

NR3C1 gene methylation and cortisol levels in preterm and healthy full-term infants in the first three months of life.

Table S5 – Crude means of the percentage of methylation on days 0, 5, 30 and D* (day of discharge for preterm infants or D90 for term infants), and estimated beta coefficient of variation over time in both groups.

CpG sites	Day	Term newborns				Preterm newborns			
		Mean (SD)	beta	95%CI	p-value	Mean (SD)	beta	95%CI	p-value
CpG8	D0	0.04 (0.31)				0.00 (0.00)			
	D5	0.00 (0.00)	0.020	-0.027; 0.067	0.3995	0.00 (0.00)	0.000	-	-
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.17 (0.90)				0.00 (0.00)			
CpG9	D0	0.00 (0.00)				0.05 (0.33)			
	D5	0.00 (0.00)	0.050	0.033; 0.065	<.0001	0.00 (0.00)	-0.021	-0.048; 0.007	0.1375
	D30	0.06 (0.34)				0.00 (0.00)			
	D*	0.24 (0.91)				0.00 (0.00)			
CpG10	D0	0.00 (0.00)				0.00 (0.00)			
	D5	0.00 (0.00)	0.045	0.022; 0.068	0.0001	0.00 (0.00)	0.000	-	-
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.23 (0.87)				0.00 (0.00)			
CpG11	D0	0.05 (0.36)				0.03 (0.22)			
	D5	0.00 (0.00)	0.016	0.019; 0.050	0.3697	0.00 (0.00)	-0.016	-0.040; 0.007	0.1733
	D30	0.08 (0.41)				0.00 (0.00)			
	D*	0.12 (0.62)				0.00 (0.00)			
CpG12	D0	2.71 (6.11)				3.87 (6.10)			
	D5	2.06 (5.45)	0.004	-0.010; 0.018	0.5747	3.16 (6.49)	-0.014	-0.027; -0.001	0.034
	D30	2.96 (6.07)				2.75 (4.94)			
	D*	3.23 (6.16)				0.77 (1.11)			
CpG13	D0	0.33 (0.70)				0.37 (0.70)			
	D5	0.28 (0.64)	0.021	0.010; 0.032	0.0003	0.26 (0.63)	0.005	-0.008; 0.017	0.4787
	D30	1.33 (2.70)				0.27 (0.68)			
	D*	0.99 (2.78)				0.46 (0.83)			
CpG14	D0	0.42 (1.46)				0.56 (1.45)			
	D5	0.30 (0.89)	-0.013	-0.052; 0.025	0.4960	0.00 (0.00)	-0.012	-0.063; 0.039	0.6441
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.09 (0.48)				0.15 (0.50)			
CpG15	D0	0.09 (0.48)				0.46 (1.36)			
	D5	0.00 (0.00)	-0.015	-0.062; 0.032	0.5375	0.00 (0.00)	-0.048	-0.078; -0.019	0.0013
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.09 (0.49)				0.00 (0.00)			
CpG16	D0	0.74 (1.67)				1.06 (2.12)			
	D5	0.00 (0.00)	-0.025	-0.053; 0.002	0.0727	0.27 (0.94)	-0.061	-0.079; -0.044	<.0001
	D30	0.32 (1.19)				0.00 (0.00)			
	D*	0.08 (0.43)				0.00 (0.00)			
CpG17	D0	1.09 (2.74)				0.62 (1.79)			
	D5	0.13 (0.50)	-0.023	-0.053; 0.007	0.1343	0.20 (0.74)	-0.019	-0.049; 0.011	0.2228
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.17 (0.66)				0.12 (0.48)			
CpG18	D0	0.26 (1.40)				0.47 (1.53)			
	D5	0.00 (0.00)	-0.043	-0.072; -0.015	0.0029	0.11 (0.51)	-0.010	-0.042; 0.023	0.5636
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.00 (0.00)				0.18 (0.71)			
CpG19	D0	1.31 (3.13)				1.19 (2.47)			
	D5	1.37 (3.36)	-0.007	-0.025; 0.012	0.4591	0.58 (2.51)	-0.033	-0.055; -0.012	0.0020
	D30	1.32 (2.97)				0.35 (1.43)			
	D*	0.79 (3.11)				0.08 (0.34)			
CpG20	D0	0.06 (0.39)				0.00 (0.00)			
	D5	0.00 (0.00)	-0.024	-0.053; 0.005	0.1040	0.00 (0.00)	0.000	-	-
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.00 (0.00)				0.00 (0.00)			

Table S5 (cont.) – Crude means of the percentage of methylation on days 0, 5, 30 and D* (day of discharge for preterm infants or D90 for term infants), and estimated beta coefficient of variation over time in both groups.

