

Sup. Table 10: Genes with DNA methylation of more than 1 CpG site correlated with paternal stress during preschool in girls only (all CpG sites with FDR<20%). Sites with greater than 5% differential methylation are highlighted in grey.

Gene	CpG Site	Slope	Range	Differential Methylation	Spearman ρ	FDR
ADCY5	cg13878010	0.037	0.069	0.026	0.399	17.895
ADCY5	cg13384396	0.039	0.100	0.028	0.389	19.998
ALX4	cg07696033	-0.021	0.060	-0.015	-0.293	19.998
ALX4	cg04970352	-0.020	0.076	-0.014	-0.290	19.998
ANP32E	cg13841804	-0.035	0.067	-0.025	-0.455	5.743
ANP32E	cg02937060	-0.053	0.104	-0.037	-0.410	7.370
APC	cg24332422	-0.038	0.080	-0.027	-0.392	9.143
APC	cg15020645	-0.013	0.029	-0.009	-0.341	13.672
BAG1	cg21614231	0.047	0.107	0.033	0.428	15.770
BAG1	cg07711515	0.042	0.088	0.030	0.354	19.998
BAHD1	cg07114024	-0.019	0.048	-0.014	-0.342	13.672
BAHD1	cg23228048	-0.026	0.054	-0.018	-0.282	19.998
BCDIN3	cg11979382	-0.018	0.041	-0.013	-0.479	5.743
BCDIN3	cg16049587	-0.041	0.084	-0.029	-0.400	9.143
BTG4	cg23211240	-0.028	0.085	-0.020	-0.379	9.143
BTG4	cg22879515	-0.019	0.042	-0.013	-0.327	15.770
C19orf30	cg21300318	0.122	0.179	0.087	0.517	0.000
C19orf30	cg20893022	0.074	0.088	0.053	0.552	0.000
C19orf30	cg02479575	-0.019	0.047	-0.014	-0.297	19.998
CCDC55	cg25346576	-0.112	0.195	-0.079	-0.330	13.672
CCDC55	cg26813908	-0.039	0.093	-0.028	-0.317	15.770
CCND2	cg16994506	-0.055	0.096	-0.039	-0.381	9.143
CCND2	cg08069899	-0.022	0.070	-0.015	-0.338	13.672
CCND2	cg17886028	-0.024	0.047	-0.017	-0.318	15.770
CCNT1	cg01082679	-0.017	0.033	-0.012	-0.452	5.743
CCNT1	cg22103585	-0.011	0.026	-0.007	-0.437	7.370
CDC7	cg18127191	-0.025	0.042	-0.018	-0.430	7.370
CDC7	cg23845507	-0.015	0.028	-0.011	-0.363	11.730
CDC7	cg13599025	-0.015	0.037	-0.011	-0.340	13.672
CDKN1C	cg04548378	-0.024	0.060	-0.017	-0.299	17.895
CDKN1C	cg20919799	-0.010	0.030	-0.007	-0.296	19.998
CHFR	cg17387870	0.112	0.205	0.080	0.422	17.895

CHFR	cg23653008	-0.018	0.039	-0.012	-0.294	19.998
CHFR	cg00338702	0.022	0.044	0.015	0.363	19.998
CHFR	cg06462703	0.020	0.049	0.014	0.365	19.998
CHFR	cg17524886	0.050	0.104	0.036	0.383	19.998
COL1A1	cg01593886	-0.045	0.079	-0.032	-0.380	9.143
COL1A1	cg01234133	-0.061	0.158	-0.043	-0.286	19.998
CRMP1	cg22680204	-0.033	0.046	-0.024	-0.396	9.143
CRMP1	cg03544320	-0.033	0.408	-0.024	-0.330	13.672
CTTN	cg15383392	-0.030	0.065	-0.021	-0.364	11.730
CTTN	cg18187335	-0.015	0.039	-0.011	-0.290	19.998
DNAJC18	cg19238398	-0.062	0.119	-0.044	-0.404	9.143
DNAJC18	cg18805835	-0.079	0.178	-0.056	-0.402	9.143
EEF1A1	cg01536980	-0.028	0.063	-0.020	-0.395	9.143
EEF1A1	cg07740989	-0.019	0.047	-0.014	-0.387	9.143
ELN	cg05822532	-0.056	0.123	-0.040	-0.327	15.770
ELN	cg27360098	-0.039	0.151	-0.027	-0.323	15.770
EML2	cg20427879	-0.050	0.080	-0.035	-0.405	7.370
EML2	cg08831348	-0.024	0.058	-0.017	-0.337	13.672
FAM29A	cg13739345	-0.026	0.061	-0.018	-0.359	11.730
FAM29A	cg07664183	-0.177	0.487	-0.126	-0.291	19.998
FBXO28	cg01610240	-0.036	0.063	-0.026	-0.429	7.370
FBXO28	cg26043391	-0.045	0.082	-0.032	-0.350	11.730
FBXO30	cg13572545	-0.029	0.093	-0.021	-0.335	13.672
FBXO30	cg25399367	-0.023	0.060	-0.016	-0.289	19.998
GNAS	cg27027803	-0.061	0.214	-0.043	-0.383	9.143
GNAS	cg24975842	-0.074	0.207	-0.052	-0.378	9.143
GNAS	cg21988465	-0.083	0.135	-0.059	-0.369	11.730
GNAS	cg07284407	-0.105	0.163	-0.075	-0.363	11.730
GNAS	cg18619398	-0.059	0.218	-0.042	-0.329	13.672
GNAS	cg21625881	-0.041	0.151	-0.029	-0.299	17.895
GPSN2	cg12846938	-0.014	0.039	-0.010	-0.308	17.895
GPSN2	cg17162271	-0.019	0.069	-0.013	-0.282	19.998
HIST1H3A	cg09305770	-0.017	0.037	-0.012	-0.375	9.143
HIST1H3A	cg08797106	-0.065	0.123	-0.046	-0.354	11.730
HSPC268	cg02096656	-0.074	0.155	-0.053	-0.365	11.730
HSPC268	cg07819926	-0.015	0.037	-0.011	-0.338	13.672

