Supplementary Information for *Genome-wide association study of Borderline Personality Disorder reveals genetic overlap with the Major Psychoses*

Table of Content

Figures 2

Supplementary Figure 1: Scatter plot of principal components 1 and 2 2

Supplementary Figure 2: Scatter plot of principal components 1 and 3 2

Supplementary Figure 3: Scatter plot of principal components 2 and 3 3

Supplementary Figure 4: Scatter plot of principal components 2 and 4 3

Supplementary Figure 5: Scatter plot of principal components 3 and 4 4

Supplementary Figure 6: Scatter plot of principal components 5 and 6 4

Supplementary Figure 7: Region plot of PKP4 5

Supplementary Figure 8: Region plot of DPYD 5

Tables 6

Supplementary Table 1: Demographic and clinical information on the final sample 6

Supplementary Table 2: Association results for single markers 7

Supplementary Table 3: Overview of Gene Set Excytosis (GO: 0006887) 13

Supplementary Table 4: Association of polygenic risk scores for Bipolar Disorder (BIP), Schizophrenia (SCZ), and Major Depressive Disorder (MDD) with Borderline Personality Disorder case control status 14

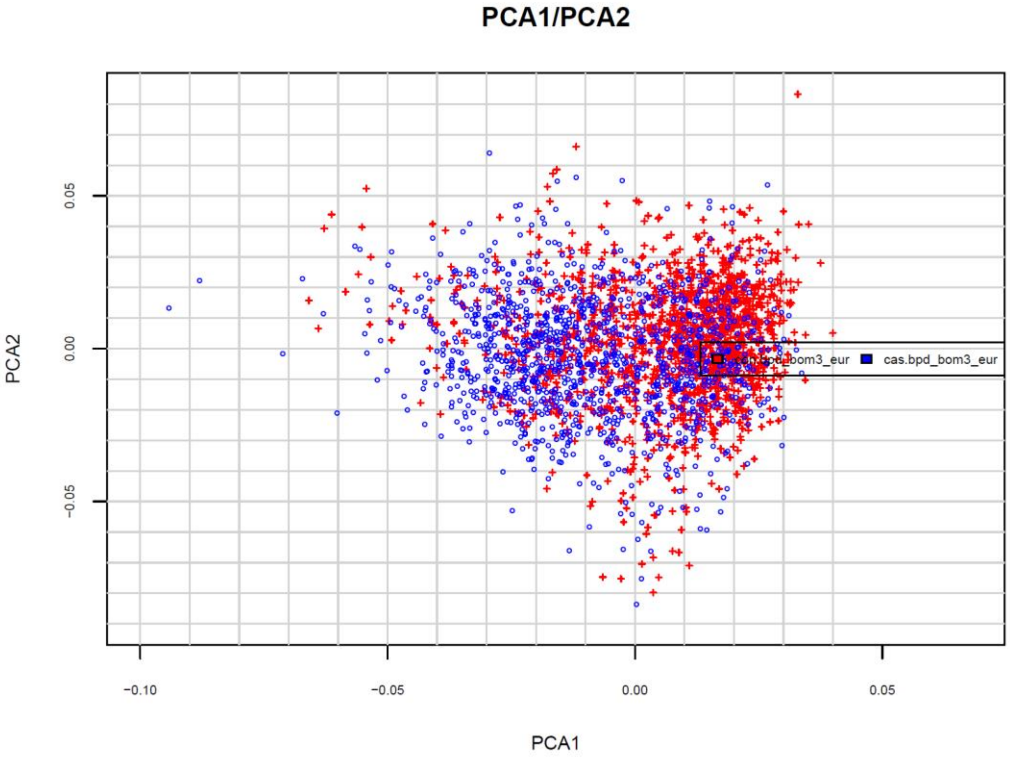
Consortium Memberships 15

Bipolar Disorders Working Group of the Psychiatric Genomics Consortium (Bipolar disorder) 15

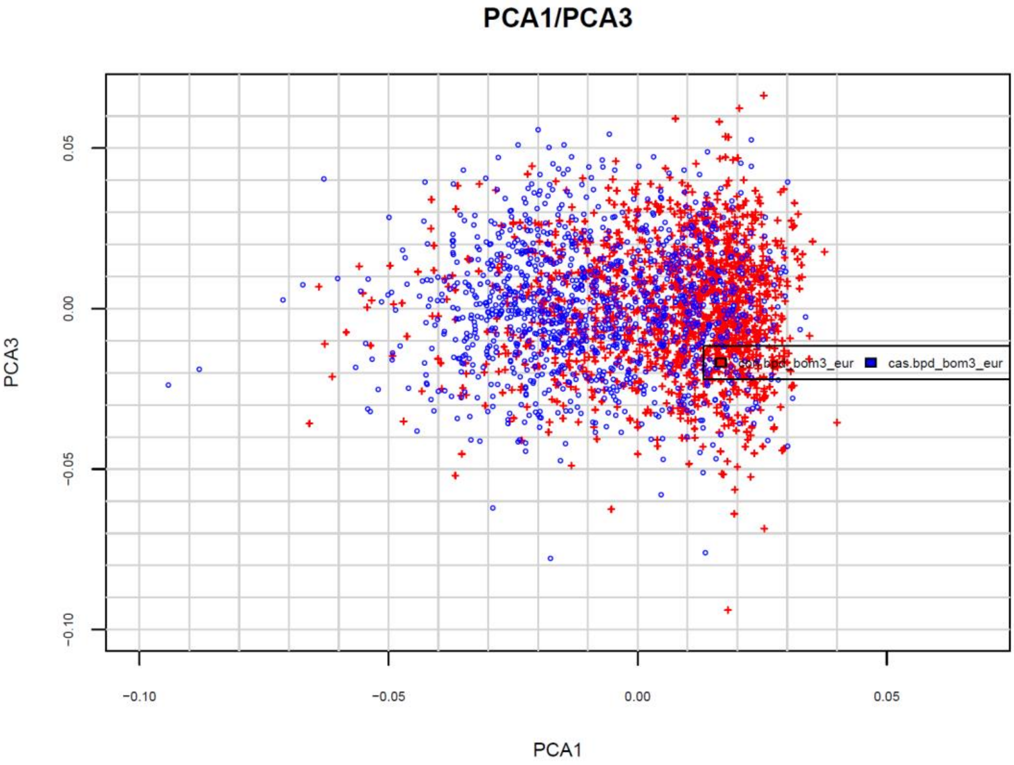
Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium (Major depressive disorder) 16

