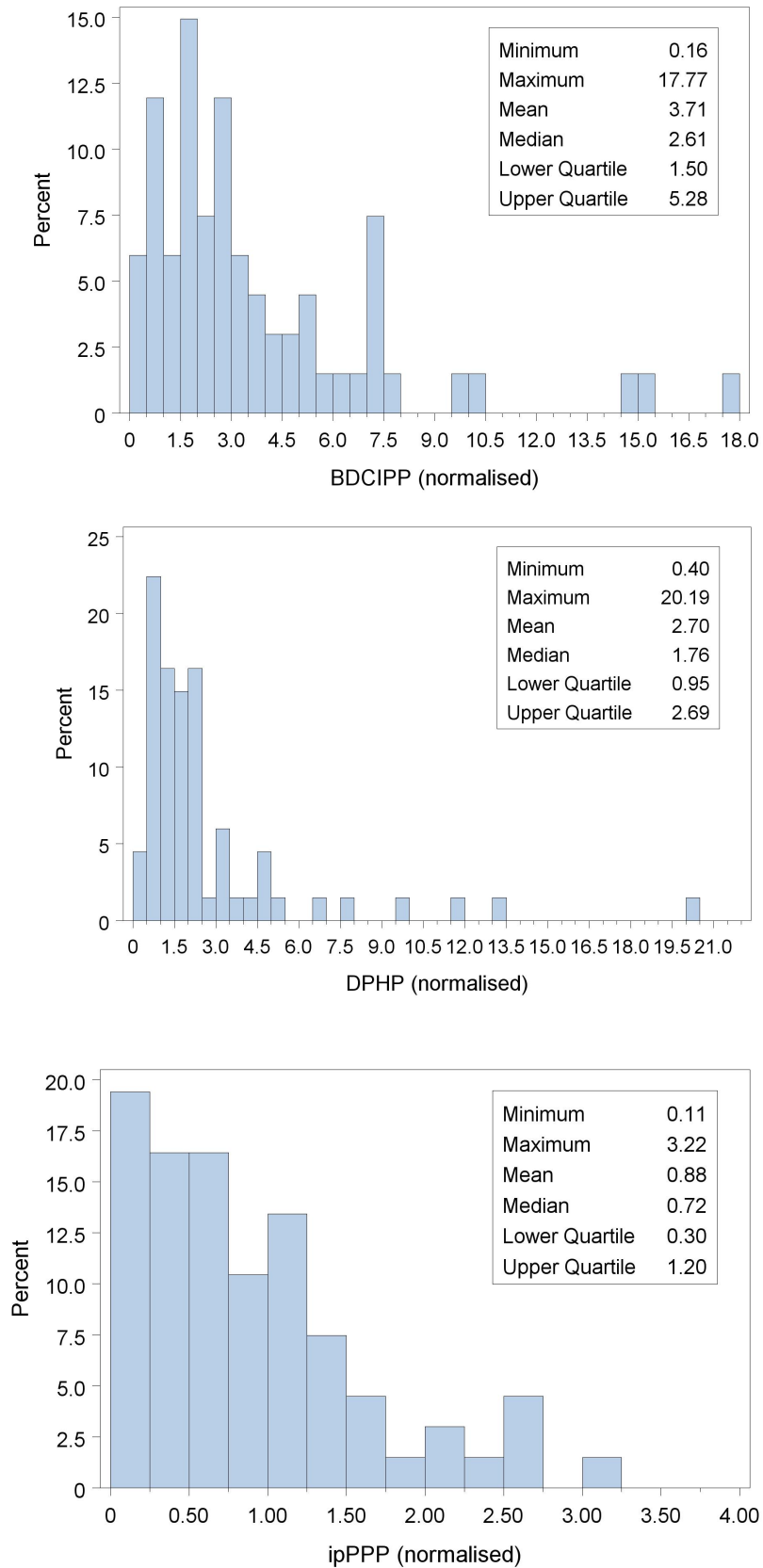


Supplementary data

Suppl. Figure 1. Distribution of normalized urinary concentrations of OPs in men aged 18 to 35 years old. Raw urinary OP concentrations were normalized taking into account the specific gravity of the urine sample, as previously described⁴⁴.



Suppl. Table 1. Urinary concentrations of OPs in TIEGER volunteers.

