**Table S1: Publicly available MS GWAS summary statistics data**

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| --- | --- | --- | --- | --- | --- | --- |
| GWAS dataset | Data accession | Study type | Population | Genotyping platform | Sample sizes | SNP count |
| GeneMSA | dbGaP | Case Control | Northern European | Sentrix HumanHap550- BeadChip | 978 cases,883 controls | 514599 |
| IMSGC | GWAS Catalog | Case Control | European | Human660-Quad chip | 9,772 cases,17,376 controls | 472087 |