Supplementary Figures



Figure S1: Results for the 450K EWAS for the EPDS continuous variable. The EPIC EWAS was adjusted for all covariates. A) Plot A is the QQ-plot for the unadjusted p-values. B) Plot B is the manhattan plot for the unadjusted p-values. The highlighted site is cg22798925. C) Plot C is the QQ-plot for the adjusted p-values using Bacon and Cate. D) Plot D is the manhattan plot for adjusted p-values using Bacon and Cate. The highlighted site is cg22798925.



Figure S2: Results for the 450K EWAS for the BDI-II continuous variable. The EPIC EWAS was adjusted for all covariates. A) Plot A is the QQ-plot for the unadjusted p-values. B) Plot B is the manhattan plot for the unadjusted p-values. The highlighted site is cg22798925. C) Plot C is the QQ-plot for the adjusted p-values using Bacon and Cate. D) Plot D is the manhattan plot for adjusted p-values using Bacon and Cate. The highlighted site is cg22798925.



Figure S3: Results for the EPIC EWAS for the EDPS continuous variable. The EPIC EWAS was adjusted for all covariates. A) Plot A is the QQ-plot for the unadjusted p-values. B) Plot B is the manhattan plot for the unadjusted p-values. The highlighted site is cg22798925. C) Plot C is the QQ-plot for the adjusted p-values using Bacon and Cate. D) Plot D is the manhattan plot for adjusted p-values using Bacon and Cate. The highlighted site is cg22798925.



Figure S4: Results for the EPIC EWAS for the BDI-II continuous variable. The EPIC EWAS was adjusted for all covariates. A) Plot A is the QQ-plot for the unadjusted p-values. B) Plot B is the manhattan plot for the unadjusted p-values. The highlighted site is cg22798925. C) Plot C is the QQ-plot for the adjusted p-values using Bacon and Cate. D) Plot D is the manhattan plot for adjusted p-values using Bacon and Cate. The highlighted site is cg22798925.



S5: Comparison between the p-values and beta estimates for the EPDS and BDI-II continuous variables from the meta-analysis. The meta-analysis was adjusted for all covariates. A) Plot A is for the p-values between the EPDS and BDI-II continuous variables below a threshold of 5e-04. B) Plot B is for the beta estimates per IQR for the EPDS and BDI-II continuous variables. The plotted values are the beta estimates divided by the IQR to account for the different ranges between the EPDS and BDI-II scales.



Figure S6: Results for the 450K EWAS for the EPDS 10 threshold variable. The EPIC EWAS was adjusted for all covariates. A) Plot A is the QQ-plot for the unadjusted p-values. B) Plot B is the manhattan plot for the unadjusted p-values. The highlighted site is cg22798925. C) Plot C is the QQ-plot for the adjusted p-values using Bacon and Cate. D) Plot D is the manhattan plot for adjusted p-values using Bacon and Cate. The highlighted site is cg22798925.



Figure S7: Results for the 450K EWAS for the BDI-II 20 threshold variable. The EPIC EWAS was adjusted for all covariates. A) Plot A is the QQ-plot for the unadjusted p-values. B) Plot B is the manhattan plot for the unadjusted p-values. The highlighted site is cg22798925. C) Plot C is the QQ-plot for the adjusted p-values using Bacon and Cate. D) Plot D is the manhattan plot for adjusted p-values using Bacon and Cate. The highlighted site is cg22798925.



Figure S8: Results for the 450K EWAS for the BDI-II 14 threshold variable. The EPIC EWAS was adjusted for all covariates. A) Plot A is the QQ-plot for the unadjusted p-values. B) Plot B is the manhattan plot for the unadjusted p-values. The highlighted site is cg22798925. C) Plot C is the QQ-plot for the adjusted p-values using Bacon and Cate. D) Plot D is the manhattan plot for adjusted p-values using Bacon and Cate. The highlighted site is cg22798925.



Figure S9: Results for the 450K EWAS for the BDI-II 20 threshold variable. The EPIC EWAS was adjusted for all covariates. A) Plot A is the QQ-plot for the unadjusted p-values. B) Plot B is the manhattan plot for the unadjusted p-values. The highlighted site is cg22798925. C) Plot C is the QQ-plot for the adjusted p-values using Bacon and Cate. D) Plot D is the manhattan plot for adjusted p-values using Bacon and Cate. The highlighted site is cg22798925.



Figure S10: Results for the EPIC EWAS for the EPDS 10 threshold variable. The EPIC EWAS was adjusted for all covariates. A) Plot A is the QQ-plot for the unadjusted p-values. B) Plot B is the manhattan plot for the unadjusted p-values. The highlighted site is cg22798925. C) Plot C is the QQ-plot for the adjusted p-values using Bacon and Cate. D) Plot D is the manhattan plot for adjusted p-values using Bacon and Cate. The highlighted site is cg22798925.



Figure S11: Results for the EPIC EWAS for the EPDS 13 threshold variable. The EPIC EWAS was adjusted for all covariates. A) Plot A is the QQ-plot for the unadjusted p-values. B) Plot B is the manhattan plot for the unadjusted p-values. The highlighted site is cg22798925. C) Plot C is the QQ-plot for the adjusted p-values using Bacon and Cate. D) Plot D is the manhattan plot for adjusted p-values using Bacon and Cate. The highlighted site is cg22798925.



Figure S12: Results for the EPIC EWAS for the BDI-II 14 threshold variable. The EPIC EWAS was adjusted for all covariates. A) Plot A is the QQ-plot for the unadjusted p-values. B) Plot B is the manhattan plot for the unadjusted p-values. The highlighted site is cg22798925. C) Plot C is the QQ-plot for the adjusted p-values using Bacon and Cate. D) Plot D is the manhattan plot for adjusted p-values using Bacon and Cate. The highlighted site is cg22798925.



Figure S13: Results for the EPIC EWAS for the BDI-II 20 threshold variable. The EPIC EWAS was adjusted for all covariates. A) Plot A is the QQ-plot for the unadjusted p-values. B) Plot B is the manhattan plot for the unadjusted p-values. The highlighted site is cg22798925. C) Plot C is the QQ-plot for the adjusted p-values using Bacon and Cate. D) Plot D is the manhattan plot for adjusted p-values using Bacon and Cate. The highlighted site is cg22798925.