Figures

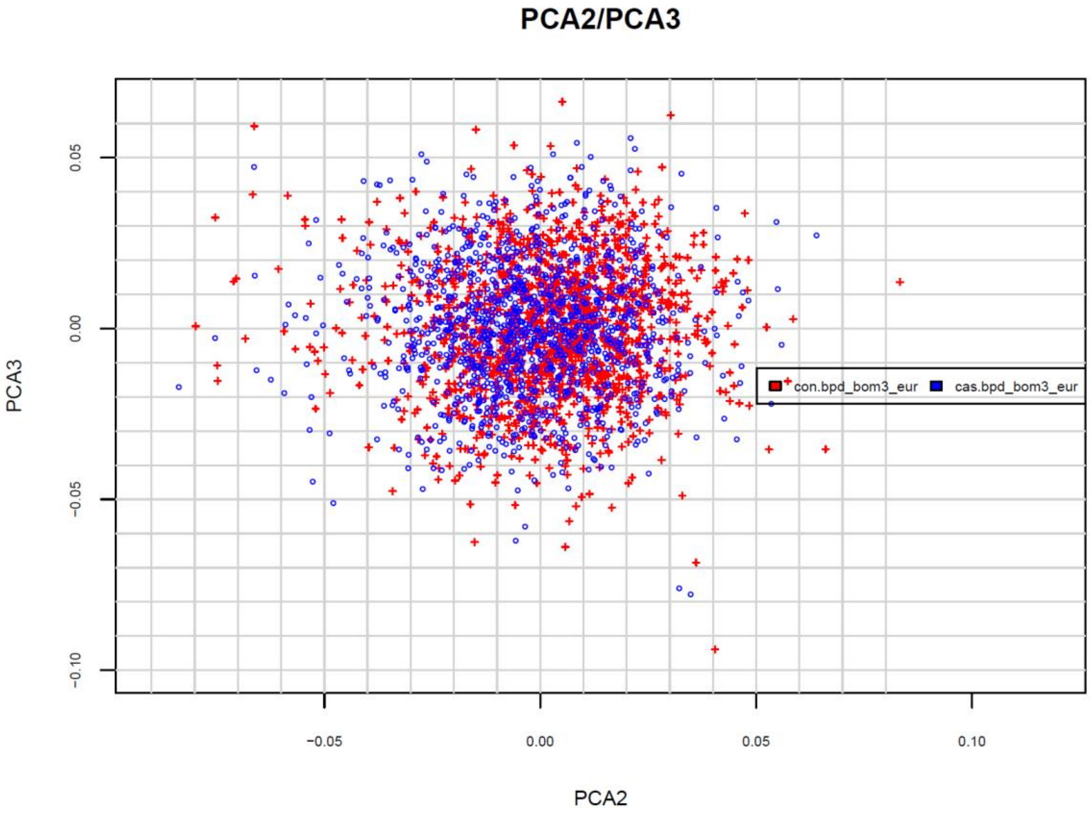
Supplementary Figure 1: Scatter plot of principal components 1 and 2



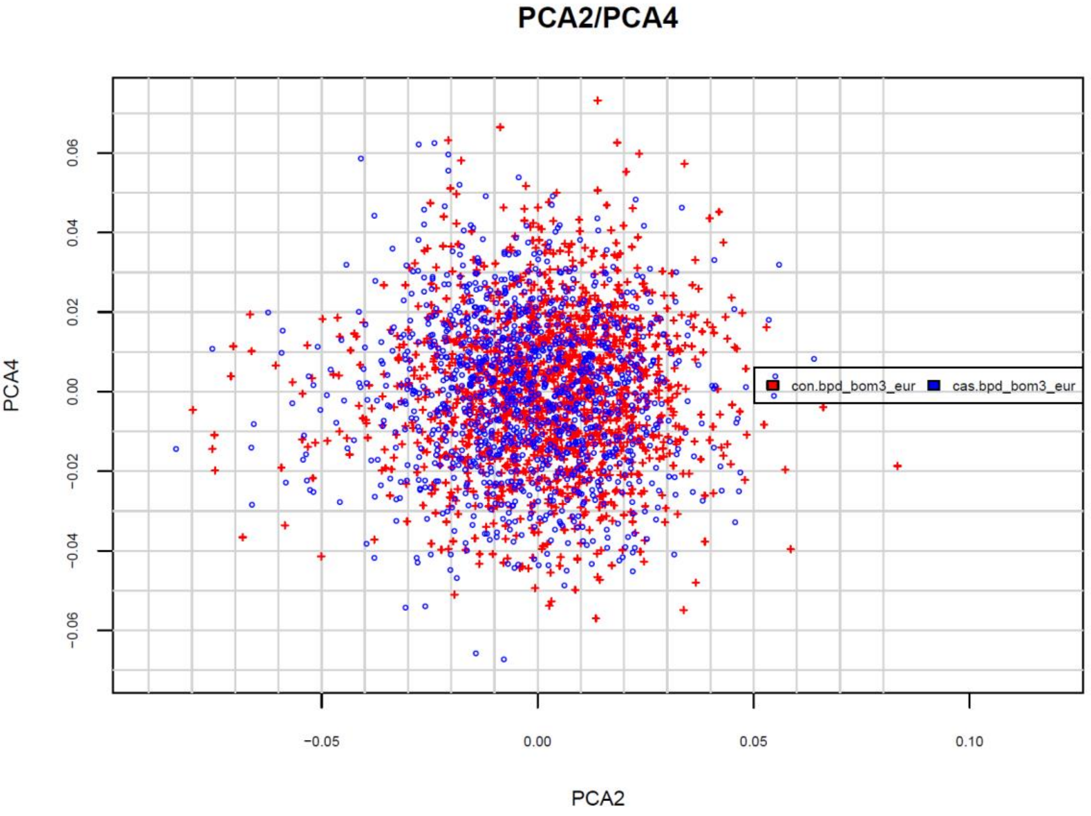
Supplementary Figure 2: Scatter plot of principal components 1 and 3



