Supplementary tables

Supplementry Table S1. Taxonomic assignments of OTUs based on SILVA and BLAST analyses.

OTU	SILVA genus assignment	BLAST species assignment	Sequnce ID	Identity accuracy	Coverage
Otu000001	*Streptococcus*	*Streptococcus mitis*	CP067992.1	98.58%	100%
Otu000002	*Gemella*	*Gemella haemolysans*	CP083637.1	99.53%	100%
Otu000003	*Rothia*	*Rothia mucilaginosa*	CP023510.1	99.66%	100%
Otu000004	*Streptococcus*	*Streptococcus salivarius* group 1	CP015283.1	97.63%	100%
Otu000005	*Veillonella*	*Veillonella* sp.	AY923122.1	97.86%	100%
Otu000006	*Neisseria*	*Neisseria subflava*	MF480369.1	99.52%	99%
Otu000007	*Streptococcus*	*Streptococcus oralis*	CP034442.1	97.84%	100%
Otu000008	*Haemophilus*	*Haemophilus haemolyticus*	CP031240.1	98.91%	100%
Otu000010	*Staphylococcus*	*Staphylococcus lugdunensis*	CP014023.2	100%	100%
Otu000011	*Haemophilus*	*Haemophilus parainfluenzae*	CP133470.1	98.51%	100%
Otu000013	*Streptococcus*	*Streptococcus parasanguinis*	CP134147.1	99.59%	100%
Otu000015	*Bifidobacterium*	*Bifidobacterium longum*	CP102541.1	99.86%	100%
Otu000016	*Lactobacillus*	*Lactobacillus gasseri*	CP054875.1	98.52%	99%
Otu000019	*Porphyromonas*	*Porphyromonas* sp.	DQ087194.1	99.52%	100%

Supplementary Table S2. Genera detected in negative extraction controls (EC, n = 8) and negative PCR controls (NTC, n = 8). Data are read numbers.

Genus	**EC1**	**EC2**	**EC3**	**EC4**	**EC5**	**EC6**	**EC7**	**EC8**	**NTC1**	**NTC2**	**NTC3**	**NTC4**	**NTC5**	**NTC6**	**NTC7**	**NTC8**
Actinomyces	2	2	0	0	3	1	1	0	1	1	0	0	1	1	0	0
Atopobium	2	1	0	1	0	0	0	0	0	1	2	0	0	0	0	0
Bergeyella	7	1	5	0	1	2	1	1	0	1	8	1	2	1	4	0
Gemella	37	0	1	0	0	0	1	1	1	0	1	2	2	0	3	1
Granulicatella	1	3	0	0	2	2	1	5	1	1	1	1	2	2	1	2
Haemophilus	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lactobacillus	1	1	1	0	1	1	0	0	0	1	3	0	1	1	0	1
Neisseria	8	2	5	2	5	4	1	2	0	4	2	1	9	2	2	3
Porphyromonas	9	0	0	0	0	0	0	0	0	1	1	0	2	1	0	0
Rothia	70	3	2	1	1	4	1	1	3	1	2	0	3	1	2	3
Unclassified *Saccharimonadales*	4	4	8	1	11	7	5	26	3	10	10	6	7	7	11	1
Sebaldella	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Staphylococcus	3	0	3	0	6	5	1	0	2	4	1	2	3	2	5	0

Genus	**EC1**	**EC2**	**EC3**	**EC4**	**EC5**	**EC6**	**EC7**	**EC8**	**NTC1**	**NTC2**	**NTC3**	**NTC4**	**NTC5**	**NTC6**	**NTC7**	**NTC8**
Streptococcus	719	13	18	7	27	16	11	60	6	11	21	16	21	15	13	4
Unclassified *Actinobacteria*	2	2	0	0	0	3	1	0	0	0	3	1	1	1	1	0
Unclassified *Bacilli*	3	1	1	0	2	3	2	0	0	0	2	0	1	2	0	1
Unclassified bacteria	37	2	1	0	2	5	3	0	1	6	4	2	6	1	2	1
Unclassified *Carnobacteriaceae*	3	1	2	1	2	8	1	0	4	4	7	1	4	5	3	2
Unclassified *Lactobacillales*	7	4	2	1	12	18	6	0	0	1	3	4	9	8	11	3
Unclassified *Leptotrichiaceae*	1	1	0	0	3	0	0	3	1	0	2	0	2	0	1	0
Unclassified *Micrococcaceae*	6	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Unclassified *Micrococcales*	25	5	6	2	2	9	2	4	3	4	8	6	8	4	4	2
Unclassified *Neisseriaceae*	1	0	4	2	3	4	61	9	0	0	0	0	0	1	1	2
Unclassified *Porphyromonadaceae*	1	3	1	0	4	1	3	1	1	2	0	1	7	2	4	0
Unclassified *Streptococcaceae*	33	1	4	0	2	0	0	0	0	1	1	0	0	0	2	0
Veillonella	549	8	9	2	6	7	6	18	3	8	4	11	8	8	5	2
Others*	1	7	6	9	51	57	95	33	6	13	4	9	41	47	27	15

*“Others” represents genera with ≤ 26 reads in negative controls.

Supplementary Table S3. Normality of response variables assessed by Shapiro–Wilk test.

Response Variable	**Shapiro–Wilk *p*-value**	**Normality**
Shannon diversity	0.1946	Yes
Richness	0.6882	Yes
Streptococcus mitis	0.0179	No
Gemella haemolysans	0.7040	Yes
Rothia mucilaginosa	0.6011	Yes
Streptococcus salivarius group 1	0.1052	Yes
Veillonella sp.	0.5389	Yes
Neisseria subflava	0.2784	Yes
Streptococcus oralis	0.4067	Yes
Haemophilus haemolyticus	0.1245	Yes
Veillonella nakazawae	0.5227	Yes
Staphylococcus lugdunensis	0.0070	No
Haemophilus parainfluenzae	0.5103	Yes
Streptococcus parasanguinis	0.6155	Yes
Bifidobacterium longum	0.0130	No
Lactobacillus gasseri	0.9341	Yes
Porphyromonas sp.	0.0005	No

Supplementary Table S4. Variance inflation factors (VIFs) for predictors in models assessing associations between HMO concentrations and oral microbiome outcomes.

Response	Variable	VIF
Shannon diversity	2'FL	13.6
Shannon diversity	3FL	19.779
Shannon diversity	DFLac	7.868
Shannon diversity	3'SL	2.173
Shannon diversity	6'SL	8.989
Shannon diversity	LNT	19.974
Shannon diversity	LNnT	11.62
Shannon diversity	LNFPI	13.028
Shannon diversity	LNFPII	39.783
Shannon diversity	LNFPIII	4.399
Shannon diversity	LSTb	10.286
Shannon diversity	LSTc	9.744
Shannon diversity	DFLNT	12.214
Shannon diversity	LNH	4.649
Shannon diversity	DSLNT	6.645
Shannon diversity	FLNH	10.525
Shannon diversity	DFLNH	4.931
Shannon diversity	FDSLNH	19.056
Shannon diversity	DSLNH	10.923
Richness	2'FL	13.6
Richness	3FL	19.779
Richness	DFLac	7.868
Richness	3'SL	2.173
Richness	6'SL	8.989
Richness	LNT	19.974
Richness	LNnT	11.62
Richness	LNFPI	13.028
Richness	LNFPII	39.783
Richness	LNFPIII	4.399
Richness	LSTb	10.286
Richness	LSTc	9.744
Richness	DFLNT	12.214
Richness	LNH	4.649
Richness	DSLNT	6.645
Richness	FLNH	10.525
Richness	DFLNH	4.931
Richness	FDSLNH	19.056
Richness	DSLNH	10.923
Streptococcus mitis	2'FL	13.6

Streptococcus mitis	3FL	19.779
Streptococcus mitis	DFLac	7.868
Streptococcus mitis	3'SL	2.173
Streptococcus mitis	6'SL	8.989
Streptococcus mitis	LNT	19.974
Streptococcus mitis	LNnT	11.62
Streptococcus mitis	LNFPI	13.028
Streptococcus mitis	LNFPII	39.783
Streptococcus mitis	LNFPIII	4.399
Streptococcus mitis	LSTb	10.286
Streptococcus mitis	LSTc	9.744
Streptococcus mitis	DFLNT	12.214
Streptococcus mitis	LNH	4.649
Streptococcus mitis	DSLNT	6.645
Streptococcus mitis	FLNH	10.525
Streptococcus mitis	DFLNH	4.931
Streptococcus mitis	FDSLNH	19.056
Streptococcus mitis	DSLNH	10.923
Gemella haemolysans	2'FL	13.6
Gemella haemolysans	3FL	19.779
Gemella haemolysans	DFLac	7.868
Gemella haemolysans	3'SL	2.173
Gemella haemolysans	6'SL	8.989
Gemella haemolysans	LNT	19.974
Gemella haemolysans	LNnT	11.62
Gemella haemolysans	LNFPI	13.028
Gemella haemolysans	LNFPII	39.783
Gemella haemolysans	LNFPIII	4.399
Gemella haemolysans	LSTb	10.286
Gemella haemolysans	LSTc	9.744
Gemella haemolysans	DFLNT	12.214
Gemella haemolysans	LNH	4.649
Gemella haemolysans	DSLNT	6.645
Gemella haemolysans	FLNH	10.525
Gemella haemolysans	DFLNH	4.931
Gemella haemolysans	FDSLNH	19.056
Gemella haemolysans	DSLNH	10.923
Streptococcus salivarius group 1	2'FL	13.6
Streptococcus salivarius group 1	3FL	19.779
Streptococcus salivarius group 1	DFLac	7.868
Streptococcus salivarius group 1	3'SL	2.173
Streptococcus salivarius group 1	6'SL	8.989

Streptococcus salivarius group 1	LNT	19.974
Streptococcus salivarius group 1	LNnT	11.62
Streptococcus salivarius group 1	LNFPI	13.028
Streptococcus salivarius group 1	LNFPII	39.783
Streptococcus salivarius group 1	LNFPIII	4.399
Streptococcus salivarius group 1	LSTb	10.286
Streptococcus salivarius group 1	LSTc	9.744
Streptococcus salivarius group 1	DFLNT	12.214
Streptococcus salivarius group 1	LNH	4.649
Streptococcus salivarius group 1	DSLNT	6.645
Streptococcus salivarius group 1	FLNH	10.525
Streptococcus salivarius group 1	DFLNH	4.931
Streptococcus salivarius group 1	FDSLNH	19.056
Streptococcus salivarius group 1	DSLNH	10.923
Rothia mucilaginosa	2’FL	13.6
Rothia mucilaginosa	3FL	19.779
Rothia mucilaginosa	DFLac	7.868
Rothia mucilaginosa	3’SL	2.173
Rothia mucilaginosa	6’SL	8.989
Rothia mucilaginosa	LNT	19.974
Rothia mucilaginosa	LNnT	11.62
Rothia mucilaginosa	LNFPI	13.028
Rothia mucilaginosa	LNFPII	39.783
Rothia mucilaginosa	LNFPIII	4.399
Rothia mucilaginosa	LSTb	10.286
Rothia mucilaginosa	LSTc	9.744
Rothia mucilaginosa	DFLNT	12.214
Rothia mucilaginosa	LNH	4.649
Rothia mucilaginosa	DSLNT	6.645
Rothia mucilaginosa	FLNH	10.525
Rothia mucilaginosa	DFLNH	4.931
Rothia mucilaginosa	FDSLNH	19.056
Rothia mucilaginosa	DSLNH	10.923
Veillonella sp.	2’FL	13.6
Veillonella sp.	3FL	19.779
Veillonella sp.	DFLac	7.868
Veillonella sp.	3’SL	2.173
Veillonella sp.	6’SL	8.989
Veillonella sp.	LNT	19.974
Veillonella sp.	LNnT	11.62
Veillonella sp.	LNFPI	13.028
Veillonella sp.	LNFPII	39.783

Veillonella sp.	LNFPIII	4.399
Veillonella sp.	LSTb	10.286
Veillonella sp.	LSTc	9.744
Veillonella sp.	DFLNT	12.214
Veillonella sp.	LNH	4.649
Veillonella sp.	DSLNT	6.645
Veillonella sp.	FLNH	10.525
Veillonella sp.	DFLNH	4.931
Veillonella sp.	FDSLNH	19.056
Veillonella sp.	DSLNH	10.923
Veillonella nakazawae	2'FL	13.6
Veillonella nakazawae	3FL	19.779
Veillonella nakazawae	DFLac	7.868
Veillonella nakazawae	3'SL	2.173
Veillonella nakazawae	6'SL	8.989
Veillonella nakazawae	LNT	19.974
Veillonella nakazawae	LNnT	11.62
Veillonella nakazawae	LNFPI	13.028
Veillonella nakazawae	LNFPII	39.783
Veillonella nakazawae	LNFPIII	4.399
Veillonella nakazawae	LSTb	10.286
Veillonella nakazawae	LSTc	9.744
Veillonella nakazawae	DFLNT	12.214
Veillonella nakazawae	LNH	4.649
Veillonella nakazawae	DSLNT	6.645
Veillonella nakazawae	FLNH	10.525
Veillonella nakazawae	DFLNH	4.931
Veillonella nakazawae	FDSLNH	19.056
Veillonella nakazawae	DSLNH	10.923
Lactobacillus gasseri	2'FL	13.6
Lactobacillus gasseri	3FL	19.779
Lactobacillus gasseri	DFLac	7.868
Lactobacillus gasseri	3'SL	2.173
Lactobacillus gasseri	6'SL	8.989
Lactobacillus gasseri	LNT	19.974
Lactobacillus gasseri	LNnT	11.62
Lactobacillus gasseri	LNFPI	13.028
Lactobacillus gasseri	LNFPII	39.783
Lactobacillus gasseri	LNFPIII	4.399
Lactobacillus gasseri	LSTb	10.286
Lactobacillus gasseri	LSTc	9.744
Lactobacillus gasseri	DFLNT	12.214

Lactobacillus gasseri	LNH	4.649
Lactobacillus gasseri	DSLNT	6.645
Lactobacillus gasseri	FLNH	10.525
Lactobacillus gasseri	DFLNH	4.931
Lactobacillus gasseri	FDSLNH	19.056
Lactobacillus gasseri	DSLNH	10.923
Haemophilus haemolyticus	2’FL	13.6
Haemophilus haemolyticus	3FL	19.779
Haemophilus haemolyticus	DFLac	7.868
Haemophilus haemolyticus	3’SL	2.173
Haemophilus haemolyticus	6’SL	8.989
Haemophilus haemolyticus	LNT	19.974
Haemophilus haemolyticus	LNnT	11.62
Haemophilus haemolyticus	LNFPI	13.028
Haemophilus haemolyticus	LNFPII	39.783
Haemophilus haemolyticus	LNFPIII	4.399
Haemophilus haemolyticus	LSTb	10.286
Haemophilus haemolyticus	LSTc	9.744
Haemophilus haemolyticus	DFLNT	12.214
Haemophilus haemolyticus	LNH	4.649
Haemophilus haemolyticus	DSLNT	6.645
Haemophilus haemolyticus	FLNH	10.525
Haemophilus haemolyticus	DFLNH	4.931
Haemophilus haemolyticus	FDSLNH	19.056
Haemophilus haemolyticus	DSLNH	10.923
Haemophilus parainfluenzae	2’FL	13.6
Haemophilus parainfluenzae	3FL	19.779
Haemophilus parainfluenzae	DFLac	7.868
Haemophilus parainfluenzae	3’SL	2.173
Haemophilus parainfluenzae	6’SL	8.989
Haemophilus parainfluenzae	LNT	19.974
Haemophilus parainfluenzae	LNnT	11.62
Haemophilus parainfluenzae	LNFPI	13.028
Haemophilus parainfluenzae	LNFPII	39.783
Haemophilus parainfluenzae	LNFPIII	4.399
Haemophilus parainfluenzae	LSTb	10.286
Haemophilus parainfluenzae	LSTc	9.744
Haemophilus parainfluenzae	DFLNT	12.214
Haemophilus parainfluenzae	LNH	4.649
Haemophilus parainfluenzae	DSLNT	6.645
Haemophilus parainfluenzae	FLNH	10.525
Haemophilus parainfluenzae	DFLNH	4.931

