S4 Table. Overlapping loci between ALS and immune-mediated diseases at a conjunction FDR < 0.05.

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| --- | --- | --- | --- | --- | --- | --- |
| **SNP** | **Chr** | **Nearest Gene** | **Associated Phenotype** | **Associated Phenotype *p*-value** | **Min Conj FDR** | **ALS *p*-value** |
| rs3828599 | 5 | *GPX3* | Ced | 2.27E-02 | 2.27E-02 | 7.93E-02 |
| rs10488631 | 7 | *TNPO3* | RA | 3.42E-02 | 3.42E-02 | 2.97E-01 |

Abbreviations: ALS, Amyotrophic lateral sclerosis; CeD, Celiac disease; Chr, Chromosome location; Min Conj FDR, minimum conjunction false discovery rate; RA, Rheumatoid arthritis; SNP, Single-nucleotide polymorphism.