

Table S1: Unadjusted mean cytokine levels and their 95% confidence intervals, by presence of each genus

		IL-10		IL-1β		IL-6		MCP-1		TNF-α	
		Marginal geometric mean	p	Back-transformed marginal mean	p	Marginal geometric mean	p	Marginal geometric mean	p	Marginal geometric mean	p
<i>Novosphingobium</i> sp.*	Low	6.01 (3.73, 9.67)	0.375	0.85 (0.49, 1.30)	0.688	139.20 (60.84, 318.48)	0.211	953.27 (739.17, 1229.38)	0.494	5.13 (4.04, 6.51)	0.230
	High	4.29 (2.35, 7.83)		0.73 (0.37, 1.21)		72.27 (37.94, 137.68)		861.17 (734.33, 1009.92)		3.91 (2.66, 5.75)	
<i>Sphingomonadaceae</i> _	Absent	6.35 (4.03, 10.02)	0.217	0.63 (0.37, 0.97)	0.201	124.53 (62.42, 248.47)	0.413	814.37 (673.17, 985.19)	0.145	4.74 (3.83, 5.87)	0.591
	Present	3.95 (2.12, 7.35)		1.01 (0.54, 1.63)		80.79 (35.86, 181.98)		1008.05 (808.69, 1256.56)		4.18 (2.72, 6.41)	
<i>Ralstonia</i> sp.	Absent	4.66 (2.58, 8.40)	0.597	0.68 (0.35, 1.12)	0.375	100.29 (47.90, 209.97)	1.000	877.06 (711.03, 1081.84)	0.612	4.29 (3.01, 6.11)	0.669
	Present	5.65 (3.62, 8.79)		0.94 (0.55, 1.43)		100.32 (45.74, 220.04)		945.42 (763.65, 1170.46)		4.71 (3.59, 6.18)	
<i>Sphingomonas</i> sp.	Absent	4.34 (2.78, 6.78)	0.099	0.60 (0.38, 0.86)	0.017	93.47 (49.81, 175.41)	0.608	871.62 (756.30, 1004.53)	0.464	3.94 (3.09, 5.01)	0.050
	Present	8.48 (4.35, 16.52)		1.56 (0.80, 2.56)		126.46 (45.94, 348.08)		1029.04 (665.63, 1590.86)		6.84 (4.16, 11.26)	
<i>Pelomonas</i> sp.	Absent	4.55 (3.01, 6.87)		0.84 (0.53, 1.20)		80.48 (46.44, 139.47)		895.61 (753.25, 1064.88)		4.50 (3.44, 5.90)	
	Present	10.22 (4.18, 24.98)	0.103	0.54 (0.18, 1.08)	0.304	419.75 (158.64, 1110.65)	0.005	976.96 (863.86, 1104.86)	0.409	4.18 (3.62, 4.82)	0.622

*For *Novosphingobium* sp., values lower than the median (median=0.943) were classified as low relative abundance, and values equal to or greater than the median were classified as high relative abundance.