	Raw OP levels				Normalized OP levels			
	mean (ng/ml)	SD	median (ng/ml)	range	mean (ng/ml)	SD	median (ng/ml)	range
ipPPP	0.7	0.7	0.5	(0.1 - 3.2)	3.8	3.6	2.6	(0.2 - 17.8)
DPHP	1.9	2.6	1.2	(0.2 - 16.7)	2.7	3.3	1.8	(0.4 - 20.2)
BDCIPP	2.5	3.0	1.5	(0.1 - 16.6)	1.0	0.7	0.8	(0.1 - 3.2)

Suppl. Table 2. Descriptives of sperm DNA methylation % by CpG site at imprinted genes.

Gene	CpG site	mean	SD	min	max
<i>GRB10</i>	GRB10_CPG1	0.80	1.14	0.00	7.43
	GRB10_CPG2	2.83	0.97	1.65	8.83
	GRB10_CPG3	1.24	1.03	0.00	7.34
	GRB10_CPG4	1.20	1.05	0.00	6.99
	GRB10_CPG5	2.75	0.97	1.87	8.57
	GRB10_CPG6	2.12	0.95	1.62	8.03
<i>H19</i>	H19_CPG1	95.41	2.32	82.80	98.97
	H19_CPG2	68.11	6.10	47.32	80.21
	H19_CPG3	93.19	1.92	83.92	95.93
	H19_CPG4	95.54	1.69	84.62	97.26
<i>IGF2</i>	IGF2_CPG1	91.90	1.40	83.59	93.41
	IGF2_CPG2	92.84	2.35	85.89	98.25
	IGF2_CPG3	97.01	2.24	88.71	100.0
<i>MEG3</i>	MEG3_CPG1	0.66	2.08	0.00	12.18
	MEG3_CPG2	2.34	2.93	0.00	16.80
	MEG3_CPG3	1.46	3.07	0.00	17.15
	MEG3_CPG4	2.75	2.82	1.49	17.47
	MEG3_CPG5	1.39	3.04	0.00	18.51
	MEG3_CPG6	1.59	3.04	0.00	17.56
	MEG3_CPG7	2.16	2.91	0.53	17.96
	MEG3_CPG8	1.88	2.86	0.51	17.53
<i>MEG3-IG</i>	MEG3IG_CPG2	79.97	3.15	70.78	87.60
	MEG3IG_CPG3	74.14	2.19	65.20	77.73
	MEG3IG_CPG4	85.83	2.71	76.85	95.15
	MEG3IG_CPG5	80.06	2.46	69.81	84.85
<i>NDN</i>	NDN_CPG1	1.80	1.81	0.55	11.65
	NDN_CPG2	1.15	1.93	0.00	13.30
	NDN_CPG3	1.21	1.21	0.00	9.62
	NDN_CPG4	1.47	1.81	0.00	12.99
	NDN_CPG5	1.47	1.78	0.00	10.72
	NDN_CPG6	2.00	1.51	0.00	11.14
<i>NNAT</i>	NNAT_CPG1	0.65	1.91	0.00	10.80
	NNAT_CPG2	1.94	1.60	0.00	10.19
	NNAT_CPG3	3.03	1.76	0.00	11.27
<i>PEG1/MEST</i>	PEG1/MEST_CPG1	0.63	0.64	0.00	2.42
	PEG1/MEST_CPG2	1.26	0.50	0.00	3.15
	PEG1/MEST_CPG3	2.17	0.85	0.90	4.46
	PEG1/MEST_CPG4	2.45	1.15	0.00	5.45
<i>PEG3</i>	PEG3_CPG1	1.44	1.34	0.37	7.93
	PEG3_CPG2	1.56	1.48	0.62	8.61
	PEG3_CPG3	1.54	1.49	0.35	8.66
	PEG3_CPG4	1.10	1.26	0.00	7.06
	PEG3_CPG5	1.65	1.68	0.46	9.40
	PEG3_CPG6	0.99	1.52	0.00	8.10
	PEG3_CPG7	1.88	1.43	0.72	8.89
	PEG3_CPG8	0.88	1.29	0.00	6.91
	PEG3_CPG9	2.19	1.46	1.18	9.10
	PEG3_CPG10	1.94	1.31	0.51	7.65
<i>PLAGL1</i>	PLAGL1_CPG1	4.05	5.86	0.41	27.88
	PLAGL1_CPG2	3.92	5.86	0.00	27.67
	PLAGL1_CPG3	4.86	5.83	1.33	27.83
	PLAGL1_CPG4	4.12	5.77	0.00	28.31
	PLAGL1_CPG5	4.00	5.51	0.00	25.71
	PLAGL1_CPG6	3.52	5.16	0.00	24.65
<i>SGCE/PEG10</i>	SGCE/PEG10_CPG1	3.30	3.32	1.51	19.96
	SGCE/PEG10_CPG2	1.69	3.47	0.00	18.46
	SGCE/PEG10_CPG3	3.44	3.59	0.00	20.36
	SGCE/PEG10_CPG4	3.90	3.31	1.01	19.91
	SGCE/PEG10_CPG5	2.32	3.53	0.00	19.46
	SGCE/PEG10_CPG6	4.11	3.70	0.00	21.82
<i>SNRPN</i>	SNRPN_CPG1	2.49	1.05	0.98	8.16
	SNRPN_CPG2	1.54	0.95	0.36	7.04
	SNRPN_CPG3	1.76	1.10	1.02	7.37
	SNRPN_CPG4	0.68	0.88	0.00	5.86

