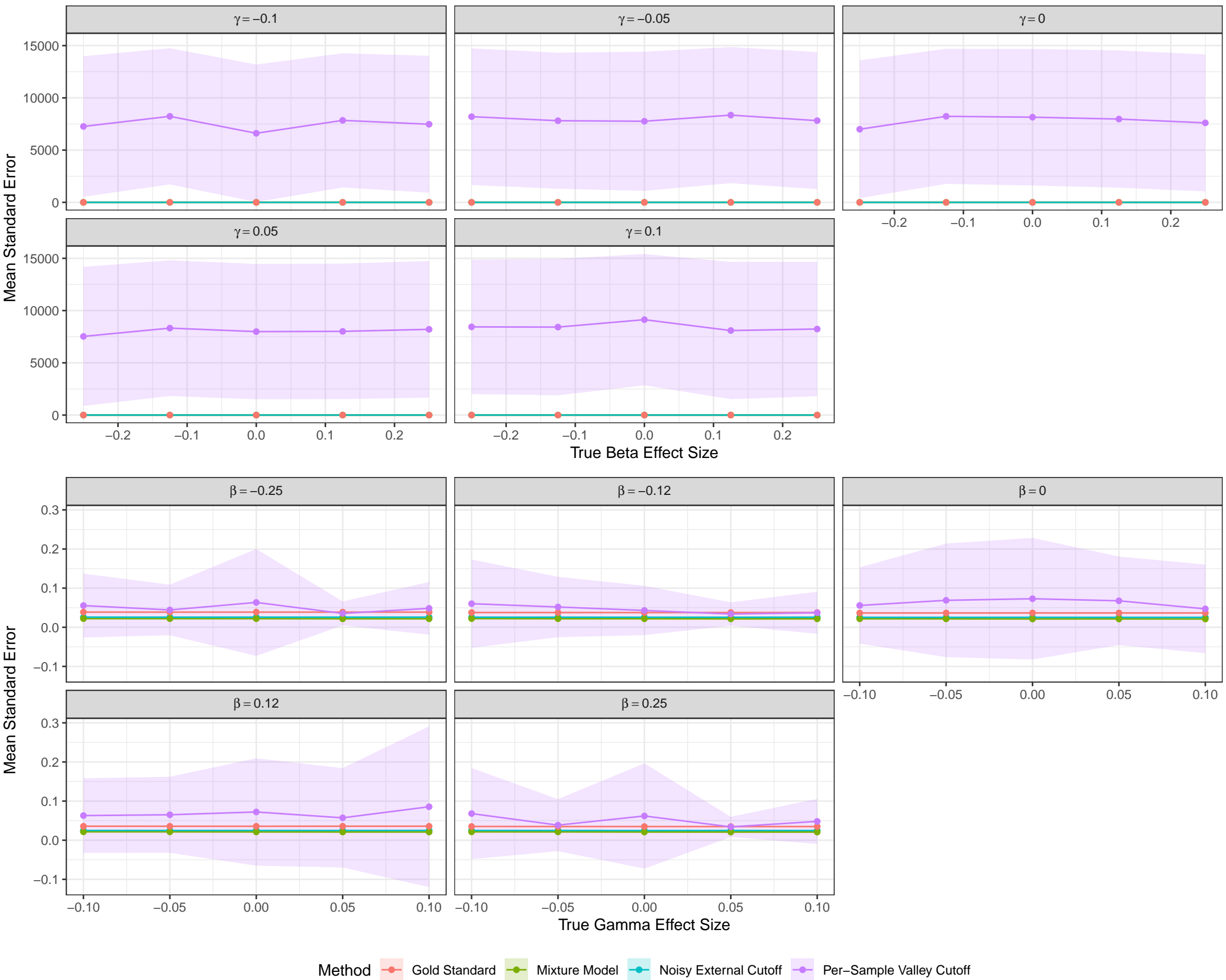
HIGH SEPARATION : Statistical Power