Figure S14: Results for the meta-analysis for the BDI-II continuous variable. The metaanalysis was adjusted for all covariates and the p-values were adjusted using Bacon and Cate prior to the meta-analysis. A) Plot A is the QQ-plot for the p-values. B) Plot B is the manhattan plot for the p-values. The highlighted site is cg22798925.



Figure S15: Results for the meta-analysis for the BDI-II 14 threshold variable. The metaanalysis was adjusted for all covariates and the p-values were adjusted using Bacon and Cate prior to the meta-analysis. A) Plot A is the QQ-plot for the p-values. B) Plot B is the manhattan plot for the p-values. The highlighted site is cg22798925.



Figure S16: Results for the meta-analysis for the BDI-II 20 threshold variable. The metaanalysis was adjusted for all covariates and the p-values were adjusted using Bacon and Cate prior to the meta-analysis. A) Plot A is the QQ-plot for the p-values. B) Plot B is the manhattan plot for the p-values. The highlighted site is cg22798925.



Figure S17: Comparison between the p-values and beta estimates for the EPDS and BDI-II continuous variables from the EPIC EWAS. The EPIC EWAS was adjusted for all covariates. A) Plot A is for the p-values between the EPDS and BDI-II continuous variables below a threshold of 5e-04. B) Plot B is for the beta estimates per IQR for the EPDS and BDI-II continuous variables. The plotted values are the beta estimates divided by the IQR to account for the different ranges between the EPDS and BDI-II scales.



Figure S18: CoMET results for cg22798925. The CoMET results were obtained using p-values from the meta-analysis for the EPIC continuous variable while adjusting for all covariates. The CpG sites include sites 5000 bp upstream and downstream cg22798925.

cg04859497 10 9 8 -log10(P-value) 7 6 5 4 3 2 1 0 79918818 bp 79928818 bp CTNNA2 ENSEMBL Genes CG Island Broad ChromHMM DNase Clusters Regulation ENSEMBL SNP UCSC 79918818 bp 79928818 bp cg04859497 cg12254668 cg09402485 cg10228677 Physical Distance: 10 kb Correlation Matrix Map Type: Spearman CpG 0.6 0.2 -0.2 -0.6 -1 1 cg04859497 .

Figure S19: CoMET results for cg04859497. The CoMET results were obtained using p-values from the EPIC EWAS for the BDI-II 20 threshold variable while adjusting for all covariates. The CpG sites include sites 5000 bp upstream and downstream cg04859497.



Figure S20: CoMET results for cg27278221. The CoMET results were obtained using p-values from the EPIC EWAS for the BDI-II 14 threshold variable while adjusting for all covariates. The CpG sites include sites 5000 bp upstream and downstream cg27278221.





Figure S21: CoMET results for DMR chr18:67069959-67070461. The CoMET results were obtained using p-values from the meta-analysis for the EPDS threshold-13 variable while adjusting for all covariates.



Figure S22: CoMET results for DMR chr8:70378380-70378994. The CoMET results were obtained using p-values from the meta-analysis for the BDI-II threshold-20 variable while adjusting for all covariates.



Figure S23: CoMET results for DMR chr7:155174726-155175340. The CoMET results were obtained using p-values from the meta-analysis for the BDI-II continuous variable while adjusting for all covariates.

CpG Site		[95% CI]
cg00995180	H	-0.0002 [-0.0005, -0.0000]
cg10913211 cm24024272		0.0003 [0.0004, 0.0006]
cg21621212		0.0001 0.0005 0.0001
cn27484541		0.0001 F-0.0002, 0.00031
ca05779088		0.0001 [-0.0003, 0.0006]
ca09373350		0.0000 (-0.0009, 0.0009)
cg17658854		-0.0001 (-0.0006, 0.0004)
cg20782596		-0.0000 [-0.0003, 0.0002]
cg24276988	<u>→ ÷ →</u>	-0.0000 [-0.0003, 0.0002]
cg22741626	H	0.0005 [-0.0001, 0.0011]
cg18997188	H	0.0003 [-0.0004, 0.0009]
cg20213508		0.0000 [-0.0006, 0.0007]
cg26791489		0.0001 [-0.0006, 0.0008]
0004773428		-0.0002 [-0.0010, 0.0000]
cg11357538		-0.0004 (-0.0008, 0.0001)
cn20008140		0.0002 (-0.0008, 0.0011)
cg11480267		0.0009 (-0.0006, 0.0024)
cg10011623		0.0003 [-0.0002, 0.0008]
cg01748573		-0.0001 [-0.0007, 0.0005]
cg17334845	→ →→→	-0.0000 [-0.0004, 0.0004]
cg26767990		-0.0002 [-0.0007, 0.0003]
cg22407822		0.0006 [-0.0001, 0.0012]
CG07341934		0.0000 [-0.0004, 0.0004]
cgu2107716		-0.0000 [-0.0005, 0.0004]
cm25308079	·	0.0003 (-0.0000, -0.0005)
cg09772382		0.0000 [-0.0002, 0.0002]
cg14263118		0.0001 (-0.0004, 0.0005)
cg11244758		0.0002 [-0.0002, 0.0006]
cg05926269	H	-0.0001 [-0.0005, 0.0004]
cg03821543	H	0.0001 [-0.0004, 0.0006]
cg01538522	H	0.0001 [-0.0003, 0.0005]
cg00267746		-0.0001 [-0.0006, 0.0004]
cg03837903		0.0009 [-0.0000, 0.0018]
cg23159236		0.0004 [-0.0003, 0.0012]
cg22736925		0.0001 (-0.0003 - 0.0006)
en27027803		0.0002 (-0.0003, 0.0007)
ca08997444		0.0002 (-0.0003, 0.0006)
cg05960039		0.0001 [-0.0002, 0.0005]
cg09604333		-0.0001 [-0.0004, 0.0002]
cg06047881		-0.0001 [-0.0006, 0.0004]
cg20018057		-0.0001 [-0.0005, 0.0004]
cg10748817	⊨i	-0.0000 [-0.0007, 0.0006]
cg25963380		0.0002 [-0.0012, 0.0016]
cg03264550		0.0002 [-0.0010, 0.0013]
cg25130962 cg14104560	· · · · · · · · · · · · · · · · · · ·	0.0000 [-0.0000, 0.0000]
cg14104362		0.0001 [-0.0005, 0.0002]
cg10708739	<u> </u>	-0.0002 [-0.0001, 0.0004]
cn10144604		0.0000 [-0.0001, 0.0001]
cq19116006	н	-0.0000 [-0.0000, 0.0000]
cg00466827	é.	0.0000 [-0.0000, 0.0001]
cg18300848	ni i	-0.0000 [-0.0001, 0.0000]
cg07516978	H-1	-0.0000 [-0.0001, 0.0001]
cg13231951	H ²	-0.0000 [-0.0000, 0.0000]
cg07824914	H=4	-0.0001 [-0.0001, 0.0000]
cg12372477	H-4	-0.0001 [-0.0002, 0.0000]
cg22885821	- <u></u> -	-0.0000 [-0.0002, 0.0001]
0921222634	N	0.0000 [-0.0000, 0.0000]
cg153022778		0.0000 [0.0001, 0.0001]
ca16993684	<u>.</u>	-0.0000 [-0.0000, 0.0000]
ca18668503		0.0000 (-0.0000, 0.0001)
cg09598225		-0.0001 [-0.0002, 0.0000]
cg10003667	E4	-0.0000 [-0.0001, 0.0000]
cg06147822	H	0.0000 [-0.0000, 0.0001]
cg13895966	174 J	0.0000 [-0.0001, 0.0001]
cg08140255	h	0.0001 [-0.0001, 0.0002]
cg06044900		-0.0000 [-0.0001, 0.0000]
co18871179		0.0001[0.0004, 0.0006]
AR 1996 1110		a nana ha unana' a nanad
	•	
	-0.002 -0.001 0 0.001 0.002 0.003	
	Effect Size	

