

Sup. Table 3: Correlation of parental stress during infancy and preschool with DNA methylation levels of selected candidate genes. FDR corresponds to the multiple testing correction applied to the entire data set (n=18231).

A) NR3C1 (CpG site = cg08818984) - One CpG site from the GR region was assayed.

	Slope	Range	Differential Methylation	Spearman ρ	FDR
All					
Maternal at Infancy	0.0127	0.4071	0.0090	-0.0460	100
Maternal at Preschool	0.0399	0.4071	0.0296	0.0141	92.57
Paternal at Infancy	0.0099	0.4071	0.0085	0.0129	102.19
Paternal at Preschool	-0.0277	0.4071	-0.0196	-0.0810	76.67
Boys Only					
Maternal at Infancy	-0.0179	0.2678	-0.0103	-0.0673	94.29
Maternal at Preschool	-0.0331	0.2350	-0.0158	-0.0401	111.23
Paternal at Infancy	-0.0615	0.2678	-0.0462	-0.0709	112.46
Paternal at Preschool	-0.0206	0.2350	-0.0135	-0.0645	100
Girls Only					
Maternal at Infancy	0.0254	0.3965	0.0180	-0.0416	94.39
Maternal at Preschool	0.0497	0.3965	0.0369	0.0452	108.25
Paternal at Infancy	0.0915	0.3965	0.0575	0.0401	100.16
Paternal at Preschool	-0.0334	0.3965	-0.0237	-0.0966	67.08

Note. FDR = false discovery rate (%). Slope = slope of least squared line. Range = range of average beta

B): DRD4 (CpG Site = cg06825142) - One CpG site from the DRD4 region was assayed.

	Slope	Range	Differential Methylation	Spearman ρ	FDR
<u>All</u>					
Maternal at Infancy	0.0032	0.0635	0.0023	0.1311	100.48
Maternal at Preschool	0.0023	0.0635	0.0017	0.0806	92.57
Paternal at Infancy	0.0012	0.0611	0.0010	0.0458	102.19
Paternal at Preschool	0.0007	0.0635	0.0005	0.0500	70.78
<u>Boys Only</u>					
Maternal at Infancy	0.0051	0.0218	0.0029	0.1954	93.92
Maternal at Preschool	-0.0013	0.0253	-0.0006	-0.0111	111.23
Paternal at Infancy	-0.0069	0.0218	-0.0052	-0.2063	112.46
Paternal at Preschool	0.0020	0.0218	0.0013	0.0579	104.33
<u>Girls Only</u>					
Maternal at Infancy	0.0023	0.0635	0.0016	0.0792	94.39
Maternal at Preschool	0.0039	0.0635	0.0029	0.1164	108.25
Paternal at Infancy	0.0101	0.0611	0.0064	0.1810	100.16
Paternal at Preschool	-0.0003	0.0635	-0.0002	0.0384	62.45

Note. FDR = false discovery rate (%). Slope = slope of least squared line. Range = range of average beta

C) SLC6A4 (CpG site = cg22584138) - Two CpG sites from the SLC6A4 region was assayed on the Illumina Infinium array but only one CpG site was used in the final analysis.

	Slope	Range	Differential Methylation	Spearman ρ	FDR
All					
Maternal at Infancy	0.0048	0.1674	0.0034	0.0108	100.48
Maternal at Preschool	0.0016	0.1674	0.0012	-0.0064	100
Paternal at Infancy	0.0316	0.1674	0.0271	0.0809	102.19
Paternal at Preschool	0.0383	0.1674	0.0271	0.1699	57.65
Boys Only					
Maternal at Infancy	-0.0203	0.1441	-0.0116	-0.0570	94.29
Maternal at Preschool	-0.0046	0.1441	-0.0022	0.0011	111.23
Paternal at Infancy	0.0506	0.1441	0.0380	0.1405	100
Paternal at Preschool	0.0301	0.1441	0.0197	0.1760	104.33
Girls Only					
Maternal at Infancy	0.0191	0.1626	0.0136	0.0582	94.39
Maternal at Preschool	0.0081	0.1626	0.0060	-0.0062	100
Paternal at Infancy	0.0101	0.1626	0.0064	0.0194	100.16
Paternal at Preschool	0.0442	0.1626	0.0314	0.1666	42.83

Note. FDR = false discovery rate (%). Slope = slope of least squared line. Range = range of average beta

D) BDNF (CpG site = cg16257091) - One of two CpG sites from the BDNF region assayed.

	Slope	Range	Differential Methylation	Spearman ρ	FDR
All					
Maternal at Infancy	0.0161	0.0610	0.0115	0.1608	100.48
Maternal at Preschool	0.0155	0.0610	0.0115	0.1623	92.57
Paternal at Infancy	0.0082	0.0589	0.0070	0.1383	102.19
Paternal at Preschool	0.0035	0.0589	0.0025	0.0462	71.96
Boys Only					
Maternal at Infancy	0.0161	0.0567	0.0092	0.1568	94.55
Maternal at Preschool	0.0137	0.0567	0.0066	0.1205	111.23
Paternal at Infancy	0.0031	0.0546	0.0023	0.0911	100
Paternal at Preschool	-0.0073	0.0546	-0.0048	-0.0429	100
Girls Only					
Maternal at Infancy	0.0147	0.0493	0.0104	0.1911	94.39
Maternal at Preschool	0.0120	0.0493	0.0089	0.1589	108.25
Paternal at Infancy	0.0149	0.0493	0.0093	0.1258	100.16
Paternal at Preschool	0.0110	0.0493	0.0078	0.0743	56.14

Note. FDR = false discovery rate (%). Slope = slope of least squared line. Range = range of average beta

E) BDNF (CpG site = cg27351358) - One of two CpG sites from the BDNF region assayed.

