

Milk samples from day 28		Weight gain to day 28	Length gain to day 28	Head growth to day 28	Weight gain to 36th PMW	Length gain to 36th PMW	Head growth to 36th PMW
3-SL	Correlation Coefficient	0.09	0.03	-0.07	0.18	0.14	0.06
	Sig. (2-tailed)	0.44	0.82	0.51	0.10	0.23	0.61
	n	83	81	83	81	81	81
6-SL	Correlation Coefficient	-0.33	-0.14	-0.32	-0.28	-0.11	-0.11
	Sig. (2-tailed)	<0.01	0.21	<0.01	0.01	0.35	0.34
	n	83	81	83	81	81	81
LSTa	Correlation Coefficient	0.24	0.34	0.12	0.30	0.37	0.16
	Sig. (2-tailed)	0.03	<0.01	0.30	0.01	<0.01	0.15
	n	83	81	83	81	81	81
LSTb	Correlation Coefficient	-0.24	-0.07	-0.28	-0.30	-0.16	-0.11
	Sig. (2-tailed)	0.03	0.54	0.01	0.01	0.16	0.34
	n	83	81	83	81	81	81
LSTc	Correlation Coefficient	-0.40	-0.21	-0.34	-0.22	-0.20	0.03
	Sig. (2-tailed)	<0.001	0.06	<0.01	0.05	0.07	0.81
	n	83	81	83	81	81	81
DSLNT	Correlation Coefficient	-0.15	0.06	-0.22	-0.10	0.02	0.00
	Sig. (2-tailed)	0.18	0.60	0.05	0.38	0.89	0.98
	n	83	81	83	81	81	81
2FL	Correlation Coefficient	0.07	0.20	0.12	0.27	0.25	0.12
	Sig. (2-tailed)	0.51	0.07	0.27	0.02	0.03	0.29
	n	83	81	83	81	81	81
3FL	Correlation Coefficient	-0.14	-0.19	-0.10	-0.25	-0.24	-0.08
	Sig. (2-tailed)	0.21	0.09	0.37	0.02	0.03	0.46
	n	83	81	83	81	81	81
LDFT	Correlation Coefficient	-0.14	0.06	-0.08	0.01	0.01	0.06
	Sig. (2-tailed)	0.21	0.60	0.47	0.92	0.92	0.61
	n	83	81	83	81	81	81
LNT	Correlation Coefficient	-0.22	-0.04	-0.31	-0.30	-0.11	-0.20
	Sig. (2-tailed)	0.04	0.70	0.01	0.01	0.34	0.08
	n	83	81	83	81	81	81
LNnT	Correlation Coefficient	0.037	0.168	0.075	0.158	0.169	0.207
	Sig. (2-tailed)	0.738	0.134	0.5	0.16	0.132	0.064
	n	83	81	83	81	81	81
LNFP I	Correlation Coefficient	0.08	0.26	0.08	0.25	0.28	0.13
	Sig. (2-tailed)	0.47	0.02	0.50	0.03	0.01	0.26
	n	83	81	83	81	81	81
LNFP II	Correlation Coefficient	-0.09	-0.15	-0.05	-0.22	-0.21	-0.07
	Sig. (2-tailed)	0.45	0.19	0.64	0.05	0.07	0.55
	n	83	81	83	81	81	81
LNFP III	Correlation Coefficient	-0.23	-0.06	-0.22	-0.07	-0.04	-0.02
	Sig. (2-tailed)	0.04	0.60	0.04	0.54	0.70	0.86
	n	83	81	83	81	81	81
LNDH I	Correlation Coefficient	-0.106	0.181	0.004	-0.028	0.092	0.11
	Sig. (2-tailed)	0.342	0.106	0.973	0.806	0.412	0.328
	n	83	81	83	81	81	81
Total HMO	Correlation Coefficient	-0.14	0.24	-0.18	0.02	0.17	0.07
	Sig. (2-tailed)	0.20	0.03	0.10	0.86	0.14	0.53
	n	83	81	83	81	81	81

**Figure S3:** Correlations between concentrations of individual HMO (micromol/litre) in milk samples from day 28 and infant growth (change in z-score from birth to measurement on the 28th day of life or at 36 postmenstrual weeks), analyzed using Spearman's rho correlation coefficient. Significant correlations are highlighted with green for positive and red for negative correlations.