Haemophilus parainfluenzae	FDSLNH	19.056
Haemophilus parainfluenzae	DSLNH	10.923
Streptococcus oralis	2’FL	13.6
Streptococcus oralis	3FL	19.779
Streptococcus oralis	DFLac	7.868
Streptococcus oralis	3’SL	2.173
Streptococcus oralis	6’SL	8.989
Streptococcus oralis	LNT	19.974
Streptococcus oralis	LNnT	11.62
Streptococcus oralis	LNFPI	13.028
Streptococcus oralis	LNFPII	39.783
Streptococcus oralis	LNFPIII	4.399
Streptococcus oralis	LSTb	10.286
Streptococcus oralis	LSTc	9.744
Streptococcus oralis	DFLNT	12.214
Streptococcus oralis	LNH	4.649
Streptococcus oralis	DSLNT	6.645
Streptococcus oralis	FLNH	10.525
Streptococcus oralis	DFLNH	4.931
Streptococcus oralis	FDSLNH	19.056
Streptococcus oralis	DSLNH	10.923
Bifidobacterium longum	2’FL	13.6
Bifidobacterium longum	3FL	19.779
Bifidobacterium longum	DFLac	7.868
Bifidobacterium longum	3’SL	2.173
Bifidobacterium longum	6’SL	8.989
Bifidobacterium longum	LNT	19.974
Bifidobacterium longum	LNnT	11.62
Bifidobacterium longum	LNFPI	13.028
Bifidobacterium longum	LNFPII	39.783
Bifidobacterium longum	LNFPIII	4.399
Bifidobacterium longum	LSTb	10.286
Bifidobacterium longum	LSTc	9.744
Bifidobacterium longum	DFLNT	12.214
Bifidobacterium longum	LNH	4.649
Bifidobacterium longum	DSLNT	6.645
Bifidobacterium longum	FLNH	10.525
Bifidobacterium longum	DFLNH	4.931
Bifidobacterium longum	FDSLNH	19.056
Bifidobacterium longum	DSLNH	10.923
Staphylococcus lugdunensis	2’FL	13.6
Staphylococcus lugdunensis	3FL	19.779

Staphylococcus lugdunensis	DFLac	7.868
Staphylococcus lugdunensis	3'SL	2.173
Staphylococcus lugdunensis	6'SL	8.989
Staphylococcus lugdunensis	LNT	19.974
Staphylococcus lugdunensis	LNnT	11.62
Staphylococcus lugdunensis	LNFPI	13.028
Staphylococcus lugdunensis	LNFPII	39.783
Staphylococcus lugdunensis	LNFPIII	4.399
Staphylococcus lugdunensis	LSTb	10.286
Staphylococcus lugdunensis	LSTc	9.744
Staphylococcus lugdunensis	DFLNT	12.214
Staphylococcus lugdunensis	LNH	4.649
Staphylococcus lugdunensis	DSLNT	6.645
Staphylococcus lugdunensis	FLNH	10.525
Staphylococcus lugdunensis	DFLNH	4.931
Staphylococcus lugdunensis	FDSLNH	19.056
Staphylococcus lugdunensis	DSLNH	10.923
Streptococcus parasanguinis	2'FL	13.6
Streptococcus parasanguinis	3FL	19.779
Streptococcus parasanguinis	DFLac	7.868
Streptococcus parasanguinis	3'SL	2.173
Streptococcus parasanguinis	6'SL	8.989
Streptococcus parasanguinis	LNT	19.974
Streptococcus parasanguinis	LNnT	11.62
Streptococcus parasanguinis	LNFPI	13.028
Streptococcus parasanguinis	LNFPII	39.783
Streptococcus parasanguinis	LNFPIII	4.399
Streptococcus parasanguinis	LSTb	10.286
Streptococcus parasanguinis	LSTc	9.744
Streptococcus parasanguinis	DFLNT	12.214
Streptococcus parasanguinis	LNH	4.649
Streptococcus parasanguinis	DSLNT	6.645
Streptococcus parasanguinis	FLNH	10.525
Streptococcus parasanguinis	DFLNH	4.931
Streptococcus parasanguinis	FDSLNH	19.056
Streptococcus parasanguinis	DSLNH	10.923
Neisseria subflava	2'FL	13.6
Neisseria subflava	3FL	19.779
Neisseria subflava	DFLac	7.868
Neisseria subflava	3'SL	2.173
Neisseria subflava	6'SL	8.989
Neisseria subflava	LNT	19.974

Neisseria subflava	LNnT	11.62
Neisseria subflava	LNFPI	13.028
Neisseria subflava	LNFPII	39.783
Neisseria subflava	LNFPIII	4.399
Neisseria subflava	LSTb	10.286
Neisseria subflava	LSTc	9.744
Neisseria subflava	DFLNT	12.214
Neisseria subflava	LNH	4.649
Neisseria subflava	DSLNT	6.645
Neisseria subflava	FLNH	10.525
Neisseria subflava	DFLNH	4.931
Neisseria subflava	FDSLNH	19.056
Neisseria subflava	DSLNH	10.923
Porphyromonas sp.	2’FL	13.6
Porphyromonas sp.	3FL	19.779
Porphyromonas sp.	DFLac	7.868
Porphyromonas sp.	3’SL	2.173
Porphyromonas sp.	6’SL	8.989
Porphyromonas sp.	LNT	19.974
Porphyromonas sp.	LNnT	11.62
Porphyromonas sp.	LNFPI	13.028
Porphyromonas sp.	LNFPII	39.783
Porphyromonas sp.	LNFPIII	4.399
Porphyromonas sp.	LSTb	10.286
Porphyromonas sp.	LSTc	9.744
Porphyromonas sp.	DFLNT	12.214
Porphyromonas sp.	LNH	4.649
Porphyromonas sp.	DSLNT	6.645
Porphyromonas sp.	FLNH	10.525
Porphyromonas sp.	DFLNH	4.931
Porphyromonas sp.	FDSLNH	19.056
Porphyromonas sp.	DSLNH	10.923

Supplementary Table S5. Comparison of human milk oligosaccharide concentrations between secretor and non-secretor mothers. Data are median ± IQR. Bold text indicated significant *P*-values.

HMO	Secretors (median ± IQR)	Non-secretors (median ± IQR)	*P*-value	BH corrected *P*-value
2'FL	1783.8 ± 955.4	1.7 ± 1.8	0.000	**0.000**
DFLac	204.7 ± 103.2	3.9 ± 2.1	0.000	**0.000**
3FL	605.1 ± 372.1	1620.1 ± 480.0	0.000	**0.000**
LNFPII	580.6 ± 249.1	1303.2 ± 506.6	0.000	**0.000**
FDSLNH	160.4 ± 161.7	655.06± 331.7	0.000	**0.000**
DFLNT	773.3 ± 380.4	261.6 ± 170.6	0.000	**0.000**
LNFPI	389.8 ± 491.6	119.5 ± 64.8	0.000	**0.000**
LNnT	98.7 ± 68.9	41.5 ± 15.9	0.000	**0.000**
LSTc	73.0 ± 51.7	39.3 ± 8.5	0.001	**0.001**
LNT	562.4 ± 339.5	847.3 ± 585.0	0.051	0.097
LSTb	56.4 ± 36.4	76.7 ± 24.4	0.063	0.109
LNH	57.3 ± 32.1	47.1 ± 19.3	0.090	0.143
FLNH	189.74± 106.8	253.0 ± 169.2	0.199	0.291
DFLNH	78.0 ± 89.6	102.5 ± 62.7	0.224	0.304
3'SL	92.12± 45.6	71.4 ± 58.1	0.441	0.559
DSLNH	130.01± 80.6	121.8 ± 76.9	0.742	0.854
LNFPIII	8.7 ± 6.3	8.9 ± 4.8	0.776	0.854
DSLNT	111.5 ± 69.2	117.9 ± 31.8	0.809	0.854
6'SL	153.9 ± 89.6	151.5 ± 59.7	0.930	0.930

2'-fucosyllactose (2'FL), 3-fucosyllactose (3FL), difucosyllactose (DFLac), 3'-sialyllactose (3'SL), 6'-sialyllactose (6'SL), difucosyl-N-hexosyl (DFLNH), difucosyl-N-acetyl (DFLNT), disialyl-N-hexosyl (DSLNH), disialyl-N-acetyl (DSLNT), fucosyl-disialyl-N-hexosyl (FDSLNH), fucosyllacto-N-hexaose (FLNH), lacto-N-fucopentaose I (LNFP I), lacto-N-fucopentaose II (LNFP II), lacto-N-fucopentaose III (LNFP III), lacto-N-hexaose (LNH), lacto-N-neotetraose (LNnT), lacto-N-tetraose (LNT), lacto-N-neotriose (LSTc), lacto-N-neotriose (LSTb), Median concentrations (µg/mL) and interquartile ranges (IQR) of individual HMOs in secretor (S) and non-secretor (NS) groups. P-values were calculated using the Wilcoxon rank-sum test.

Supplementary Table S6. Outputs from linear model for associations between HMO concentrations and the infant oral microbiome at 2 months postpartum. Bold text indicated significant *P*-values.

Response variable	Explanatory variable	Estimate	Standard Error	*P*-value	BH corrected *P*-value	Lower CI	Upper CI
Shannon diversity	Secretor status: Secretor	-1.911	0.674	0.008	0.078	-3.232	-0.590
Shannon diversity	2'FL	0.000	0.000	0.286	0.535	-0.001	0.000
Shannon diversity	3FL	-0.003	0.001	0.002	**0.027**	-0.004	-0.001
Shannon diversity	DFLac	0.002	0.001	0.103	0.358	0.000	0.005
Shannon diversity	3'SL	0.003	0.003	0.350	0.577	-0.003	0.008
Shannon diversity	6'SL	0.003	0.003	0.276	0.535	-0.002	0.009
Shannon diversity	LNT	-0.001	0.001	0.442	0.597	-0.004	0.002
Shannon diversity	LNnT	0.003	0.005	0.491	0.597	-0.006	0.013
Shannon diversity	LNFPI	0.000	0.001	0.988	0.988	-0.002	0.002
Shannon diversity	LNFPII	0.001	0.001	0.490	0.597	-0.002	0.004
Shannon diversity	LNFPIII	-0.097	0.046	0.046	0.276	-0.187	-0.006
Shannon diversity	LSTb	0.007	0.008	0.433	0.597	-0.010	0.023
Shannon diversity	LSTc	-0.008	0.008	0.309	0.540	-0.024	0.007
Shannon diversity	DFLNT	0.000	0.001	0.766	0.858	-0.002	0.001
Shannon diversity	LNH	0.010	0.007	0.153	0.358	-0.003	0.023
Shannon diversity	DSLNT	0.003	0.005	0.620	0.723	-0.008	0.013
Shannon diversity	FLNH	-0.005	0.003	0.151	0.358	-0.010	0.001
Shannon diversity	DFLNH	0.000	0.002	0.816	0.879	-0.005	0.004
Shannon diversity	FDSLNH	0.000	0.002	0.974	0.988	-0.003	0.003
Shannon diversity	DSLNH	0.009	0.005	0.065	0.276	0.000	0.018
Shannon diversity	Delivery mode: emergency caesarean	0.536	0.460	0.254	0.535	-0.365	1.437
Shannon diversity	Delivery mode: planned caesarean	-0.430	0.276	0.130	0.358	-0.970	0.110
Shannon diversity	First week pacifier: yes	0.633	0.335	0.069	0.276	-0.023	1.290
Shannon diversity	Siblings: yes	0.232	0.311	0.461	0.597	-0.378	0.842
Shannon diversity	Pre-pregnancy BMI: high and obese	-0.406	0.270	0.143	0.358	-0.936	0.123
Richness	Secretor status: Secretor	-529.672	190.174	0.009	0.066	-902.412	-156.931

Richness	2'FL	-0.046	0.094	0.624	0.760	-0.230	0.137
Richness	3FL	-0.699	0.231	0.005	0.050	-1.152	-0.245
Richness	DFLac	0.718	0.381	0.070	0.313	-0.029	1.465
Richness	3'SL	1.105	0.805	0.181	0.422	-0.473	2.683
Richness	6'SL	1.017	0.815	0.222	0.478	-0.579	2.614
Richness	LNT	-0.017	0.368	0.964	0.964	-0.738	0.704
Richness	LNnT	0.749	1.393	0.595	0.757	-1.981	3.478
Richness	LNFPI	0.071	0.273	0.798	0.894	-0.464	0.605
Richness	LNFPII	0.143	0.398	0.722	0.843	-0.638	0.924
Richness	LNFPIII	-42.961	13.038	0.003	**0.037**	-68.515	-17.406
Richness	LSTb	0.108	2.395	0.964	0.964	-4.587	4.803
Richness	LSTc	-2.201	2.278	0.342	0.532	-6.666	2.263
Richness	DFLNT	-0.245	0.220	0.275	0.481	-0.676	0.186
Richness	LNH	3.184	1.912	0.107	0.333	-0.563	6.931
Richness	DSLNT	2.721	1.502	0.081	0.313	-0.223	5.664
Richness	FLNH	-1.516	0.862	0.090	0.313	-3.206	0.173
Richness	DFLNH	-0.360	0.599	0.553	0.757	-1.534	0.815
Richness	FDSLNH	0.086	0.434	0.844	0.909	-0.764	0.937
Richness	DSLNH	1.547	1.308	0.247	0.481	-1.017	4.111
Richness	Delivery mode: emergency caesarean	105.712	129.692	0.422	0.622	-148.485	359.909
Richness	Delivery mode: planned caesarean	-153.969	77.791	0.058	0.313	-306.439	-1.498
Richness	First week pacifier: yes	136.359	94.496	0.160	0.408	-48.852	321.571
Richness	Siblings: yes	94.271	87.798	0.292	0.481	-77.813	266.354
Richness	Pre-pregnancy BMI: high and obese	-85.561	76.168	0.271	0.481	-234.851	63.728
Streptococcus mitis	Secretor status: Secretor	3.661	2.485	0.152	0.894	-1.210	8.532
Streptococcus mitis	2'FL	0.001	0.001	0.520	0.968	-0.002	0.003
Streptococcus mitis	3FL	0.002	0.003	0.591	0.968	-0.004	0.008
Streptococcus mitis	DFLac	-0.004	0.005	0.384	0.968	-0.014	0.005
Streptococcus mitis	3'SL	-0.005	0.011	0.654	0.968	-0.025	0.016

