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| Table S1. Causal relationships between six proteins (exposure) and MASLD (outcome). |
| Proteins | Methods | Number of SNPs | OR (95%CI) | *P* |
| APOE |  |  |  |  |
|  | MR Egger | 22 | 1.079 (1.029 - 1.131) | 5.38E-03 |
|  | Weighted median | 22 | 1.041 (1.003 - 1.081) | 3.50E-02 |
|  | Inverse variance weighted | 22 | 1.057 (1.031 - 1.083) | 4.62E-03 \* |
|  | Simple mode | 22 | 1.030 (0.953 - 1.114) | 4.63E-01 |
|  | Weighted mode | 22 | 1.114 (1.041 - 1.191) | 5.06E-03 |
| CNPY4 |  |  |  |  |
|  | MR Egger | 22 | 1.118 (1.049 - 1.193) | 2.79E-03 |
|  | Weighted median | 22 | 1.073 (1.041 - 1.107) | 5.70E-06 |
|  | Inverse variance weighted | 22 | 1.054 (1.029 - 1.081) | 8.38E-03 \* |
|  | Simple mode | 22 | 1.090 (1.025 - 1.160) | 1.21E-02 |
|  | Weighted mode | 22 | 1.087 (1.026 - 1.152) | 9.69E-03 |
| ENTPD6 |  |  |  |  |
|  | MR Egger | 36 | 1.045 (1.024 - 1.066) | 1.64E-04 |
|  | Weighted median | 36 | 1.034 (1.014 - 1.054) | 8.59E-04 |
|  | Inverse variance weighted | 36 | 1.031 (1.016 - 1.045) | 5.75E-03 \* |
|  | Simple mode | 36 | 1.026 (0.990 - 1.062) | 1.70E-01 |
|  | Weighted mode | 36 | 1.040 (1.015 - 1.065) | 3.16E-03 |
| HLA-A |  |  |  |  |
|  | MR Egger | 101 | 0.957 (0.930 - 0.984) | 2.58E-03 |
|  | Weighted median | 101 | 0.975 (0.960 - 0.990) | 9.20E-04 |
|  | Inverse variance weighted | 101 | 0.969 (0.960 - 0.979) | 1.81E-06 \* |
|  | Simple mode | 101 | 0.988 (0.943 - 1.035) | 6.14E-01 |
|  | Weighted mode | 101 | 0.999 (0.961 - 1.038) | 9.42E-01 |
| SCG3 |  |  |  |  |
|  | MR Egger | 23 | 0.953 (0.912 - 0.997) | 4.91E-02 |
|  | Weighted median | 23 | 0.947 (0.922 - 0.972) | 4.63E-05 |
|  | Inverse variance weighted | 23 | 0.956 (0.937 - 0.975) | 4.62E-03 \* |
|  | Simple mode | 23 | 0.949 (0.906 - 0.994) | 3.71E-02 |
|  | Weighted mode | 23 | 0.944 (0.910 - 0.979) | 5.56E-03 |
| TOR1AIP1 |  |  |  |  |
|  | MR Egger | 43 | 0.941 (0.906 - 0.977) | 2.64E-03 |
|  | Weighted median | 43 | 0.957 (0.934 - 0.981) | 4.28E-04 |
|  | Inverse variance weighted | 43 | 0.964 (0.950 - 0.979) | 8.13E-04 \* |
|  | Simple mode | 43 | 0.948 (0.910 - 0.988) | 1.53E-02 |
|  | Weighted mode | 43 | 0.953 (0.929 - 0.978) | 6.06E-04 |

*Note*: \* indicates that the IVW was used, and the p-value has been adjusted using FDR correction.