**A**

| | CeD | T1D | MS | IBD | UC | CD | PSO | PBC | AS | RA |
|---|---|---|---|---|---|---|---|---|---|---|
| Cluster 1 (403) | 3% | 3% | 7% | 8% | 14% | 6% | 4% | 10% | 0% | 13% |
| Cluster 2 (334) | 13% | 6% | 21% | 6% | 10% | 5% | 14% | 10% | 8% | 0% |
| Cluster 3 (301) | 11% | 13% | 26% | 8% | 7% | 3% | 5% | 14% | 8% | 0% |
| Cluster 4 (59) | 0% | 0% | 2% | 2% | 0% | 2% | 0% | 0% | 0% | 0% |
| Cluster 5 (45) | 0% | 0% | 5% | 2% | 3% | 0% | 1% | 0% | 4% | 7% |
| Cluster 6 (168) | 0% | 6% | 0% | 8% | 7% | 5% | 4% | 5% | 4% | 7% |
| Cluster 7 (278) | 5% | 0% | 7% | 8% | 3% | 8% | 10% | 5% | 4% | 0% |
| Cluster 8 (865) | 11% | 13% | 12% | 8% | 10% | 11% | 15% | 24% | 28% | 20% |
| Cluster 9 (322) | 11% | 10% | 9% | 8% | 10% | 6% | 4% | 0% | 0% | 0% |
| Cluster 10 (559) | 5% | 26% | 12% | 15% | 17% | 13% | 12% | 10% | 4% | 13% |
| | CeD 38 174 | T1D 31 149 | MS 43 264 | IBD 53 220 | UC 29 124 | CD 62 278 | PSO 73 346 | PBC 21 162 | AS 25 155 | RA 15 93 |

−log10(FDR)   1.0   1.5   2.0   2.5
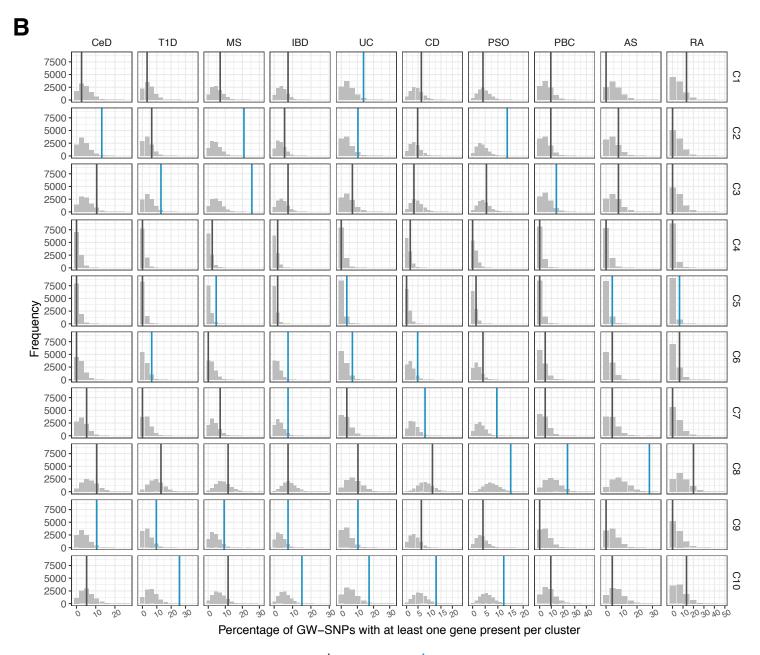
**B**

Percentage of GW-SNPs with at least one gene present per cluster

NonSignificant     Significant