Figure S24: Effect size per IQR for CpG sites surrounding cg22798925. CpG sites include sites 5000 bps upstream and downstream cg22798925. Effect sizes were obtained through the meta-analysis for the EPDS continuous depression variable.

Effect Size per IQR

CpG Site

Supplementary Tables

CpGs Effect chr1: 201951162- 201951234 2 4.30E-03 0.0013 RNPEP-001, RNPEP-003, RNPEP-004, RNPEP-005, L105, SPE-03 chr13: 47472050- chr13: 47472050- chr13: 47472050- chr13: 47472050- chr13: 47472050- chr13: 46019006- chr13: 67069959- chr13: 689988- chr13: 67069959- fet -1.16E-05 -0.0012 HTR2A-001, HTR2A-202, DHRS4-202, DHRS4-202, DHRS4-202, DHRS4-005, DHRS4-006, DHRS4-005, DHRS4-007, DHRS4-006, DHRS4-006, DHRS4-007, DHRS4-006, DHRS4-006, DHRS4-007, DHRS4-006, DHRS4-005, DHRS4-007, DHRS4-006, DHRS4-003, RPNO-0007, Chr13: 6899085- c01 1.16E-05 -0.0032 NA chr13: r67069959- chr13: 18698825- chr13: 18	DMR	#	P-value	Max	Overlapping Promoters
chr1: 201951162- 201951234 2 4.30E-03 0.0013 RNPEP-001, RNPEP-003, RNPEP-008, RNPEP- 002, RNPEP-007, RNPEP-009, RNPEP-005, RNPEP-009, RNPEP-009, RNPEP-005, RNPEP-009, RNPEP-009 chr1: 55035183- 55035748 5 1.37E-03 -0.0012 EFNA4-002, EFNA3-001, EFNA3-202 chr10: 91296252- 94180753 3 4.86E-03 -0.0021 SLC16A12-201, SLC16A12-001 oftr1: 11249659- 9482085 5 5.96E-03 -0.0013 MARK2P9-001 chr10: 94820376- 9482085 5 5.96E-03 -0.0022 CV26C1-001, RP11-348112.2-001 chr11: 11249659- 9482085 5 7.95E-03 -0.0022 POU2AF1-001, POU2AF1-002, POU2AF1-003 chr12: 47472050- 47472429 11 5.96E-03 -0.0018 HTR2A-001, HTR2A-201, HTR2A-202 chr13: 47472050- 47472429 12 4.43E-08 -0.0019 DHRS4-001, DHRS4-002, DHRS4-A51- 003, DHRS4-005, DHRS4-A51- 003, DHRS4-005, DHRS4-007, DHRS4-007, DHRS4-005, DHRS4-007, DHRS4-006 chr13: 58195808- 46019184 4 1.11E-05 -0.0032 NA 88195247 5 7.14E-03 0.0005 PNPO-001, ALOX12-003, AC003665.1-004, PNPO-007, DURS4-2002, PNPO-002, PNPO-003, PNPO-003, PNPO-004, PNPO-007, PNPO-003, PNPO-003, RP1-589P10.5- 001		CpGs		Effect	
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24423864 203, DHRS4-001, DHRS4-003, DHRS4-AS1- 004, DHRS4-204, DHRS4-004, DHRS4-AS1- 003, DHRS4-AS1-005, DHRS4-AS1-002, DHRS4-AS1-007, DHRS4-005, DHRS4-007, DHRS4-006 chr15: 98195808- 98196247 4 1.11E-05 -0.0032 NA chr17: 46019006- 46019184 5 7.14E-03 0.0005 PNPO-001, AC003665.1-003, AC003665.1- 002, PNPO-002, AC003665.1-001, PNPO-201, PNPO-202, PNPO-003, PNPO-004, PNPO- 008, PNPO-005, AC003665.1-004, PNPO-007 chr17: 6899085- 6899888 12 1.36E-04 -0.0033 ALOX12-001, ALOX12-003, RP11-589P10.5- 001 chr18: 67069959- 6 6 4.41E-10 -0.0026 DOK6-001 chr19: 18698825- 9 9 1.46E-05 -0.0034 C19orf60-001, C19orf60-002, C19orf60-007, C19orf60-003, C19orf60-006, C19orf60-004, C19orf60-003, C19orf60-006 chr2: 1 08994116- 108994528 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 chr4: 74847710- 74848016 7 7 7.14E-03 0.0028 PF4-001	chr14: 24422368-	12	4.43E-08	-0.0019	DHRS4-201, DHRS4-002, DHRS4-202, DHRS4-
004, DHRS4-204, DHRS4-004, DHRS4-AS1- 003, DHRS4-AS1-005, DHRS4-AS1-002, DHRS4-005, DHRS4-007, DHRS4-006 chr15: 98195808- 98196247 4 1.11E-05 -0.0032 NA chr17: 46019006- 46019184 5 7.14E-03 0.0005 PNPO-001, AC003665.1-003, AC003665.1- 002, PNPO-002, AC003665.1-001, PNPO-201, PNPO-202, PNPO-003, PNPO-004, PNPO- 008, PNPO-005, AC003665.1-004, PNPO-007 chr17: 6899085- 6899888 12 1.36E-04 -0.0033 ALOX12-001, ALOX12-003, RP11-589P10.5- 001 chr18: 67069959- 6 4.41E-10 -0.0026 DOK6-001 chr19: 18698825- 9 9 1.46E-05 -0.0034 C19orf60-001, C19orf60-002, C19orf60-007, C19orf60-003, C19orf60-006 chr2: 108994116- 108994528 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 chr4: 74847710- 74848016 7 7.14E-03 0.0028 PF4-001	24423864				203, DHRS4-001, DHRS4-003, DHRS4-AS1-
