

## Supplementary Material

SNP	BP (GRCh37)	CHR	MAF	P (SNP x CLES interaction)		Gene (dist to SNP)
				CLES 0 vs ≥2	Continuous	
rs3027681	111,075,945	X	0.027	1.19E-06	2.33E-05	TRPC5
rs585433	75,292,601	11	0.457	2.91E-06	4.04E-05	MAP6(5kb)
rs12268100	86,360,942	10	0.129	7.62E-06	4.60E-05	RPS3AP5(39kb)
rs17549584	103,507,608	12	0.021	7.98E-06	1.24E-05	ASCL1(153kb)
rs4865116	57,398,107	4	0.036	1.23E-05	1.67E-03	ARL9(8kb)
rs9669404	46,798,963	12	0.309	1.35E-05	1.77E-05	LOC100288798
rs17085464	27,912,201	13	0.017	1.75E-05	3.02E-06	RASL11A(64kb)
rs1206919	9,775,340	6	0.299	2.36E-05	2.05E-04	OFCC1
rs17301325	68,789,181	X	0.233	3.04E-05	4.17E-04	FAM155B(36kb)
rs13236030	124,172,590	7	0.133	3.12E-05	3.75E-05	RPS2P31(51kb)
rs12368779	1,982,151	12	0.123	3.62E-05	1.12E-04	CACNA2D4
rs11134781	172,672,585	5	0.048	5.04E-05	6.84E-04	NKX2-5(10kb)
rs4522917	187,934,682	4	0.030	5.20E-05	1.13E-03	MRPS36P2(112kb)
rs12096159	49,164,735	1	0.046	5.66E-05	3.53E-04	AGBL4
rs12909532	35,439,427	15	0.293	5.68E-05	3.25E-04	LOC390572(25kb)
rs6881493	163,615,094	5	0.425	5.81E-05	4.98E-04	LOC100507193(108kb)
rs12376088	37,597,705	9	0.297	6.51E-05	8.90E-05	TOMM5(5kb)
rs8030082	97,521,191	15	0.289	6.69E-05	3.46E-04	SPATA8(192kb)
rs7313341	113,167,134	12	0.434	7.41E-05	7.07E-03	MIR1302-1(34kb)
rs7311216	54,534,592	12	0.445	7.48E-05	2.49E-04	LOC400043(7kb)
rs7131120	85,690,012	11	0.215	8.00E-05	1.01E-03	PICALM
rs242037	3,780,337	12	0.240	8.78E-05	7.67E-04	EFCAB4B
rs2289741	41,820,200	15	0.048	9.24E-05	2.69E-03	RPAP1
rs1547189	27,665,405	13	0.191	9.32E-05	9.34E-04	USP12
rs2920692	120,265,850	2	0.019	9.36E-05	4.53E-04	SCTR
rs7302283	63,576,379	12	0.016	9.67E-05	1.51E-03	AVPR1A(29kb)
rs621514	110,733,794	1	0.353	1.07E-04	2.60E-03	SLC6A17
rs12125506	64,509,025	1	0.040	1.11E-04	1.43E-03	ROR1
rs891304	44,532,174	11	0.140	1.21E-04	8.02E-04	LOC646535(29kb)
rs10039368	136,629,854	5	0.042	1.23E-04	2.73E-03	SPOCK1
rs7861973	85,949,206	9	0.126	1.27E-04	1.74E-04	FRMD3
rs1218099	117,403,331	X	0.150	1.34E-04	3.20E-04	WDR44(76kb)
rs13357230	90,411,072	5	0.049	1.34E-04	8.53E-04	GPR98
rs4366546	18,376,194	12	0.243	1.35E-04	1.52E-02	PIK3C2G(38kb)
rs12350378	26,165,173	9	0.108	1.37E-04	1.28E-04	LOC100506422(46kb)
rs13402330	103,512,292	2	0.200	1.39E-04	6.59E-04	TMEM182(78kb)
rs16871518	3,254,413	5	0.264	1.46E-04	5.13E-04	LOC285577(162kb)
rs2838106	43,150,474	21	0.317	1.46E-04	1.32E-03	RIPK4(9kb)
rs1415823	109,579,442	13	0.033	1.48E-04	2.59E-04	MYO16
rs12598602	51,903,866	16	0.336	1.49E-04	8.96E-04	LOC388276(156kb)
rs9903232	55,964,616	17	0.458	1.53E-04	3.17E-04	CUEDC1
rs2242761	37,024,845	21	0.338	1.58E-04	6.07E-04	EZH2P1(52kb)
rs12669446	39,046,908	7	0.357	1.68E-04	1.55E-04	POU6F2
rs2526833	17,723,126	1	0.354	1.68E-04	1.19E-04	PADI6
rs9303174	3,342,002	17	0.333	1.69E-04	2.00E-04	SPATA22(1kb)