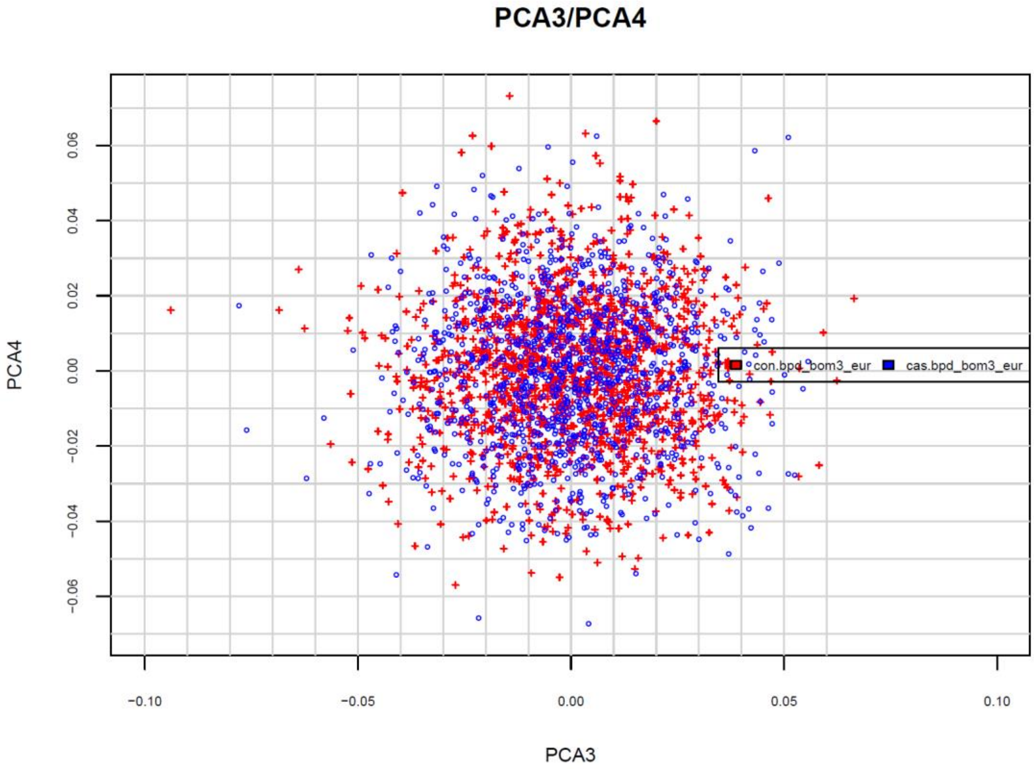
Supplementary Figure 3: Scatter plot of principal components 2 and 3



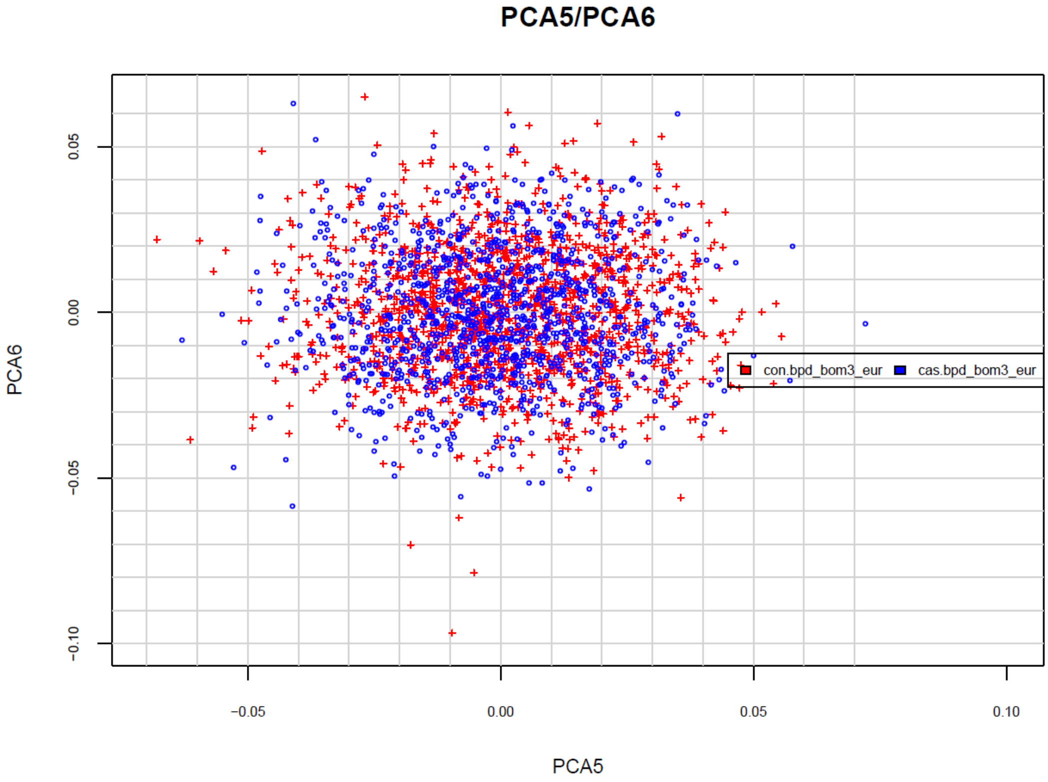
Supplementary Figure 4: Scatter plot of principal components 2 and 4



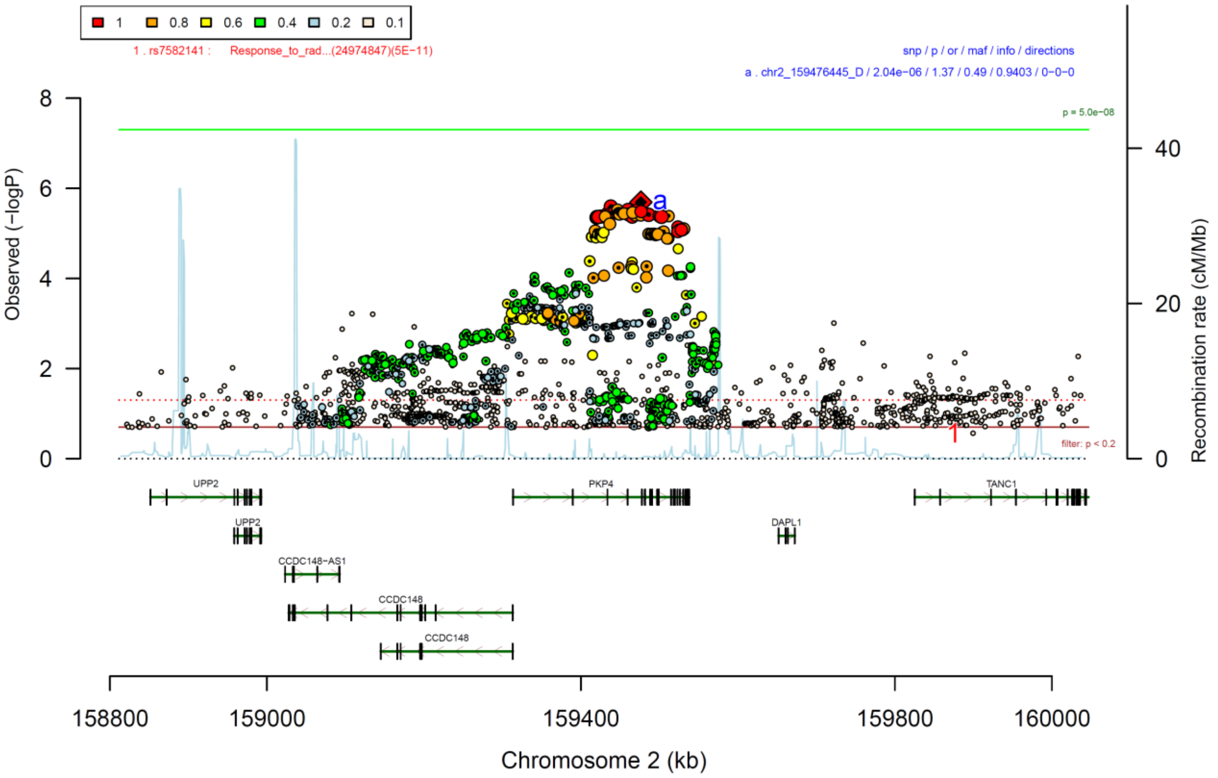
Supplementary Figure 5: Scatter plot of principal components 3 and 4



