

Supplementary Table 1. Single Nucleotide Polymorphisms Assessed in the WLS

Gene	Encodes	SNP	Associated disease/behavior
<i>A2M</i>	alpha-2-macroglobulin	rs669	Alzheimer's disease (1)
<i>ACVR2A</i>	activin receptor IIA	rs1424954	pre-eclampsia (2)
<i>ACVR2B</i>	activin receptor IIB	rs3749386	--
<i>ADIPOQ</i>	adiponectin, C1Q and collagen domain containing	rs1501299	diabetes II (3, 4), obesity (5, 6), breast cancer (7)
<i>ADIPOQ</i>	adiponectin, C1Q and collagen domain containing	rs2241766	diabetes II (3, 4), obesity (8), breast cancer (7)
<i>ACVRL1</i>	activin receptor-like kinase 1	rs2071219	brain arteriovenous malformations (9)
<i>APOC-3</i>	apolipoprotein C-III	rs2854116	nonalcoholic fatty liver disease (10)
<i>ApoE</i>	apolipoprotein E	rs429358	Alzheimer's disease (11, 12)
<i>ApoE</i>	apolipoprotein E	rs7412	Alzheimer's disease (11, 12)
<i>AR</i>	androgen receptor	rs6152	male pattern baldness (13)
<i>BCKDHB</i>	branched chain keto acid dehydrogenase E1, beta polypeptide	rs4502885	premature ovarian failure (14)
<i>BDNF</i>	brain-derived neurotrophic factor	rs6265	depression (15-17), alcohol dependence-related depression (18), bipolar disorder (19), schizophrenia (20), cognition (21), BMI (22)
<i>BDNF</i>	brain-derived neurotrophic factor	rs908867	antidepressant response (23)
<i>BRCA1</i>	breast cancer 1, early onset	rs1799966	breast cancer (24)
<i>BRCA2</i>	breast cancer 2, early onset homolog	rs144848	breast cancer (24)
<i>CH25H</i>	cholesterol 25-hydroxylase	rs3802657	--
<i>CHRM2</i>	cholinergic receptor, muscarinic 2	rs2061174	alcohol dependence, depression (25)
<i>CHRM2</i>	cholinergic receptor, muscarinic 2	rs8191992	cognition (26)
<i>COMT</i>	catechol-O-methyltransferase	rs4680	ADHD (27), substance abuse (28-31), depression (32), antidepressant response (33), bipolar disorder (34), cognition (35)
<i>CTSD</i>	cathepsin D	rs17571	Alzheimer's disease (36)
<i>CYP11A1</i>	cytochrome P450, family 11, subfamily A, polypeptide 1	rs8039957	breast cancer (37)
<i>CYP11B2</i>	cytochrome P450, family 11, subfamily B, polypeptide 2	rs1799998	stroke (38), cardiovascular disease (39)
<i>DAT1</i>	human dopamine transporter	rs11564774	ADHD (40)
<i>DAT1</i>	human dopamine transporter	rs2963238	alcohol-withdrawal seizures (41)
<i>DISC1</i>	disrupted in schizophrenia 1	rs821616	schizophrenia (42), cognitive aging (43)
<i>DRD2</i>	dopamine receptor D2	rs17529477	--
<i>DRD2/ANKK1</i>	dopamine receptor D2/ ankyrin repeat and kinase domain containing 1	rs1800497	obesity, drug addiction (44)
<i>DRD2</i>	dopamine receptor D2	rs2242592	schizophrenia (45)
<i>DRD2</i>	dopamine receptor D2	rs4245147	--
<i>DRD2</i>	dopamine receptor D2	rs6277	schizophrenia (46), PTSD (47)
<i>DRD4</i>	dopamine receptor D4	rs1800955	ADHD (48), heroine addiction (49)
<i>DTNBP1</i>	dystrobrevin-binding protein 1	rs1018381	schizophrenia (50), cognitive ability (51)
<i>DTNBP1</i>	dystrobrevin-binding protein 1	rs760761	schizophrenia (52)
<i>ESR1</i>	estrogen receptor 1	rs7761133	--
<i>ESR1</i>	estrogen receptor 1	rs3853248	--
<i>FADS2</i>	fatty acid desaturase 2	rs1535	breastfeeding & IQ (53)