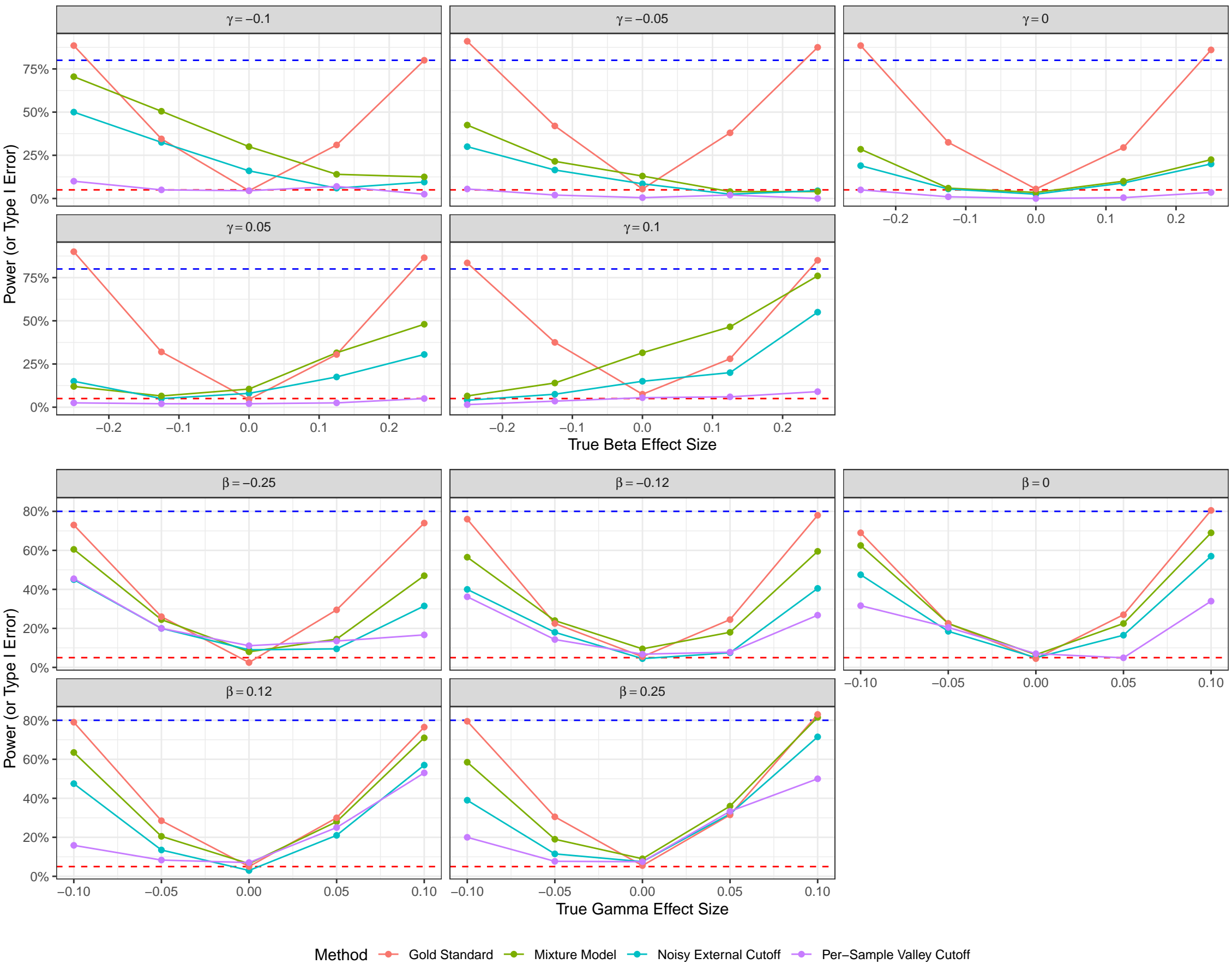
LOW SEPARATION : Bias (Estimated – True)