**Supplementary Table 2. Genes annotated with molecular function "calcium channel activity" (GO:0005262)**

<b>Symbol</b>	<b>Gene</b>
CACNA2D2	calcium channel, voltage-dependent, alpha 2/delta subunit 2
<b>CACNA2D4</b>	<b>calcium channel, voltage-dependent, alpha 2/delta subunit 4</b>
CACNB2	calcium channel, voltage-dependent, beta 2 subunit
CALHM1	calcium homeostasis modulator 1
CATSPER2..4	cation channels, sperm associated 2-4
CHRNA9..10	cholinergic receptors, nicotinic, alpha 9-10
CLCA3P	chloride channel accessory 3 (pseudogene)
CUL5	cullin 5
<b>EFCAB4B*</b>	<b>EF-hand calcium binding domain 4B</b>
GPM6A	glycoprotein M6A
<b>GPR98*</b>	<b>G protein-coupled receptor 98</b>
GRIN1	glutamate receptor, ionotropic, N-methyl D-aspartate 1
GRIN2A..2B	glutamate receptors, ionotropic, N-methyl D-aspartate 2A-2B
GRIN3A..3B	glutamate receptors, ionotropic, N-methyl-D-aspartate 3A-3B
HTR2B	5-hydroxytryptamine (serotonin) receptor 2B
ITPR1	inositol 1,4,5-triphosphate receptor, type 1
ITPR3	inositol 1,4,5-triphosphate receptor, type 3
MS4A2	membrane-spanning 4-domains, subfamily A, member 2
<b>PADI6*</b>	<b>peptidyl arginine deiminase, type VI</b>
PKD2	polycystic kidney disease 2 (autosomal dominant)
SLC24A2	solute carrier family 24 (sodium/potassium/calcium exchanger), member 2
TMEM37	transmembrane protein 37
TPCN1..2	two pore segment channels 1-2
TRPA1	transient receptor potential cation channel, subfamily A, member 1
TRPC1	transient receptor potential cation channel, subfamily C, member 1
TRPC3	transient receptor potential cation channel, subfamily C, member 3
<b>TRPC5</b>	<b>transient receptor potential cation channel, subfamily C, member 5</b>
TRPC7	transient receptor potential cation channel, subfamily C, member 7
TRPM1..8	transient receptor potential cation channel, subfamily M, members 1-8
TRPV1..6	transient receptor potential cation channel, subfamily V, members 1-6

Genes in **bold** are among the AAO/life events interaction results we report here

\* = genes from overlapping molecular function "calcium ion binding" (GO:0005509)

INRICH p-value=0.001 for GO:0005262; p=0.02 for GO:0005509

## CHILDHOOD LIFE EVENTS SCALE

CLES  
15-Feb-2005

Page 1

DATE:    —   —      
Month Day Year

SUBJECT ID											
SITE ID			—	FAMILY ID				—	INDIVIDUAL ID		
<input type="text"/>	<input type="text"/>	<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>

Please look at the following events that may occur during childhood. Did you have any of these things happen to you between the ages of **3 and 12**? Put one check mark per event in the box to indicate your answer.

Event	No	Yes	Yes, but at another age	Comments
1. Death of a parent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Death of a sister or brother	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Beginning of a chronic illness (e.g., rheumatoid arthritis, juvenile diabetes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Hospitalized for a long period (a month or more)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Permanent injury or disability (e.g., loss of a limb)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Were you physically abused by any one?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>If yes to 6:</b>				
6.a) Did you require medical treatment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.b) Was this reported to the authorities (e.g., police, social services)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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7. Did someone threaten to seriously injure or kill you?             

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**If yes to 7:**  
7.a) Did they use a weapon?             

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8. Did you have to leave your home unexpectedly (e.g., foreclosure by the bank)?             

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9. Was your life seriously changed unexpectedly (e.g., loss of parent's job)?             

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