Suppl. Table 3. Associations between normalized OPs and DNA methylation at CpG sites of imprinted genes: extended results.

Multivariable robust linear regression: adjusted for age and BMI status. Results are shown by increasing p-values; p<0.05 are marked in bold. * Indicates the associations that are still significant after D/AP correction, given a nominal alpha-level of 0.0031.

Gene	CpG site	BDCIPP		DHP		ipPPP	
		beta	p-value	beta	p-value	beta	p-value
<i>GRB10</i>	GRB10_CPG1	0.034	0.5703	-0.038	0.6280	0.091	0.1178
	GRB10_CPG2	0.004	0.7620	0.000	0.9822	0.019	0.2286
	GRB10_CPG3	0.034	0.3285	-0.002	0.9720	0.035	0.4030
	GRB10_CPG4	0.100	0.0636	-0.004	0.9473	0.014	0.8041
	GRB10_CPG5	0.029	0.0305	0.053	0.0022*	0.015	0.3399
	GRB10_CPG6	0.010	0.2463	0.015	0.1862	0.021	0.0244
<i>H19</i>	H19_CPG1	0.002	0.3672	0.001	0.7236	-0.005	0.0438
	H19_CPG2	-0.020	0.0482	-0.010	0.4345	0.001	0.9154
	H19_CPG3	-0.005	0.0026*	-0.004	0.0741	-0.001	0.6010
	H19_CPG4	-0.002	0.1592	-0.002	0.3178	-0.000	0.8466
<i>IGF2</i>	IGF2_CPG1	-0.001	0.3374	-0.000	0.8195	0.000	0.6913
	IGF2_CPG2	-0.003	0.3860	0.001	0.7963	0.003	0.4130
	IGF2_CPG3	0.000	0.8796	-0.001	0.8002	-0.001	0.7465
<i>MEG3</i>	MEG3_CPG1	0.031	0.2420	0.082	0.0107	0.055	0.0742
	MEG3_CPG2	0.032	0.2606	0.083	0.0337	0.120	0.0003*
	MEG3_CPG3	0.043	0.2150	0.079	0.0468	0.102	0.0036
	MEG3_CPG4	0.003	0.8872	0.053	0.0203	0.070	0.0008*
	MEG3_CPG5	-0.007	0.8206	0.033	0.4222	0.117	0.0021*
	MEG3_CPG6	0.009	0.8284	0.077	0.1334	0.111	0.0291
	MEG3_CPG7	0.022	0.2760	0.041	0.0924	0.058	0.0111
	MEG3_CPG8	0.010	0.7770	0.067	0.1258	0.112	0.0060
<i>MEG3-IG</i>	MEG3IG_CPG2	-0.006	0.1215	-0.012	0.0061	-0.003	0.5027
	MEG3IG_CPG3	-0.004	0.1445	-0.005	0.1753	0.001	0.7675
	MEG3IG_CPG4	-0.001	0.6569	-0.004	0.2651	0.001	0.7886
	MEG3IG_CPG5	-0.007	0.0021*	-0.006	0.0597	-0.001	0.7790
<i>NDN</i>	NDN_CPG1	0.015	0.6162	0.006	0.8810	0.111	0.0013*
	NDN_CPG2	-0.018	0.6419	-0.010	0.8387	0.028	0.5323
	NDN_CPG3	0.004	0.8364	0.006	0.8266	0.034	0.1456
	NDN_CPG4	0.036	0.3541	0.023	0.6380	0.097	0.0333