003, DHRS4-AS1-005, DHRS4-AS1-002, DHRS4-AS1-007, DHRS4-005, DHRS4-007, DHRS4-006 chr15: 98195808- 98196247 4 1.11E-05 -0.0032 NA g8196247 5 7.14E-03 0.0005 PNPO-001, AC003665.1-003, AC003665.1- 002, PNPO-002, AC003665.1-001, PNPO-201, PNPO-202, PNPO-003, PNPO-004, PNPO- 008, PNPO-005, AC003665.1-004, PNPO-007 chr17: 6899085- 6899888 12 1.36E-04 -0.0033 ALOX12-001, ALOX12-003, RP11-589P10.5- 001 chr18: 67069959- 67070461 6 4.41E-10 -0.0026 DOK6-001 chr19: 18698825- 9 9 1.46E-05 -0.0034 C19orf60-001, C19orf60-002, C19orf60-004, C19orf60-003, C19orf60-006 chr2:1 08994116- 108994528 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 chr4: 74847710- 74848016 7 7.14E-03 0.0028 PF4-001					004, DHRS4-204, DHRS4-004, DHRS4-AS1-
Chr15: 98195808- 98196247 4 1.11E-05 -0.0032 NA chr17: 46019006- 46019184 5 7.14E-03 0.0005 PNPO-001, AC003665.1-003, AC003665.1- 002, PNPO-002, AC003665.1-001, PNPO-201, PNPO-202, PNPO-003, PNPO-004, PNPO- 008, PNPO-005, AC003665.1-004, PNPO- 008, PNPO-005, AC003665.1-004, PNPO- 008, PNPO-005, AC003665.1-004, PNPO-007 chr17: 6899085- 6899888 12 1.36E-04 -0.0033 ALOX12-001, ALOX12-003, RP11-589P10.5- 001 chr18: 67069959- 6 4.41E-10 -0.0026 DOK6-001 chr19: 18698825- 9 1.46E-05 -0.0034 C19orf60-001, C19orf60-002, C19orf60-007, C19orf60-003, C19orf60-006 chr2: 1 08994116- 108994528 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 chr4: 74847710- 74848016 7 7.14E-03 0.0028 PF4-001					003, DHRS4-AS1-005, DHRS4-AS1-002,
chr15: 98195808- 98196247 4 1.11E-05 -0.0032 NA chr17: 46019006- 46019184 5 7.14E-03 0.0005 PNPO-001, AC003665.1-003, AC003665.1- 002, PNPO-002, AC003665.1-001, PNPO-201, PNPO-202, PNPO-003, PNPO-004, PNPO- 008, PNPO-005, AC003665.1-004, PNPO- 008, PNPO-005, AC003665.1-004, PNPO-007 chr17: 6899085- 6899888 12 1.36E-04 -0.0033 ALOX12-001, ALOX12-003, RP11-589P10.5- 001 chr18: 67069959- 67070461 6 4.41E-10 -0.0026 DOK6-001 chr19: 18698825- 18699631 9 1.46E-05 -0.0034 C19orf60-001, C19orf60-002, C19orf60-007, C19orf60-003, C19orf60-006 chr2: 1 08994116- 108994528 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 chr4: 74847710- 74848016 7 7.14E-03 0.0028 PF4-001					DHRS4-AS1-007, DHRS4-005, DHRS4-007, DHRS4-006
98196247 7.14E-03 0.0005 PNPO-001, AC003665.1-003, AC003665.1- 46019184 7.14E-03 0.0005 PNPO-002, AC003665.1-001, PNPO-201, PNPO-202, PNPO-002, PNPO-003, PNPO-004, PNPO- 002, PNPO-005, AC003665.1-004, PNPO- 008, PNPO-005, AC003665.1-004, PNPO- 008, PNPO-005, AC003665.1-004, PNPO- chr17: 6899085- 12 1.36E-04 -0.0033 ALOX12-001, ALOX12-003, RP11-589P10.5- 6899888 001 - - 001 - chr18: 67069959- 6 4.41E-10 -0.0026 DOK6-001 - 67070461 - - - - - chr19: 18698825- 9 1.46E-05 -0.0034 C19orf60-001, C19orf60-002, C19orf60-007, C19orf60-004, C19orf60-003, C19orf60-004, C19orf60-003, C19orf60-006 - chr2:1 08994116- 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 108994528 - - - - - chr4: 74847710- 7 7.14E-03 0.0028 PF4-001	chr15.98195808-	4	1 11F-05	-0 0032	NA
chr17: 46019006- 46019184 5 7.14E-03 0.0005 PNPO-001, AC003665.1-003, AC003665.1- 002, PNPO-002, AC003665.1-001, PNPO-201, PNPO-202, PNPO-003, PNPO-004, PNPO- 008, PNPO-005, AC003665.1-004, PNPO-007 chr17: 6899085- 6899888 12 1.36E-04 -0.0033 ALOX12-001, ALOX12-003, RP11-589P10.5- 001 chr18: 67069959- 67070461 6 4.41E-10 -0.0026 DOK6-001 chr19: 18698825- 18699631 9 1.46E-05 -0.0034 C19orf60-001, C19orf60-002, C19orf60-007, C19orf60-003, C19orf60-008, C19orf60-004, C19orf60-003, C19orf60-006 chr2:1 08994116- 108994528 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 chr4: 74847710- 74848016 7 7.14E-03 0.0028 PF4-001	98196247	-	1.112 05	0.0052	
46019184 002, PNPO-002, AC003665.1-001, PNPO-201, PNPO-202, PNPO-003, PNPO-004, PNPO-008, PNPO-005, AC003665.1-004, PNPO-007 chr17: 6899085- 12 1.36E-04 -0.0033 ALOX12-001, ALOX12-003, RP11-589P10.5-001 chr18: 67069959- 6 4.41E-10 -0.0026 DOK6-001 chr19: 18698825- 9 1.46E-05 -0.0034 C19orf60-001, C19orf60-002, C19orf60-007, C19orf60-004, C19orf60-006 chr2:1 08994116- 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 108994528 chr4: 74847710- 7 7.14E-03 0.0028 PF4-001	chr17: 46019006-	5	7.14E-03	0.0005	PNPO-001, AC003665,1-003, AC003665,1-