Streptococcus mitis	6'SL	-0.015	0.011	0.160	0.894	-0.036	0.005
Streptococcus mitis	LNT	0.001	0.005	0.888	0.968	-0.009	0.010
Streptococcus mitis	LNnT	-0.033	0.018	0.083	0.894	-0.068	0.003
Streptococcus mitis	LNFPI	-0.001	0.004	0.822	0.968	-0.008	0.006
Streptococcus mitis	LNFPII	0.006	0.005	0.284	0.968	-0.005	0.016
Streptococcus mitis	LNFPIII	0.050	0.170	0.773	0.968	-0.284	0.384
Streptococcus mitis	LSTb	-0.017	0.031	0.590	0.968	-0.078	0.044
Streptococcus mitis	LSTc	0.036	0.030	0.238	0.953	-0.022	0.094
Streptococcus mitis	DFLNT	0.000	0.003	0.968	0.968	-0.006	0.006
Streptococcus mitis	LNH	0.002	0.025	0.930	0.968	-0.047	0.051
Streptococcus mitis	DSLNT	-0.003	0.020	0.897	0.968	-0.041	0.036
Streptococcus mitis	FLNH	0.012	0.011	0.314	0.968	-0.011	0.034
Streptococcus mitis	DFLNH	-0.003	0.008	0.730	0.968	-0.018	0.013
Streptococcus mitis	FDSLNH	-0.007	0.006	0.232	0.953	-0.018	0.004
Streptococcus mitis	DSLNH	-0.003	0.017	0.861	0.968	-0.037	0.030
Streptococcus mitis	Delivery mode: emergency caesarean	0.692	1.695	0.686	0.968	-2.630	4.014
Streptococcus mitis	Delivery mode: planned caesarean	1.474	1.017	0.158	0.894	-0.518	3.466
Streptococcus mitis	First week pacifier: yes	-0.728	1.235	0.560	0.968	-3.148	1.692
Streptococcus mitis	Siblings: yes	-0.065	1.147	0.956	0.968	-2.313	2.184
Streptococcus mitis	Pre-pregnancy BMI: high and obese	-0.585	0.995	0.562	0.968	-2.536	1.366
Gemella haemolysans	Secretor status: Secretor	0.348	3.188	0.914	0.951	-5.900	6.595
Gemella haemolysans	2'FL	-0.001	0.002	0.649	0.951	-0.004	0.002
Gemella haemolysans	3FL	-0.008	0.004	0.060	0.380	-0.015	0.000
Gemella haemolysans	DFLac	0.003	0.006	0.695	0.951	-0.010	0.015
Gemella haemolysans	3'SL	-0.008	0.013	0.542	0.951	-0.035	0.018
Gemella haemolysans	6'SL	0.005	0.014	0.701	0.951	-0.021	0.032
Gemella haemolysans	LNT	-0.002	0.006	0.690	0.951	-0.015	0.010
Gemella haemolysans	LNnT	-0.015	0.023	0.536	0.951	-0.060	0.031
Gemella haemolysans	LNFPI	0.001	0.005	0.904	0.951	-0.008	0.010

Gemella haemolysans	LNFPII	0.019	0.007	0.010	0.135	0.005	0.032
Gemella haemolysans	LNFPIII	-0.024	0.219	0.914	0.951	-0.452	0.405
Gemella haemolysans	LSTb	-0.046	0.040	0.257	0.901	-0.125	0.032
Gemella haemolysans	LSTc	0.001	0.038	0.989	0.989	-0.074	0.075
Gemella haemolysans	DFLNT	-0.002	0.004	0.560	0.951	-0.009	0.005
Gemella haemolysans	LNH	0.011	0.032	0.733	0.951	-0.052	0.074
Gemella haemolysans	DSLNT	-0.030	0.025	0.250	0.901	-0.079	0.020
Gemella haemolysans	FLNH	0.006	0.014	0.686	0.951	-0.022	0.034
Gemella haemolysans	DFLNH	-0.017	0.010	0.100	0.468	-0.037	0.003
Gemella haemolysans	FDSLNH	-0.016	0.007	0.032	0.295	-0.031	-0.002
Gemella haemolysans	DSLNH	-0.002	0.022	0.917	0.951	-0.045	0.041
Gemella haemolysans	Delivery mode: emergency caesarean	4.128	2.174	0.068	0.380	-0.133	8.388
Gemella haemolysans	Delivery mode: planned caesarean	0.481	1.304	0.715	0.951	-2.075	3.036
Gemella haemolysans	First week pacifier: yes	0.777	1.584	0.627	0.951	-2.327	3.882
Gemella haemolysans	Siblings: yes	1.553	1.472	0.300	0.935	-1.332	4.437
Gemella haemolysans	Pre-pregnancy BMI: high and obese	0.357	1.277	0.782	0.951	-2.146	2.859
Rothia mucilaginosa	Secretor status: Secretor	0.216	3.671	0.953	0.953	-6.979	7.411
Rothia mucilaginosa	2’FL	0.002	0.002	0.380	0.861	-0.002	0.005
Rothia mucilaginosa	3FL	-0.001	0.004	0.831	0.924	-0.010	0.008
Rothia mucilaginosa	DFLac	-0.002	0.007	0.744	0.906	-0.017	0.012
Rothia mucilaginosa	3’SL	-0.021	0.016	0.190	0.731	-0.051	0.010
Rothia mucilaginosa	6’SL	-0.010	0.016	0.548	0.861	-0.040	0.021
Rothia mucilaginosa	LNT	-0.011	0.007	0.122	0.671	-0.025	0.003
Rothia mucilaginosa	LNnT	-0.005	0.027	0.848	0.924	-0.058	0.047
Rothia mucilaginosa	LNFPI	-0.010	0.005	0.063	0.592	-0.020	0.000
Rothia mucilaginosa	LNFPII	-0.004	0.008	0.619	0.861	-0.019	0.011
Rothia mucilaginosa	LNFPIII	0.379	0.252	0.144	0.671	-0.115	0.872
Rothia mucilaginosa	LSTb	0.130	0.046	0.009	0.255	0.039	0.220
Rothia mucilaginosa	LSTc	0.015	0.044	0.737	0.906	-0.071	0.101

Rothia mucilaginosa	DFLNT	0.003	0.004	0.557	0.861	-0.006	0.011
Rothia mucilaginosa	LNH	-0.028	0.037	0.453	0.861	-0.100	0.044
Rothia mucilaginosa	DSLNT	-0.020	0.029	0.487	0.861	-0.077	0.036
Rothia mucilaginosa	FLNH	0.010	0.017	0.559	0.861	-0.023	0.042
Rothia mucilaginosa	DFLNH	0.010	0.012	0.404	0.861	-0.013	0.032
Rothia mucilaginosa	FDSLNH	0.011	0.008	0.209	0.731	-0.006	0.027
Rothia mucilaginosa	DSLNH	0.005	0.025	0.858	0.924	-0.045	0.054
Rothia mucilaginosa	Delivery mode: emergency caesarean	-1.163	2.503	0.646	0.861	-6.070	3.744
Rothia mucilaginosa	Delivery mode: planned caesarean	2.293	1.502	0.138	0.671	-0.650	5.236
Rothia mucilaginosa	First week pacifier: yes	0.174	1.824	0.925	0.953	-3.401	3.749
Rothia mucilaginosa	Siblings: yes	1.001	1.695	0.559	0.861	-2.320	4.323
Rothia mucilaginosa	Pre-pregnancy BMI: high and obese	1.701	1.470	0.257	0.800	-1.181	4.582
Streptococcus salivarius group 1	Secretor status: Secretor	-3.375	4.694	0.478	0.970	-12.576	5.826
Streptococcus salivarius group 1	2'FL	0.001	0.002	0.612	0.970	-0.003	0.006
Streptococcus salivarius group 1	3FL	0.005	0.006	0.354	0.970	-0.006	0.017
Streptococcus salivarius group 1	DFLac	0.001	0.009	0.947	0.970	-0.018	0.019
Streptococcus salivarius group 1	3'SL	-0.041	0.020	0.046	0.970	-0.080	-0.003
Streptococcus salivarius group 1	6'SL	-0.001	0.020	0.970	0.970	-0.040	0.039
Streptococcus salivarius group 1	LNT	0.002	0.009	0.865	0.970	-0.016	0.019
Streptococcus salivarius group 1	LNnT	0.052	0.034	0.138	0.970	-0.015	0.120
Streptococcus salivarius group 1	LNFPI	0.000	0.007	0.941	0.970	-0.014	0.013
Streptococcus salivarius group 1	LNFPII	-0.011	0.010	0.271	0.970	-0.030	0.008
Streptococcus salivarius group 1	LNFPIII	-0.111	0.322	0.734	0.970	-0.741	0.520
Streptococcus salivarius group 1	LSTb	0.046	0.059	0.440	0.970	-0.070	0.162
Streptococcus salivarius group 1	LSTc	0.019	0.056	0.737	0.970	-0.091	0.129
Streptococcus salivarius group 1	DFLNT	0.000	0.005	0.955	0.970	-0.011	0.010

Streptococcus salivarius group 1	LNH	-0.087	0.047	0.076	0.970	-0.179	0.005
Streptococcus salivarius group 1	DSLNT	-0.009	0.037	0.815	0.970	-0.081	0.064
Streptococcus salivarius group 1	FLNH	0.014	0.021	0.516	0.970	-0.028	0.056
Streptococcus salivarius group 1	DFLNH	0.010	0.015	0.517	0.970	-0.019	0.039
Streptococcus salivarius group 1	FDSLNH	0.003	0.011	0.783	0.970	-0.018	0.024
Streptococcus salivarius group 1	DSLNH	0.002	0.032	0.942	0.970	-0.061	0.066
Streptococcus salivarius group 1	Delivery mode: emergency caesarean	1.289	3.201	0.690	0.970	-4.986	7.564
Streptococcus salivarius group 1	Delivery mode: planned caesarean	-0.484	1.920	0.803	0.970	-4.248	3.280
Streptococcus salivarius group 1	First week pacifier: yes	2.325	2.333	0.327	0.970	-2.247	6.897
Streptococcus salivarius group 1	Siblings: yes	-0.998	2.167	0.649	0.970	-5.246	3.250
Streptococcus salivarius group 1	Pre-pregnancy BMI: high and obese	-1.952	1.880	0.308	0.970	-5.637	1.733
Veillonella sp.	Secretor status: Secretor	-2.821	5.591	0.618	0.809	-13.779	8.138
Veillonella sp.	2’FL	-0.001	0.003	0.722	0.809	-0.006	0.004
Veillonella sp.	3FL	-0.008	0.007	0.245	0.809	-0.021	0.005
Veillonella sp.	DFLac	-0.006	0.011	0.602	0.809	-0.028	0.016
Veillonella sp.	3’SL	-0.009	0.024	0.714	0.809	-0.055	0.038
Veillonella sp.	6’SL	-0.022	0.024	0.372	0.809	-0.069	0.025
Veillonella sp.	LNT	-0.006	0.011	0.615	0.809	-0.027	0.016
Veillonella sp.	LNnT	-0.060	0.041	0.151	0.809	-0.141	0.020
Veillonella sp.	LNFPI	0.005	0.008	0.548	0.809	-0.011	0.021
Veillonella sp.	LNFPII	0.015	0.012	0.201	0.809	-0.008	0.038
Veillonella sp.	LNFPIII	0.348	0.383	0.372	0.809	-0.403	1.099
Veillonella sp.	LSTb	-0.040	0.070	0.570	0.809	-0.178	0.098
Veillonella sp.	LSTc	0.044	0.067	0.518	0.809	-0.087	0.175
Veillonella sp.	DFLNT	0.008	0.006	0.230	0.809	-0.005	0.021
Veillonella sp.	LNH	0.068	0.056	0.234	0.809	-0.042	0.179
Veillonella sp.	DSLNT	-0.043	0.044	0.337	0.809	-0.130	0.043
Veillonella sp.	FLNH	0.005	0.025	0.833	0.860	-0.044	0.055

Veillonella sp.	DFLNH	-0.003	0.018	0.860	0.860	-0.038	0.031
Veillonella sp.	FDSLNH	-0.008	0.013	0.545	0.809	-0.033	0.017
Veillonella sp.	DSLNH	0.015	0.038	0.693	0.809	-0.060	0.091
Veillonella sp.	Delivery mode: emergency caesarean	-2.318	3.813	0.548	0.809	-9.792	5.155
Veillonella sp.	Delivery mode: planned caesarean	1.955	2.287	0.400	0.809	-2.527	6.438
Veillonella sp.	First week pacifier: yes	-3.859	2.778	0.176	0.809	-9.304	1.586
Veillonella sp.	Siblings: yes	-0.599	2.581	0.818	0.860	-5.658	4.461
Veillonella sp.	Pre-pregnancy BMI: high and obese	-2.129	2.239	0.350	0.809	-6.518	2.260
Neisseria subflava	Secretor status: Secretor	-2.818	2.235	0.218	0.485	-7.199	1.563
Neisseria subflava	2'FL	0.000	0.001	0.882	0.882	-0.002	0.002
Neisseria subflava	3FL	-0.008	0.003	0.007	0.063	-0.013	-0.003
Neisseria subflava	DFLac	0.007	0.004	0.117	0.373	-0.002	0.016
Neisseria subflava	3'SL	0.020	0.009	0.043	0.239	0.002	0.039
Neisseria subflava	6'SL	-0.005	0.010	0.579	0.704	-0.024	0.013
Neisseria subflava	LNT	-0.007	0.004	0.130	0.373	-0.015	0.002
Neisseria subflava	LNnT	-0.028	0.016	0.096	0.373	-0.060	0.004
Neisseria subflava	LNFPI	0.001	0.003	0.864	0.882	-0.006	0.007
Neisseria subflava	LNFPII	0.016	0.005	0.002	**0.025**	0.007	0.025
Neisseria subflava	LNFPIII	-0.070	0.153	0.651	0.720	-0.370	0.230
Neisseria subflava	LSTb	0.013	0.028	0.650	0.720	-0.042	0.068
Neisseria subflava	LSTc	-0.026	0.027	0.343	0.601	-0.078	0.027
Neisseria subflava	DFLNT	0.002	0.003	0.513	0.704	-0.003	0.007
Neisseria subflava	LNH	0.052	0.022	0.028	0.197	0.008	0.096
Neisseria subflava	DSLNT	-0.019	0.018	0.280	0.561	-0.054	0.015
Neisseria subflava	FLNH	0.010	0.010	0.340	0.601	-0.010	0.030
Neisseria subflava	DFLNH	-0.004	0.007	0.579	0.704	-0.018	0.010
Neisseria subflava	FDSLNH	-0.008	0.005	0.149	0.378	-0.018	0.002
Neisseria subflava	DSLNH	0.007	0.015	0.668	0.720	-0.023	0.037
Neisseria subflava	Delivery mode: emergency caesarean	0.981	1.524	0.525	0.704	-2.007	3.968

Neisseria subflava	Delivery mode: planned caesarean	3.171	0.914	0.002	**0.025**	1.379	4.963
Neisseria subflava	First week pacifier: yes	-0.956	1.111	0.397	0.654	-3.132	1.221
Neisseria subflava	Siblings: yes	0.633	1.032	0.544	0.704	-1.389	2.656
Neisseria subflava	Pre-pregnancy BMI: high and obese	-1.707	0.895	0.067	0.312	-3.461	0.048
Neisseria subflava	Pre-pregnancy BMI: high and obese	-1.451	0.938	0.133	0.373	-3.288	0.387
Streptococcus oralis	Secretor status: Secretor	-1.835	4.926	0.712	0.986	-11.491	7.820
Streptococcus oralis	2'FL	-0.002	0.002	0.380	0.887	-0.007	0.003
Streptococcus oralis	3FL	-0.007	0.006	0.242	0.868	-0.019	0.005
Streptococcus oralis	DFLac	-0.005	0.010	0.621	0.966	-0.024	0.014
Streptococcus oralis	3'SL	0.000	0.021	0.986	0.986	-0.041	0.041
Streptococcus oralis	6'SL	-0.024	0.021	0.261	0.868	-0.066	0.017
Streptococcus oralis	LNT	-0.016	0.010	0.115	0.868	-0.034	0.003
Streptococcus oralis	LNnT	-0.035	0.036	0.341	0.868	-0.106	0.036
Streptococcus oralis	LNFPI	0.005	0.007	0.449	0.898	-0.008	0.019
Streptococcus oralis	LNFPII	0.009	0.010	0.413	0.889	-0.012	0.029
Streptococcus oralis	LNFPIII	0.081	0.338	0.813	0.986	-0.581	0.743
Streptococcus oralis	LSTb	0.065	0.062	0.302	0.868	-0.056	0.187
Streptococcus oralis	LSTc	-0.039	0.059	0.514	0.899	-0.155	0.077
Streptococcus oralis	DFLNT	0.007	0.006	0.251	0.868	-0.004	0.018
Streptococcus oralis	LNH	0.050	0.050	0.321	0.868	-0.047	0.147
Streptococcus oralis	DSLNT	-0.028	0.039	0.483	0.899	-0.104	0.049
Streptococcus oralis	FLNH	-0.005	0.022	0.831	0.986	-0.049	0.039
Streptococcus oralis	DFLNH	0.000	0.016	0.985	0.986	-0.031	0.030
Streptococcus oralis	FDSLNH	-0.001	0.011	0.954	0.986	-0.023	0.021
Streptococcus oralis	DSLNH	0.052	0.034	0.140	0.868	-0.015	0.118
Streptococcus oralis	Delivery mode: emergency caesarean	0.462	3.359	0.892	0.986	-6.123	7.046
Streptococcus oralis	Delivery mode: planned caesarean	2.307	2.015	0.262	0.868	-1.642	6.257
Streptococcus oralis	First week pacifier: yes	-1.314	2.448	0.596	0.966	-6.111	3.484

