|  |  |  |
| --- | --- | --- |
| **Study Design\*** | **Number of tests** | **Appropriate**  **-log10(p-value)\*** |
| **MPP 1 WG** | **6,000** | **5.08** |
| **MPP 50,000 cis-only** | **1x105** | **6.30** |
| **Outbred 1 WG** | **2.4x106** | **7.68** |
| **Outbred 50,000 cis-only** | **4.0x107** | **8.90** |
| **MPP 50,000 WG** | **3x108** | **9.78** |
| **Outbred 50,000 WG** | **1.2x1011** | **12.38** |

\* MPP = Multiparent Population with LD blocks ~1MB, which is ~6,000 tests for whole genome (WG) and 2 for cis-only tests.

\*Outbred = e.g., human cell lines, which have ~2.4M tests WG and ~800 cis-only tests.

\*\*Bonferroni corrected p-value = -log(0.05) + log10(# of tests)