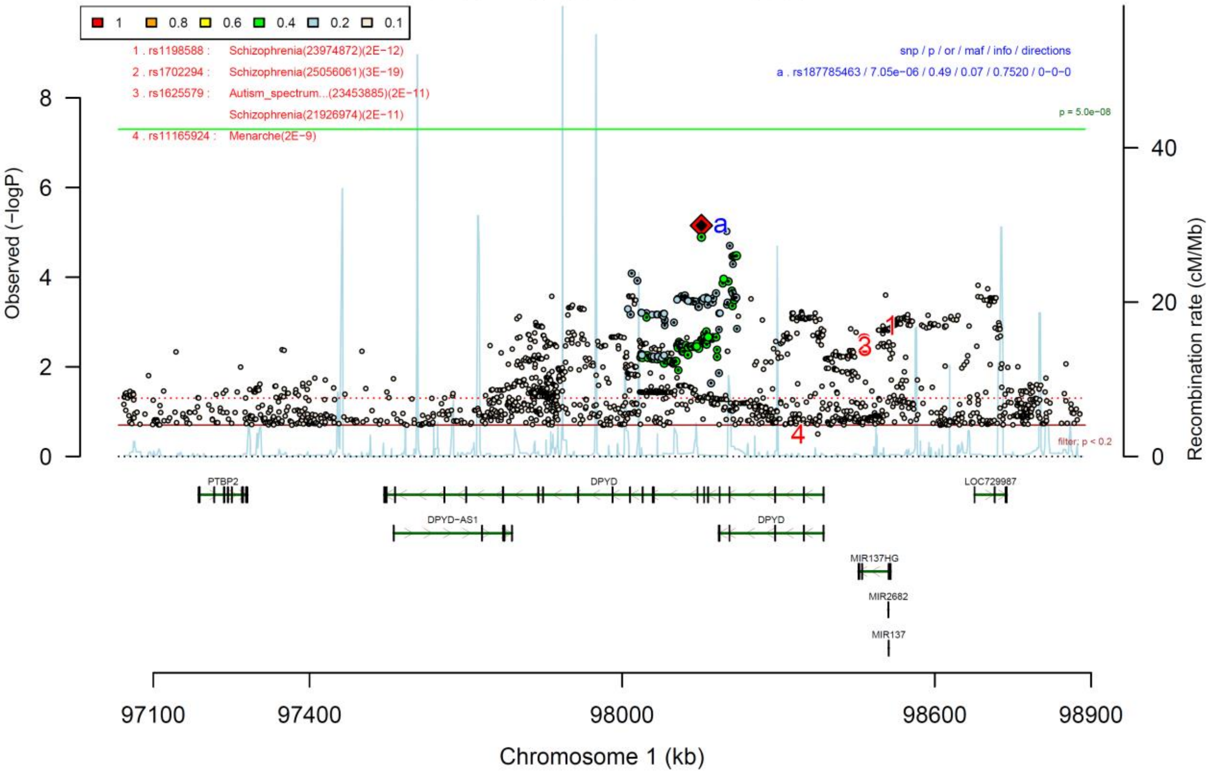
Supplementary Figure 6: Scatter plot of principal components 5 and 6



Supplementary Figure 7: Region plot of PKP4



Supplementary Figure 8: Region plot of DPYD



Tables

Supplementary Table 1: Demographic and clinical information on the final sample

	Cases	**Controls**
N	998	1,545
Sex (female/male)	914 / 84	868 / 677
Age in years (SD)	29.58 (8.64)	44.19 (13.24)
Comorbidity		
Depression		
(yes / no / missing)	666 / 262 / 40	-
Alcohol dependency		
(yes / no / missing)	163/ 781 / 54	-

Supplementary Table 2: Association results for single markers

Markers are reported with $p<1x10^{-5}$, and sorted according to chromosomal position. CHR = chromosome, BP = base pair position, A = allele, FRQ = frequency, SNP = single nucleotide polymorphism, OR = odds ratio, INFO = imputation info score, SE = standard error, GT = genotyped, IMP = imputed

CHR	*SNP*	*BP*	*Gene*	*A1*	*A2*	*FRQ cases*	*FRQ controls*	*INFO*	*OR*	*SE*	*P*	*GT*
1	rs187785463	98152125	DPYD	A	G	0.0531	0.0739	0.752	0.4935	0.1572	7.05E-06	IMP
1	rs6683957	98200719	DPYD	A	G	0.078	0.1128	1.002	0.6117	0.111	9.46E-06	IMP
2	rs57726666	16203326	GACAT3	A	G	0.9407	0.9125	0.912	1.8855	0.1341	2.24E-06	IMP
2	rs78068563	16208690	GACAT3	A	G	0.9397	0.9127	0.9227	1.8395	0.1324	4.19E-06	IMP
2	rs115689122	52606079	AC087073.1	A	T	0.016	0.0054	0.7809	6.1189	0.4062	8.20E-06	IMP
2	rs62127626	52719291	AC139712.4	A	C	0.0163	0.0057	0.7744	5.9639	0.3984	7.38E-06	IMP
2	rs150592717	89936117		T	C	0.8884	0.869	0.3247	2.2187	0.1796	9.14E-06	IMP
2	rs4664975	159418438	PKP4	A	C	0.4677	0.5152	0.8943	0.7399	0.0678	8.77E-06	IMP
2	rs3771608	159419739	PKP4	A	C	0.5405	0.4847	0.9831	1.345	0.0646	4.42E-06	IMP
2	rs12052933	159420140	PKP4	A	G	0.54	0.4841	0.9852	1.3451	0.0645	4.29E-06	IMP
2	rs10174340	159421412	PKP4	A	T	0.54	0.4841	0.9856	1.3451	0.0645	4.27E-06	IMP
2	rs3771609	159422239	PKP4	T	C	0.46	0.516	0.9859	0.7434	0.0645	4.25E-06	IMP
2	rs3771610	159422317	PKP4	A	G	0.54	0.484	0.9859	1.3451	0.0645	4.25E-06	IMP
2	rs10187426	159425104	PKP4	A	G	0.5399	0.4839	0.9869	1.3451	0.0644	4.21E-06	IMP
2	rs7577672	159429019	PKP4	A	G	0.4748	0.5324	0.9886	0.7523	0.0643	9.56E-06	IMP
2	rs3771614	159430579	PKP4	T	G	0.5318	0.4731	0.9904	1.3443	0.0643	4.26E-06	IMP
2	rs3771616	159430991	PKP4	A	G	0.5318	0.4731	0.9903	1.3444	0.0643	4.23E-06	IMP
2	rs3821291	159431031	PKP4	A	G	0.5318	0.4731	0.9903	1.3444	0.0643	4.23E-06	IMP