Streptococcus oralis	Siblings: yes	-0.645	2.274	0.779	0.986	-5.102	3.813
Streptococcus oralis	Pre-pregnancy BMI: high and obese	-2.489	1.973	0.218	0.868	-6.356	1.378
Haemophilus haemolyticus	Secretor status: Secretor	-4.301	3.775	0.264	0.529	-11.701	3.099
Haemophilus haemolyticus	2'FL	-0.003	0.002	0.127	0.324	-0.007	0.001
Haemophilus haemolyticus	3FL	-0.008	0.005	0.091	0.317	-0.017	0.001
Haemophilus haemolyticus	DFLac	0.006	0.008	0.447	0.630	-0.009	0.021
Haemophilus haemolyticus	3'SL	0.022	0.016	0.171	0.368	-0.009	0.054
Haemophilus haemolyticus	6'SL	0.015	0.016	0.352	0.580	-0.016	0.047
Haemophilus haemolyticus	LNT	-0.006	0.007	0.455	0.630	-0.020	0.009
Haemophilus haemolyticus	LNnT	0.013	0.028	0.646	0.772	-0.041	0.067
Haemophilus haemolyticus	LNFPI	-0.004	0.005	0.473	0.630	-0.015	0.007
Haemophilus haemolyticus	LNFPII	0.013	0.008	0.113	0.324	-0.003	0.028
Haemophilus haemolyticus	LNFPIII	0.531	0.259	0.050	0.232	0.024	1.038
Haemophilus haemolyticus	LSTb	0.002	0.048	0.965	0.965	-0.091	0.095
Haemophilus haemolyticus	LSTc	-0.046	0.045	0.321	0.580	-0.134	0.043
Haemophilus haemolyticus	DFLNT	-0.001	0.004	0.858	0.924	-0.009	0.008
Haemophilus haemolyticus	LNH	0.021	0.038	0.579	0.737	-0.053	0.096
Haemophilus haemolyticus	DSLNT	-0.086	0.030	0.007	0.152	-0.145	-0.028
Haemophilus haemolyticus	FLNH	-0.007	0.017	0.689	0.772	-0.040	0.027
Haemophilus haemolyticus	DFLNH	-0.019	0.012	0.116	0.324	-0.043	0.004
Haemophilus haemolyticus	FDSLNH	-0.021	0.009	0.022	0.152	-0.038	-0.004
Haemophilus haemolyticus	DSLNH	0.054	0.026	0.049	0.232	0.003	0.104
Haemophilus haemolyticus	Delivery mode: emergency caesarean	3.798	2.575	0.151	0.353	-1.248	8.845
Haemophilus haemolyticus	Delivery mode: planned caesarean	-2.760	1.544	0.085	0.317	-5.787	0.267
Haemophilus haemolyticus	First week pacifier: yes	4.661	1.876	0.019	0.152	0.984	8.338

Haemophilus haemolyticus	Siblings: yes	1.332	1.743	0.451	0.630	-2.085	4.748
Haemophilus haemolyticus	Pre-pregnancy BMI: high and obese	1.482	1.512	0.336	0.580	-1.482	4.446
Veillonella nakazawae	Secretor status: Secretor	-0.352	4.001	0.931	0.973	-8.194	7.491
Veillonella nakazawae	2'FL	0.002	0.002	0.244	0.872	-0.002	0.006
Veillonella nakazawae	3FL	-0.006	0.005	0.201	0.872	-0.016	0.003
Veillonella nakazawae	DFLac	-0.006	0.008	0.470	0.873	-0.022	0.010
Veillonella nakazawae	3'SL	-0.003	0.017	0.840	0.973	-0.037	0.030
Veillonella nakazawae	6'SL	-0.008	0.017	0.631	0.973	-0.042	0.025
Veillonella nakazawae	LNT	-0.005	0.008	0.499	0.873	-0.020	0.010
Veillonella nakazawae	LNnT	-0.005	0.029	0.853	0.973	-0.063	0.052
Veillonella nakazawae	LNFPI	0.002	0.006	0.749	0.973	-0.009	0.013
Veillonella nakazawae	LNFPII	0.016	0.008	0.073	0.872	-0.001	0.032
Veillonella nakazawae	LNFPIII	-0.491	0.274	0.084	0.872	-1.029	0.046
Veillonella nakazawae	LSTb	0.046	0.050	0.374	0.872	-0.053	0.144
Veillonella nakazawae	LSTc	0.018	0.048	0.704	0.973	-0.076	0.112
Veillonella nakazawae	DFLNT	0.001	0.005	0.841	0.973	-0.008	0.010
Veillonella nakazawae	LNH	-0.033	0.040	0.419	0.873	-0.112	0.046
Veillonella nakazawae	DSLNT	-0.004	0.032	0.898	0.973	-0.066	0.058
Veillonella nakazawae	FLNH	0.022	0.018	0.228	0.872	-0.013	0.058
Veillonella nakazawae	DFLNH	-0.001	0.013	0.955	0.973	-0.025	0.024
Veillonella nakazawae	FDSLNH	-0.004	0.009	0.669	0.973	-0.022	0.014
Veillonella nakazawae	DSLNH	-0.015	0.028	0.599	0.973	-0.069	0.039
Veillonella nakazawae	Delivery mode: emergency caesarean	2.813	2.729	0.311	0.872	-2.535	8.161
Veillonella nakazawae	Delivery mode: planned caesarean	2.486	1.637	0.140	0.872	-0.721	5.694
Veillonella nakazawae	First week pacifier: yes	-1.960	1.988	0.333	0.872	-5.857	1.937
Veillonella nakazawae	Siblings: yes	-0.063	1.847	0.973	0.973	-3.683	3.558
Veillonella nakazawae	Pre-pregnancy BMI: high and obese	-1.464	1.603	0.369	0.872	-4.605	1.677
Staphylococcus lugdunensis	Secretor status: Secretor	3.945	3.410	0.257	0.754	-2.738	10.627

Staphylococcus lugdunensis	2'FL	0.002	0.002	0.311	0.754	-0.002	0.005
Staphylococcus lugdunensis	3FL	0.009	0.004	0.044	0.619	0.001	0.017
Staphylococcus lugdunensis	DFLac	0.007	0.007	0.341	0.754	-0.007	0.020
Staphylococcus lugdunensis	3'SL	-0.042	0.014	0.007	0.201	-0.070	-0.014
Staphylococcus lugdunensis	6'SL	0.009	0.015	0.550	0.830	-0.020	0.037
Staphylococcus lugdunensis	LNT	0.005	0.007	0.445	0.780	-0.008	0.018
Staphylococcus lugdunensis	LNnT	0.024	0.025	0.350	0.754	-0.025	0.073
Staphylococcus lugdunensis	LNFPI	0.005	0.005	0.348	0.754	-0.005	0.014
Staphylococcus lugdunensis	LNFPII	-0.001	0.007	0.905	0.970	-0.015	0.013
Staphylococcus lugdunensis	LNFPIII	0.069	0.234	0.770	0.919	-0.389	0.527
Staphylococcus lugdunensis	LSTb	-0.054	0.043	0.221	0.754	-0.138	0.030
Staphylococcus lugdunensis	LSTc	0.010	0.041	0.806	0.919	-0.070	0.090
Staphylococcus lugdunensis	DFLNT	-0.004	0.004	0.290	0.754	-0.012	0.003
Staphylococcus lugdunensis	LNH	-0.001	0.034	0.968	0.970	-0.069	0.066
Staphylococcus lugdunensis	DSLNT	0.006	0.027	0.821	0.919	-0.047	0.059
Staphylococcus lugdunensis	FLNH	-0.001	0.015	0.970	0.970	-0.031	0.030
Staphylococcus lugdunensis	DFLNH	0.009	0.011	0.415	0.780	-0.012	0.030
Staphylococcus lugdunensis	FDSLNH	-0.004	0.008	0.634	0.846	-0.019	0.012
Staphylococcus lugdunensis	DSLNH	-0.038	0.023	0.119	0.754	-0.084	0.008
Staphylococcus lugdunensis	Delivery mode: emergency caesarean	-1.263	2.325	0.591	0.830	-5.820	3.295
Staphylococcus lugdunensis	Delivery mode: planned caesarean	-1.682	1.395	0.238	0.754	-4.415	1.052
Staphylococcus lugdunensis	First week pacifier: yes	1.230	1.694	0.474	0.780	-2.091	4.551
Staphylococcus lugdunensis	Siblings: yes	-1.537	1.574	0.337	0.754	-4.622	1.548
Staphylococcus lugdunensis	Pre-pregnancy BMI: high and obese	-0.738	1.366	0.593	0.830	-3.415	1.938
Haemophilus parainfluenzae	Secretor status: Secretor	3.187	3.725	0.400	0.721	-4.114	10.487

Haemophilus parainfluenzae	2'FL	-0.001	0.002	0.660	0.886	-0.004	0.003
Haemophilus parainfluenzae	3FL	-0.003	0.005	0.479	0.790	-0.012	0.006
Haemophilus parainfluenzae	DFLac	0.019	0.007	0.016	0.350	0.005	0.034
Haemophilus parainfluenzae	3'SL	-0.016	0.016	0.332	0.721	-0.046	0.015
Haemophilus parainfluenzae	6'SL	0.023	0.016	0.157	0.721	-0.008	0.054
Haemophilus parainfluenzae	LNT	0.005	0.007	0.527	0.819	-0.010	0.019
Haemophilus parainfluenzae	LNnT	0.026	0.027	0.350	0.721	-0.028	0.079
Haemophilus parainfluenzae	LNFPI	-0.007	0.005	0.206	0.721	-0.017	0.004
Haemophilus parainfluenzae	LNFPII	0.004	0.008	0.639	0.886	-0.012	0.019
Haemophilus parainfluenzae	LNFPIII	0.605	0.255	0.025	0.350	0.104	1.105
Haemophilus parainfluenzae	LSTb	0.010	0.047	0.835	0.886	-0.082	0.102
Haemophilus parainfluenzae	LSTc	-0.010	0.045	0.829	0.886	-0.097	0.078
Haemophilus parainfluenzae	DFLNT	-0.008	0.004	0.065	0.603	-0.017	0.000
Haemophilus parainfluenzae	LNH	-0.041	0.037	0.281	0.721	-0.115	0.032
Haemophilus parainfluenzae	DSLNT	-0.032	0.029	0.279	0.721	-0.090	0.025
Haemophilus parainfluenzae	FLNH	-0.007	0.017	0.681	0.886	-0.040	0.026
Haemophilus parainfluenzae	DFLNH	0.014	0.012	0.241	0.721	-0.009	0.037
Haemophilus parainfluenzae	FDSLNH	0.001	0.008	0.869	0.886	-0.015	0.018
Haemophilus parainfluenzae	DSLNH	-0.008	0.026	0.753	0.886	-0.058	0.042
Haemophilus parainfluenzae	Delivery mode: emergency caesarean	-3.988	2.540	0.128	0.721	-8.967	0.990
Haemophilus parainfluenzae	Delivery mode: planned caesarean	0.348	1.524	0.821	0.886	-2.639	3.334
Haemophilus parainfluenzae	First week pacifier: yes	-1.541	1.851	0.412	0.721	-5.169	2.087
Haemophilus parainfluenzae	Siblings: yes	-1.473	1.720	0.399	0.721	-4.844	1.897
Haemophilus parainfluenzae	Pre-pregnancy BMI: high and obese	1.435	1.492	0.344	0.721	-1.489	4.359
Streptococcus parasanguinis	Secretor status: Secretor	-1.784	3.864	0.648	0.824	-9.357	5.789

Streptococcus parasanguinis	2'FL	0.001	0.002	0.478	0.824	-0.002	0.005
Streptococcus parasanguinis	3FL	0.000	0.005	0.932	0.996	-0.009	0.010
Streptococcus parasanguinis	DFLac	-0.009	0.008	0.246	0.733	-0.024	0.006
Streptococcus parasanguinis	3'SL	-0.007	0.016	0.677	0.824	-0.039	0.025
Streptococcus parasanguinis	6'SL	-0.017	0.017	0.320	0.814	-0.049	0.016
Streptococcus parasanguinis	LNT	-0.011	0.007	0.137	0.733	-0.026	0.003
Streptococcus parasanguinis	LNnT	-0.032	0.028	0.262	0.733	-0.088	0.023
Streptococcus parasanguinis	LNFPI	-0.003	0.006	0.604	0.824	-0.014	0.008
Streptococcus parasanguinis	LNFPII	0.005	0.008	0.570	0.824	-0.011	0.021
Streptococcus parasanguinis	LNFPIII	-0.001	0.265	0.996	0.996	-0.520	0.518
Streptococcus parasanguinis	LSTb	0.062	0.049	0.215	0.733	-0.034	0.157
Streptococcus parasanguinis	LSTc	0.064	0.046	0.178	0.733	-0.027	0.155
Streptococcus parasanguinis	DFLNT	0.006	0.004	0.179	0.733	-0.003	0.015
Streptococcus parasanguinis	LNH	-0.034	0.039	0.387	0.824	-0.110	0.042
Streptococcus parasanguinis	DSLNT	-0.013	0.031	0.664	0.824	-0.073	0.046
Streptococcus parasanguinis	FLNH	0.040	0.018	0.031	0.433	0.005	0.074
Streptococcus parasanguinis	DFLNH	0.006	0.012	0.646	0.824	-0.018	0.030
Streptococcus parasanguinis	FDSLNH	-0.005	0.009	0.594	0.824	-0.022	0.013
Streptococcus parasanguinis	DSLNH	-0.015	0.027	0.578	0.824	-0.067	0.037
Streptococcus parasanguinis	Delivery mode: emergency caesarean	-3.326	2.635	0.217	0.733	-8.491	1.838
Streptococcus parasanguinis	Delivery mode: planned caesarean	0.063	1.580	0.969	0.996	-3.035	3.161
Streptococcus parasanguinis	First week pacifier: yes	3.047	1.920	0.124	0.733	-0.716	6.810
Streptococcus parasanguinis	Siblings: yes	-0.818	1.784	0.650	0.824	-4.314	2.678
Streptococcus parasanguinis	Pre-pregnancy BMI: high and obese	-1.055	1.547	0.501	0.824	-4.088	1.978
Bifidobacterium longum	Secretor status: Secretor	2.364	3.585	0.515	0.901	-4.662	9.391