PNPO-202, PNPO-003, PNPO-004, PNPO- 008, PNPO-005, AC003665.1-004, PNPO-007 chr17: 6899085- 6899888 12 1.36E-04 -0.0033 ALOX12-001, ALOX12-003, RP11-589P10.5- 001 chr18: 67069959- 67070461 6 4.41E-10 -0.0026 DOK6-001 chr19: 18698825- 18699631 9 1.46E-05 -0.0034 C19orf60-001, C19orf60-002, C19orf60-007, C19orf60-005, C19orf60-008, C19orf60-004, C19orf60-003, C19orf60-006 chr2:1 08994116- 108994528 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 chr4: 74847710- 74848016 7 7.14E-03 0.0028 PF4-001	46019184	0			002. PNPO-002. AC003665.1-001. PNPO-201.
chr17: 6899085- 12 1.36E-04 -0.0033 ALOX12-001, ALOX12-003, RP11-589P10.5-001 6899888 -0.0026 DOK6-001 001 chr18: 67069959- 6 4.41E-10 -0.0026 DOK6-001 67070461 -0.0034 C19orf60-001, C19orf60-002, C19orf60-007, C19orf60-008, C19orf60-004, C19orf60-008, C19orf60-004, C19orf60-006 chr19: 18698825- 9 1.46E-05 -0.0034 C19orf60-005, C19orf60-008, C19orf60-004, C19orf60-006 chr2:1 08994116- 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 108994528 - - - - - chr4: 74847710- 7 7.14E-03 0.0028 PF4-001					PNPO-202, PNPO-003, PNPO-004, PNPO-
chr17: 6899085- 6899888 12 1.36E-04 -0.0033 ALOX12-001, ALOX12-003, RP11-589P10.5- 001 chr18: 67069959- 67070461 6 4.41E-10 -0.0026 DOK6-001 chr19: 18698825- 18699631 9 1.46E-05 -0.0034 C19orf60-001, C19orf60-002, C19orf60-007, C19orf60-005, C19orf60-008, C19orf60-004, C19orf60-003, C19orf60-006 chr2:1 08994116- 108994528 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 chr4: 74847710- 74848016 7 7.14E-03 0.0028 PF4-001					008, PNPO-005, AC003665.1-004, PNPO-007
6899888 001 chr18: 67069959- 6 4.41E-10 -0.0026 DOK6-001 67070461 -0.0034 C19orf60-001, C19orf60-002, C19orf60-007, C19orf60-005, C19orf60-008, C19orf60-004, C19orf60-003, C19orf60-006 chr2:1 08994116- 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 108994528 - - 7 7.14E-03 0.0028 PF4-001	chr17: 6899085-	12	1.36E-04	-0.0033	ALOX12-001, ALOX12-003, RP11-589P10.5-
chr18: 67069959- 6 4.41E-10 -0.0026 DOK6-001 67070461 -0.0034 C19orf60-001, C19orf60-002, C19orf60-007, C19orf60-005, C19orf60-008, C19orf60-004, C19orf60-005, C19orf60-008, C19orf60-004, C19orf60-006 chr2:1 08994116- 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 108994528 - - - - - chr4: 74847710- 7 7.14E-03 0.0028 PF4-001	6899888				001
67070461 chr19: 18698825- 18699631 9 1.46E-05 -0.0034 C19orf60-001, C19orf60-002, C19orf60-007, C19orf60-005, C19orf60-008, C19orf60-004, C19orf60-003, C19orf60-006 chr2:1 08994116- 108994528 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 chr4: 74847710- 74848016 7 7.14E-03 0.0028 PF4-001	chr18: 67069959-	6	4.41E-10	-0.0026	DOK6-001
chr19: 18698825- 9 1.46E-05 -0.0034 C19orf60-001, C19orf60-002, C19orf60-007, C19orf60-008, C19orf60-004, C19orf60-003, C19orf60-008, C19orf60-004, C19orf60-003, C19orf60-006 chr2:1 08994116- 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 108994528 - - - - - chr4: 74847710- 7 7.14E-03 0.0028 PF4-001 74848016 - - - -	67070461				
18699631 C19orf60-005, C19orf60-008, C19orf60-004, C19orf60-006 chr2:1 08994116- 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 108994528 chr4: 74847710- 7 7.14E-03 0.0028 PF4-001 74848016 F4-001 F4-001 F4-001 F4-001	chr19: 18698825-	9	1.46E-05	-0.0034	C19orf60-001, C19orf60-002, C19orf60-007,
chr2:1 08994116- 108994528 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 chr4: 74847710- 74848016 7 7.14E-03 0.0028 PF4-001	18699631				C19orf60-005, C19orf60-008, C19orf60-004,
chr2:1 08994116- 108994528 5 2.46E-03 0.0019 SULT1C4-001, SULT1C4-004, SULT1C4-003 chr4: 74847710- 74848016 7 7.14E-03 0.0028 PF4-001					C19orf60-003, C19orf60-006
108994528 chr4: 74847710- 7 7.14E-03 0.0028 PF4-001 74848016 7 7.14E-03 0.0028 PF4-001	chr2:1 08994116-	5	2.46E-03	0.0019	SULT1C4-001, SULT1C4-004, SULT1C4-003
chr4: 74847710- 7 7.14E-03 0.0028 PF4-001 74848016	108994528				
74848016	chr4: 74847710-	7	7.14E-03	0.0028	PF4-001
	74848016				