2	rs12473797	159431663	PKP4	T	C	0.5319	0.4732	0.9898	1.3449	0.0644	4.14E-06	IMP
2	rs3755408	159431842	PKP4	T	C	0.5318	0.4731	0.9903	1.3445	0.0643	4.21E-06	IMP
2	chr2_159432313_D	159432313	PKP4	I2	D	0.5496	0.4914	0.9516	1.3537	0.0658	4.13E-06	IMP
2	rs2356189	159434500	PKP4	A	G	0.5402	0.4839	0.9869	1.3482	0.0644	3.55E-06	IMP
2	rs3755413	159436702	PKP4	A	G	0.528	0.4703	0.9825	1.3387	0.0646	6.23E-06	IMP
2	rs3771620	159438129	PKP4	T	C	0.4591	0.5157	0.9808	0.7375	0.0647	2.52E-06	IMP
2	rs4664979	159439898	PKP4	T	C	0.4597	0.5161	0.9868	0.7414	0.0644	3.44E-06	IMP
2	rs3771627	159443266	PKP4	T	C	0.4596	0.5161	0.9865	0.741	0.0645	3.31E-06	IMP
2	rs2108215	159446818	PKP4	T	G	0.4674	0.5269	0.9909	0.7404	0.0643	3.01E-06	GT
2	rs11891131	159447509	PKP4	T	C	0.532	0.4731	0.9898	1.347	0.0644	3.71E-06	IMP
2	rs1465236	159448238	PKP4	A	G	0.4682	0.527	0.9894	0.7424	0.0644	3.71E-06	IMP
2	rs999232	159448306	PKP4	C	G	0.468	0.5269	0.9899	0.7422	0.0644	3.62E-06	IMP
2	rs3771631	159448926	PKP4	A	C	0.468	0.5269	0.9898	0.7422	0.0644	3.62E-06	IMP
2	rs3771632	159448946	PKP4	C	G	0.5341	0.4763	0.9806	1.3485	0.0646	3.75E-06	IMP
2	rs2051946	159454789	PKP4	T	G	0.532	0.4732	0.9886	1.3474	0.0644	3.66E-06	IMP
2	rs2051947	159459863	PKP4	A	G	0.5321	0.4733	0.9884	1.3472	0.0644	3.71E-06	IMP
2	rs12694965	159460218	PKP4	T	C	0.4594	0.5159	0.9836	0.7396	0.0646	3.00E-06	IMP
2	rs10191923	159460807	PKP4	T	C	0.5321	0.4735	0.9882	1.3467	0.0644	3.83E-06	IMP
2	rs10191934	159460832	PKP4	T	G	0.5322	0.4736	0.9877	1.3461	0.0644	3.97E-06	IMP
2	rs10191939	159460846	PKP4	A	T	0.4679	0.5267	0.9885	0.7423	0.0644	3.72E-06	IMP
2	chr2_159465312_I	159465312	PKP4	I5	D	0.4498	0.5053	0.9315	0.7371	0.0663	4.28E-06	IMP
2	rs3771643	159466149	PKP4	T	C	0.532	0.4731	0.9889	1.3483	0.0644	3.46E-06	IMP
2	rs3771647	159469420	PKP4	T	C	0.5321	0.4735	0.9893	1.3459	0.0644	3.93E-06	IMP
2	rs7607589	159469920	PKP4	T	C	0.4594	0.5159	0.9845	0.7404	0.0645	3.18E-06	GT

2	chr2_159476445_D	159476445	PKP4	I13	D	0.5489	0.4908	0.9403	1.3685	0.0661	2.04E-06	IMP
2	rs10180170	159476635	PKP4	T	C	0.532	0.4735	0.9892	1.3459	0.0644	3.95E-06	IMP
2	rs10180277	159476732	PKP4	T	C	0.5325	0.4735	0.99	1.3493	0.0644	3.23E-06	IMP
2	rs2883873	159486346	PKP4	T	C	0.4596	0.5149	0.9828	0.742	0.0646	3.84E-06	IMP
2	rs2528638	159500560	PKP4	A	G	0.4597	0.5145	0.98	0.7423	0.0647	4.08E-06	IMP
2	rs2711070	159502533	PKP4	C	G	0.4598	0.5145	0.9798	0.7428	0.0647	4.27E-06	IMP
2	rs929390	159503016	PKP4	A	G	0.4598	0.5145	0.9798	0.7428	0.0647	4.28E-06	IMP
2	rs2711068	159503757	PKP4	A	G	0.4561	0.5082	0.9498	0.7482	0.0657	9.98E-06	IMP
2	rs2711067	159503758	PKP4	C	G	0.4558	0.5082	0.9496	0.7476	0.0657	9.41E-06	IMP
2	chr2_159505404_D	159505404	PKP4	I7	D	0.5375	0.4842	0.9621	1.3353	0.0652	9.12E-06	IMP
2	rs2711062	159511527	PKP4	A	T	0.537	0.4807	0.967	1.3501	0.0652	4.09E-06	IMP
2	chr2_159523551_D	159523551	PKP4	I2	D	0.5395	0.4867	0.969	1.3392	0.0651	7.17E-06	IMP
2	rs2711072	159523803	PKP4	C	G	0.5399	0.4876	0.9688	1.335	0.0651	9.00E-06	IMP
2	rs2711073	159525516	PKP4	A	T	0.4611	0.5138	0.9713	0.7487	0.065	8.46E-06	IMP
2	rs2528590	159527845	PKP4	A	T	0.4586	0.5105	0.9641	0.7477	0.0653	8.33E-06	IMP
2	rs2528591	159527936	PKP4	T	C	0.5389	0.4862	0.9713	1.336	0.065	8.31E-06	IMP
2	rs2528592	159529272	PKP4	C	G	0.5391	0.4864	0.971	1.3359	0.065	8.43E-06	IMP
2	rs2711034	159530651	PKP4	A	T	0.5386	0.4858	0.9652	1.3379	0.0652	8.02E-06	IMP
3	chr3_77677315_D	77677315		I2	D	0.8496	0.9014	0.9652	0.6434	0.0991	8.57E-06	IMP
3	rs283386	115415834	GAP43	A	G	0.858	0.8958	0.7665	0.6098	0.1104	7.42E-06	IMP
4	rs57800857	140863365	MAML3	A	C	0.6855	0.6365	0.9212	1.3684	0.0707	9.16E-06	IMP
4	rs35319653	140903155	MAML3	T	C	0.3002	0.3514	0.9691	0.7328	0.0698	8.37E-06	IMP
4	chr4_140905595_I	140905595	MAML3	D	I3	0.6984	0.6467	0.9682	1.3655	0.0697	7.86E-06	IMP
4	rs12505942	140906390	MAML3	T	C	0.6996	0.6475	0.968	1.369	0.0698	6.84E-06	IMP

