

Table S4. Results of one-way ANOVA (p-values) and Tukey's HSD post hoc test with 95% confidence interval (p-values adjusted) calculated in R. ^(a) compounds solely present in MM, ^(b) chemicals found in MM and bacterial supernatants with no statistically significant difference in their concentrations, and ^(c) exo-metabolites not detected in MM.

Molecules	p-values	p-values adjusted				
		MM/CFN299	MM/CIAT899	MM/CFNEI156	MM/CFN42	MM/CH24-10
Glutamate	5.48×10^{-10}	2.80×10^{-10}	4.60×10^{-06}	1.78×10^{-03}	4.26×10^{-04}	1.07×10^{-03}
Sucrose	2.04×10^{-07}	9.51×10^{-08}	1.88×10^{-06}	1.62×10^{-03}	3.82×10^{-05}	4.13×10^{-04}
3-Hydroxyisovalerate	1.77×10^{-03}	7.88×10^{-01}	9.99×10^{-01}	9.20×10^{-01}	1.58×10^{-03}	7.90×10^{-01}
2-Oxoglutarate	4.20×10^{-07}	1.45×10^{-03}	7.14×10^{-01}	1.64×10^{-02}	7.00×10^{-07}	1.54×10^{-02}
Homoserine	9.78×10^{-10}	9.15×10^{-09}	6.45×10^{-01}	2.81×10^{-01}	1.37×10^{-02}	3.83×10^{-04}
Glucose	1.79×10^{-09}	3.04×10^{-08}	1.75×10^{-07}	3.61×10^{-01}	3.04×10^{-08}	9.30×10^{-08}
Formate	8.47×10^{-04}	2.99×10^{-03}	1.30×10^{-03}	1.06×10^{-02}	5.49×10^{-01}	2.29×10^{-01}
Acetate	8.46×10^{-04}	8.49×10^{-01}	8.73×10^{-04}	1.97×10^{-01}	2.23×10^{-02}	9.89×10^{-01}
Threonine ^(a)	2.37×10^{-11}	-	-	-	-	-
Alanine ^(a)	5.87×10^{-13}	-	-	-	-	-
Valine ^(a)	3.77×10^{-10}	-	-	-	-	-
Ethanol ^(b)	1.58×10^{-01}	-	-	-	-	-
N,N-Dimethylglycine ^(b)	7.38×10^{-02}	-	-	-	-	-
Pyroglutamate ^(b)	1.44×10^{-01}	-	-	-	-	-
Trehalose ^(c)	3.90×10^{-23}	-	-	-	-	-

3-Hydroxy-3-methylglutarate ^(c)	1.16 x 10 ⁻²⁰	-	-	-	-	-
Maltose ^(c)	1.87 x 10 ⁻¹⁴	-	-	-	-	-
Malonate ^(c)	5.41 x 10 ⁻¹²	-	-	-	-	-
Glucose-1-phosphate ^(c)	3.57 x 10 ⁻¹¹	-	-	-	-	-
Aspartate ^(c)	4.69 x 10 ⁻¹¹	-	-	-	-	-
3-Methylglutarate ^(c)	4.03 x 10 ⁻⁰⁸	-	-	-	-	-
Tartrate ^(c)	3.06 x 10 ⁻⁰⁷	-	-	-	-	-
Gluconate ^(c)	5.50 x 10 ⁻⁰⁷	-	-	-	-	-
S-Adenosylhomocysteine ^(c)	9.50 x 10 ⁻⁰⁷	-	-	-	-	-
Methanol ^(c)	2.60 x 10 ⁻⁰⁶	-	-	-	-	-
3-Hydroxybutyrate ^(c)	4.38 x 10 ⁻⁰⁶	-	-	-	-	-
Ornithine ^(c)	8.97 x 10 ⁻⁰⁶	-	-	-	-	-
Methionine ^(c)	1.78 x 10 ⁻⁰⁵	-	-	-	-	-
Dimethyl sulfone ^(c)	1.97 x 10 ⁻⁰⁵	-	-	-	-	-
Caprylate ^(c)	2.39 x 10 ⁻⁰⁵	-	-	-	-	-
Acetone ^(c)	1.47 x 10 ⁻⁰³	-	-	-	-	-
Lactate ^(c)	2.13 x 10 ⁻⁰²	-	-	-	-	-
