

| Method | Type I error | Power | | |
|--------------------------------|----------------|-------------------|-------------------|-------------------|
| | $\alpha_1 = 0$ | $\alpha_1 = 0.25$ | $\alpha_1 = 0.50$ | $\alpha_1 = 0.75$ |
| Multi-SNP PIP | 0.02 | 0.28 | 0.62 | 0.86 |
| <i>p</i> -value Classification | 0.01 | 0.12 | 0.17 | 0.33 |