Bifidobacterium longum	2'FL	0.000	0.002	0.996	0.996	-0.003	0.003
Bifidobacterium longum	3FL	-0.008	0.004	0.089	0.433	-0.016	0.001
Bifidobacterium longum	DFLac	-0.001	0.007	0.869	0.996	-0.015	0.013
Bifidobacterium longum	3'SL	0.028	0.015	0.075	0.433	-0.002	0.058
Bifidobacterium longum	6'SL	0.001	0.015	0.925	0.996	-0.029	0.032
Bifidobacterium longum	LNT	-0.001	0.007	0.904	0.996	-0.014	0.013
Bifidobacterium longum	LNnT	0.005	0.026	0.836	0.996	-0.046	0.057
Bifidobacterium longum	LNFPI	-0.008	0.005	0.121	0.433	-0.018	0.002
Bifidobacterium longum	LNFPII	0.002	0.008	0.829	0.996	-0.013	0.016
Bifidobacterium longum	LNFPIII	-0.269	0.246	0.283	0.683	-0.751	0.213
Bifidobacterium longum	LSTb	0.076	0.045	0.103	0.433	-0.012	0.165
Bifidobacterium longum	LSTc	-0.046	0.043	0.294	0.683	-0.130	0.038
Bifidobacterium longum	DFLNT	-0.008	0.004	0.066	0.433	-0.016	0.000
Bifidobacterium longum	LNH	0.054	0.036	0.147	0.456	-0.017	0.124
Bifidobacterium longum	DSLNT	0.056	0.028	0.058	0.433	0.001	0.112
Bifidobacterium longum	FLNH	-0.026	0.016	0.124	0.433	-0.058	0.006
Bifidobacterium longum	DFLNH	0.008	0.011	0.480	0.895	-0.014	0.030
Bifidobacterium longum	FDSLNH	0.001	0.008	0.935	0.996	-0.015	0.017
Bifidobacterium longum	DSLNH	0.044	0.025	0.085	0.433	-0.004	0.092
Bifidobacterium longum	Delivery mode: emergency caesarean	2.492	2.445	0.317	0.683	-2.300	7.283
Bifidobacterium longum	Delivery mode: planned caesarean	1.382	1.466	0.354	0.708	-1.492	4.256
Bifidobacterium longum	First week pacifier: yes	-0.358	1.781	0.842	0.996	-3.849	3.134
Bifidobacterium longum	Siblings: yes	1.818	1.655	0.281	0.683	-1.426	5.062
Bifidobacterium longum	Pre-pregnancy BMI: high and obese	-0.576	1.436	0.692	0.996	-3.390	2.239
Lactobacillus gasseri	Secretor status: Secretor	2.964	4.692	0.533	0.998	-6.233	12.161

Lactobacillus gasseri	2'FL	-0.001	0.002	0.795	0.998	-0.005	0.004
Lactobacillus gasseri	3FL	0.007	0.006	0.222	0.989	-0.004	0.018
Lactobacillus gasseri	DFLac	0.003	0.009	0.783	0.998	-0.016	0.021
Lactobacillus gasseri	3'SL	-0.007	0.020	0.711	0.998	-0.046	0.032
Lactobacillus gasseri	6'SL	-0.016	0.020	0.424	0.989	-0.056	0.023
Lactobacillus gasseri	LNT	0.000	0.009	0.979	0.998	-0.018	0.018
Lactobacillus gasseri	LNnT	0.045	0.034	0.202	0.989	-0.022	0.112
Lactobacillus gasseri	LNFPI	0.010	0.007	0.162	0.989	-0.004	0.023
Lactobacillus gasseri	LNFPII	-0.007	0.010	0.495	0.998	-0.026	0.012
Lactobacillus gasseri	LNFPIII	-0.436	0.322	0.186	0.989	-1.067	0.195
Lactobacillus gasseri	LSTb	0.000	0.059	0.996	0.998	-0.116	0.116
Lactobacillus gasseri	LSTc	-0.005	0.056	0.928	0.998	-0.115	0.105
Lactobacillus gasseri	DFLNT	-0.001	0.005	0.879	0.998	-0.011	0.010
Lactobacillus gasseri	LNH	-0.065	0.047	0.179	0.989	-0.157	0.027
Lactobacillus gasseri	DSLNT	0.036	0.037	0.334	0.989	-0.036	0.109
Lactobacillus gasseri	FLNH	0.004	0.021	0.854	0.998	-0.038	0.046
Lactobacillus gasseri	DFLNH	0.000	0.015	0.998	0.998	-0.029	0.029
Lactobacillus gasseri	FDSLNH	0.009	0.011	0.392	0.989	-0.012	0.030
Lactobacillus gasseri	DSLNH	0.002	0.032	0.951	0.998	-0.061	0.065
Lactobacillus gasseri	Delivery mode: emergency caesarean	0.311	3.200	0.923	0.998	-5.961	6.583
Lactobacillus gasseri	Delivery mode: planned caesarean	-1.962	1.919	0.315	0.989	-5.724	1.800
Lactobacillus gasseri	First week pacifier: yes	0.495	2.332	0.833	0.998	-4.075	5.065
Lactobacillus gasseri	Siblings: yes	-1.971	2.166	0.371	0.989	-6.217	2.275
Lactobacillus gasseri	Pre-pregnancy BMI: high and obese	0.110	1.879	0.954	0.998	-3.574	3.794
Porphyromonas sp.	Secretor status: Secretor	-0.189	3.215	0.954	0.967	-6.489	6.112
Porphyromonas sp.	2'FL	-0.002	0.002	0.351	0.771	-0.005	0.002
Porphyromonas sp.	3FL	-0.005	0.004	0.199	0.558	-0.013	0.003
Porphyromonas sp.	DFLac	0.009	0.006	0.154	0.558	-0.003	0.022
Porphyromonas sp.	3'SL	0.011	0.014	0.446	0.780	-0.016	0.037

Porphyromonas sp.	6'SL	0.007	0.014	0.640	0.872	-0.020	0.034
Porphyromonas sp.	LNT	-0.012	0.006	0.061	0.429	-0.024	0.000
Porphyromonas sp.	LNnT	-0.006	0.024	0.809	0.908	-0.052	0.040
Porphyromonas sp.	LNFPI	0.002	0.005	0.650	0.872	-0.007	0.011
Porphyromonas sp.	LNFPII	0.017	0.007	0.018	0.165	0.004	0.030
Porphyromonas sp.	LNFPIII	0.559	0.220	0.017	0.165	0.127	0.991
Porphyromonas sp.	LSTb	0.055	0.040	0.188	0.558	-0.025	0.134
Porphyromonas sp.	LSTc	0.017	0.039	0.654	0.872	-0.058	0.093
Porphyromonas sp.	DFLNT	0.000	0.004	0.967	0.967	-0.007	0.007
Porphyromonas sp.	LNH	-0.012	0.032	0.717	0.908	-0.075	0.051
Porphyromonas sp.	DSLNT	-0.082	0.025	0.003	0.091	-0.131	-0.032
Porphyromonas sp.	FLNH	0.023	0.015	0.121	0.558	-0.005	0.052
Porphyromonas sp.	DFLNH	-0.017	0.010	0.114	0.558	-0.036	0.003
Porphyromonas sp.	FDSLNH	-0.007	0.007	0.320	0.771	-0.022	0.007
Porphyromonas sp.	DSLNH	0.007	0.022	0.761	0.908	-0.037	0.050
Porphyromonas sp.	Delivery mode: emergency caesarean	-2.925	2.192	0.193	0.558	-7.222	1.372
Porphyromonas sp.	Delivery mode: planned caesarean	0.621	1.315	0.640	0.872	-1.956	3.198
Porphyromonas sp.	First week pacifier: yes	-0.977	1.597	0.546	0.872	-4.108	2.153
Porphyromonas sp.	Siblings: yes	-1.237	1.484	0.412	0.771	-4.145	1.672
Porphyromonas sp.	Pre-pregnancy BMI: high and obese	-1.069	1.287	0.413	0.771	-3.593	1.454

2'-fucosyllactose (2'FL), 3'-fucosyllactose (3FL), difucosyllactose (DFLac), 3'-sialyllactose (3'SL), 6'-sialyllactose (6'SL), difucosyl-N-hexosyl (DFLNH), difucosyl-N-acetyl (DFLNT), disialyl-N-hexosyl (DSLNH), disialyl-N-acetyl (DSLNT), fucosyl-disialyl-N-hexosyl (FDSLNH), fucosyllacto-N-hexaose (FLNH), lacto-N-fucopentaose I (LNFP I), lacto-N-fucopentaose II (LNFP II), lacto-N-fucopentaose III (LNFP III), lacto-N-hexaose (LNH), lacto-N-neotetraose (LNnT), lacto-N-tetraose (LNT), lacto-N-neotriose (LSTc), lacto-N-neotriose (LSTb).

Supplementary Table S7. Outputs from linear model for associations between HMO intakes and the infant oral microbiome at 2 months postpartum. Bold text indicated significant *P*-values.

Response variable	Explanatory variable	Estimate	Standard Error	*P*-value	BH corrected *P*-value	CI Lower	CI Upper
Shannon diversity	2'FL	-0.0000005	0.0000004	0.211	0.634	-0.0000128	0.0000028
Shannon diversity	3FL	-0.0000015	0.0000010	0.141	0.529	-0.0000346	0.0000046
Shannon diversity	DFLac	0.0000035	0.0000016	0.048	0.344	0.0000036	0.0000664
Shannon diversity	3'SL	0.0000012	0.0000041	0.776	0.878	-0.0000684	0.0000924
Shannon diversity	6'SL	0.0000038	0.0000046	0.417	0.867	-0.0000052	0.0000128
Shannon diversity	LNT	-0.0000020	0.0000020	0.334	0.751	-0.0000059	0.0000019
Shannon diversity	LNnT	-0.0000022	0.0000060	0.716	0.878	-0.0000139	0.0000956
Shannon diversity	LNFPI	0.0000027	0.0000018	0.157	0.529	-0.0000008	0.0000623
Shannon diversity	LNFPII	0.0000023	0.0000022	0.320	0.751	-0.0000020	0.0000661
Shannon diversity	LNFPIII	-0.0001415	0.0000727	0.067	0.360	-0.0002839	0.0000099
Shannon diversity	LSTb	0.0000080	0.0000149	0.596	0.878	-0.0000212	0.0000372
Shannon diversity	LSTc	0.0000083	0.0000123	0.505	0.878	-0.0000158	0.0000324
Shannon diversity	DFLNT	-0.0000014	0.0000012	0.267	0.720	-0.0000037	0.0000095
Shannon diversity	LNH	0.0000053	0.0000091	0.567	0.878	-0.0000125	0.0000234
Shannon diversity	DSLNT	0.0000039	0.0000079	0.628	0.878	-0.0000115	0.0000193

Shannon diversity	FLNH	0.0000001	0.0000045	0.988	0.988	-0.0000872	0.0000892
Shannon diversity	DFLNH	-0.0000012	0.0000043	0.788	0.878	-0.0000963	0.0000723
Shannon diversity	FDSLNH	0.0000007	0.0000029	0.813	0.878	-0.0000498	0.0000638
Shannon diversity	DSLNH	-0.0000031	0.0000087	0.724	0.878	-0.0000201 5	0.0000139 5
Shannon diversity	Delivery mode: emergency caesarean	0.2268962	0.5072904	0.660	0.878	-0.7673929 8	1.2211853 8
Shannon diversity	Delivery mode: planned caesarean	-0.6846756	0.3285989	0.051	0.344	-1.3287294 4	-0.0406217 6
Shannon diversity	First week pacifier: yes	-0.0454418	0.3566770	0.900	0.935	-0.7445287 2	0.6536451 2
Shannon diversity	Siblings: yes	0.1088624	0.3245504	0.741	0.878	-0.5272563 8	0.7449811 8
Shannon diversity	Pre-pregnancy BMI: high and obese	-0.7039731	0.3163741	0.038	0.344	-1.3240663 4	-0.0838798 6
Richness	2’FL	-0.0000577	0.0001191	0.633	0.801	-0.0002911 4	0.0001757 4
Richness	3FL	-0.0003349	0.0002862	0.256	0.692	-0.0008958 5	0.0002260 5
Richness	DFLac	0.0013134	0.0004751	0.012	0.111	0.0003822 0	0.0022446 0
Richness	3’SL	0.0008956	0.0011963	0.463	0.750	-0.0014491 5	0.0032403 5
Richness	6’SL	0.0012708	0.0013477	0.358	0.750	-0.0013706 9	0.0039122 9
Richness	LNT	-0.0003490	0.0005818	0.556	0.775	-0.0014893 3	0.0007913 3
Richness	LNnT	-0.0006331	0.0017583	0.723	0.813	-0.0040793 7	0.0028131 7

Richness	LNFPI	0.0009297	0.0005249	0.093	0.357	-0.0000990	0.0019585
Richness	LNFPII	0.0006116	0.0006542	0.362	0.750	-0.0006706	0.0018938
Richness	LNFPIII	-0.0617149	0.0211514	0.009	0.111	-0.1031716	-0.0202581
Richness	LSTb	0.0011709	0.0043269	0.790	0.853	-0.0073098	0.0096516
Richness	LSTc	0.0016301	0.0035626	0.652	0.801	-0.0053526	0.0086128
Richness	DFLNT	-0.0008078	0.0003445	0.030	0.163	-0.0014830	-0.0001325
Richness	LNH	0.0022856	0.0026339	0.396	0.750	-0.0028768	0.0074480
Richness	DSLNT	0.0035753	0.0022952	0.136	0.458	-0.0009232	0.0080738
Richness	FLNH	-0.0000294	0.0012990	0.982	0.982	-0.0025754	0.0025166
Richness	DFLNH	-0.0010186	0.0012648	0.431	0.750	-0.0034976	0.0014604
Richness	FDSLNH	0.0001193	0.0008302	0.887	0.921	-0.0015078	0.0017464
Richness	DSLNH	-0.0017449	0.0025378	0.500	0.750	-0.0067189	0.0032291
Richness	Delivery mode: emergency caesarean	56.8358232	147.5228361	0.704	0.813	-232.30893556	345.98058196
Richness	Delivery mode: planned caesarean	-223.7984762	95.5583497	0.030	0.163	-411.09284161	-36.50411079
Richness	First week pacifier: yes	-59.3743709	103.7236100	0.574	0.775	-262.67264650	143.92390470
Richness	Siblings: yes	75.7479402	94.3810215	0.432	0.750	-109.23886194	260.73474234

Richness	Pre-pregnancy BMI: high and obese	-183.0882376	92.0033291	0.061	0.275	-363.41476264	-2.76171256
Streptococcus mitis	2'FL	0.0000006	0.0000017	0.733	0.992	-0.00000273	0.00000393
Streptococcus mitis	3FL	-0.0000031	0.0000042	0.473	0.992	-0.00001133	0.00000513
Streptococcus mitis	DFLac	-0.0000070	0.0000070	0.325	0.992	-0.00002072	0.00000672
Streptococcus mitis	3'SL	-0.0000024	0.0000175	0.891	0.992	-0.00003670	0.00003190
Streptococcus mitis	6'SL	-0.0000098	0.0000197	0.624	0.992	-0.00004841	0.00002881
Streptococcus mitis	LNT	0.0000040	0.0000085	0.643	0.992	-0.00001266	0.00002066
Streptococcus mitis	LNnT	-0.0000341	0.0000257	0.201	0.992	-0.00008447	0.00001627
Streptococcus mitis	LNFPI	-0.0000091	0.0000077	0.250	0.992	-0.00002419	0.00000599
Streptococcus mitis	LNFPII	0.0000001	0.0000096	0.992	0.992	-0.00001872	0.00001892
Streptococcus mitis	LNFPIII	0.0002270	0.0003095	0.472	0.992	-0.00037962	0.00083362
Streptococcus mitis	LSTb	-0.0000098	0.0000633	0.879	0.992	-0.00013387	0.00011427
Streptococcus mitis	LSTc	0.0000253	0.0000521	0.633	0.992	-0.00007682	0.00012742
Streptococcus mitis	DFLNT	0.0000037	0.0000050	0.470	0.992	-0.00000610	0.00001350
Streptococcus mitis	LNH	0.0000354	0.0000385	0.370	0.992	-0.00004006	0.00011086
Streptococcus mitis	DSLNT	-0.0000049	0.0000336	0.885	0.992	-0.00007076	0.00006096
Streptococcus mitis	FLNH	-0.0000113	0.0000190	0.558	0.992	-0.00004854	0.00002594

