

Supplementary Materials: Impact of Prematurity and Perinatal Antibiotics on the Developing Intestinal Microbiota: A Functional Inference Study

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Table S1. Median (Inter-quartile range) of the SCFA concentrations ($\mu\text{g/g}$ faeces) in preterm infants according to the antibiotics use group. 1, Mother no antibiotics-Infant no antibiotic; 2, Mother no antibiotics-Infant antibiotics; 3, Mother antibiotics-Infants no antibiotics; and 4, Mother antibiotics-Infants antibiotics.

SCFA	Antibiotic Use Group	Days of Life			
		2 Days	10 Days	30 Days	90 Days
Acetate	1	744.84 (734.77–928.71)	1767.49 (1505.00–5095.13)	3999.18 (3068.88–7530.40)	3663.52 (3280.00–7773.39)
	2	954.96 (867.30–1323.09)	3279.62 (1628.99–6122.98)	5310.76 (2896.19–8296.69)	5412.50 (3895.97–6993.09)
	3	768.58 (658.43–978.31)	1651.27 (1294.98–1778.98)	2459.88 (1634.87–4598.16)	2944.74 (2658.58–4475.90)
	4	878.05 (760.26–1268.58)	1455.99 (1265.50–1724.09)	2910.82 (2349.18–3659.05)	4562.06 (3505.78–5740.70)
Propionate	1	0.00 (0.00–349.07)	360.90 (351.97–664.85)	474.04 (369.71–865.15)	1252.62 (935.21–1614.96)
	2	338.02 (0.00–347.20)	430.70 (86.22–677.95)	447.63 (355.02–744.24)	592.39 (386.63–1347.23)
	3	0.00 (0.00–340.25)	345.60 (0.00–362.50)	454.81 (367.15–539.19)	675.84 (597.73–738.66)
	4	168.93 (0.00–359.52)	350.40 (338.03–364.92)	400.28 (350.70–500.68)	1008.68 (695.77–1172.52)
Butyrate	1	0.00 (0.00–0.00)	0.00 (0.00–223.58)	165.48 (0.00–399.53)	379.65 (252.13–531.67)
	2	0.00 (0.00–0.00)	0.00 (0.00–0.00)	221.64 (50.01–307.89)	265.84 (39.52–494.74)
	3	0.00 (0.00–118.56)	0.00 (0.00–0.00)	197.85 (82.92–282.42)	252.54 (91.14–380.91)
	4	0.00 (0.00–0.00)	0.00 (0.00–0.00)	0.00 (0.00–307.46)	237.66 (76.89–874.39)
Total Acids	1	744.84 (734.77–1355.08)	2123.61 (1859.35–5983.55)	4383.21 (4100.98–8260.43)	6055.75 (4958.68–9048.68)
	2	1298.35 (867.30–1667.60)	3522.67 (1981.45–6934.11)	6296.66 (3778.32–8767.26)	6223.53 (4508.90–8803.88)
	3	934.08 (658.43–1358.79)	1996.87 (1294.98–2141.48)	3161.97 (2330.86–5149.11)	4126.79 (3434.84–5381.24)
	4	1046.98 (760.26–1628.11)	1809.29 (1630.23–2074.49)	3709.85 (2697.00–4427.00)	5420.75 (4526.06–7980.49)