LOW SEPARATION : Mean Standard Error

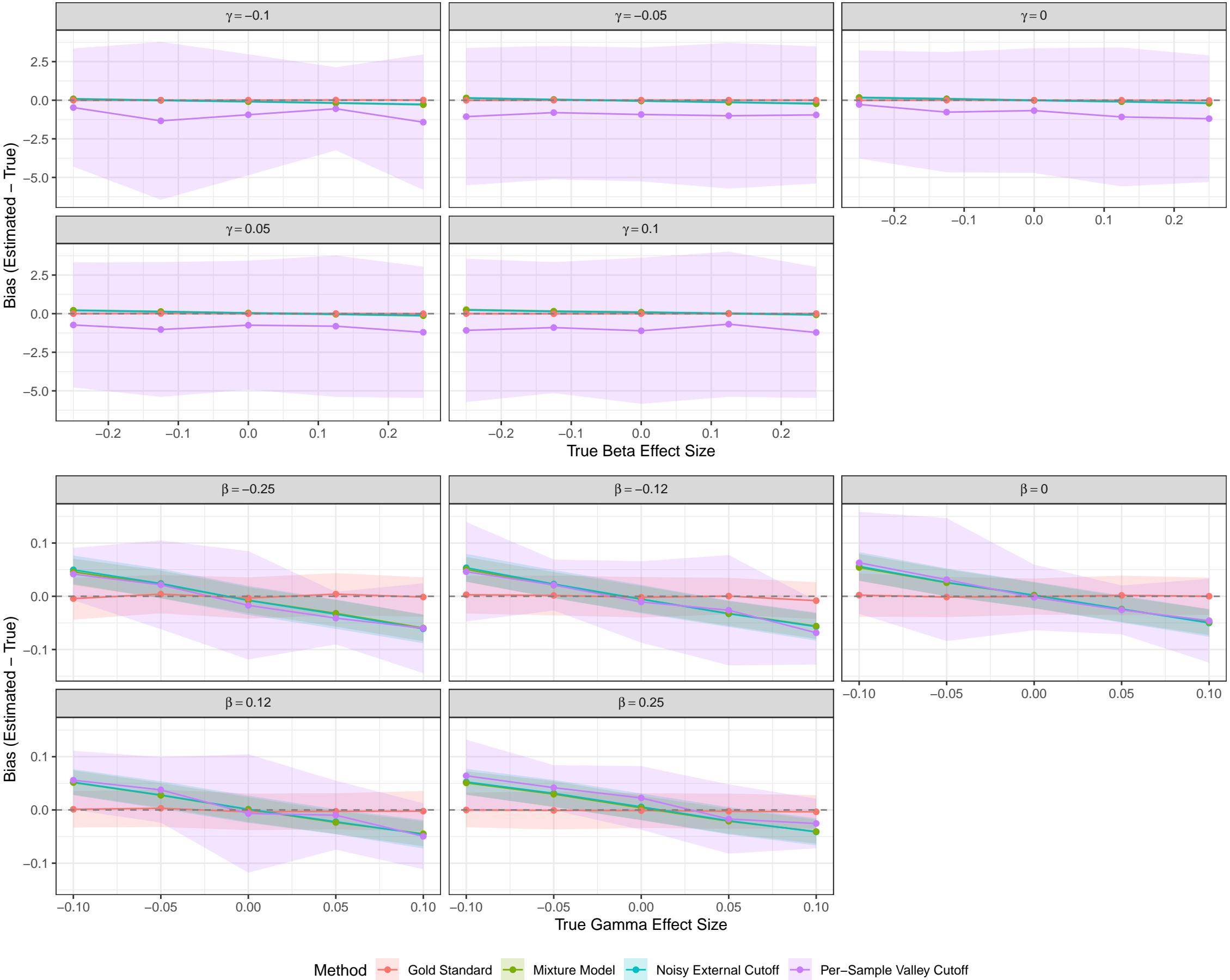


LOW SEPARATION : Statistical Power

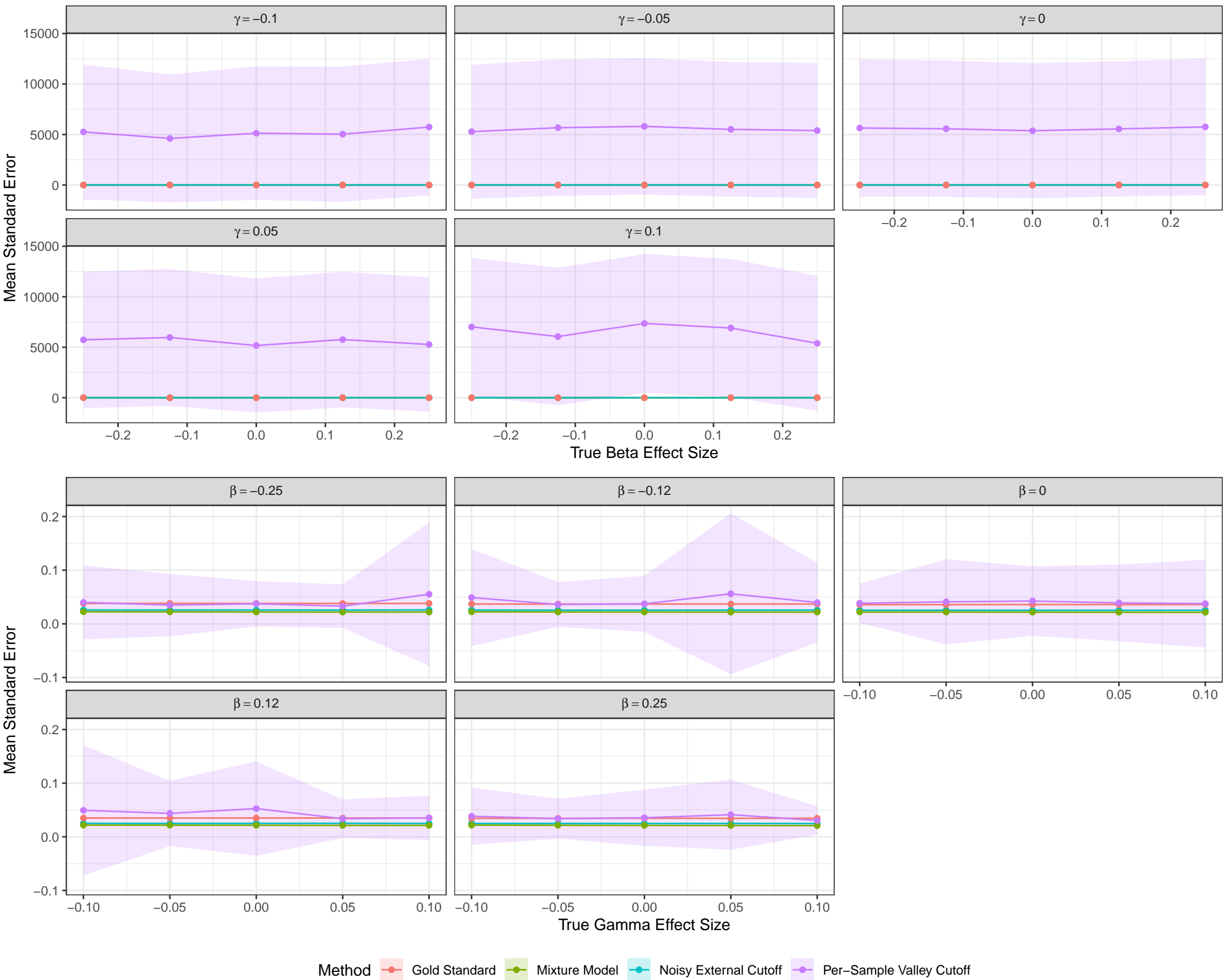


Red line = 5% Type I Error rate. Blue line = 80% Power.

LOW SEPARATION TRUNCATED : Bias (Estimated – True)



LOW SEPARATION TRUNCATED : Mean Standard Error



LOW SEPARATION TRUNCATED : Statistical Power