	NDN_CPG5	0.026	0.5858	-0.005	0.9306	0.132	0.0134
	NDN_CPG6	0.026	0.2521	0.029	0.3282	0.061	0.0140
<i>NNAT</i>	NNAT_CPG1	0.033	0.4708	-0.001	0.9927	0.105	0.0471
	NNAT_CPG2	0.014	0.7343	0.011	0.8305	0.034	0.4635
	NNAT_CPG3	0.012	0.7028	0.087	0.0343	0.069	0.0568
<i>PEG1/MEST</i>	PEG1/MEST_CPG1	-0.019	0.7191	-0.024	0.7258	-0.001	0.9886
	PEG1/MEST_CPG2	-0.010	0.6558	-0.000	0.9992	-0.013	0.6195
	PEG1/MEST_CPG3	0.016	0.6647	0.038	0.3964	0.011	0.7880
	PEG1/MEST_CPG4	0.008	0.8612	0.038	0.4893	-0.010	0.8414
<i>PEG3</i>	PEG3_CPG1	0.006	0.8430	0.024	0.4876	0.051	0.0934
	PEG3_CPG10	0.028	0.3101	0.043	0.1924	0.039	0.1936
	PEG3_CPG2	-0.012	0.6930	0.001	0.9867	0.039	0.2497
	PEG3_CPG3	0.020	0.4231	0.036	0.2602	0.052	0.0862
	PEG3_CPG4	0.013	0.7290	0.040	0.3781	0.068	0.1131
	PEG3_CPG5	0.003	0.9074	0.034	0.3424	0.053	0.0915
	PEG3_CPG6	0.060	0.2457	0.077	0.2221	0.104	0.0771
	PEG3_CPG7	0.031	0.2389	0.044	0.1560	0.053	0.0696
	PEG3_CPG8	0.029	0.5825	0.026	0.6833	0.058	0.3292
	PEG3_CPG9	0.015	0.5011	0.016	0.5626	0.036	0.1532
<i>PLAGL1</i>	PLAGL1_CPG1	-0.076	0.4178	0.257	0.0338	0.133	0.2503
	PLAGL1_CPG2	-0.051	0.6238	0.264	0.0385	0.157	0.1993
	PLAGL1_CPG3	-0.069	0.3110	0.105	0.2130	0.094	0.2225
	PLAGL1_CPG4	-0.065	0.5197	0.290	0.0203	0.166	0.1605
	PLAGL1_CPG5	-0.039	0.6867	0.307	0.0045	0.134	0.2181
	PLAGL1_CPG6	-0.099	0.2677	0.173	0.1105	0.084	0.4225
<i>SGCE</i>	SGCE_CPG1	-0.017	0.5135	0.025	0.4241	0.084	0.0047
	SGCE_CPG2	0.058	0.4657	0.230	0.0180	0.169	0.0698
	SGCE_CPG3	-0.017	0.6414	0.057	0.2066	0.076	0.0638
	SGCE_CPG4	0.014	0.7424	0.064	0.2120	0.092	0.0480
	SGCE_CPG5	0.067	0.4329	0.120	0.2506	0.192	0.0408
	SGCE_CPG6	0.022	0.6445	0.121	0.0226	0.090	0.1014
<i>SNRPN</i>	SNRPN_CPG1	0.039	0.1098	0.051	0.0742	0.073	0.0072
	SNRPN_CPG2	0.034	0.2141	0.053	0.0944	0.088	0.0014*
	SNRPN_CPG3	0.023	0.3177	0.056	0.0519	0.052	0.0442
	SNRPN_CPG4	0.063	0.1455	0.103	0.0670	0.125	0.0104

Suppl. Table 4. Associations between raw values of OPs and DNA methylation at CpG sites of imprinted genes.

