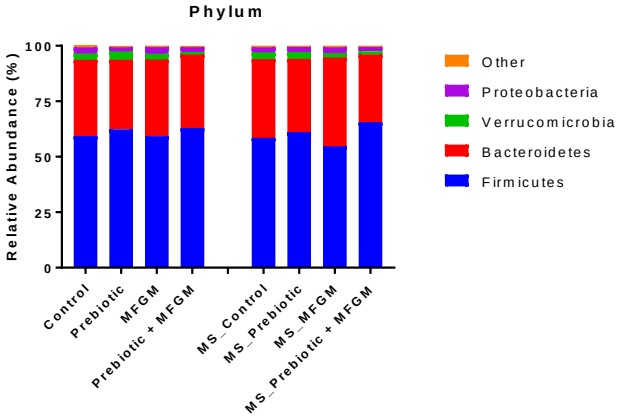
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Title	The enduring effects of early life stress on the microbiota-gut-brain axis are buffered by dietary supplementation with milk fat globule membrane and a prebiotic blend
Authors	O'Mahony, Siobhain M.;McVey Neufeld, Karen-Anne;Waworuntu, Rosaline V.;Pusceddu, Matteo M.;Manurung, Sarmauli;Murphy, Kiera;Strain, Conall R.;Laguna, Mamen C.;Peterson, Veronica L.;Stanton, Catherine;Berg, Brian M.;Dinan, Timothy G.;Cryan, John F.
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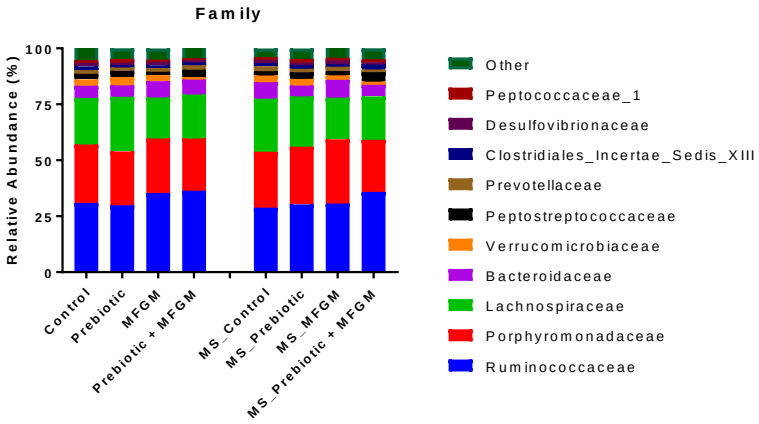
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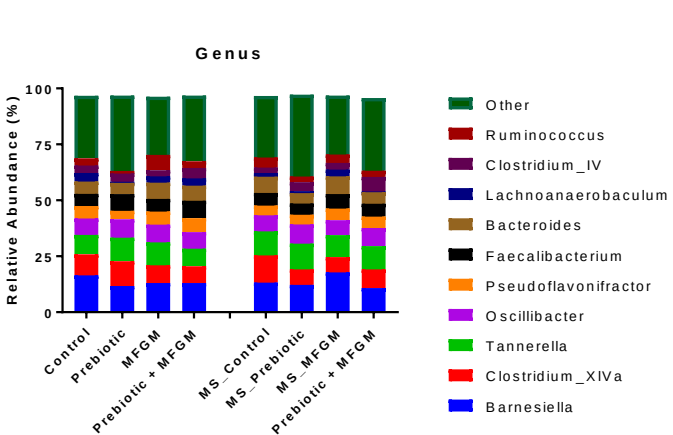
A


Phylum
Relative Abundance (%)
100
75
50
25
0
Control
Prebiotic
MFGM
Prebiotic + MFGM
MS_Control
MS_Prebiotic
MS_MFGM
MS_Prebiotic + MFGM
Other
Proteobacteria
Verrucomicrobia
Bacteroidetes
Firmicutes

B


Family
Relative Abundance (%)
100
75
50
25
0
Control
Prebiotic
MFGM
Prebiotic + MFGM
MS_Control
MS_Prebiotic
MS_MFGM
MS_Prebiotic + MFGM
Other
Peptococcaceae_1
Desulfovibrionaceae
Clostridiales_Incertae_Sedis_XIII
Prevotellaceae
Peptostreptococcaceae
Verrucomicrobiaceae
Bacteroidaceae
Lachnospiraceae
Porphyromonadaceae
Ruminococcaceae

C


Genus
Relative Abundance (%)
100
75
50
25
0
Control
Prebiotic
MFGM
Prebiotic + MFGM
MS_Control
MS_Prebiotic
MS_MFGM
Prebiotic + MFGM
Other
Ruminococcus
Clostridium_IV
Lachnoanaerobaculum
Bacteroides
Faecalibacterium
Pseudoflavonifractor
Oscillibacter
Tannerella
Clostridium_XIVa
Barnesiella

	Control	Prebiotic	MFGM	MFGM + Prebiotic
Protein, % by weight	18	18	18	18
Carbohydrate, % by weight	60	59	60	59
Fat, % by weight	7	7	7	7
Protein, % kcal from	19	19	19	19
Carbohydrate, % kcal from	64	63	64	63
Fat, % kcal from	17	17	17	17
	Control	Prebiotic	MFGM	MFGM + Prebiotic
Ingredient	g/kg	g/kg	g/kg	g/kg
Casein	200	195.81	187.04	182.85
L-cystein	3	3	3	3
Corn starh	392.374	376.774	392.464	376.909
Maltodextrin	132	132	132	132
Sucrose	100	100	100	100
Lactose, monohydrate	7.5		7.5	
Soybean oil	64.7	64.62	61.52	61.44
DHA/ARA Oil	5.3	5.3	5.3	5.3
Cellulose	50	50	50	50
Mineral Mix	13.4	13.4	13.4	13.4
Calcium Phosphate, dibasic	7.2	7.12	6.95	6.875
Vitamin Mix	15	15	15	15
Choline Bitartrate	2.5	2.5	2.5	2.5
Thiamin HCl	0.01	0.01	0.01	0.01
Vitamin K1	0.002	0.002	0.002	0.002
TBHQ, antioxidant	0.014	0.014	0.014	0.014
Galactooligosaccharides		20.86		20.86
PDX		6.44		6.44
Whey protein concentrate MFGM-10 enriched			15.9	15.9