

Supplementary Table 1. Ancestry-Specific Associations of Cord Blood Metabolites with Newborn Outcomes

	C-peptide				Birth Weight				Sum of Skinfolds			
	Model 1		Model 2		Model 1		Model 3		Model 1		Model 3	
	Beta	p	Beta	p	Beta	p	Beta	p	Beta	p	Beta	p
Afro-Caribbean Ancestry												
Amino Acids and Related Metabolites												
Glycine	-0.0023	0.064	-0.002	0.12	2.64	0.007	2.99	0.001	0.009	0.024	0.011	0.006
Histidine	0.0031	0.14	0.0037	0.12	5.04	0.007	4.63	0.005	0.02	0.009	0.019	0.009
AC C4/Ci4	0.12	0.21	0.094	0.38	-120.25	0.18	-150.47	0.053	-0.58	0.11	-0.71	0.029
Serine	-0.0054	0.03	-0.005	0.054	4.81	0.018	5.6	0.002	0.014	0.1	0.018	0.017
Threonine	-0.01	0.83	-0.021	0.76	81.66	0.009	82.25	0.004	0.26	0.2	0.26	0.15
Acylcarnitines and Related Metabolites												
AC C8:1	-0.016	0.53	-0.028	0.55	115.38	0.054	113.77	0.034	0.52	0.029	0.52	0.017
AC C10:3	-0.006	0.57	-0.0023	0.71	108.53	0.054	106.07	0.034	0.53	0.024	0.53	0.012
AC C10:2	-0.068	0.33	-0.05	0.48	124.33	0.086	133.62	0.034	0.44	0.14	0.49	0.052
AC C10:1	-0.16	0.064	-0.16	0.065	99.13	0.17	128.27	0.034	0.37	0.17	0.49	0.052
AC C10-OH/C8-DC	0.027	0.45	0.03	0.52	106.22	0.039	101.38	0.033	0.36	0.1	0.34	0.055
AC C12:1	-0.19	0.018	-0.17	0.037	59.2	0.35	89.93	0.094	0.29	0.19	0.43	0.052
AC C12	-0.23	0.018	-0.23	0.021	36.5	0.55	72.59	0.18	0.17	0.46	0.33	0.17
AC C14:2	-0.22	0.009	-0.2	0.021	31.63	0.55	67.17	0.17	0.15	0.46	0.3	0.14
AC C14:1	-0.17	0.03	-0.16	0.049	-5.4	0.73	21.38	0.39	0.06	0.62	0.18	0.29
Fatty Acid and Related Metabolites												
NEFA	-1.75	1.04E-04	-1.66	2.14E-04	173.78	0.55	487.33	0.13	0.68	0.52	2.04	0.11
Palmitoleic acid	-0.12	0.002	-0.11	0.005	15.98	0.6	39.37	0.18	0.091	0.68	0.2	0.16
Lipids and Related Metabolites												
AC C4-OH	-0.07	0.12	-0.078	0.11	79.8	0.039	91.21	0.006	0.21	0.16	0.26	0.052
3-Hydroxybutyrate	-0.087	0.024	-0.089	0.022	71.25	0.018	87.65	0.001	0.17	0.16	0.24	0.033
Triglycerides	-0.0097	6.81E-04	-0.009	0.002	-2.31	0.34	-0.83	0.39	-0.012	0.19	-0.0049	0.36
Cholesterol	-0.01	0.83	-0.0018	0.91	63.27	0.065	68.42	0.018	0.21	0.24	0.23	0.15
5-alpha-Coprostanol or similar oxysterol	-0.09	0.034	-0.083	0.075	-5.75	0.71	12.06	0.67	-0.061	0.76	0.016	0.84
Carbohydrates and Related Metabolites												
Erythritol/Theitol	0.088	0.034	0.089	0.039	10.54	0.64	-1.55	0.77	0.11	0.59	0.06	0.66
Erythronic acid/Threonic acid	0.092	0.032	0.098	0.022	14.46	0.64	1.88	0.77	0.094	0.67	0.043	0.74
Fructose or similar ketohexose	0.088	0.034	0.07	0.13	-61.31	0.065	-76.52	0.01	-0.17	0.32	-0.24	0.15
Gluconic acid or similar sugar acid	0.11	0.003	0.095	0.022	19.38	0.57	2.31	0.77	0.0096	0.91	-0.075	0.62
1,5-Anhydroglucitol	-0.097	0.021	-0.077	0.081	-57.19	0.065	-46.85	0.11	-0.19	0.26	-0.13	0.33
Miscellaneous												
O-Methylphosphate	-0.0071	0.85	-0.0095	0.91	78.44	0.009	81.25	0.004	0.21	0.24	0.22	0.15
Northern European												
Amino Acids and Related Metabolites												
Histidine	-0.0012	0.44	-0.0015	0.34	4.24	0.028	4.36	0.016	0.015	0.49	0.015	0.35
Leucine/Isoleucine	-0.0037	0.009	-0.0045	9.65E-04	1.09	0.46	1.57	0.25	0.0045	0.68	0.0054	0.75