Streptococcus mitis	DFLNH	0.0000119	0.0000185	0.529	0.992	-0.0000243 6	0.0000481 6
Streptococcus mitis	FDSLNH	-0.0000004	0.0000121	0.975	0.992	-0.0000241 2	0.0000233 2
Streptococcus mitis	DSLNH	0.0000057	0.0000371	0.879	0.992	-0.0000670 2	0.0000784 2
Streptococcus mitis	Delivery mode: emergency caesarean	0.4618240	2.1585901	0.833	0.992	-3.7690126 0	4.6926606 0
Streptococcus mitis	Delivery mode: planned caesarean	1.4569592	1.3982331	0.310	0.992	-1.2835776 8	4.1974960 8
Streptococcus mitis	First week pacifier: yes	0.9124025	1.5177092	0.555	0.992	-2.0623075 3	3.8871125 3
Streptococcus mitis	Siblings: yes	-0.2216284	1.3810061	0.874	0.992	-2.9284003 6	2.4851435 6
Streptococcus mitis	Pre-pregnancy BMI: high and obese	-0.1287052	1.3462152	0.925	0.992	-2.7672869 9	2.5098765 9
Gemella haemolysans	2’FL	0.0000013	0.0000020	0.518	0.986	-0.0000026 2	0.0000052 2
Gemella haemolysans	3FL	-0.0000080	0.0000048	0.109	0.733	-0.0000174 1	0.0000014 1
Gemella haemolysans	DFLac	0.0000089	0.0000079	0.271	0.733	-0.0000065 8	0.0000243 8
Gemella haemolysans	3’SL	-0.0000107	0.0000199	0.598	0.986	-0.0000497 0	0.0000283 0
Gemella haemolysans	6’SL	-0.0000002	0.0000224	0.994	0.994	-0.0000441 0	0.0000437 0
Gemella haemolysans	LNT	-0.0000035	0.0000097	0.720	0.986	-0.0000225 1	0.0000155 1
Gemella haemolysans	LNnT	-0.0000102	0.0000292	0.731	0.986	-0.0000674 3	0.0000470 3
Gemella haemolysans	LNFPI	-0.0000022	0.0000087	0.805	0.988	-0.0000192 5	0.0000148 5

Gemella haemolysans	LNFPII	0.0000219	0.0000109	0.058	0.733	0.0000054	0.0000432 6
Gemella haemolysans	LNFPIII	0.0000585	0.0003512	0.870	0.994	-0.0006298 5	0.0007468 5
Gemella haemolysans	LSTb	-0.0000062	0.0000718	0.932	0.994	-0.0001469 3	0.0001345 3
Gemella haemolysans	LSTc	-0.0000232	0.0000592	0.699	0.986	-0.0001392 3	0.0000928 3
Gemella haemolysans	DFLNT	-0.0000059	0.0000057	0.316	0.776	-0.0000170 7	0.0000052 7
Gemella haemolysans	LNH	0.0000333	0.0000437	0.456	0.946	-0.0000523 5	0.0001189 5
Gemella haemolysans	DSLNT	-0.0000518	0.0000381	0.190	0.733	-0.0001264 8	0.0000228 8
Gemella haemolysans	FLNH	0.0000091	0.0000216	0.679	0.986	-0.0000332 4	0.0000514 4
Gemella haemolysans	DFLNH	-0.0000256	0.0000210	0.239	0.733	-0.0000667 6	0.0000155 6
Gemella haemolysans	FDSLNH	-0.0000182	0.0000138	0.202	0.733	-0.0000452 5	0.0000088 5
Gemella haemolysans	DSLNH	0.0000202	0.0000421	0.637	0.986	-0.0000623 2	0.0001027 2
Gemella haemolysans	Delivery mode: emergency caesarean	2.2139593	2.4494237	0.377	0.849	-2.5869111 5	7.0148297 5
Gemella haemolysans	Delivery mode: planned caesarean	-0.0441944	1.5866214	0.978	0.994	-3.1539723 4	3.0655835 4
Gemella haemolysans	First week pacifier: yes	0.4665009	1.7221949	0.789	0.988	-2.9090011 0	3.8420029 0
Gemella haemolysans	Siblings: yes	2.5431137	1.5670734	0.121	0.733	-0.5283501 6	5.6145775 6
Gemella haemolysans	Pre-pregnancy BMI: high and obese	0.0248537	1.5275949	0.987	0.994	-2.9692323 0	3.0189397 0

Rothia mucilaginosa	2'FL	0.0000013	0.0000021	0.557	0.716	-0.0000028	0.0000542
Rothia mucilaginosa	3FL	-0.0000048	0.0000050	0.349	0.595	-0.0000146	0.0000500
Rothia mucilaginosa	DFLac	-0.0000115	0.0000084	0.184	0.451	-0.0000279	0.0000496
Rothia mucilaginosa	3'SL	-0.0000271	0.0000211	0.214	0.482	-0.0000684	0.0000142
Rothia mucilaginosa	6'SL	0.0000081	0.0000237	0.737	0.865	-0.0000383	0.0000545
Rothia mucilaginosa	LNT	-0.0000147	0.0000102	0.166	0.451	-0.0000346	0.0000529
Rothia mucilaginosa	LNnT	-0.0000059	0.0000310	0.852	0.932	-0.0000666	0.0000548
Rothia mucilaginosa	LNFPI	-0.0000214	0.0000092	0.032	0.285	-0.0000394	-0.0000033
Rothia mucilaginosa	LNFPII	-0.0000096	0.0000115	0.413	0.656	-0.0000321	0.0000129
Rothia mucilaginosa	LNFPIII	0.0006052	0.0003724	0.121	0.451	-0.0001247	0.0013351
Rothia mucilaginosa	LSTb	0.0001980	0.0000762	0.018	0.238	0.0000486	0.0003473
Rothia mucilaginosa	LSTc	0.0000214	0.0000627	0.736	0.865	-0.0001014	0.0001442
Rothia mucilaginosa	DFLNT	0.0000122	0.0000061	0.059	0.364	0.0000002	0.0000241
Rothia mucilaginosa	LNH	-0.0000657	0.0000464	0.173	0.451	-0.0001566	0.0000252
Rothia mucilaginosa	DSLNT	-0.0000385	0.0000404	0.353	0.595	-0.0001176	0.0000406
Rothia mucilaginosa	FLNH	-0.0000016	0.0000229	0.945	0.945	-0.0000464	0.0000432
Rothia mucilaginosa	DFLNH	0.0000274	0.0000223	0.233	0.484	-0.0000163	0.0000711
Rothia mucilaginosa	FDSLNH	0.0000216	0.0000146	0.156	0.451	-0.0000070	0.0000502

Rothia mucilaginosa	DSLNH	-0.0000078	0.0000447	0.863	0.932	-0.0000954 1	0.0000798 1
Rothia mucilaginosa	Delivery mode: emergency caesarean	-1.6300222	2.5972424	0.538	0.716	-6.7206173 0	3.4605729 0
Rothia mucilaginosa	Delivery mode: planned caesarean	3.2628537	1.6823714	0.067	0.364	-0.0345942 4	6.5603016 4
Rothia mucilaginosa	First week pacifier: yes	1.1920109	1.8261265	0.522	0.716	-2.3871970 4	4.7712188 4
Rothia mucilaginosa	Siblings: yes	0.1863282	1.6616437	0.912	0.945	-3.0704934 5	3.4431498 5
Rothia mucilaginosa	Pre-pregnancy BMI: high and obese	2.2538850	1.6197828	0.180	0.451	-0.9208892 9	5.4286592 9
Streptococcus salivarius group 1	2'FL	0.0000007	0.0000029	0.824	0.963	-0.0000049 8	0.0000063 8
Streptococcus salivarius group 1	3FL	0.0000120	0.0000070	0.104	0.563	-0.0000017 2	0.0000257 2
Streptococcus salivarius group 1	DFLac	-0.0000049	0.0000117	0.676	0.963	-0.0000278 3	0.0000180 3
Streptococcus salivarius group 1	3'SL	-0.0000461	0.0000293	0.132	0.596	-0.0001035 3	0.0000113 3
Streptococcus salivarius group 1	6'SL	-0.0000298	0.0000331	0.379	0.929	-0.0000946 8	0.0000350 8
Streptococcus salivarius group 1	LNT	-0.0000046	0.0000143	0.749	0.963	-0.0000326 3	0.0000234 3
Streptococcus salivarius group 1	LNnT	0.0000757	0.0000431	0.095	0.563	-0.0000087 8	0.0001601 8

Streptococcus salivarius group 1	LNFPI	0.0000119	0.0000129	0.366	0.929	-0.0000138	0.0000378
Streptococcus salivarius group 1	LNFPII	0.0000012	0.0000160	0.943	0.963	-0.0000306	0.0000326
Streptococcus salivarius group 1	LNFPIII	-0.0005037	0.0005189	0.344	0.929	-0.0015207	0.0005134
Streptococcus salivarius group 1	LSTb	0.0000287	0.0001061	0.789	0.963	-0.0001792	0.0002366
Streptococcus salivarius group 1	LSTc	0.0000042	0.0000874	0.963	0.963	-0.0001671	0.0001755
Streptococcus salivarius group 1	DFLNT	0.0000015	0.0000085	0.865	0.963	-0.0000151	0.0000181
Streptococcus salivarius group 1	LNH	-0.0001810	0.0000646	0.011	0.307	-0.0003076	-0.0000543
Streptococcus salivarius group 1	DSLNT	-0.0000333	0.0000563	0.561	0.963	-0.0001436	0.0000770
Streptococcus salivarius group 1	FLNH	0.0000608	0.0000319	0.072	0.563	-0.0000017	0.0001233
Streptococcus salivarius group 1	DFLNH	-0.0000216	0.0000310	0.495	0.963	-0.0000823	0.0000391
Streptococcus salivarius group 1	FDSLNH	-0.0000212	0.0000204	0.312	0.929	-0.0000611	0.0000187
Streptococcus salivarius group 1	DSLNH	0.0000446	0.0000623	0.482	0.963	-0.0000775	0.0001667
Streptococcus salivarius group 1	Delivery mode: emergency caesarean	1.5546627	3.6188724	0.672	0.963	-5.5383272	8.6476526

Streptococcus salivarius group 1	Delivery mode: planned caesarean	0.2098152	2.3441352	0.930	0.963	-4.3846897	4.8043201
Streptococcus salivarius group 1	First week pacifier: yes	-0.3267557	2.5444366	0.899	0.963	-5.3138514	4.6603400
Streptococcus salivarius group 1	Siblings: yes	-1.3461600	2.3152542	0.568	0.963	-5.8840582	3.1917382
Streptococcus salivarius group 1	Pre-pregnancy BMI: high and obese	-2.7495370	2.2569272	0.238	0.918	-7.1731143	1.6740403
Veillonella sp.	2'FL	-0.0000014	0.0000036	0.702	0.907	-0.0000084	0.0000056
Veillonella sp.	3FL	-0.0000128	0.0000088	0.160	0.907	-0.0000300	0.0000045
Veillonella sp.	DFLac	-0.0000049	0.0000145	0.739	0.907	-0.0000333	0.0000235
Veillonella sp.	3'SL	-0.0000035	0.0000366	0.924	0.998	-0.0000752	0.0000682
Veillonella sp.	6'SL	-0.0000313	0.0000412	0.458	0.907	-0.0001120	0.0000494
Veillonella sp.	LNT	-0.0000162	0.0000178	0.373	0.907	-0.0000510	0.0000186
Veillonella sp.	LNnT	-0.0001099	0.0000538	0.055	0.745	-0.0002153	-0.0000045
Veillonella sp.	LNFPI	0.0000040	0.0000161	0.804	0.944	-0.0000275	0.0000355
Veillonella sp.	LNFPII	0.0000200	0.0000200	0.331	0.907	-0.0000192	0.0000592
Veillonella sp.	LNFPIII	0.0006128	0.0006469	0.355	0.907	-0.0006551	0.0018807
Veillonella sp.	LSTb	0.0000460	0.0001323	0.732	0.907	-0.0002133	0.0003053
Veillonella sp.	LSTc	0.0000524	0.0001090	0.636	0.907	-0.0001612	0.0002660

Veillonella sp.	DFLNT	0.0000052	0.0000105	0.628	0.907	-0.00001538	0.00002578
Veillonella sp.	LNH	0.0001201	0.0000806	0.152	0.907	-0.00003788	0.00027808
Veillonella sp.	DSLNT	-0.0000519	0.0000702	0.468	0.907	-0.00018949	0.00008569
Veillonella sp.	FLNH	-0.0000009	0.0000397	0.982	0.999	-0.00007871	0.00007691
Veillonella sp.	DFLNH	0.0000000	0.0000387	0.999	0.999	-0.00007585	0.00007585
Veillonella sp.	FDSLNH	-0.0000044	0.0000254	0.865	0.973	-0.00005418	0.00004538
Veillonella sp.	DSLNH	0.0000369	0.0000776	0.640	0.907	-0.00011520	0.00018900
Veillonella sp.	Delivery mode: emergency caesarean	-2.1485700	4.5120259	0.639	0.907	-10.99214076	6.69500076
Veillonella sp.	Delivery mode: planned caesarean	2.4290515	2.9226780	0.416	0.907	-3.2993973 8	8.15750038
Veillonella sp.	First week pacifier: yes	-4.0210556	3.1724147	0.220	0.907	-10.23898841	2.19687721
Veillonella sp.	Siblings: yes	0.9770955	2.8866691	0.739	0.907	-4.68077594	6.63496694
Veillonella sp.	Pre-pregnancy BMI: high and obese	-1.7256989	2.8139468	0.547	0.907	-7.24103463	3.78963683
Neisseria subflava	2’FL	-0.0000004	0.0000014	0.772	0.802	-0.00000314	0.00000234
Neisseria subflava	3FL	-0.0000089	0.0000033	0.015	0.131	-0.00001537	-0.00000243
Neisseria subflava	DFLac	0.0000033	0.0000055	0.558	0.675	-0.00000748	0.00001408
Neisseria subflava	3’SL	0.0000258	0.0000138	0.077	0.260	-0.00000125	0.00005285

Neisseria subflava	6'SL	-0.0000250	0.0000156	0.124	0.305	-0.0000558	0.0000558
Neisseria subflava	LNT	-0.0000153	0.0000067	0.035	0.187	-0.0000284 3	-0.0000021 7
Neisseria subflava	LNnT	-0.0000462	0.0000203	0.035	0.187	-0.0000859 9	-0.0000064 1
Neisseria subflava	LNFPI	0.0000048	0.0000061	0.434	0.616	-0.0000071 6	0.0000167 6
Neisseria subflava	LNFPII	0.000030	0.0000076	0.002	**0.025**	0.0000051 0	0.0000349 0
Neisseria subflava	LNFPIII	-0.0000588	0.0002441	0.812	0.812	-0.0005372 4	0.0004196 4
Neisseria subflava	LSTb	0.0000439	0.0000499	0.391	0.586	-0.0000539 0	0.0001417 0
Neisseria subflava	LSTc	-0.0000574	0.0000411	0.179	0.322	-0.0001379 6	0.0000231 6
Neisseria subflava	DFLNT	0.0000027	0.0000040	0.506	0.650	-0.0000051 4	0.0000105 4
Neisseria subflava	LNH	0.0000546	0.0000304	0.088	0.260	-0.0000049 8	0.0001141 8
Neisseria subflava	DSLNT	-0.0000381	0.0000265	0.166	0.321	-0.0000900 4	0.0000138 4
Neisseria subflava	FLNH	0.0000274	0.0000150	0.083	0.260	-0.0000020 0	0.0000568 0
Neisseria subflava	DFLNH	-0.0000173	0.0000146	0.250	0.397	-0.0000459 2	0.0000113 2
Neisseria subflava	FDSLNH	-0.0000168	0.0000096	0.096	0.260	-0.0000356 2	0.0000020 2
Neisseria subflava	DSLNH	0.0000361	0.0000293	0.233	0.393	-0.0000213 3	0.0000935 3
Neisseria subflava	Delivery mode: emergency caesarean	0.7615988	1.7027106	0.660	0.742	-2.57571398	4.09891158
Neisseria subflava	Delivery mode: planned caesarean	4.0637724	1.1029358	0.002	**0.025**	1.9020182 3	6.2255265 7