 Table S1: DMR results for meta-analysis EPDS continuous variable

chr7: 116139180- 116139705 9 2.73E-04 0.0018 CAV2-001, CAV2-019, CAV2-023, AC002066.1-003, CAV2-002 chr8: 142183179- 142183860 5 7.25E-04 0.0021 DENND3-019 chr8: 143085750- 143085905 2 6.29E-03 0.0014 NA chr8: 22132874- 7 5.96E-03 0.0021 PIWIL2-001, PIWIL2-003, PIWIL2-002, CTD-	chr6: 33282313- 33283317	27	1.80E-08	-0.0016	TAPBP-008, TAPBP-001, TAPBP-003, TAPBP- 209, TAPBP-010, TAPBP-007, TAPBP-004, TAPBP-002, TAPBP-006
chr8: 142183179- 142183860 5 7.25E-04 0.0021 DENND3-019 chr8: 143085750- 143085905 2 6.29E-03 0.0014 NA chr8: 22132874- 7 5.96E-03 0.0021 PIWIL2-001, PIWIL2-003, PIWIL2-002, CTD-	chr7: 116139180- 116139705	9	2.73E-04	0.0018	CAV2-001, CAV2-019, CAV2-023, AC002066.1-003, CAV2-002
chr8: 143085750- 143085905 2 6.29E-03 0.0014 NA chr8: 22132874- 7 5.96E-03 0.0021 PIWIL2-001, PIWIL2-003, PIWIL2-002, CTD-	chr8: 142183179- 142183860	5	7.25E-04	0.0021	DENND3-019
chr8: 22132874- 7 5.96E-03 0.0021 PIWIL2-001, PIWIL2-003, PIWIL2-002, CTD-	chr8: 143085750- 143085905	2	6.29E-03	0.0014	NA
22133356 2530N21.4-001	chr8: 22132874- 22133356	7	5.96E-03	0.0021	PIWIL2-001, PIWIL2-003, PIWIL2-002, CTD- 2530N21.4-001

DMRs	#	P-value	Max Effect	Overlapping Promoters
	CpGs			
chr10: 70321574- 70322442	7	7.86E-05	1.58E-03	TET1-001
chr10: 94820376- 94820923	3	4.03E-03	-9.66E-04	CYP26C1-001, RP11-348J12.2-001
chr11: 65190825- 65191707	4	2.74E-04	2.50E-03	NEAT1-002, NEAT1-001, NEAT1-202
chr12: 7781004- 7781431	5	2.16E-03	-3.85E-03	NA
chr12: 8380050- 8380472	5	4.71E-03	1.40E-03	FAM90A1-001, ALG1L10P-001, FAM90A1-003, FAM90A1-002, AC092111.1-201
chr12:104697193- 104697983	12	2.70E-04	1.05E-03	EID3-001
chr13: 113540189- 113540557	5	5.36E-03	1.77E-03	AL356740.1-201
chr18: 67069959- 67070461	6	3.87E-06	-1.09E-03	DOK6-001
chr2: 208631259- 208631916	3	1.01E-03	9.52E-04	NA
chr2: 240884831- 240884925	2	2.62E-04	2.03E-03	NA
chr2: 27530884- 27531535	8	1.43E-03	-8.26E-04	UCN-001
chr3: 194119861- 194120150	4	8.60E-03	8.51E-04	GP5-201, GP5-001
chr5: 176046902- 176047485	3	8.09E-04	9.21E-04	NA
chr6: 33047944- 33049360	16	1.79E-11	2.06E-03	HLA-DPB1-002, HLA-DPA1-004, HLA- DPA1-001, HLA-DPB1-008, RPL32P1-001, HLA-DPA1-002, HLA-DPB1-006, HLA- DPA1-005, HLA-DPB1-009, HLA-DPB1- 005, HLA-DPB1-007
chr7: 155174726- 155175340	4	3.47E-05	1.62E-03	AC008060.7-001
chr8: 70378380- 70378994	7	2.36E-04	1.25E-03	SULF1-201, SULF1-001, SULF1-008, SULF1-009. SULF1-010

Table S2: DMR results for meta-analysis BDI-II continuous variable

DMR	# CpGs	P-value	Max Effect	Overlapping Promoters
chr12: 122019006- 122019080	4	9.76E-03	-1.78E-02	KDM2B-005, KDM2B-001, KDM2B-006, KDM2B-201, KDM2B-004, KDM2B-007, KDM2B-008, RP13-941N14.1-001, KDM2B- 002
chr14: 55907122- 55907501	8	5.62E-03	2.14E-02	TBPL2-001
chr15: 28147928- 28148431	4	2.57E-03	2.12E-02	NA
chr15: 98195808- 98196247	4	1.37E-04	-3.35E-02	NA
chr16: 89686618- 89687052	5	5.62E-03	1.97E-02	DPEP1-002
chr18: 67069959- 67070461	6	6.10E-04	-2.53E-02	DOK6-001
chr19: 18698825- 18699631	9	1.37E-04	-4.15E-02	C19orf60-001, C19orf60-002, C19orf60- 007, C19orf60-005, C19orf60-008, C19orf60-004, C19orf60-003, C19orf60- 006
chr2: 20211771- 20211868	2	5.62E-03	-1.32E-02	MATN3-001, MATN3-201
chr4: 298926- 299370	7	5.62E-03	-1.46E-02	ZNF732-001
chr4: 74734714- 74735092	8	5.62E-03	-4.18E-03	CXCL1-001, CXCL1-002
chr6: 33282736- 33283293	21	5.62E-03	-1.60E-02	TAPBP-008, TAPBP-001, TAPBP-003, TAPBP-209, TAPBP-010, TAPBP-007, TAPBP-004, TAPBP-002, TAPBP-006
chr6: 90121670- 90121836	2	5.62E-03	-2.38E-03	RRAGD-002, RRAGD-001, RRAGD-003
chr6: 99395968- 99396345	6	5.62E-03	-7.98E-03	FBXL4-201, FBXL4-001
chr8: 142183507- 142183677	3	6.29E-03	2.16E-02	DENND3-019