CpG sites	Day	Term newborns				Preterm newborns			
		Mean (SD)	beta	95%CI	p-value	Mean (SD)	beta	95%CI	p-value
CpG21	D0	0.76 (2.16)				0.64 (1.54)			
	D5	1.08 (2.25)	0.017	0.008; 0.026	0.0001	0.82 (1.93)	-0.009	-0.020; 0.002	0.1174
	D30	2.94 (3.72)				0.54 (1.47)			
	D*	2.93 (3.97)				0.59 (1.16)			
CpG22	D0	0.10 (0.54)				0.50 (1.37)			
	D5	0.00 (0.00)	-0.029	-0.059; 0.000	0.0530	0.13 (0.53)	-0.004	-0.029; 0.021	0.7477
	D30	0.00 (0.00)				0.11 (0.46)			
	D*	0.00 (0.00)				0.27 (0.70)			
CpG23	D0	0.00 (0.00)				0.09 (0.52)			
	D5	0.00 (0.00)	0.000	-	-	0.00 (0.00)	0.004	-0.043; 0.052	0.8582
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.00 (0.00)				0.08 (0.41)			
CpG24	D0	0.30 (0.96)				0.57 (1.47)			
	D5	0.00 (0.00)	-0.044	-0.063; -0.025	<.0001	0.28 (1.30)	-0.006	-0.034; 0.022	0.6606
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.00 (0.00)				0.28 (0.84)			
CpG25	D0	0.00 (0.00)				0.00 (0.00)			
	D5	0.00 (0.00)	-	-	-	0.00 (0.00)	-	-	-
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.00 (0.00)				0.00 (0.00)			
CpG26	D0	0.00 (0.00)				0.09 (0.53)			
	D5	0.09 (0.47)	-0.025	-0.049; -0.001	0.0388	0.00 (0.00)	-0.028	-0.059; 0.004	0.0896
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.00 (0.00)				0.00 (0.00)			
CpG27	D0	0.00 (0.00)				0.00 (0.00)			
	D5	0.58 (3.11)	-0.051	-0.080; -0.022	0.0005	0.00 (0.00)	0.000	-	-
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.00 (0.00)				0.00 (0.00)			
CpG28	D0	0.00 (0.00)				0.00 (0.00)			
	D5	0.00 (0.00)	0.000	0.000; 0.000	-	0.00 (0.00)	0.051	0.046; 0.056	<.0001
	D30	0.00 (0.00)				0.21 (0.52)			
	Dd	0.00 (0.00)				0.05 (0.26)			
CpG29	D0	0.30 (1.74)				0.00 (0.00)			
	D5	0.27 (1.46)	0.010	-0.019; 0.039	0.4818	0.00 (0.00)	0.000	-	-
	D30	0.59 (2.43)				0.00 (0.00)			
	D*	0.49 (2.31)				0.00 (0.00)			
CpG30	D0	0.19 (0.75)				0.18 (0.79)			
	D5	0.15 (0.56)	-0.045	-0.061; -0.029	<.0001	0.05 (0.29)	-0.040	-0.066; -0.014	0.0030
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.00 (0.00)				0.00 (0.00)			
CpG31	D0	0.31 (1.05)				0.29 (0.94)			
	D5	0.25 (0.67)	-0.052	-0.066; -0.037	<.0001	0.06 (0.34)	-0.045	-0.068; -0.022	0.0001
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.00 (0.00)				0.00 (0.00)			
CpG32	D0	0.00 (0.00)				0.00 (0.00)			
	D5	0.00 (0.00)	0.062	0.046; 0.078	<.0001	0.00 (0.00)	0.092	0.055; 0.130	<.0001
	D30	0.32 (0.96)				0.25 (0.67)			
	D*	0.00 (0.00)				0.00 (0.00)			
CpG33	D0	0.22 (0.90)				0.20 (0.91)			
	D5	0.27 (0.85)	-0.052	-0.065; -0.039	<.0001	0.00 (0.00)	-0.004	-0.045; 0.037	0.8470
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.00 (0.00)				0.08 (0.46)			

Table S5 (cont.) – Crude means of the percentage of methylation on days 0, 5, 30 and D* (day of discharge for preterm infants or D90 for term infants), and estimated beta coefficient of variation over time in both groups.

