with covariates
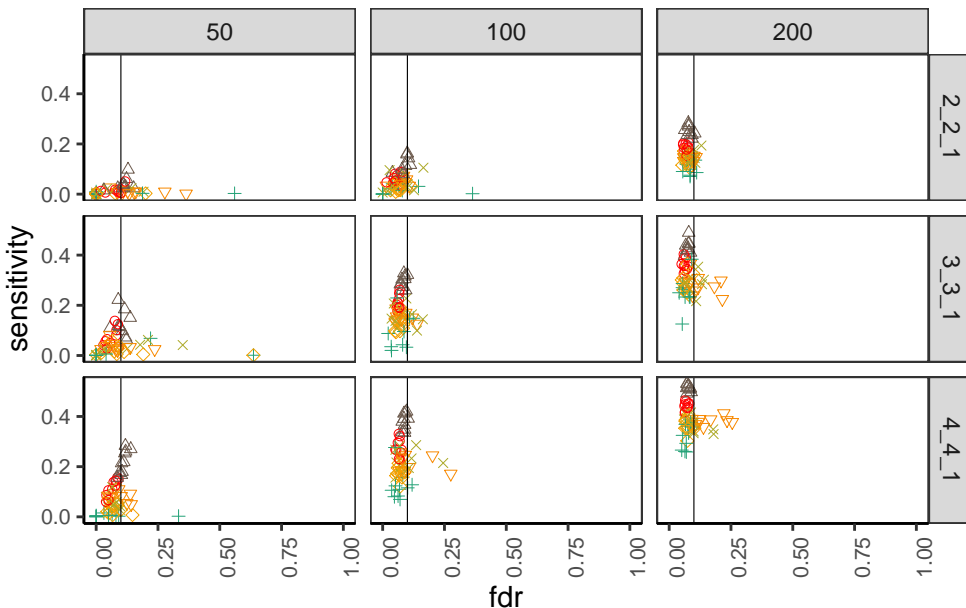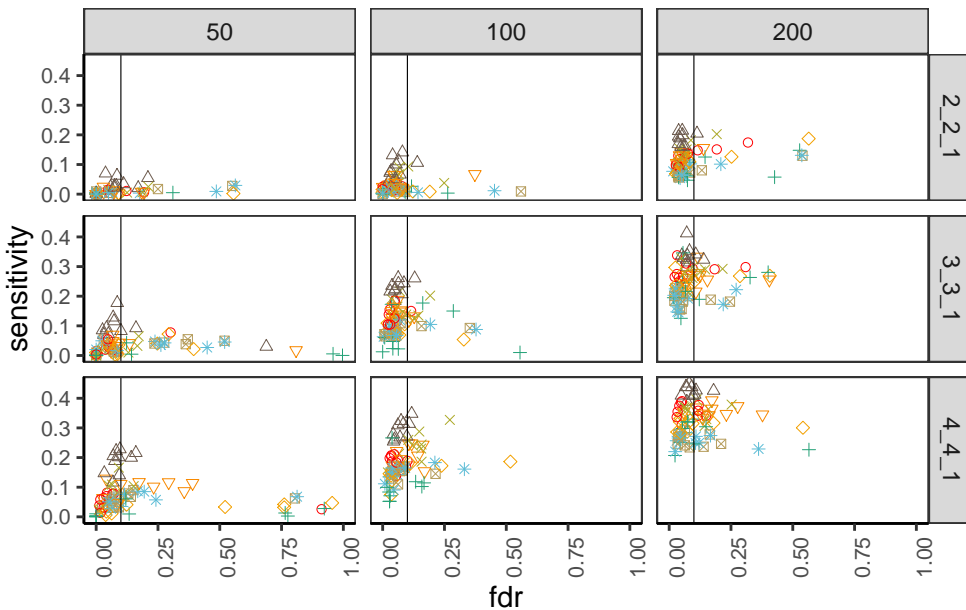
without covariates