Table S3: DMR results for meta-analysis EPDS threshold-10 variable

	#		Max Effect	Overlanning Promotors
DIVINS	π CnCc	F-value		Overlapping Fromoters
chr1: 159046391- 159047163	/	3.54E-03	-3.46E-02	AIM2-001
chr1: 228646841- 228647248	5	4.39E-03	-4.81E-03	HIST3H2A-001, HIST3H2BB-001
chr1: 62660188- 62660861	7	1.25E-06	-2.93E-02	L1TD1-001
chr1: 99469323- 99469698	4	3.54E-03	2.05E-02	LPPR5-002, LPPR5-001, RP5-896L10.1-001, LPPR5-003
chr10: 94820892- 94821085	4	3.54E-03	-1.38E-02	CYP26C1-001, RP11-348J12.2-001
chr11: 14993378- 14994230	16	3.54E-03	-1.22E-02	CALCA-001, CALCA-201, CALCA-202, CALCA- 003, CALCA-002, CALCA-004, CALCA-005
chr12: 133022423- 133022853	4	7.83E-03	4.77E-02	NA
chr14: 24422956- 24423618	5	3.54E-03	-7.51E-03	DHRS4-201, DHRS4-002, DHRS4-202, DHRS4-203, DHRS4-001, DHRS4-003, DHRS4-AS1-004, DHRS4-204, DHRS4-004, DHRS4-AS1-003, DHRS4-AS1-005, DHRS4- AS1-002, DHRS4-AS1-007, DHRS4-005, DHRS4-007, DHRS4-006
chr16: 838502- 838515	2	8.65E-03	1.53E-03	RPUSD1-001, CHTF18-001, CHTF18-201, CHTF18-008, CHTF18-002, CHTF18-006, CHTF18-003, CHTF18-005, CHTF18-004, CHTF18-007, CHTF18-012, RPUSD1-004, RPUSD1-010, CHTF18-014, RPUSD1-009, RPUSD1-005, RPUSD1-006, RPUSD1-002, RPUSD1-003, RPUSD1-008, CHTF18-015, RPUSD1-007, CHTF18-013
chr17: 46018875- 46019184	6	4.28E-03	4.56E-03	PNPO-001, AC003665.1-003, AC003665.1- 002, PNPO-002, AC003665.1-001, PNPO- 201, PNPO-202, PNPO-003, PNPO-004, PNPO-008, PNPO-005, AC003665.1-004, PNPO-007
chr18: 67069959- 67070461	6	3.62E-10	-2.32E-02	DOK6-001
chr19: 51774377- 51774666	5	4.05E-03	2.72E-02	CTD-3187F8.11-003, CTD-3187F8.11-001, CTD-3187F8.2-001, CTD-3187F8.11-002
chr19: 55598782- 55599320	4	3.98E-03	3.93E-02	EPS8L1-014, EPS8L1-019, EPS8L1-018
chr19: 57306631- 57307081	6	2.66E-03	1.86E-02	NA
chr5: 1726145- 1726243	3	4.05E-03	2.44E-02	CTD-2587M23.1-001

Table S4: DMR results for meta-analysis EPDS threshold-13 variable

chr6: 151646312-	10	7.79E-04	4.58E-02	AKAP12-002
151647133				
chr6: 33282624-	20	3.54E-03	-1.46E-02	TAPBP-008, TAPBP-001, TAPBP-003, TAPBP-
33283189				209, TAPBP-010, TAPBP-007, TAPBP-004,
				TAPBP-002, TAPBP-006
chr8: 22132563-	11	3.54E-03	2.27E-02	PIWIL2-001, PIWIL2-003, PIWIL2-002, CTD-
22133356				2530N21.4-001
chr8: 52321814-	6	5.27E-03	3.13E-02	PXDNL-004, PXDNL-003
52322341				

DMRs	#	P-value	Max Effect	Overlapping Promoters
	CpGs			
chr10: 2543763-	2	2.63E-03	5.37E-02	RP11-526P5.1-001, RP11-526P5.2-001,
2544120				RP11-526P5.2-002
chr10: 26942165-	2	5.87E-03	-7.70E-03	NA
26942225				
chr10: 70321874-	2	7.42E-03	2.77E-02	TET1-001
70321889				
chr11: 65190825-	4	2.93E-06	6.40E-02	NEAT1-002, NEAT1-001, NEAT1-202
65191707				
chr12: 104697193-	12	1.00E-08	2.74E-02	EID3-001
104697983				
chr13: 51417686-	5	6.89E-03	1.93E-02	DLEU7-002, DLEU7-001
51418020				
chr14: 105167300-	2	6.22E-03	1.53E-02	NA
105167457				
chr17: 41738893-	6	1.18E-04	7.00E-02	MEOX1-001, MEOX1-201, MEOX1-003,
41739926				MEOX1-002
chr19: 49540073-	3	9.74E-04	2.12E-02	CGB1-001, CTB-60B18.6-001, CGB1-
49540241				002, CTB-60B18.6-002
chr20: 32856747-	6	1.32E-06	2.74E-02	NA
32857227				
chr22: 24104820-	6	1.50E-05	-5.60E-02	C22orf15-003, C22orf15-001, C22orf15-
24105692		4 975 94	2 655 02	004, C22orf15-002, C22orf15-005
cnr3: 65342216-	6	1.27E-04	2.65E-02	NA
65342971	2	0.745.04	F 20F 02	
CNr5: 145215546-	3	9.74E-04	5.38E-02	PRELIDZ-004, PRELIDZ-201, PRELIDZ-
145215784				
chrE+ 16509020	1	E 09E 02	2 115 02	
16500122	4	J.06E-03	-2.116-02	FAM134B-003, FAM134B-000,
chr5. 101703-101806	2	7.64E-03	1 87E-02	
chr6: 228/7520	12	1.04L-03	2 41E-02	
32847845	13	4.03E-05	2.412-02	FFFINZF1-002, FFFINZF1-001
chr6: 33047944-	15	2.87F-07	4.45E-02	HIA-DPB1-002 HIA-DPA1-004 HIA-
33048879	10	21072 07		DPA1-001. HIA-DPB1-008. RPI 32P1-
				001. HLA-DPA1-002. HLA-DPB1-006.
				HLA-DPA1-005. HLA-DPB1-009. HLA-
				DPB1-005. HLA-DPB1-007
chr7: 155174726-	4	1.11E-04	3.26E-02	AC008060.7-001
155175340		_	-	
chr7: 27183591-	32	2.27E-04	2.51E-02	HOXA5-001, HOXA-AS3-001, HOXA5-
27185282				002, HOXA-AS3-005

