**Table S1.** Gene-based and gene-family associations of nAChRs variants with obesity among subjects without diabetes by wTPM (n=2,830)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  **BMI** | **WC** |  **WHR** | **%BF** |
| *CHRNA3* | 0.1900 | 0.0680 | 0.0710 | 0.3900 |
| *CHRNA4* | 0.4920 | 0.3960 | 0.1160 | 0.2690 |
| *CHRNA5* | 0.1510 | 0.0200 | 0.0240 | 0.4550 |
| *CHRNA6* | 0.4824 | 0.3201 | 0.6758 | 0.2629 |
| *CHRNB2* | 0.2300 | 0.1750 | 0.1070 | 0.1810 |
| *CHRNB3* | 0.1580 | 0.0340 | 0.0150 | 0.0270 |
| *CHRNB4* | 0.0650 | 0.0180 | 0.0630 | 0.3830 |
| Gene-family association | 0.1980 | **0.0003** | **0.0046** | 0.2780 |
| P-values in bold indicates significant association after adjusting for multiple testing by FDR |