4	rs13136239	140908755	MAML3	A	G	0.3012	0.3534	0.9664	0.7293	0.0698	6.14E-06	IMP
4	chr4_140909205_I	140909205	MAML3	D	I9	0.686	0.6321	0.9323	1.3646	0.0703	9.75E-06	IMP
4	rs6823515	140925403	MAML3	C	G	0.3265	0.3825	0.9602	0.7372	0.0686	8.85E-06	IMP
5	rs34416917	36406618		A	G	0.1156	0.1561	0.8749	0.6316	0.1026	7.49E-06	IMP
5	rs35571570	36410724		T	C	0.1979	0.2522	0.9345	0.6981	0.0808	8.61E-06	IMP
5	rs10512650	36419793		T	C	0.1892	0.2459	0.943	0.6943	0.0816	7.89E-06	IMP
6	rs2145737	123879922	TRDN	T	C	0.6008	0.5422	0.9379	1.3526	0.0671	6.85E-06	IMP
6	rs9365376	158198680	SNX9	T	C	0.0693	0.1009	0.8188	0.5493	0.133	6.67E-06	IMP
6	rs6922614	158206364	SNX9	T	C	0.9205	0.888	0.8136	1.7794	0.1255	4.41E-06	IMP
7	rs6975373	4467479		T	C	0.1056	0.0793	0.8489	1.7113	0.1186	5.95E-06	IMP
7	rs75047832	4470076		C	G	0.1081	0.0814	0.8539	1.6776	0.1171	9.97E-06	IMP
7	rs12530503	4493125		A	C	0.9241	0.9495	0.9481	0.5499	0.1344	8.58E-06	IMP
7	rs114497090	19217524		A	G	0.0151	0.005	0.815	6.1683	0.4103	9.25E-06	IMP
7	chr7_27669577_D	27669577		I5	D	0.3572	0.2951	0.9038	1.3789	0.0718	7.68E-06	IMP
7	chr7_76213662_D	76213662		D	I4	0.229	0.189	0.8719	1.4694	0.084	4.63E-06	IMP
8	rs11784341	96957730	RP11-31K23.1	T	C	0.0245	0.0118	0.6765	4.2643	0.3038	1.81E-06	IMP
8	rs140121824	96958935	RP11-31K23.1	A	C	0.0245	0.0118	0.6765	4.2643	0.3038	1.81E-06	IMP
8	rs150918060	96966136		A	T	0.0243	0.0119	0.6873	4.0694	0.2994	2.77E-06	IMP
8	rs149724328	96977529		A	G	0.0239	0.012	0.7081	3.7974	0.293	5.27E-06	IMP
8	rs183820757	96983770		T	C	0.0242	0.0121	0.7254	3.5986	0.2882	8.85E-06	IMP
9	rs7859734	89562354	GAS1	T	C	0.3234	0.3899	0.9284	0.7309	0.0699	7.34E-06	IMP
10	rs184224980	12665138	CAMK1D	T	C	0.7877	0.8293	0.6115	0.6174	0.1039	3.44E-06	IMP
10	rs12768957	82187293	FAM213A	A	G	0.1559	0.1232	0.9723	1.5119	0.0928	8.44E-06	IMP
10	rs7074356	82191334	FAM213A	A	G	0.1586	0.1251	0.9643	1.5278	0.0926	4.75E-06	IMP

10	rs35828718	82193877		A	G	0.156	0.1237	0.9611	1.5096	0.0932	9.98E-06	IMP
12	rs113507694	7866609	DPPA3	A	G	0.9427	0.9654	0.591	0.3524	0.2006	2.01E-07	IMP
12	chr12_7867117_I	7867117	DPPA3	I2	D	0.1707	0.1402	0.6188	1.6577	0.111	5.27E-06	IMP
12	rs144017301	78915948	RP11-171L9.1	T	C	0.8577	0.8111	0.9081	1.5204	0.0918	5.03E-06	IMP
12	rs146457125	78916053	RP11-171L9.1	A	T	0.8575	0.8107	0.9091	1.5209	0.0917	4.84E-06	IMP
12	rs11110253	78918441	RP11-171L9.1	A	G	0.8705	0.8255	0.8742	1.5641	0.0973	4.32E-06	IMP
12	rs11110304	78928494		T	C	0.8494	0.8049	0.9059	1.4918	0.09	8.71E-06	IMP
13	rs675828	103350733	METTL21C	A	G	0.4471	0.5172	0.9842	0.7496	0.0644	7.63E-06	IMP
13	rs9520569	108402551	FAM155A	T	C	0.7808	0.7353	0.8278	1.4449	0.0824	7.86E-06	IMP
14	rs187058036	87892807	RP11-594C13.1	T	C	0.9611	0.9766	0.7328	0.3808	0.2159	7.74E-06	IMP
17	rs76695126	9426724	STX8	T	C	0.486	0.44	0.9092	1.3671	0.0674	3.47E-06	IMP
17	rs1114532	9434564	STX8	T	C	0.5205	0.565	0.9992	0.7517	0.0642	8.83E-06	GT
17	chr17_9437507_D	9437507	STX8	D	I3	0.4379	0.4772	0.804	0.7232	0.0719	6.54E-06	IMP
17	rs4791850	9439561	STX8	T	C	0.5222	0.5665	0.9862	0.7511	0.0647	9.57E-06	IMP
17	rs1985762	48404076		T	C	0.1225	0.0832	0.814	1.6842	0.1164	7.56E-06	IMP
19	rs12327596	54192903	MIR526B	A	G	0.5877	0.6468	0.9698	0.7412	0.0666	6.90E-06	IMP
19	rs8104156	54193170	MIR526B	T	G	0.3995	0.3394	0.9527	1.3601	0.0677	5.47E-06	IMP
19	rs1978714	54194677	MIR526B	T	C	0.5168	0.5755	0.9689	0.7479	0.0653	8.52E-06	IMP
19	rs7248039	54196520	MIR525	A	G	0.5185	0.577	0.9765	0.7495	0.065	9.32E-06	IMP
19	rs7251482	54196955	MIR525	A	G	0.5197	0.5789	0.9734	0.747	0.0652	7.65E-06	IMP
19	rs10413288	54197633	MIR525	A	G	0.5175	0.5767	0.9793	0.7481	0.0649	7.88E-06	GT
19	rs8100449	54199017	MIR525	T	C	0.5362	0.5955	0.94	0.7405	0.0665	6.25E-06	IMP
19	rs8099860	54199251	MIR525	T	C	0.4812	0.4218	0.9741	1.3388	0.0651	7.51E-06	IMP
19	rs1989486	54200619	MIR525	A	G	0.477	0.4181	0.9616	1.3469	0.0657	5.82E-06	IMP