Multivariable robust linear regression: adjusted for age and BMI status. Results are shown by increasing p-values; p<0.05 are marked in bold. * Indicates the associations that are still significant after D/AP correction, given a nominal alpha-level of 0.0031.

Gene	CpG site	BDCIPP		DHP		ipPPP	
		beta	p-value	beta	p-value	beta	p-value
<i>IGF2</i>	IGF2_CPG1	0.000	0.9609	0.001	0.4236	0.082	0.0534
	IGF2_CPG2	0.000	0.9135	0.003	0.3670	0.018	0.1414
	IGF2_CPG3	0.000	0.9740	-0.001	0.7520	0.042	0.1642
<i>GRB10</i>	GRB10_CPG1	0.065	0.1724	0.026	0.6624	0.031	0.4559
	GRB10_CPG2	0.009	0.4806	0.008	0.5924	0.015	0.2506
	GRB10_CPG3	0.049	0.1257	0.029	0.4173	0.014	0.0579
	GRB10_CPG4	0.114	0.0169	0.033	0.5091	-0.004	0.0299
	GRB10_CPG5	0.031	0.0086	0.035	0.0098	-0.002	0.8001
	GRB10_CPG6	0.011	0.1908	0.012	0.1509	-0.001	0.4382
<i>H19</i>	H19_CPG1	0.000	0.8025	-0.001	0.7491	-0.001	0.4544
	H19_CPG2	-0.019	0.0415	-0.010	0.3113	0.001	0.2909
	H19_CPG3	-0.004	0.0022*	-0.003	0.0683	0.003	0.2578
	H19_CPG4	-0.002	0.0487	-0.002	0.1610	-0.001	0.7280
<i>MEG3</i>	MEG3_CPG1	0.005	0.8231	0.025	0.3335	0.012	0.5894
	MEG3_CPG2	0.012	0.6334	0.032	0.2375	0.059	0.0221
	MEG3_CPG3	0.031	0.2972	0.047	0.1401	0.036	0.0443
	MEG3_CPG4	-0.007	0.6465	0.019	0.2675	0.033	0.0314
	MEG3_CPG5	-0.017	0.5083	0.002	0.9509	0.043	0.1152
	MEG3_CPG6	-0.009	0.8001	0.030	0.4526	0.049	0.1910
	MEG3_CPG7	0.009	0.5891	0.016	0.3751	0.026	0.1230
	MEG3_CPG8	-0.013	0.6706	0.019	0.5718	0.036	0.2465
<i>MEG3-IG</i>	MEG3IG_CPG2	-0.003	0.3323	-0.005	0.1530	-0.000	0.9388
	MEG3IG_CPG3	-0.000	0.9290	0.001	0.8297	0.003	0.2299
	MEG3IG_CPG4	0.001	0.7349	0.000	0.8655	0.002	0.3538
	MEG3IG_CPG5	-0.004	0.0842	-0.001	0.7826	0.001	0.5576
<i>NDN</i>	NDN_CPG1	0.018	0.4866	0.013	0.6661	0.062	0.0164
	NDN_CPG2	-0.014	0.6874	-0.004	0.9087	0.015	0.6429
	NDN_CPG3	-0.003	0.8578	-0.005	0.7979	0.013	0.4263
	NDN_CPG4	0.036	0.2853	0.021	0.5830	0.037	0.0933