HSPC268	cg07050831	-0.026	0.065	-0.019	-0.313	15.770
IGF2AS	cg12322132	-0.016	0.032	-0.011	-0.422	7.370
IGF2AS	cg04112019	-0.041	0.127	-0.029	-0.305	17.895
IGF2AS	cg25574024	0.186	0.782	0.132	0.345	19.998
IL1R1	cg15233681	-0.045	0.113	-0.032	-0.300	17.895
IL1R1	cg26657648	-0.056	0.116	-0.040	-0.298	17.895
KHK	cg01522194	-0.015	0.052	-0.010	-0.357	11.730
KHK	cg14527441	-0.007	0.024	-0.005	-0.326	15.770
KIAA1822	cg02867079	-0.023	0.042	-0.016	-0.471	5.743
KIAA1822	cg06834875	-0.018	0.043	-0.013	-0.351	11.730
LOC51315	cg12885244	-0.029	0.108	-0.020	-0.393	9.143
LOC51315	cg26602920	-0.041	0.065	-0.029	-0.363	11.730
MEST	cg13917504	-0.065	0.159	-0.046	-0.315	15.770
MEST	cg01888566	-0.070	0.311	-0.049	-0.300	17.895
MGC33302	cg03482087	-0.076	0.101	-0.054	-0.610	0.000
MGC33302	cg03883519	-0.091	0.295	-0.064	-0.413	7.370
MGC33302	cg15557833	-0.082	0.157	-0.058	-0.342	13.672
MGC42630	cg22543128	0.081	0.130	0.057	0.510	5.743
MGC42630	cg05174079	0.119	0.246	0.085	0.367	19.998
MGMT	cg02381948	-0.032	0.082	-0.023	-0.283	19.998
MGMT	cg14129786	-0.156	0.341	-0.110	-0.281	19.998
MGMT	cg07453748	0.061	0.133	0.043	0.376	19.998
MRPL12	cg22663117	-0.054	0.072	-0.038	-0.516	0.000
MRPL12	cg15214092	-0.071	0.155	-0.050	-0.371	11.730
MRPL12	cg01372689	-0.016	0.041	-0.011	-0.321	15.770
MST1	cg21958034	-0.037	0.205	-0.027	-0.340	13.672
MST1	cg12788313	-0.122	0.243	-0.087	-0.296	19.998
NNAT	cg23566503	-0.133	0.267	-0.094	-0.415	7.370
NNAT	cg10642330	-0.166	0.321	-0.118	-0.385	9.143
OBFC2B	cg25245322	-0.025	0.072	-0.018	-0.484	5.743
OBFC2B	cg17709466	-0.015	0.033	-0.011	-0.385	9.143
OBFC2B	cg22591065	-0.027	0.051	-0.019	-0.350	11.730
OBFC2B	cg14816013	0.016	0.813	0.011	-0.340	13.672
PEG10	cg16492735	-0.073	0.274	-0.052	-0.388	9.143
PEG10	cg08291000	-0.068	0.143	-0.048	-0.340	13.672
PEG3	cg14849423	-0.094	0.206	-0.067	-0.404	7.370