Neisseria subflava	First week pacifier: yes	-1.7462570	1.1971793	0.161	0.321	-4.0927284	0.6002144 3
Neisseria subflava	Siblings: yes	0.8085570	1.0893470	0.467	0.630	-1.3265631 2	2.9436771 2
Neisseria subflava	Pre-pregnancy BMI: high and obese	-2.1463525	1.0619037	0.058	0.259	-4.2276837 5	-0.0650212 5
Streptococcus oralis	2'FL	-0.0000015	0.0000031	0.629	0.898	-0.0000075 8	0.0000045 8
Streptococcus oralis	3FL	-0.0000121	0.0000074	0.120	0.840	-0.0000266 0	0.0000024 0
Streptococcus oralis	DFLac	-0.0000090	0.0000123	0.471	0.898	-0.0000331 1	0.0000151 1
Streptococcus oralis	3'SL	-0.0000142	0.0000310	0.652	0.898	-0.0000749 6	0.0000465 6
Streptococcus oralis	6'SL	0.0000069	0.0000349	0.846	0.898	-0.0000615 0	0.0000753 0
Streptococcus oralis	LNT	-0.0000159	0.0000151	0.306	0.840	-0.0000455 0	0.0000137 0
Streptococcus oralis	LNnT	-0.0000529	0.0000455	0.260	0.840	-0.0001420 8	0.0000362 8
Streptococcus oralis	LNFPI	-0.0000069	0.0000136	0.620	0.898	-0.0000335 6	0.0000197 6
Streptococcus oralis	LNFPII	0.0000022	0.0000169	0.898	0.898	-0.0000309 2	0.0000353 2
Streptococcus oralis	LNFPIII	0.0005992	0.0005475	0.287	0.840	-0.0004739 0	0.0016723 0
Streptococcus oralis	LSTb	0.0001042	0.0001120	0.364	0.840	-0.0001153 2	0.0003237 2
Streptococcus oralis	LSTc	-0.0000306	0.0000922	0.744	0.898	-0.0002113 1	0.0001501 1
Streptococcus oralis	DFLNT	0.0000139	0.0000089	0.134	0.840	-0.0000035 4	0.0000313 4
Streptococcus oralis	LNH	0.0000622	0.0000682	0.373	0.840	-0.0000714 7	0.0001958 7

Streptococcus oralis	DSLNT	-0.0000294	0.0000594	0.626	0.898	-0.0001458 2	0.0000870 2
Streptococcus oralis	FLNH	-0.0000343	0.0000336	0.320	0.840	-0.0001001 6	0.0000315 6
Streptococcus oralis	DFLNH	0.0000346	0.0000327	0.304	0.840	-0.0000294 9	0.0000986 9
Streptococcus oralis	FDSLNH	0.0000263	0.0000215	0.236	0.840	-0.0000158 4	0.0000684 4
Streptococcus oralis	DSLNH	0.0000093	0.0000657	0.889	0.898	-0.0001194 7	0.0001380 7
Streptococcus oralis	Delivery mode: emergency caesarean	-2.3290833	3.8182682	0.549	0.898	-9.8128889 7	5.1547223 7
Streptococcus oralis	Delivery mode: planned caesarean	3.0746088	2.4732944	0.229	0.840	-1.7730482 2	7.9222658 2
Streptococcus oralis	First week pacifier: yes	-0.6079735	2.6846323	0.823	0.898	-5.8698528 1	4.6539058 1
Streptococcus oralis	Siblings: yes	-1.0420443	2.4428222	0.674	0.898	-5.8299758 1	3.7458872 1
Streptococcus oralis	Pre-pregnancy BMI: high and obese	-1.1145456	2.3812814	0.645	0.898	-5.7818571 4	3.5527659 4
Haemophilus haemolyticus	2’FL	-0.0000007	0.0000026	0.777	0.792	-0.0000058 0	0.0000044 0
Haemophilus haemolyticus	3FL	-0.0000069	0.0000063	0.283	0.551	-0.0000192 5	0.0000054 5
Haemophilus haemolyticus	DFLac	0.0000136	0.0000104	0.206	0.551	-0.0000067 8	0.0000339 8
Haemophilus haemolyticus	3’SL	0.0000229	0.0000262	0.393	0.589	-0.0000284 5	0.0000742 5

Haemophilus haemolyticus	6'SL	0.0000230	0.0000295	0.444	0.631	-0.0000348 2	0.0000808 2
Haemophilus haemolyticus	LNT	-0.0000145	0.0000127	0.267	0.551	-0.0000393 9	0.0000103 9
Haemophilus haemolyticus	LNnT	0.0000125	0.0000384	0.748	0.792	-0.0000627 6	0.0000877 6
Haemophilus haemolyticus	LNFPI	-0.0000043	0.0000115	0.713	0.792	-0.0000268 4	0.0000182 4
Haemophilus haemolyticus	LNFPII	0.0000192	0.0000143	0.195	0.551	-0.0000088 3	0.0000472 3
Haemophilus haemolyticus	LNFPIII	0.0006742	0.0004624	0.161	0.551	-0.0002321 0	0.0015805 0
Haemophilus haemolyticus	LSTb	0.0000900	0.0000946	0.353	0.589	-0.0000954 2	0.0002754 2
Haemophilus haemolyticus	LSTc	-0.0000353	0.0000779	0.655	0.792	-0.0001879 8	0.0001173 8
Haemophilus haemolyticus	DFLNT	-0.0000095	0.0000075	0.223	0.551	-0.0000242 0	0.0000052 0
Haemophilus haemolyticus	LNH	0.0000154	0.0000576	0.792	0.792	-0.0000975 0	0.0001283 0
Haemophilus haemolyticus	DSLNT	-0.0001009	0.0000502	0.059	0.551	-0.0001992 9	-0.0000025 1
Haemophilus haemolyticus	FLNH	0.0000103	0.0000284	0.720	0.792	-0.0000453 6	0.0000659 6
Haemophilus haemolyticus	DFLNH	-0.0000291	0.0000276	0.305	0.551	-0.0000832 0	0.0000250 0

Haemophilus haemolyticus	FDSLNH	-0.0000210	0.0000181	0.261	0.551	-0.0000564	0.0000144
Haemophilus haemolyticus	DSLNH	0.0000491	0.0000555	0.387	0.589	-0.0000596	0.0001578
Haemophilus haemolyticus	Delivery mode: emergency caesarean	3.3913087	3.2250333	0.306	0.551	-2.9297565	9.7123739
Haemophilus haemolyticus	Delivery mode: planned caesarean	-3.1313643	2.0890248	0.150	0.551	-7.2258529	0.9631243
Haemophilus haemolyticus	First week pacifier: yes	3.7210598	2.2675275	0.117	0.551	-0.7232941	8.1654137
Haemophilus haemolyticus	Siblings: yes	2.6991674	2.0632869	0.206	0.551	-1.3448749	6.7432097
Haemophilus haemolyticus	Pre-pregnancy BMI: high and obese	0.8553402	2.0113076	0.675	0.792	-3.0868227	4.7975031
Haemophilus haemolyticus	Pre-pregnancy BMI: high and obese	1.0576293	1.9618060	0.596	0.792	-2.7875104	4.9027690
Veillonella nakazawae	2’FL	0.0000032	0.0000023	0.194	0.309	-0.0000131	0.0000077
Veillonella nakazawae	3FL	-0.0000090	0.0000056	0.126	0.309	-0.0000199	0.0000019
Veillonella nakazawae	DFLac	-0.0000056	0.0000093	0.553	0.622	-0.0000238	0.0000126
Veillonella nakazawae	3’SL	0.0000162	0.0000235	0.500	0.622	-0.0000298	0.0000622
Veillonella nakazawae	6’SL	-0.0000363	0.0000265	0.187	0.309	-0.0000882	0.0000156
Veillonella nakazawae	LNT	-0.0000197	0.0000114	0.101	0.309	-0.0000420	0.0000026

Veillonella nakazawae	LNnT	-0.0000078	0.0000346	0.825	0.857	-0.0000756 2	0.0000600 2
Veillonella nakazawae	LNFPI	0.0000150	0.0000103	0.163	0.309	-0.0000051 9	0.0000351 9
Veillonella nakazawae	LNFPII	0.0000379	0.0000129	0.008	0.225	0.0000126 2	0.0000631 8
Veillonella nakazawae	LNFPIII	-0.0009108	0.0004158	0.041	0.244	-0.0017257 7	-0.0000958 3
Veillonella nakazawae	LSTb	0.0001158	0.0000851	0.189	0.309	-0.0000510 0	0.0002826 0
Veillonella nakazawae	LSTc	-0.0000650	0.0000700	0.365	0.517	-0.0002022 0	0.0000722 0
Veillonella nakazawae	DFLNT	-0.0000010	0.0000068	0.890	0.890	-0.0000143 3	0.0000123 3
Veillonella nakazawae	LNH	-0.0000326	0.0000518	0.536	0.622	-0.0001341 3	0.0000689 3
Veillonella nakazawae	DSLNT	-0.0000470	0.0000451	0.311	0.466	-0.0001354 0	0.0000414 0
Veillonella nakazawae	FLNH	0.0000550	0.0000255	0.044	0.244	0.0000050 2	0.0001049 8
Veillonella nakazawae	DFLNH	-0.0000400	0.0000249	0.124	0.309	-0.0000888 0	0.0000088 0
Veillonella nakazawae	FDSLNH	-0.0000263	0.0000163	0.124	0.309	-0.0000582 5	0.0000056 5
Veillonella nakazawae	DSLNH	0.0000446	0.0000499	0.383	0.517	-0.0000532 0	0.0001424 0
Veillonella nakazawae	Delivery mode: emergency caesarean	4.2372626	2.8998111	0.160	0.309	-1.4463671 6	9.9208923 6
Veillonella nakazawae	Delivery mode: planned caesarean	4.0270546	1.8783612	0.045	0.244	0.3454666 5	7.7086425 5
Veillonella nakazawae	First week pacifier: yes	-3.7554864	2.0388632	0.081	0.309	-7.7516582 7	0.2406854 7
Veillonella nakazawae	Siblings: yes	-0.4788027	1.8552188	0.799	0.857	-4.1150315 5	3.1574261 5

Veillonella nakazawae	Pre-pregnancy BMI: high and obese	-2.8744364	1.8084812	0.128	0.309	-6.41905955	0.6701867 5
Staphylococcus lugdunensis	2'FL	-0.0000003	0.0000017	0.875	0.936	-0.0000036 3	0.0000030 3
Staphylococcus lugdunensis	3FL	0.0000133	0.0000041	0.004	0.111	0.0000052 6	0.0000213 4
Staphylococcus lugdunensis	DFLac	0.0000083	0.0000068	0.236	0.578	-0.0000050 3	0.0000216 3
Staphylococcus lugdunensis	3'SL	-0.0000400	0.0000170	0.030	0.231	-0.0000733 2	-0.0000066 8
Staphylococcus lugdunensis	6'SL	-0.0000147	0.0000192	0.452	0.734	-0.0000523 3	0.0000229 3
Staphylococcus lugdunensis	LNT	0.0000061	0.0000083	0.468	0.734	-0.0000101 7	0.0000223 7
Staphylococcus lugdunensis	LNnT	0.0000307	0.0000250	0.235	0.578	-0.0000183 0	0.0000797 0
Staphylococcus lugdunensis	LNFPI	0.0000137	0.0000075	0.082	0.318	-0.0000010 0	0.0000284 0
Staphylococcus lugdunensis	LNFPII	0.0000012	0.0000093	0.901	0.936	-0.0000170 3	0.0000194 3
Staphylococcus lugdunensis	LNFPIII	-0.0001613	0.0003011	0.598	0.734	-0.0007514 6	0.0004288 6
Staphylococcus lugdunensis	LSTb	-0.0001407	0.0000616	0.034	0.231	-0.0002614 4	-0.0000199 6
Staphylococcus lugdunensis	LSTc	0.0000209	0.0000507	0.684	0.783	-0.0000784 7	0.0001202 7
Staphylococcus lugdunensis	DFLNT	-0.0000068	0.0000049	0.181	0.544	-0.0000164 0	0.0000028 0
Staphylococcus lugdunensis	LNH	0.0000409	0.0000375	0.288	0.598	-0.0000326 0	0.0001144 0
Staphylococcus lugdunensis	DSLNT	0.0000198	0.0000327	0.552	0.734	-0.0000442 9	0.0000838 9
Staphylococcus lugdunensis	FLNH	0.0000103	0.0000185	0.583	0.734	-0.0000259 6	0.0000465 6

Staphylococcus lugdunensis	DFLNH	-0.0000102	0.0000180	0.576	0.734	-0.0000454 8	0.0000250 8
Staphylococcus lugdunensis	FDSLNH	-0.0000256	0.0000118	0.043	0.231	-0.0000487 3	-0.0000024 7
Staphylococcus lugdunensis	DSLNH	-0.0000240	0.0000361	0.515	0.734	-0.0000947 6	0.0000467 6
Staphylococcus lugdunensis	Delivery mode: emergency caesarean	-0.0476525	2.0998817	0.982	0.982	-4.1634206 3	4.0681156 3
Staphylococcus lugdunensis	Delivery mode: planned caesarean	-3.0665587	1.3602045	0.036	0.231	-5.7325595 2	-0.4005578 8
Staphylococcus lugdunensis	First week pacifier: yes	1.5393752	1.4764312	0.310	0.598	-1.3544299 5	4.4331803 5
Staphylococcus lugdunensis	Siblings: yes	-1.5147583	1.3434461	0.274	0.598	-4.1479126 6	1.1183960 6
Staphylococcus lugdunensis	Pre-pregnancy BMI: high and obese	-1.2635407	1.3096014	0.347	0.624	-3.8303594 4	1.3032780 4
Haemophilus parainfluenzae	2’FL	0.0000002	0.0000027	0.941	0.978	-0.0000050 9	0.0000054 9
Haemophilus parainfluenzae	3FL	-0.0000043	0.0000064	0.511	0.883	-0.0000168 4	0.0000082 4
Haemophilus parainfluenzae	DFLac	0.0000170	0.0000107	0.127	0.883	-0.0000039 7	0.0000379 7
Haemophilus parainfluenzae	3’SL	-0.0000181	0.0000269	0.508	0.883	-0.0000708 2	0.0000346 2
Haemophilus parainfluenzae	6’SL	0.0000245	0.0000303	0.429	0.883	-0.0000348 9	0.0000838 9
Haemophilus parainfluenzae	LNT	0.0000128	0.0000131	0.338	0.883	-0.0000128 8	0.0000384 8