	NDN_CPG5	0.022	0.5871	0.000	0.9986	0.073	0.0779
	NDN_CPG6	0.023	0.2492	0.018	0.4245	0.033	0.0762
<i>NNAT</i>	NNAT_CPG1	0.041	0.3182	0.016	0.7228	0.075	0.0698
	NNAT_CPG2	0.018	0.6099	0.012	0.7634	0.024	0.4903
	NNAT_CPG3	0.015	0.6002	0.077	0.0237	0.046	0.1027
<i>PEG1/MEST</i>	PEG1/MEST_CPG1	-0.024	0.6092	-0.024	0.6402	-0.009	0.8505
	PEG1/MEST_CPG2	-0.009	0.6607	-0.002	0.9371	-0.009	0.6414
	PEG1/MEST_CPG3	0.041	0.1886	0.051	0.1301	0.030	0.3460
	PEG1/MEST_CPG4	0.030	0.4373	0.053	0.2220	0.021	0.6020
<i>PEG3</i>	PEG3_CPG1	0.006	0.8097	0.017	0.5239	0.031	0.1880
	PEG3_CPG10	0.030	0.1876	0.036	0.1494	0.031	0.1484
	PEG3_CPG2	-0.005	0.8648	0.006	0.8304	0.026	0.2869
	PEG3_CPG3	0.014	0.5216	0.018	0.4684	0.028	0.2289
	PEG3_CPG4	0.019	0.5499	0.036	0.3130	0.049	0.1304
	PEG3_CPG5	0.012	0.6110	0.031	0.2346	0.041	0.0820
	PEG3_CPG6	0.058	0.1901	0.060	0.2074	0.075	0.0944
	PEG3_CPG7	0.027	0.2129	0.031	0.1791	0.032	0.1416
	PEG3_CPG8	0.033	0.4600	0.029	0.5606	0.043	0.3254
	PEG3_CPG9	0.014	0.4668	0.012	0.5637	0.023	0.2136
<i>PLAGL1</i>	PLAGL1_CPG1	-0.107	0.1799	0.079	0.3991	0.018	0.8173
	PLAGL1_CPG2	-0.083	0.3516	0.092	0.3546	0.037	0.6783
	PLAGL1_CPG3	-0.066	0.2601	0.047	0.4650	0.039	0.4997
	PLAGL1_CPG4	-0.076	0.3886	0.132	0.1719	0.058	0.4978
	PLAGL1_CPG5	-0.073	0.3967	0.125	0.1575	0.031	0.7068
	PLAGL1_CPG6	-0.112	0.1419	0.056	0.5225	0.007	0.9296
<i>SGCE</i>	SGCE_CPG1	-0.020	0.3840	0.007	0.7845	0.034	0.0948
	SGCE_CPG2	0.022	0.7528	0.107	0.1522	0.023	0.2704
	SGCE_CPG3	-0.036	0.2662	0.007	0.8260	0.025	0.4057
	SGCE_CPG4	-0.002	0.9610	0.025	0.5248	0.039	0.2825
	SGCE_CPG5	0.031	0.6749	0.051	0.5366	0.085	0.2218
	SGCE_CPG6	-0.000	0.9917	0.049	0.2502	0.032	0.4298
<i>SNRPN</i>	SNRPN_CPG1	0.029	0.1672	0.029	0.1762	0.039	0.0510
	SNRPN_CPG2	0.028	0.2230	0.034	0.1631	0.050	0.0154
	SNRPN_CPG3	0.024	0.2344	0.043	0.0496	0.035	0.0652
	SNRPN_CPG4	0.062	0.0894	0.076	0.0681	0.081	0.0251