PEG3	cg19335327	-0.103	0.187	-0.073	-0.296	19.998
PLAGL1	cg25350411	-0.161	0.308	-0.114	-0.327	15.770
PLAGL1	cg17895149	-0.088	0.211	-0.062	-0.311	17.895
PLAGL1	cg12757684	-0.031	0.147	-0.022	-0.286	19.998
POLR2G	cg22176017	-0.026	0.070	-0.019	-0.302	17.895
POLR2G	cg11372696	-0.027	0.112	-0.019	-0.290	19.998
POLR3D	cg09037858	-0.033	0.062	-0.024	-0.365	11.730
POLR3D	cg01735903	-0.050	0.100	-0.035	-0.287	19.998
PSMB6	cg19921492	-0.101	0.139	-0.072	-0.493	5.743
PSMB6	cg24221059	-0.040	0.065	-0.029	-0.476	5.743
PYCARD	cg15468095	-0.033	0.084	-0.023	-0.313	15.770
PYCARD	cg09587549	-0.026	0.060	-0.019	-0.300	17.895
PYCARD	cg12100791	-0.028	0.077	-0.020	-0.292	19.998
RASSF5	cg24450312	-0.073	0.119	-0.052	-0.359	11.730
RASSF5	cg01860753	-0.099	0.211	-0.070	-0.319	15.770
RB1	cg19296958	0.075	0.122	0.053	0.401	17.895
RB1	cg01738359	0.013	0.039	0.009	0.355	19.998
RPUSD4	cg20278498	-0.067	0.111	-0.047	-0.434	7.370
RPUSD4	cg19857537	-0.010	0.031	-0.007	-0.280	19.998
SACM1L	cg26864061	-0.021	0.088	-0.015	-0.383	9.143
SACM1L	cg15602950	-0.014	0.042	-0.010	-0.317	15.770
SACM1L	cg04837898	-0.066	0.151	-0.047	-0.303	17.895
SETDB1	cg12082615	-0.016	0.027	-0.011	-0.418	7.370
SETDB1	cg17918089	-0.012	0.031	-0.009	-0.288	19.998
SFRS2	cg26815021	-0.076	0.137	-0.054	-0.427	7.370
SFRS2	cg00953277	-0.020	0.048	-0.014	-0.356	11.730
SLC37A1	cg17398613	-0.050	0.161	-0.036	-0.293	19.998
SLC37A1	cg13265003	-0.149	0.438	-0.106	-0.282	19.998
SMPDL3A	cg14426525	-0.043	0.101	-0.030	-0.355	11.730
SMPDL3A	cg22401066	-0.015	0.064	-0.010	-0.293	19.998
SRF	cg14839932	-0.023	0.082	-0.016	-0.299	17.895
SRF	cg00984602	-0.076	0.211	-0.054	-0.298	17.895
SSPN	cg24509668	-0.043	0.093	-0.030	-0.406	7.370
SSPN	cg19574623	-0.053	0.098	-0.038	-0.348	11.730
STIM1	cg01246405	-0.049	0.123	-0.035	-0.336	13.672
STIM1	cg06349174	-0.013	0.085	-0.009	-0.294	19.998

TGFB2	cg11976166	-0.122	0.254	-0.086	-0.470	5.743
TGFB2	cg16658719	-0.032	0.053	-0.023	-0.456	5.743
TRA2A	cg19747852	-0.037	0.054	-0.027	-0.450	5.743
TRA2A	cg00288562	-0.018	0.081	-0.013	-0.332	13.672
TRPM4	cg26623224	-0.034	0.071	-0.024	-0.419	7.370
TRPM4	cg25261908	-0.013	0.032	-0.009	-0.329	13.672
TRSPAP1	cg13857440	-0.072	0.110	-0.051	-0.497	5.743
TRSPAP1	cg10691259	-0.012	0.038	-0.008	-0.302	17.895
UGDH	cg27406727	-0.015	0.032	-0.011	-0.314	15.770
UGDH	cg09067967	-0.047	0.166	-0.033	-0.281	19.998
USP15	cg02776251	-0.082	0.196	-0.058	-0.318	15.770
USP15	cg12304441	-0.011	0.035	-0.008	-0.291	19.998
USP15	cg12823748	-0.023	0.059	-0.016	-0.281	19.998
WDR37	cg17947053	-0.055	0.099	-0.039	-0.440	7.370
WDR37	cg20716571	-0.030	0.090	-0.022	-0.286	19.998
ZC3H12A	cg15949277	-0.022	0.056	-0.016	-0.359	11.730
ZC3H12A	cg18891404	-0.010	0.029	-0.007	-0.326	15.770
ZIM2	cg02162069	-0.114	0.347	-0.081	-0.441	7.370
ZIM2	cg22354595	-0.096	0.168	-0.068	-0.377	9.143
ZIM2	cg19771589	-0.063	0.170	-0.045	-0.319	15.770
ZNF512	cg18611281	-0.043	0.088	-0.030	-0.397	9.143
ZNF512	cg19451391	0.140	0.866	0.099	-0.296	19.998
ZNF688	cg10665018	-0.069	0.118	-0.049	-0.489	5.743
ZNF688	cg01343729	-0.028	0.042	-0.020	-0.446	5.743
ZNF688	cg27586455	-0.020	0.045	-0.014	-0.371	11.730
ZNF688	cg11141013	-0.009	0.029	-0.006	-0.307	17.895

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