CpG sites	Day	Term newborns				Preterm newborns			
		Mean (SD)	beta	95%CI	p-value	Mean (SD)	beta	95%CI	p-value
CpG34	D0	0.08 (0.49)				0.12 (0.58)			
	D5	0.14 (0.53)	0.011	-0.025; 0.047	0.5359	0.00 (0.00)	-0.033	-0.058; -0.007	0.013
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.29 (1.07)				0.00 (0.00)			
CpG35	D0	0.00 (0.00)				0.03 (0.20)			
	D5	0.00 (0.00)	0.000	-	-	0.00 (0.00)	-0.016	-0.039; 0.007	0.1788
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.00 (0.00)				0.00 (0.00)			
CpG36	D0	0.67 (1.98)				0.08 (0.38)			
	D5	0.30 (0.81)	0.030	0.017; 0.042	<.0001	0.55 (1.77)	0.000	-0.014; 0.015	0.9756
	D30	3.78 (6.01)				0.24 (0.84)			
	D*	1.83 (2.47)				0.25 (0.80)			
CpG37	D0	0.31 (1.13)				0.30 (1.41)			
	D5	0.19 (0.74)	0.022	0.005; 0.039	0.0112	0.21 (0.81)	-0.013	-0.050; 0.023	0.4715
	D30	1.50 (4.05)				0.06 (0.39)			
	D*	1.23 (4.05)				0.11 (0.49)			
CpG38	D0	2.10 (2.45)				2.28 (2.87)			
	D5	2.28 (2.28)	0.014	0.007; 0.022	0.0002	1.82 (2.00)	0.0028	-0.008; 0.014	0.6250
	D30	3.70 (3.96)				1.70 (1.72)			
	D*	4.02 (3.72)				2.83 (4.76)			
CpG39	D0	1.40 (2.60)				2.06 (3.26)			
	D5	1.84 (2.31)	-0.010	-0.021; 0.020	0.100	1.24 1.95	-0.007	-0.016; 0.003	0.1873
	D30	1.52 (3.46)				1.12 (1.40)			
	D*	0.76 (1.51)				1.14 (1.31)			
CpG40	D0	0.00 (0.00)				0.61 (2.94)			
	D5	0.98 (2.66)	-0.058	-0.079; -0.037	<.0001	0.71 (2.65)	-0.015	-0.039; 0.009	0.2162
	D30	0.00 (0.00)				0.31 (0.77)			
	D*	0.00 (0.00)				0.24 (0.74)			
CpG41	D0	0.00 (0.00)				0.13 (0.68)			
	D5	0.00 (0.00)	0.000	-	-	0.05 (0.30)	-0.036	-0.060; -0.011	0.0049
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.00 (0.00)				0.00 (0.00)			
CpG42	D0	0.32 (0.94)				2.15 (3.04)			
	D5	1.97 (6.36)	-0.016	-0.042; 0.011	0.2403	1.50 (1.49)	-0.004	-0.013; 0.004	0.2910
	D30	0.11 (0.56)				1.13 (1.32)			
	D*	0.31 (0.75)				1.44 (1.42)			
CpG43	D0	0.00 (0.00)				0.19 (0.76)			
	D5	0.14 (0.65)	-0.030	-0.060; 0.001	0.044	0.07 (0.40)	-0.017	-0.042; 0.008	0.1882
	D30	0.00 (0.00)				0.09 (0.32)			
	D*	0.00 (0.00)				0.03 (0.18)			
CpG44	D0	0.00 (0.00)				0.11 (0.66)			
	D5	0.22 (0.72)	-0.036	-0.058; -0.014	0.0016	0.00 (0.00)	-0.010	-0.046; 0.027	0.6076
	D30	0.00 (0.00)				0.03 (0.17)			
	D*	0.00 (0.00)				0.03 (0.15)			
CpG45	D0	0.12 (0.46)				0.29 (1.01)			
	D5	0.24 (0.82)	-0.014	-0.052; 0.024	0.4644	0.53 (1.17)	-0.001	-0.026; 0.008	0.3004
	D30	0.00 (0.00)				0.25 (0.64)			
	D*	0.08 (0.35)				0.17 (0.48)			
CpG46	D0	0.00 (0.00)				0.16 (0.91)			
	D5	0.29 (1.01)	-0.041	-0.064; -0.018	0.0005	0.12 (0.60)	-0.016	0.052; 0.020	0.3877
	D30	0.00 (0.00)				0.00 (0.00)			
	D*	0.00 (0.00)				0.04 (0.25)			
CpG47	D0	0.04 (0.23)				0.93 (2.79)			
	D5	0.41 (1.11)	0.020	-0.010; 0.051	0.1971	0.33 (0.68)	-0.008	-0.022; 0.005	0.2176
	D30	0.46 (1.95)				0.42 (0.70)			
	D*	0.94 (2.17)				0.45 (0.67)			
Total Meth.	D0	0.40 (1.76)				0.54 (1.94)			
	D5	0.44 (1.90)	0.006	-0.005; 0.017	0.3116	0.36 (1.64)	-0.008	-0.014; -0.001	0.0241
	D30	0.59 (2.33)				0.27 (1.21)			
	D*	0.51 (2.09)				0.28 (1.12)			

Total Meth – total methylation