Table S5: DMR results for meta-analysis BDI-II threshold-14 variable

DMRs	#	P-value	Max Effect	Overlapping Promoters
	CpGs			
chr10: 70321668- 70322442	5	4.18E-04	3.68E-02	TET1-001
chr11: 2020101-	12	9.71E-04	1.43E-02	H19-008, H19-004, H19-002, H19-001,
2020560				Н19-005, Н19-009, Н19-007, Н19-003,
				H19-006
chr13: 113622539-	7	1.04E-03	-1.69E-02	MCF2L-202, MCF2L-002, MCF2L-AS1-
113622750				001, MCF2L-005
chr15: 70387217-	2	4.25E-03	1.37E-02	TLE3-010, TLE3-030, TLE3-022, TLE3-015,
70387268				TLE3-026, TLE3-011, TLE3-008, TLE3-007,
1.47.4000000		4 725 02	6 605 00	ILE3-013, ILE3-012, ILE3-020, ILE3-014
cnr17: 19290353-	/	1.72E-03	6.60E-03	MFAP4-001, MFAP4-002, MFAP4-003,
19290702	10	2 765 04	1 605 02	
27894636	10	2.702-04	1.09E-02	002 GRB7-006 GRB7-005 GRB7-011
57054050				GBB7-014 GBB7-012 GBB7-013 GBB7-
				008. GRB7-010
chr18: 67069959-	6	1.86E-07	-2.41E-02	DOK6-001
67070461				
chr2: 27530670-	10	9.03E-07	-2.31E-02	UCN-001
27531535				
chr5: 1393934-	7	4.05E-08	4.17E-02	NA
1394633				
chr6: 30458519- 30458998	5	7.46E-04	-1.44E-02	HLA-E-001, HLA-E-002, HLA-E-003
chr6: 33040535-	2	6.84E-03	2.28E-02	HLA-DPA1-205, HLA-DPA1-007, HLA-
33040610				DPA1-003
chr6: 33047944-	16	4.05E-08	4.71E-02	HLA-DPB1-002, HLA-DPA1-004, HLA-
33049360				DPA1-001, HLA-DPB1-008, RPL32P1-001,
				HLA-DPA1-002, HLA-DPB1-006, HLA-
				DPA1-005, HLA-DPB1-009, HLA-DPB1-
				005, HLA-DPB1-007
chr7: 155174726- 155175340	4	1.98E-04	3.78E-02	AC008060.7-001
chr8: 1764878-	12	1.29E-04	-1.16E-02	MIR596-201
1765820	_			
chr8: 70378380-	7	1.19E-05	3.36E-02	SULF1-201, SULF1-001, SULF1-008,
/0378994				SULF1-009, SULF1-010

Table S6: DMR results for meta-analysis BDI-II threshold-20 variable

	Drakenstein Health Stud	ı Child y ^a	Viuff, A. et al. ALSPAC mid-pregnancy depression ^b		Viuff, A. et al. Generation R Study ^c	
CpG sites	Effect	P-value ^d	Effect	P-value	Effect	P-value
cg08667740	-2.94E-04	0.755	-0.025	3.90E-08	0.003	0.186
cg22868225	-3.28E-04	0.402	-0.005	5.98E-08	-0.001	0.672

Table S7: Results for cg08667740 and cg22868225 for this study and the Viuff, A et al. study

a - in association with the EPDS 13 threshold depression variable

b - in association with the EPDS 12 threshold depression variable

c - in association with the Brief Symptom Inventory (BSI) 0.80 threshold variable

d - adjusted with Bacon and Cate

Table S8: Results for cg06808585, cg05245515, and cg15264806 for this study and the Cardenas, A et al. study

	Drakenstein Child		Cardenas, A. et al.		Cardenas, A. et al.	
	Health Stud	y ^a	Discover coh		ohort Generation R Stu	
			Project ^a			
CpG sites	Effect	P-value ^c	Effect	P-value ^d	Effect	P-value
cg06808585	-4.10E-03	0.359	3.10	< 0.05	0.04	0.96
cg05245515	5.68E-03	0.177	-1.59	< 0.05	0.28	0.29
cg15264806	-1.11E-04	0.609	0.14	< 0.05	0.05	0.63

a - in association with the EPDS 13 threshold depression variable

b - in association with the Brief Symptom Inventory (BSI) 0.80 threshold variable

c - adjusted with Bacon and Cate

d - FDR

DMR	CpG sites	DNAm Correlation	P-value ^a
		Across Brain and	
		Blood ^a	0.400
<u>N/A</u>	cg04859497	-0.184	0.422
	cg15351186	0.194	0.399
	cg07051728	0.499	0.023
	cg12181083	0.166	0.470
chr8:70378380-70378994	cg04845579	0.216	0.346
	cg02283643	0.182	0.428
	cg07073960	0.201	0.380
	cg00613562	-0.022	0.926
	cg04145264	0.143	0.535
abr11.65100225 65101707	cg09411730	-0.418	0.060
cm11.03190823-03191707	cg07985890	-0.381	0.090
	cg18019132	-0.168	0.466
	cg01857475	-0.131	0.570
	cg09884423	0.543	0.012
	cg10572274	-0.135	0.558
	cg18633684	0.226	0.323
	cg03817911	0.247	0.280
-1-12-104(07102-104(07022	cg20923245	0.243	0.287
cnr12:10469/193-10469/983	cg27205904	0.677	0.001
	cg21234561	0.177	0.442
	cg26614816	0.370	0.099
	cg09477407	0.552	0.011
	cg05057777	-0.005	0.984
	cg01848457	0.345	0.125
	cg03790988	0.439	0.048
	cg20103519	0.160	0.487
1 10 (70(0050 (70704(1	cg19513940	0.079	0.733
cnr18:6/069959-6/0/0461	cg00433861	-0.177	0.442
	cg13890379	-0.236	0.301
	cg20169576	0.079	0.733

Table S9: Correlation between brain and blood DNAm for CpG sites and DMRs

^a - These values came from IMAGE-CpG

	Without HIV exposed		With HIV exposed	
CpG sites	Effect	p-value	Effect	p-value
cg22798925	0.0011	1.06E-07	0.0011	7.27Ee-08
cg04859497	-0.0642	8.09E-10	-0.0645	6.89E-10
cg27278221	-0.0195	5.40E-08	-0.0194	6.16E-08

Table S10: Sensitivity analysis results for the significant single CpG sites with and without HIV exposure as a covariate