Serine	-0.0036	0.057	-0.0043	0.022	1.82	0.37	2.29	0.25	0.015	0.49	0.016	0.35
Acylcarnitines and Related Metabolites												
AC C12:1	-0.19	0.015	-0.2	0.004	-4.26	0.92	24.81	0.79	-0.067	0.92	0.041	0.92
AC C12	-0.22	0.004	-0.23	9.99E-04	-94.78	0.32	-55.03	0.49	-0.43	0.6	-0.25	0.76
AC C12-OH/C10-DC	-0.12	0.055	-0.13	0.032	43.36	0.52	66.58	0.27	0.13	0.78	0.23	0.75
AC C14:2	-0.26	0.003	-0.28	8.99E-04	-161.75	0.098	-119.5	0.24	-0.45	0.67	-0.25	0.76
AC C14:1	-0.27	9.83E-05	-0.28	3.64E-05	-128.15	0.098	-79.46	0.25	-0.42	0.6	-0.19	0.76
AC C14	-0.22	0.009	-0.22	0.005	-67.2	0.45	-25.2	0.8	-0.24	0.68	-0.038	0.92
AC C16	-0.24	0.038	-0.25	0.025	-37.77	0.78	9.48	0.87	0.099	0.92	0.33	0.76
AC C18:2	-0.22	0.038	-0.22	0.029	-58.28	0.59	-10.81	0.86	-0.31	0.68	-0.077	0.92
AC C18:1	-0.21	0.032	-0.23	0.01	18.56	0.86	51.65	0.61	0.21	0.75	0.34	0.75
AC C18	-0.21	0.056	-0.23	0.032	-57.73	0.62	-21.26	0.82	-0.33	0.68	-0.18	0.86
AC C16:1	-0.24	0.002	-0.24	6.77E-04	-83.28	0.32	-39.23	0.61	-0.22	0.68	-0.0087	0.92
AC C16:1-OH/C14:1-DC	-0.27	0.006	-0.29	9.99E-04	-103.43	0.32	-62.35	0.54	-0.47	0.67	-0.31	0.76
Lipids and Related Metabolites												
AC C4-OH	-0.089	0.055	-0.1	0.025	70.3	0.27	85.12	0.081	0.34	0.49	0.39	0.35
3-Hydroxybutyrate	-0.092	0.009	-0.11	9.99E-04	79.89	0.028	95.56	0.004	0.45	0.093	0.5	0.016
Triglycerides	-0.0036	0.088	-0.0042	0.04	-5.05	0.028	-4.74	0.021	-0.022	0.36	-0.021	0.35
Ethanolamine	-0.088	0.048	-0.078	0.13	-69.28	0.093	-46.88	0.39	-0.36	0.19	-0.24	0.74
Fatty Acid and Related Metabolites												
Palmitoleic acid	-0.11	0.012	-0.10	0.032	-30.72	0.64	-1.78	0.95	-0.22	0.54	-0.075	0.81
Decanoic acid	-0.093	0.048	-0.084	0.13	-12.50	0.88	16.22	0.89	-0.28	0.52	-0.13	0.76
Mexican American												
Amino Acids and Related Metabolites												
Glutamine/Glutamic acid	-0.003	0.027	-0.0029	0.026	0.2	0.91	0.67	0.67	0.0034	0.79	0.0057	0.71
Histidine	0.0018	0.67	0.0016	0.53	4.14	0.04	3.63	0.096	0.028	0.075	0.025	0.16
Ornithine	-0.0056	0.027	-0.0061	0.017	1.43	0.52	1.67	0.6	0.022	0.28	0.023	0.34
Serine	-0.0039	0.027	-0.0043	0.017	1.38	0.38	1.36	0.6	0.012	0.46	0.011	0.67
Glycolysis/TCA Cycle Intermediates and Related Metabolites												
Lactate	-0.061	0.027	-0.060	0.026	-23.61	0.38	-11.74	0.74	-0.0040	0.92	0.060	0.85
Fatty Acid and Related Metabolites												
Docosahexaenoic acid	-0.1	0.009	-0.1	0.013	-9.79	0.84	13.94	0.77	-0.038	0.94	0.09	0.9
Thai												
Amino Acids and Related Metabolites												
Glutamine/Glutamic acid	-7.00E-04	0.5	-5.00E-04	0.7	1.13	0.13	1.48	0.026	0.0029	0.79	0.0054	0.54
Glycine	-0.0032	9.17E-04	-0.003	0.003	0.98	0.22	1.56	0.026	0.0031	0.79	0.0067	0.42
Histidine	7.00E-04	0.79	7.00E-04	0.77	4.55	0.045	4.34	0.026	0.012	0.74	0.011	0.71
Serine	-0.0045	0.035	-0.0042	0.069	2.93	0.052	3.36	0.023	0.015	0.29	0.018	0.085
Acylcarnitines and Related Metabolites												
AC C12-OH/C10-DC	-0.05	0.44	-0.042	0.5	68.6	0.11	79.82	0.026	0.14	0.81	0.22	0.67
AC C20-OH/C18-DC	-0.16	0.11	-0.15	0.15	-169.03	0.01	-141.01	0.026	-1.26	0.001	-1.09	0.006
Fatty Acid and Related Metabolites												
NEFA	-1.8	2.73E-04	-1.71	5.96E-04	-426.8	0.3	-149.31	0.62	-4.22	0.26	-2.75	0.54
Lauric acid	-0.09	0.018	-0.083	0.042	2.29	0.92	18.59	0.71	-0.11	0.97	-0.0022	0.1
Palmitoleic acid	-0.1	0.005	-0.095	0.01	-21.97	0.6	-9.01	0.82	-0.18	0.97	-0.1	0.95
Lipids and Related Metabolites												

Triglycerides	-0.0021	0.59	-0.0019	0.67	-7.05	0.006	-7.07	0.003	-0.055	2.03E-04	-0.054	7.62E-05
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