Suppl. Table 5. Associations between total motile sperm count or motility and DNA methylation at imprinted genes

Spearman correlation coefficients are shown. Significant results are shown in bold.

* If significant and if DNA methylation at this site was also associated with ipPPP exposure.

Gene	CpG site	TMC		Motility	
		rho	p-value	rho	p-value
GRB10	GRB10_CPG1	-0.01516	0.9085	-0.10239	0.4363
	GRB10_CPG2	-0.06947	0.5979	0.01601	0.9034
	GRB10_CPG3	-0.25947	0.0453	-0.16911	0.1965
	GRB10_CPG4	-0.11010	0.4024	-0.02440	0.8532
	GRB10_CPG5	-0.04074	0.7573	0.00165	0.9900
	GRB10_CPG6	-0.19859	0.1282	-0.20683	0.1128
H19	H19_CPG1	0.13360	0.2966	0.11185	0.3828
	H19_CPG2	0.08101	0.5279	-0.00384	0.9762
	H19_CPG3	0.16496	0.1964	0.15972	0.2112
	H19_CPG4	0.27906	0.0268	0.09603	0.4541
IGF2	IGF2_CPG1	0.10189	0.4307	0.12052	0.3508
	IGF2_CPG2	0.15236	0.2371	0.24042	0.0598
	IGF2_CPG3	0.13382	0.2998	0.21262	0.0971
MEG3	MEG3_CPG1	-0.21121	0.0887	0.00043	0.9973
	MEG3_CPG2*	-0.32750	0.0073	-0.06859	0.5842
	MEG3_CPG3	-0.17985	0.1485	-0.09481	0.4489
	MEG3_CPG4*	-0.40661	0.0007	-0.16590	0.1831
	MEG3_CPG5*	-0.44208	0.0002	-0.21533	0.0825
	MEG3_CPG6*	-0.39876	0.0009	-0.18270	0.1420
	MEG3_CPG7*	-0.35529	0.0034	-0.24640	0.0461
	MEG3_CPG8*	-0.29132	0.0176	-0.13552	0.2779
MEG-IG	MEG3IG_CPG2	0.08492	0.4978	0.05635	0.6532
	MEG3IG_CPG3	0.19555	0.1156	0.11897	0.3414
	MEG3IG_CPG4	-0.06497	0.6043	0.00559	0.9644
	MEG3IG_CPG5	0.12123	0.3322	0.06054	0.6292
NDN	NDN_CPG1	-0.05635	0.6583	-0.12106	0.3406
	NDN_CPG2	-0.20154	0.1103	-0.19435	0.1238
	NDN_CPG3	-0.22037	0.0802	-0.18777	0.1373
	NDN_CPG4	-0.19684	0.1190	-0.03112	0.8072
	NDN_CPG5*	-0.27435	0.0282	0.02524	0.8431
	NDN_CPG6	-0.12359	0.3306	-0.03647	0.7748
NNAT	NNAT_CPG1	-0.08511	0.5291	-0.23354	0.0804
	NNAT_CPG2	-0.24402	0.0674	-0.18806	0.1612
	NNAT_CPG3	-0.26989	0.0423	0.10408	0.4410
PEG1/MEST	PEG1/MEST_CPG1	-0.03734	0.7714	0.27792	0.0274
	PEG1/MEST_CPG2	-0.04543	0.7237	-0.06346	0.6212
	PEG1/MEST_CPG3	0.11788	0.3575	0.13488	0.2919
	PEG1/MEST_CPG4	0.09397	0.4638	0.07448	0.5618
PEG3	PEG3_CPG1	-0.36818	0.0024	-0.20984	0.0908
	PEG3_CPG2	-0.33532	0.0059	-0.27167	0.0273
	PEG3_CPG3	-0.31424	0.0102	-0.21333	0.0855
	PEG3_CPG4	-0.27439	0.0258	-0.17258	0.1658
	PEG3_CPG5	-0.38614	0.0014	-0.24467	0.0477
	PEG3_CPG6	-0.33170	0.0065	-0.23797	0.0543
	PEG3_CPG7	-0.24264	0.0496	-0.23552	0.0570
	PEG3_CPG8	-0.20667	0.0959	-0.25008	0.0429
	PEG3_CPG9	-0.32743	0.0073	-0.29958	0.0145
	PEG3_CPG10	-0.28393	0.0209	-0.21286	0.0862
PLAGL1	PLAGL1_CPG1	-0.29084	0.0207	-0.36203	0.0036
	PLAGL1_CPG2	-0.29927	0.0172	-0.36739	0.0031
	PLAGL1_CPG3	-0.32779	0.0087	-0.45574	0.0002
	PLAGL1_CPG4	-0.26953	0.0327	-0.38792	0.0017
	PLAGL1_CPG5	-0.26475	0.0360	-0.36754	0.0030
	PLAGL1_CPG6	-0.22474	0.0766	-0.44046	0.0003
SGCE/PEG10	SGCE_CPG1*	-0.29062	0.0188	-0.25194	0.0429
	SGCE_CPG2	-0.21558	0.0846	-0.11384	0.3666
	SGCE_CPG3	-0.26013	0.0364	-0.02584	0.8381
	SGCE_CPG4	-0.21511	0.0853	-0.11354	0.3678
	SGCE_CPG5	-0.27673	0.0256	-0.18885	0.1319
	SGCE_CPG6	-0.21348	0.0877	-0.08853	0.4831
SNRPN	SNRPN_CPG1*	-0.24920	0.0453	-0.14167	0.2603
	SNRPN_CPG2*	-0.24555	0.0487	-0.04013	0.7510
	SNRPN_CPG3	-0.25936	0.0369	-0.20785	0.0966
	SNRPN_CPG4*	-0.27881	0.0245	-0.17219	0.1702