The stratification of major depressive disorder into genetic subgroups

Supplementary Information

**Supplementary Table 12**

**Acknowledgements4**

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**Members of the Major Depressive Disorder Working Group of the Psychiatric GWAS Consortium and their affiliations6**

**Supplementary Table 1**. Source of the SNP data used to assess each phenotype. \* indicates that the study included Generation Scotland: Scottish Family Health Study (GS:SFHS) or UK Biobank individuals, respectively.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Number of independent SNPs used for analysis | |
| Phenotype | Authors | doi | Source of *P*-values | P-value threshold | GS:SFHS | UK Biobank |
| Height | Berndt, et al. 1 | 10.1038/ng.2606 | Supplementary Table 6 | *P* < 5 x 10-8 | 58 | 80 |
| Overweight | Berndt, et al. 1 | 10.1038/ng.2606 | Supplementary Table 6 | *P* < 5 x 10-8 | 24 | 18 |
| Type 2 Diabetes | Morris, et al. 2 | 10.1038/ng.2383 | Supplementary Table 2 | *P* < 10-5 | 53 | 50 |
| Alcohol Consumption | Toni-Kim Clarke | Paper in review at Molecular Psychiatry | Personal Communication | *P* < 10-5 | 105 | 77 \* |
| Cognition | Davies, et al. 3 | 10.1038/mp.2014.188 | Supplementary Table 3 | *P* < 10-5 | 35 \* | 24 |
| Alzheimer’s Disease | Lambert, et al. 4 | 10.1038/ng.2802 | Table 2 | *P* < 5 x 10-8 | 19 | 17 |
| Parkinson’s Disease | Nalls, et al. 5 | 10.1038/ng.3043 | Table 1 | *P* < 5 x 10-8 | 29 | 16 |
| Sleep Duration | Allebrandt, et al. 6 | 10.1038/mp.2011.142 | Supplementary Table 5 | *P* < 10-5 | 13 | 4 |
| Morning Person | Hu, et al. 7 | 10.1038/ncomms10448 | Supplementary Data 1 | *P* < 10-5 | 68 | 53 |
| Anorexia Nervosa 1 | Boraska, et al. 8 | 10.1038/mp.2013.187 | http://www.med.unc.edu/pgc/files/resultfiles/gcan\_meta-out.gz/view | *P* < 10-5 | 11 | 7 |
| Anorexia Nervosa 2 | Anorexia Working Group of the Psychiatric Genomics Consortium | Unpublished | http://www.med.unc.edu/pgc/files/resultfiles/pgc.an.13May2016.zip/view | *P* < 10-5, infoscore ≥ 0.8 | 27 | 16 |
| Migraine | Gormley, et al. 9 | 10.1038/ng.3598 | http://www.headachegenetics.org/content/datasets-and-cohorts | *P* < 10-5 | 254 | 194 |
| Crohn’s Disease | Franke, et al. 10 | 10.1038/ng.717 | Tables 1 and 2 combined. | *P* < 5 x 10-8 | 68 | 70 |
| Inflammatory Bowel Disease | Liu, et al. 11 | 10.1038/ng.3359 | Supplementary Table 3. Results from European samples. | *P* < 10-5 | 216 | 170 |
| Asthma | Moffatt , et al. 12 | 10.1056/NEJMoa0906312 | http://www.cng.fr/gabriel/results.html | *P* < 10-5 | 33 | 10 |
| Eczema | Paternoster, et al. 13 | 10.1038/ng.3424 | https://data.bris.ac.uk/data/dataset/28uchsdpmub118uex26ylacqm | *P* < 10-5 | 84 | 59 |
| Rheumatoid Arthritis | Okada, et al. 14 | 10.1038/nature12873 | Supplementary Table 1. | *P* < 5 x 10-8 | 85 | 51 |
| HDL Cholesterol | Global Lipids Genetics Consortium 15 | 10.1038/ng.2797 | http://csg.sph.umich.edu//abecasis/public/lipids2013/ | *P* < 10-5 | 336 | 284 |
| LDL Cholesterol | Global Lipids Genetics Consortium 15 | 10.1038/ng.2797 | http://csg.sph.umich.edu//abecasis/public/lipids2013/ | *P* < 10-5 | 291 | 265 |
| Triglycerides | Global Lipids Genetics Consortium 15 | 10.1038/ng.2797 | http://csg.sph.umich.edu//abecasis/public/lipids2013/ | *P* < 10-5 | 259 | 245 |
| Diastolic Blood Pressure | Warren, et al. 16 | 10.1038/ng.3768 | Personal Communication | *P* < 10-5, infoscore ≥ 0.8 | 581 | 499 \* |
| Systolic Blood Pressure | Warren, et al. 16 | 10.1038/ng.3768 | Personal Communication | *P* < 10-5, infoscore ≥ 0.8 | 530 | 405 \* |
| Pulse Blood Pressure | Warren, et al. 16 | 10.1038/ng.3768 | Personal Communication | *P* < 10-5, infoscore ≥ 0.8 | 470 | 394 \* |
| Coronary Artery Disease | Deloukas, et al. 17 | 10.1038/ng.2480 | Supplementary Table 9 | FDR ≤ 0.05 | 129 | 111 |
| Anxiety Disorder | Otowa, et al. 18 | 10.1038/mp.2015.197 | https://www.med.unc.edu/pgc/results-and-downloads (ANGST) | P < 10-5 for factor score phenotype | 18 | 10 |
| Autism Spectrum Disorder | Psychiatric Genetics Consortium | Unpublished | https://www.med.unc.edu/pgc/results-and-downloads | *P* < 10-5, infoscore ≥ 0.8 | 17 | 10 |
| Extraversion | van den Berg, et al. 19 | 10.1007/s10519-015-9735-5 | Supplementary Table 3. Used results from the discovery cohorts only, as GS:SFHS was the replication sample. | *P* < 10-5 | 18 | 12 |
| Neuroticism 1 | de Moor, et al. 20 | 10.1001/jamapsychiatry.2015.0554 | eTable 4. Used results from the discovery cohorts only, as GS:SFHS was the replication sample. | *P* < 10-5 | 22 | 14 |
| Neuroticism 2 | Smith, et al. 21 | 10.1038/mp.2016.49 | Personal Communication to obtain results with GS:SFHS excluded | *P* < 10-5 | 99 | 74 \* |
| Bipolar Disorder | Psychiatric GWAS Consortium Bipolar Disorder Working Group 22 | 10.1038/ng.943 | Supplementary Table 2 | *P* < 5 x 10-5 | 34 | 26 |
| Schizophrenia | Schizophrenia Working Group of the Psychiatric Genomics Consortium 23 | 10.1038/nature13595 | https://www.med.unc.edu/pgc/results-and-downloads | *P* < 10-6, infoscore ≥ 0.8 | 250 | 209 |
| MDD 1 | Converge Consortium 24 | 10.1038/nature14659 | Supplementary Table 4 | *P* < 10-5 | 19 | 15 |
| MDD 2 | Major Depressive Disorder Working Group of the Psychiatric GWAS Consortium | Unpublished | 29 cohorts. 16,823 MDD cases & 25,632 controls. Data freeze: 25/04/2016 | *P* < 10-5, infoscore ≥ 0.8 | 31 | 19 |
| MDD 3 | Hyde, et al. 25 | 10.1038/ng.3623 | Supplementary Table 12 | *P* < 10-6 | 55 | 40 |

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