19	rs10417113	54201088	MIR525	T	C	0.5184	0.5773	0.9732	0.7467	0.0652	7.39E-06	IMP
19	rs10417538	54201286	MIR525	T	C	0.5183	0.5773	0.9731	0.7464	0.0652	7.24E-06	IMP
19	chr19_54202088_I	54202088	RPS9	I5	D	0.4321	0.3786	0.836	1.3694	0.071	9.61E-06	IMP

Supplementary Table 3: Overview of Gene Set Excytosis (GO: 0006887)

SNP = single nucleotide polymorphism; BP = Base pair position; CHR = chromosome

Significant Genes	*SNP*	*BP*	*P-Value*	*CHR*	*Gene Start*	*Gene End*
YKT6	rs1004558	44240407	7,08E-05	7	44240567	44253893
NLGN1	rs9821957	173858380	4,30E-04	3	173114074	174004434
LIN7A	rs17662201	81220111	6,04E-04	12	81186299	81331704
RABEPK	rs393721	127985775	0,0045	9	127962821	127996437
RIMS1	rs6931045	72631747	0,0069	6	72596406	73112845
SYT1	rs10861133	79294033	0,0111	12	79257773	79845788
PKDREJ	rs41302599	46657308	0,0126	22	46651560	46659219
CADPS	rs11708441	62548081	0,0146	3	62384022	62861054
AKAP3	rs2074866	12680454	0,0151	7	4724674	4758213
SCIN	rs55903142	160514	0,0161	17	12610203	12693228
RPH3AL	rs1990313	4736086	0,0190	12	62293	236045
CPLX1	rs6816868	779670	0,0253	4	778745	819986
CCL8	rs8075846	32632483	0,0367	17	32646055	32648421
SEPT05	rs1557627	19677207	0,0380	22	19701987	19712295
RAB26	rs36232	2199788	0,0397	16	2190804	2204166
Non-Significant Genes						
SCRN1	rs1049394	29960804	0,0554	7	29959719	30029905
CPLX2	rs1544923	175268492	0,0563	5	175223313	175311023
ARFGEF2	rs1997850	47526360	0,1248	20	47538427	47653230
CCL5	rs1065341	34198593	0,1940	17	34198495	34207797
ARFGEF1	rs10957384	68219564	0,2926	8	68085747	68255912
VAMP3	rs2071987	7834026	0,4460	1	7831329	7841492
CCL3	rs9972960	34420079	0,5845	17	34415602	34417515
Genes without mapped variants						
SYTL4	No Variant					
VTI1B	No Variant					
SYTL4	No Variant					

Supplementary Table 4: Association of polygenic risk scores for Bipolar Disorder (BIP), Schizophrenia (SCZ), and Major Depressive Disorder (MDD) with Borderline Personality Disorder case control status

R^2 = Nagelkerke's R^2, N SNPs = Number of included SNPs

P-value threshold	*BIP* *N SNPs*	 *R^2*	 *P*	*SCZ* *N SNPs*	 *R^2*	 *P*	*MDD* *N SNPs*	 *R^2*	 *P*
$5*10^{-8}$	17	6.09E-05	0.74481	108	0.00493	0.00337	0	-	-
0.000001	73	0.00031	0.46040	246	0.01009	2.70E-05	5	1.49E-05	0.87201
0.0001	556	0.00310	0.02005	1,278	0.02211	4.78E-10	125	0.00012	0.65288
0.001	2,180	0.00497	0.00324	3,419	0.02993	4.04E-13	784	0.00468	0.00431
0.01	9,408	0.00670	0.00063	10,649	0.02929	7.23E-13	5,010	0.01211	4.20E-06
0.05	27,346	0.00691	0.00051	24,741	0.02714	5.04E-12	16,687	0.02115	1.14E-09
0.1	43,365	0.00731	0.00036	35,710	0.02757	3.40E-12	27,188	0.01736	3.52E-08
0.2	67,753	0.00856	0.00011	51,621	0.02765	3.18E-12	43,315	0.01841	1.36E-08
0.5	116,624	0.00778	0.00023	80,828	0.02993	4.03E-13	73,493	0.01515	2.64E-07
1	154,455	0.00670	0.00063	101,718	0.03062	2.17E-13	94,078	0.01511	2.73E-07

Consortium Memberships

Bipolar Disorders Working Group of the Psychiatric Genomics Consortium (Bipolar disorder)

Devin Absher, Rolf Adolfsson, Ingrid Agartz, Huda Akil, Martin Alda, Ney Alliey-Rodriguez, Ole A Andreassen, Adebayo Anjorin, Lena Backlund, Judith A Badner, Jack D Barchas, Nicholas J Bass, Michael Bauer, Bernhard T Baune, Frank Bellivier, Sarah E Bergen, Wade Berrettini, Andrew Bethell, Joanna M Biernacka, Douglas Blackwood, Cinnamon S Bloss, Michael Boehnke, Marco P Boks, Gerome Breen, René Breuer, William E Bunney, Margit Burmeister, William Byerley, Pablo Cervantes, Kim Chambert, Sven Cichon, David A Collier, Aiden Corvin, William Coryell, Nick Craddock, David W Craig, Cristiana Cruceanu, David Curtis, Piotr M Czerski, Anders Dale, Franziska Degenhardt, Jurgen Del-Favero, Arianna Di Florio, Srdjan Djurovic, Amanda Dobbyn, Howard J Edenberg, Amanda Elkin, Torbjørn Elvsåshagen, Bruno Etain, Chun C Fan, Anne Farmer, Manuel Ferreira, Nicol Ferrier, Sascha Fischer, Matthew Flickinger, Tatiana Foroud, Andreas J Forstner, Liz Forty, Josef Frank, Christine Fraser, Nelson Freimer, Louise Frisén, Mark A Frye, Janice Fullerton, Elliot S Gershon, Michael Gill, Scott Gordon, Katherine Gordon-Smith, Elaine K Green, Tiffany A Greenwood, Maria Grigoroiu-Serbanescu, Maria Grigoroiu-Serbanescu, Detelina Grozeva, Weihua Guan, Hugh Gurling, Jose Guzman-Parra, Marian L Hamshere, Joanna Hauser, Martin Hautzinger, Stefan Herms, Maria Hipolito, Per Hoffmann, Peter A Holmans, Laura Huckins, Christina Hultman, Stéphane Jamain, Ian R Jones, Lisa Jones, Anders Juréus, René Kahn, Radhika Kandaswamy, Robert Karlsson, John R Kelsoe, James L Kennedy, George Kirov, Sarah Kittel-Schneider, Sarah Knott, Manolis Kogevinas, Daniel L Koller, Ralph Kupka, Mikael Landén, Niklas Langstrom, Mark Lathrop, Jacob Lawrence, William B Lawson, Markus Leber, Marion Leboyer, Shawn Levy, Jun Li, Qingqin Li, Paul Lichtenstein, Jolanta Lissowska, Chunyu Liu, Falk W Lohoff, Susanne Lucae, Anna Maaser, Pamela B Mahon, Wolfgang Maier, Ulrik Malt, Nicholas Martin, Manuel Mattheisen, Keith Matthews, Morten Mattingsdal, Fermin Mayoral-Cleries, Susan McElroy, Kevin McGhee, Peter McGuffin, Melvin G McInnis, Andrew McIntosh, James D McKay, Alan W McLean, Francis J McMahon, Andrew McQuillin, Sarah Medland, Ingrid Melle, Fan Meng, Vihra Milanova, Philip B Mitchell, Grant W Montgomery, Jennifer Moran, Gunnar Morken, Derek Morris, Valentina Moskvina, Thomas W Mühleisen, Walter J Muir, Bertram Müller-Myhsok, Richard M Myers, Caroline M Nievergelt, Ivan Nikolov, Vishwajit Nimgaonkar, Annelie Nordin Adolfsson, Markus M Nöthen, John I Nurnberger, Evaristus A Nwulia, Michael C O'Donovan, Colm O'Dushlaine, Ketil J Oedegaard, Loes Olde Loohuis, Roel Ophoff, Anil Ori, Lilijana Oruc, Urban Osby, Michael J Owen, Sara Paciga, Carlos Pato, Roy Perlis, Amy Perry, Andrea Pfennig, Benjamin S Pickard, James B Potash, Peter Propping, Shaun Purcell, Emma Quinn, Soumya Raychaudhuri, Eline Regeer, Andreas Reif, Céline S Reinbold, John Rice, Marcella Rietschel, Fabio Rivas, Guy A Rouleau, Douglas Ruderfer, Martin Schalling, Alan F Schatzberg, William A Scheftner, Peter R Schofield, Nicholas J Schork, Thomas G Schulze, Johannes Schumacher, Markus Schwarz, Ed Scolnick, Laura J Scott, Paul D Shilling, Pamela Sklar, Erin N Smith, Jordan Smoller, Annet Spijker, David St. Clair, Eli Stahl, Michael Steffens, Eystein Stordal, John Strauss, Fabian Streit, Jana Strohmaier, Patrick Sullivan, Szabolcs Szelinger, Pippa Thomson, Robert C Thompson, Jens Treutlein, Gustavo Turecki, Arne Vaaler, John B Vincent, Yunpeng Wang, Stanley J Watson, Thomas F Wienker, Richard Williamson, Ashley Winslow, Stephanie H Witt, Adam Wright, Hualin Xi, Simon Xi, Wei Xu, Allan H Young, Peter P Zandi, Peng Zhang, Sebastian Zöllner

Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium (Major depressive disorder)

Stephan Ripke, Manuel Mattheisen, Abdel Abdellaoui, Mark J Adams, Esben Agerbo, Tracy M Air, Till F M Andlauer, Silviu-Alin Bacanu, Marie Bækvad-Hansen, Aartjan T F Beekman, David A Bennett, Klaus Berger, Tim B Bigdeli, Jonas Bybjerg-Grauholm, Enda M Byrne, Na Cai, Enrique Castelao, Toni-Kim Clarke, Jonathan R I Coleman, CONVERGE Consortium, Baptiste Couvy-Duchesne, Nick Craddock, Udo Dannlowski, Gareth Davies, Gail Davies, EJC de Geus, Philip De Jager, Ian J Deary, Franziska Degenhardt, Nese Direk, Erin C Dunn, Erik A Ehli, Thalia C Eley, Valentina Escott-Price, Tõnu Esko, Hilary K Finucane, Andreas J Forstner, Josef Frank, Michael Gill, Scott D Gordon, Jakob Grove, Lynsey S Hall, Thomas F Hansen, Christine Søholm Hansen, Thomas F Hansen, Caroline Hayward, Andrew C Heath, Anjali K Henders, Stefan Herms, IB Hickie, Per Hoffmann, Albert Hofman, Georg Homuth, Carsten Horn, Jouke- Jan Hottenga, David Hougaard, Hailiang Huang, Marcus Ising, Rick Jansen, Eric Jorgenson, Stefan Kloiber, James A Knowles, Warren W. Kretzschmar, Jesper Krogh, Zoltán Kutalik, Maren Lang, Glyn Lewis, Yihan Li, Donald J MacIntyre, Pamela AF Madden, Jonathan Marchine, Hamdi Mbarek, Patrick McGrath, Peter McGuffin, Sarah Elizabeth Medland, Divya Mehta, Andres Metspalu, Christel M Middeldorp, Evelin Mihailov, Yuri Milaneschi, Lili Milani, Grant W Montgomery, Sara Mostafavi, Niamh Mullins, Matthias Nauck, Bernard Ng, Merete Nordentoft, Dale R Nyholt, Michael C O'Donovan, Paul F O'Reilly, Hogni Oskarsson, Michael J Owen, Sara A Paciga, Carsten Bøcker Pedersen, Marianne Giørtz Pedersen, Nancy L Pedersen, Michele L Pergadia, Roseann E. Peterson, Erik Pettersson, Wouter J Peyrot, David J Porteous, Danielle Posthuma, James B Potash, Jorge A Quiroz, John P Rice, Brien P. Riley, Margarita Rivera, Douglas M. Ruderfer, Saira Saeed Mirza, Robert Schoevers, Thomas G Schulze, Ling Shen, Jianxin Shi, Engilbert Sigurdsson, Grant C B Sinnamon, Johannes H Smit, Daniel J Smith, Jordan W Smoller, Hreinn Stephansson, Stacy Steinberg, Fabian Streit, Jana Strohmaier, Katherine E Tansey, Alexander Teumer, Wesley Thompson, Pippa A Thomson, Thorgeir E Thorgeirsson, Jens Treutlein, Maciej Trzaskowski, André G Uitterlinden, Daniel

Umbricht, Sandra Van der Auwera, Gerard van Grootheest, Albert M van Hemert, Alexander Viktorin, Henry Völzke, Yunpeng Wang, Bradley T. Webb, Myrna M Weissman, Jürgen Wellmann, Gonneke Willemsen, Stephanie H Witt, Hualin S Xi, Bernhard T Baune, Douglas H R Blackwood, Dorret I Boomsma, Anders D Børglum, Henriette N Buttenschøn, Sven Cichon, Enrico Domenici, Jonathan Flint, Hans J Grabe, Steven P Hamilton, Kenneth S Kendler, Qingqin S Li, Susanne Lucae, Patrik K Magnusson, Nicholas G Martin, Andrew M McIntosh, Ole Mors, Preben Bo Mortensen, Bertram Müller-Myhsok, Markus M Nöthen, Brenda WJH Penninx, Roy H Perlis, Martin Preisig, Marcella Rietschel, Catherine Schaefer, Jordan W Smoller, Kari Stephansson, Henning Tiemeier, Rudolf Uher, Thomas Werge, Ashley R Winslow, Gerome Breen, Douglas F Levinson, Cathryn M Lewis, Naomi R Wray, Patrick F Sullivan