Haemophilus parainfluenzae	LNnT	0.0000302	0.0000395	0.454	0.883	-0.0000472	0.0001076
Haemophilus parainfluenzae	LNFPI	-0.0000122	0.0000118	0.315	0.883	-0.0000353	0.0000109
Haemophilus parainfluenzae	LNFPII	-0.0000004	0.0000147	0.978	0.978	-0.0000292	0.0000284
Haemophilus parainfluenzae	LNFPIII	0.0005588	0.0004754	0.254	0.883	-0.0003729	0.0014905
Haemophilus parainfluenzae	LSTb	-0.0000227	0.0000972	0.818	0.947	-0.0002132	0.0001678
Haemophilus parainfluenzae	LSTc	0.0000157	0.0000801	0.846	0.947	-0.0001413	0.0001727
Haemophilus parainfluenzae	DFLNT	-0.0000067	0.0000077	0.394	0.883	-0.0000217	0.0000083
Haemophilus parainfluenzae	LNH	-0.0000531	0.0000592	0.381	0.883	-0.0001691	0.0000629
Haemophilus parainfluenzae	DSLNT	-0.0000305	0.0000516	0.561	0.883	-0.0001316	0.0000706
Haemophilus parainfluenzae	FLNH	-0.0000133	0.0000292	0.654	0.883	-0.0000705	0.0000439
Haemophilus parainfluenzae	DFLNH	0.0000225	0.0000284	0.439	0.883	-0.0000331	0.0000781
Haemophilus parainfluenzae	FDSLNH	0.0000062	0.0000187	0.742	0.947	-0.0000304	0.0000428
Haemophilus parainfluenzae	DSLNH	-0.0000142	0.0000570	0.806	0.947	-0.0001259	0.0000975

Haemophilus parainfluenzae	Delivery mode: emergency caesarean	-3.5942817	3.3154903	0.292	0.883	-10.09264269	2.9040792 9
Haemophilus parainfluenzae	Delivery mode: planned caesarean	1.0665284	2.1476185	0.625	0.883	-3.1428038 6	5.2758606 6
Haemophilus parainfluenzae	First week pacifier: yes	-1.1617509	2.3311280	0.624	0.883	-5.7307617 8	3.4072599 8
Haemophilus parainfluenzae	Siblings: yes	-1.0622326	2.1211588	0.622	0.883	-5.2197038 5	3.0952386 5
Haemophilus parainfluenzae	Pre-pregnancy BMI: high and obese	1.4956279	2.0677215	0.478	0.883	-2.5571062 4	5.5483620 4
Streptococcus parasanguinis	2’FL	-0.0000010	0.0000018	0.597	0.767	-0.0000045 3	0.0000025 3
Streptococcus parasanguinis	3FL	-0.0000014	0.0000044	0.758	0.890	-0.0000100 2	0.0000072 2
Streptococcus parasanguinis	DFLac	-0.0000171	0.0000073	0.030	0.090	-0.0000314 1	-0.0000027 9
Streptococcus parasanguinis	3’SL	-0.0000442	0.0000184	0.027	0.090	-0.0000802 6	-0.0000081 4
Streptococcus parasanguinis	6’SL	0.0000155	0.0000207	0.464	0.627	-0.0000250 7	0.0000560 7
Streptococcus parasanguinis	LNT	0.0000017	0.0000089	0.855	0.962	-0.0000157 4	0.0000191 4
Streptococcus parasanguinis	LNnT	-0.0000447	0.0000270	0.114	0.221	-0.0000976 2	0.0000082 2
Streptococcus parasanguinis	LNFPI	-0.0000184	0.0000081	0.034	0.093	-0.0000342 8	-0.0000025 2

Streptococcus parasanguinis	LNFPII	-0.0000147	0.0000100	0.160	0.254	-0.0000343 0	0.0000049 0
Streptococcus parasanguinis	LNFPIII	0.0004752	0.0003249	0.160	0.254	-0.0001616 0	0.0011120 0
Streptococcus parasanguinis	LSTb	0.0000093	0.0000665	0.890	0.962	-0.0001210 4	0.0001396 4
Streptococcus parasanguinis	LSTc	0.0001464	0.0000547	0.015	0.081	0.0000391 9	0.0002536 1
Streptococcus parasanguinis	DFLNT	0.0000188	0.0000053	0.002	**0.028**	0.0000084 1	0.0000291 9
Streptococcus parasanguinis	LNH	-0.0000679	0.0000405	0.110	0.221	-0.0001472 8	0.0000114 8
Streptococcus parasanguinis	DSLNT	-0.0000148	0.0000353	0.678	0.833	-0.0000839 9	0.0000543 9
Streptococcus parasanguinis	FLNH	-0.0000003	0.0000200	0.988	0.988	-0.0000395 0	0.0000389 0
Streptococcus parasanguinis	DFLNH	0.0000500	0.0000194	0.006	**0.040**	0.0000219 8	0.0000980 2
Streptococcus parasanguinis	FDSLNH	0.0000203	0.0000128	0.129	0.232	-0.0000047 9	0.0000453 9
Streptococcus parasanguinis	DSLNH	-0.0000922	0.0000390	0.029	0.090	-0.0001686 4	-0.0000157 6
Streptococcus parasanguinis	Delivery mode: emergency caesarean	-7.2978526	2.2661670	0.005	**0.041**	-11.739539 92	-2.8561652 8
Streptococcus parasanguinis	Delivery mode: planned caesarean	-1.6547183	1.4679164	0.274	0.389	-4.5318344 4	1.2223978 4

Streptococcus parasanguinis	First week pacifier: yes	4.1171748	1.5933467	0.018	0.082	0.9942152 7	7.2401343 3
Streptococcus parasanguinis	Siblings: yes	-2.7112913	1.4498309	0.077	0.189	-5.5529598 6	0.1303772 6
Streptococcus parasanguinis	Pre-pregnancy BMI: high and obese	-0.1196287	1.4133060	0.933	0.969	-2.8897084 6	2.6504510 6
Bifidobacterium longum	2'FL	-0.0000004	0.0000016	0.824	0.906	-0.0000035 4	0.0000027 4
Bifidobacterium longum	3FL	-0.0000041	0.0000037	0.286	0.455	-0.0000113 5	0.0000031 5
Bifidobacterium longum	DFLac	0.0000012	0.0000062	0.849	0.906	-0.0000109 5	0.0000133 5
Bifidobacterium longum	3'SL	0.0000536	0.0000156	0.003	0.071	0.0000230 2	0.0000841 8
Bifidobacterium longum	6'SL	-0.0000253	0.0000176	0.167	0.399	-0.0000598 0	0.0000092 0
Bifidobacterium longum	LNT	-0.0000014	0.0000076	0.853	0.906	-0.0000163 0	0.0000135 0
Bifidobacterium longum	LNnT	0.0000292	0.0000230	0.219	0.399	-0.0000158 8	0.0000742 8
Bifidobacterium longum	LNFPI	-0.0000008	0.0000069	0.906	0.906	-0.0000143 2	0.0000127 2
Bifidobacterium longum	LNFPII	0.0000039	0.0000086	0.650	0.856	-0.0000129 6	0.0000207 6
Bifidobacterium longum	LNFPIII	-0.0007846	0.0002766	0.011	0.071	-0.0013267 4	-0.0002424 6
Bifidobacterium longum	LSTb	0.0001164	0.0000566	0.054	0.241	0.0000054 6	0.0002273 4
Bifidobacterium longum	LSTc	-0.0000697	0.0000466	0.151	0.399	-0.0001610 4	0.0000216 4
Bifidobacterium longum	DFLNT	-0.0000129	0.0000045	0.010	0.071	-0.0000217 2	-0.0000040 8
Bifidobacterium longum	LNH	0.0000421	0.0000344	0.236	0.399	-0.0000253 2	0.0001095 2

Bifidobacterium longum	DSLNT	0.0000495	0.0000300	0.115	0.346	-0.0000930	0.0001083
Bifidobacterium longum	FLNH	-0.0000067	0.0000170	0.697	0.856	-0.0000402	0.0000266
Bifidobacterium longum	DFLNH	-0.0000113	0.0000165	0.501	0.751	-0.0000436	0.0000210
Bifidobacterium longum	FDSLNH	-0.0000197	0.0000109	0.086	0.330	-0.0000410	0.0000016
Bifidobacterium longum	DSLNH	0.0001030	0.0000332	0.006	0.071	0.0000379	0.0001680
Bifidobacterium longum	Delivery mode: emergency caesarean	4.5786764	1.9291254	0.028	0.153	0.7975906	8.3597618
Bifidobacterium longum	Delivery mode: planned caesarean	0.5165475	1.2495966	0.684	0.856	-1.9326618	2.9657568
Bifidobacterium longum	First week pacifier: yes	-0.8715254	1.3563720	0.528	0.751	-3.5300145	1.7869637
Bifidobacterium longum	Siblings: yes	2.1275411	1.2342009	0.101	0.341	-0.2914926	4.5465748
Bifidobacterium longum	Pre-pregnancy BMI: high and obese	-1.4983366	1.2031084	0.228	0.399	-3.8564290	0.8597558
Lactobacillus gasseri	2’FL	0.0000000	0.0000029	0.993	0.993	-0.0000058	0.0000056
Lactobacillus gasseri	3FL	0.0000069	0.0000070	0.338	0.962	-0.0000682	0.0000206
Lactobacillus gasseri	DFLac	0.0000050	0.0000116	0.672	0.962	-0.0000177	0.0000277
Lactobacillus gasseri	3’SL	0.0000054	0.0000292	0.854	0.962	-0.0000518	0.0000626
Lactobacillus gasseri	6’SL	-0.0000185	0.0000329	0.581	0.962	-0.0000829	0.0000459
Lactobacillus gasseri	LNT	-0.0000040	0.0000142	0.781	0.962	-0.0000318	0.0000238

Lactobacillus gasseri	LNnT	0.0000448	0.0000429	0.310	0.962	-0.0000392	0.0001288
Lactobacillus gasseri	LNFPI	0.0000218	0.0000128	0.106	0.962	-0.0000032	0.0000468
Lactobacillus gasseri	LNFPII	0.0000015	0.0000160	0.926	0.962	-0.0000298	0.0000328
Lactobacillus gasseri	LNFPIII	-0.0011175	0.0005164	0.043	0.962	-0.0021296	-0.0001053
Lactobacillus gasseri	LSTb	0.0000164	0.0001056	0.879	0.962	-0.0001905	0.0002233
Lactobacillus gasseri	LSTc	0.0000230	0.0000870	0.794	0.962	-0.0001475	0.0001935
Lactobacillus gasseri	DFLNT	-0.0000032	0.0000084	0.707	0.962	-0.0000196	0.0000132
Lactobacillus gasseri	LNH	-0.0000935	0.0000643	0.162	0.962	-0.0002195	0.0000325
Lactobacillus gasseri	DSLNT	0.0000332	0.0000560	0.560	0.962	-0.0000765	0.0001429
Lactobacillus gasseri	FLNH	0.0000206	0.0000317	0.523	0.962	-0.0000415	0.0000827
Lactobacillus gasseri	DFLNH	-0.0000172	0.0000309	0.584	0.962	-0.0000777	0.0000433
Lactobacillus gasseri	FDSLNH	0.0000021	0.0000203	0.920	0.962	-0.0000376	0.0000418
Lactobacillus gasseri	DSLNH	-0.0000101	0.0000620	0.872	0.962	-0.0001316	0.0001114
Lactobacillus gasseri	Delivery mode: emergency caesarean	3.8589445	3.6015373	0.297	0.962	-3.2000686	10.917957 61
Lactobacillus gasseri	Delivery mode: planned caesarean	-1.7949999	2.3329064	0.451	0.962	-6.3674964	2.7774966 4
Lactobacillus gasseri	First week pacifier: yes	-1.0129822	2.5322483	0.694	0.962	-5.9761888 7	3.9502244 7

Lactobacillus gasseri	Siblings: yes	-2.3429957	2.3041638	0.322	0.962	-6.85915675	2.17316535
Lactobacillus gasseri	Pre-pregnancy BMI: high and obese	-1.6014795	2.2461161	0.485	0.962	-6.00386706	2.80090806
Porphyromonas sp.	2'FL	-0.0000020	0.0000023	0.399	0.859	-0.0000065 1	0.0000025 1
Porphyromonas sp.	3FL	-0.0000091	0.0000055	0.112	0.756	-0.0000198 8	0.0000016 8
Porphyromonas sp.	DFLac	0.0000091	0.0000091	0.328	0.859	-0.0000087 4	0.0000269 4
Porphyromonas sp.	3'SL	-0.0000058	0.0000228	0.800	0.864	-0.0000504 9	0.0000388 9
Porphyromonas sp.	6'SL	0.0000121	0.0000257	0.644	0.859	-0.0000382 7	0.0000624 7
Porphyromonas sp.	LNT	-0.0000142	0.0000111	0.215	0.859	-0.0000359 6	0.0000075 6
Porphyromonas sp.	LNnT	-0.0000272	0.0000335	0.428	0.859	-0.0000928 6	0.0000384 6
Porphyromonas sp.	LNFPI	0.0000012	0.0000100	0.904	0.904	-0.0000184 0	0.0000208 0
Porphyromonas sp.	LNFPII	0.0000219	0.0000125	0.095	0.756	-0.0000026 0	0.0000464 0
Porphyromonas sp.	LNFPIII	0.0007304	0.0004032	0.086	0.756	-0.0000598 7	0.0015206 7
Porphyromonas sp.	LSTb	0.0000523	0.0000825	0.534	0.859	-0.0001094 0	0.0002140 0
Porphyromonas sp.	LSTc	0.0000622	0.0000679	0.371	0.859	-0.0000708 8	0.0001952 8
Porphyromonas sp.	DFLNT	0.0000024	0.0000066	0.719	0.859	-0.0000105 4	0.0000153 4
Porphyromonas sp.	LNH	-0.0000277	0.0000502	0.588	0.859	-0.0001260 9	0.0000706 9
Porphyromonas sp.	DSLNT	-0.0001011	0.0000438	0.032	0.756	-0.0001869 5	-0.0000152 5

Porphyromonas sp.	FLNH	0.0000277	0.0000248	0.278	0.859	-0.00002091	0.00007631
Porphyromonas sp.	DFLNH	-0.0000159	0.0000241	0.518	0.859	-0.00006314	0.00003134
Porphyromonas sp.	FDSLNH	-0.0000048	0.0000158	0.763	0.859	-0.00003577	0.00002617
Porphyromonas sp.	DSLNH	-0.0000154	0.0000484	0.754	0.859	-0.00011026	0.00007946
Porphyromonas sp.	Delivery mode: emergency caesarean	-3.1429849	2.8121370	0.278	0.859	-8.65477342	2.36880362
Porphyromonas sp.	Delivery mode: planned caesarean	0.5857516	1.8215700	0.751	0.859	-2.98452560	4.15602880
Porphyromonas sp.	First week pacifier: yes	-1.4801732	1.9772193	0.463	0.859	-5.35552303	2.39517663
Porphyromonas sp.	Siblings: yes	-0.9658253	1.7991273	0.598	0.859	-4.49211481	2.56046421
Porphyromonas sp.	Pre-pregnancy BMI: high and obese	-1.6135395	1.7538028	0.369	0.859	-5.05099299	1.82391399

2'-fucosyllactose (2'FL), 3'-fucosyllactose (3FL), difucosyllactose (DFLac), 3'-sialyllactose (3'SL), 6'-sialyllactose (6'SL), difucosyl-N-hexosyl (DFLNH), difucosyl-N-acetyl (DFLNT), disialyl-N-hexosyl (DSLNH), disialyl-N-acetyl (DSLNT), fucosyl-disialyl-N-hexosyl (FDSLNH), fucosyllacto-N-hexaose (FLNH), lacto-N-fucopentaose I (LNFP I), lacto-N-fucopentaose II (LNFP II), lacto-N-fucopentaose III (LNFP III), lacto-N-hexaose (LNH), lacto-N-neotetraose (LNnT), lacto-N-tetraose (LNT), lacto-N-neotriose (LSTc), lacto-N-neotriose (LSTb).