	Slope	Range	Differential Methylation	Spearman ρ	FDR
<u>All</u>					
Maternal at Infancy	-0.0138	0.0992	-0.0098	-0.0783	100
Maternal at Preschool	-0.0081	0.0992	-0.0060	0.0068	92.57
Paternal at Infancy	-0.0003	0.0992	-0.0003	0.0184	102.19
Paternal at Preschool	-0.0069	0.0992	-0.0049	-0.1108	72.97
<u>Boys Only</u>					
Maternal at Infancy	-0.0176	0.0689	-0.0101	-0.1179	94.29
Maternal at Preschool	-0.0137	0.0689	-0.0066	-0.0617	111.23
Paternal at Infancy	-0.0334	0.0689	-0.0251	-0.3858	112.46
Paternal at Preschool	-0.0074	0.0689	-0.0049	-0.1492	100
<u>Girls Only</u>					
Maternal at Infancy	-0.0112	0.0992	-0.0079	-0.0499	94.39
Maternal at Preschool	-0.0041	0.0992	-0.0031	0.0436	108.25
Paternal at Infancy	0.0357	0.0992	0.0224	0.2568	100.09
Paternal at Preschool	-0.0066	0.0992	-0.0047	-0.0989	67.08

Note. FDR = false discovery rate (%). Slope = slope of least squared line. Range = range of average beta

F) COMT (CpG site = cg15926585) - One CpG site from the COMT region assayed.

	Slope	Range	Differential Methylation	Spearman ρ	FDR
<u>All</u>					
Maternal at Infancy	-0.0094	0.1506	-0.0067	-0.0525	100
Maternal at Preschool	0.0141	0.1506	0.0105	0.1111	92.57
Paternal at Infancy	0.0013	0.1506	0.0011	0.0217	102.19
Paternal at Preschool	0.0178	0.1038	0.0126	0.0718	66.86
<u>Boys Only</u>					
Maternal at Infancy	-0.0026	0.1021	-0.0015	-0.0578	94.29
Maternal at Preschool	0.0205	0.1021	0.0098	0.2218	111.23
Paternal at Infancy	0.0092	0.1021	0.0069	0.0561	100
Paternal at Preschool	0.0142	0.1021	0.0093	0.0040	104.33
<u>Girls Only</u>					
Maternal at Infancy	-0.0139	0.1432	-0.0099	-0.0603	94.39
Maternal at Preschool	0.0095	0.1432	0.0071	0.0564	108.25
Paternal at Infancy	-0.0069	0.1357	-0.0044	-0.0343	100.53
Paternal at Preschool	0.0204	0.0964	0.0145	0.0808	56.14

Note. FDR = false discovery rate (%). Slope = slope of least squared line. Range = range of average beta

G) SLC6A3 (CpG site = cg26205131) - One of two CpG sites from the DAT1 region assayed.

	Slope	Range	Differential Methylation	Spearman ρ	FDR
All					
Maternal at Infancy	0.0059	0.1771	0.0042	-0.0043	100
Maternal at Preschool	0.0016	0.1771	0.0012	0.0226	92.57
Paternal at Infancy	-0.0158	0.1771	-0.0136	-0.0286	102.18
Paternal at Preschool	0.0003	0.1771	0.0002	0.0625	69.08
Boys Only					
Maternal at Infancy	0.0035	0.0613	0.0020	-0.1352	81.10
Maternal at Preschool	-0.0105	0.0613	-0.0050	-0.1649	111.23
Paternal at Infancy	0.0011	0.0613	0.0008	-0.0518	112.46
Paternal at Preschool	0.0177	0.0613	0.0115	0.0876	104.33
Girls Only					
Maternal at Infancy	0.0069	0.1771	0.0049	0.0413	94.39
Maternal at Preschool	0.0048	0.1771	0.0036	0.0872	108.25
Paternal at Infancy	-0.0343	0.1771	-0.0216	-0.0146	100.53
Paternal at Preschool	-0.0121	0.1771	-0.0086	0.0491	60.43

Note. FDR = false discovery rate (%). Slope = slope of least squared line. Range = range of average beta

H) SLC6A3 (CpG site = cg13202751) - One of two CpG sites from the DAT1 region assayed.

	Slope	Range	Differential Methylation	Spearman ρ	FDR
All					
Maternal at Infancy	0.0253	0.1094	0.0180	0.1219	100.48
Maternal at Preschool	0.0281	0.1094	0.0209	0.0920	92.57
Paternal at Infancy	-0.0042	0.1083	-0.0036	0.0289	102.19
Paternal at Preschool	-0.0109	0.1066	-0.0077	-0.0232	81.87
Boys Only					
Maternal at Infancy	0.0369	0.0996	0.0211	0.1984	93.86
Maternal at Preschool	0.0396	0.0996	0.0189	0.1257	111.23
Paternal at Infancy	-0.0079	0.0996	-0.0059	-0.0152	112.46
Paternal at Preschool	-0.0344	0.0969	-0.0225	-0.1452	100
Girls Only					
Maternal at Infancy	0.0163	0.1040	0.0116	0.0965	94.39
Maternal at Preschool	0.0169	0.1040	0.0126	0.0681	108.25
Paternal at Infancy	0.0018	0.1029	0.0011	0.0637	100.16
Paternal at Preschool	0.0054	0.1040	0.0038	0.0546	60.43

Note. FDR = false discovery rate (%). Slope = slope of least squared line. Range = range of average beta