**Supplementary table 3**: SNPs associated with natural-log-transformed 25(OH)D3 and their associations with MS.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SNP** | **A1** | **A2** | **βexposure** | **βoutcome** | **SEoutcome** | **Poutcome** | **SEexposure** | **Pexposure** |
| rs10741657 | A | G | 0.0308 | -0.03691 | 0.016797 | 0.02799 | 0.0022 | 2.05E-46 |
| rs12785878 | T | G | 0.0363 | -0.03729 | 0.020812 | 0.0732 | 0.0022 | 3.81E-62 |
| rs17216707 | T | C | 0.0263 | -0.03666 | 0.021866 | 0.09359 | 0.0027 | 8.14E-23 |
| rs3755967 | T | C | -0.0892 | 0.0318 | 0.018002 | 0.07731 | 0.0023 | ######## |
| rs7979805 | T | C | -0.0144 | 0.011465 | 0.016694 | 0.4922 | 0.002 | 6.22E-13 |
| rs8018720 | C | G | -0.0168 | 0.004888 | 0.021678 | 0.8216 | 0.0029 | 4.72E-09 |

NB: rs10745742 was not typed in the IMSGC dataset; rs7979805 is a perfect proxy in CEU samples from the 1000 genomes project (r2=1) and was used instead.