<i>FADS2</i>	fatty acid desaturase 2	rs174575	breastfeeding & IQ (53)
<i>FMR1</i>	fragile X mental retardation 1	rs1805420	--
<i>FSH</i>	follicle stimulating hormone	rs6169	--
<i>FSHR</i>	follicle stimulating hormone receptor	rs6166	sterility (54), osteoporosis (55)
<i>FST</i>	follistatin	rs12152850	--
<i>FST</i>	follistatin	rs3797297	--
<i>FTO</i>	fat mass and obesity associated	rs1421085	obesity (56-58), mental disorders (59)
<i>GABBR2</i>	γ -aminobutyric acid B receptor 2	rs1435252	nicotine addiction (60)
<i>GABBR2</i>	γ -aminobutyric acid B receptor 2	rs2779562	nicotine addiction (60)
<i>GNRH1</i>	gonadotropin-releasing hormone	novel SNP	Alzheimer's disease (61)
<i>HERC</i>	hect domain and RLD 2	rs12913832	eye color (62, 63)
<i>HFE</i>	hemochromatosis	rs1799945	hemochromatosis(64)
<i>HSD17B1</i>	estradiol 17 β -dehydrogenase 1	rs12602084	steroid metabolism (65)
<i>HSD17B1</i>	estradiol 17 β -dehydrogenase 1	rs592389	vasomotor symptoms (66), cognition (67)
<i>5-HTR1A</i>	5-hydroxytryptamine (serotonin) receptor 1A	rs878567	mood disorders (68)
<i>5-HTR2A</i>	5-hydroxytryptamine (serotonin) receptor 2A	rs6312	--
<i>5-HTR2A</i>	5-hydroxytryptamine (serotonin) receptor 2A	rs6314	antidepressant response (69), bipolar disorder (70)
<i>5-HTR2A</i>	5-hydroxytryptamine (serotonin) receptor 2A	rs7997012	antidepressant response (71)
<i>5-HTR2C</i>	5-hydroxytryptamine (serotonin) receptor 2C	rs6318	bipolar disorder (72), depression (73)
<i>5-HTT</i>	5-hydroxytryptamine transporter	rs25533	antidepressant response (74)
<i>5-HTT</i>	5-hydroxytryptamine transporter	rs8076005	depressive symptoms (75)
<i>IGF1</i>	insulin-like growth factor 1	rs12313279	--
<i>IL1A</i>	interleukin 1, alpha	rs17561	chronic rhinosinusitis (76), BMI (77)
<i>IL6</i>	interleukin 6	rs1800795	arthritis (78), breast cancer (79), diabetes (80), depression (81)
<i>INHA</i>	inhibin alpha	rs2059693	testicular cancer (82)
<i>INHA</i>	inhibin alpha	rs35118453	--
<i>INHBA</i>	inhibin beta A	rs2237436	--
<i>INHBB</i>	inhibin beta B	rs11902591	--
<i>KIBRA</i>	kidney and brain protein (WWC1)	rs17070145	Alzheimer's disease (83), episodic memory (84)
<i>LEPR</i>	leptin receptor	rs1137100	diabetes II (85), atherosclerosis (86)
<i>LHR</i>	luteinizing hormone receptor	rs4073366	Alzheimer's disease (87)
<i>MAOA</i>	monoamine oxidase A	rs3788862	pain (88)
<i>OXTR</i>	oxytocin receptor	rs2254298	autism (89, 90), social loneliness (91), depressive symptoms & anxiety (92)
<i>PCK1</i>	phosphoenolpyruvate carboxykinase 1	rs707555	diabetes II (93)
<i>PGR</i>	progesterone receptor	rs1042838	ovarian cancer (94), migraine (95), menstruation (96), pregnancy loss (97)
<i>SNAP25</i>	synaptosomal-associated protein 25	rs363050	intelligence (98, 99)
<i>SSADH</i>	succinic semialdehyde dehydrogenase	rs2760118	--
<i>StAR</i>	steroidogenic acute regulatory protein	rs3990403	--
<i>TFAM</i>	transcription factor A, mitochondrial	rs1937	Alzheimer's disease (100)
<i>TFAM</i>	transcription factor A, mitochondrial	rs2306604	Parkinson's disease (101)
<i>TPH1</i>	first tryptophan hydroxylase isoform	rs1799913	heroin addiction (102)

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