Effects of sulfamethoxazole on growth and antibiotic resistance of a natural microbial community

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Table S1: List of primers used for ARGs quantification.

Target gene	Primer sequence (5'->3')	Annealing Temperature (°C)
*sul*1	F: CGCACCGGAAACATCGCTGCAC R: TGAAGTTCCGCCGCAAGGCTCG	60
*sul*2	F: GCGCTCAAGGCAGATGGCATT R: GCGTTTGATACCGGCACCCGT	57
*intI*1	F: TCGTGCGTCGCCATACA R: GCTTGTTCTACGGCCGTTTGA	52
16S rRNA	F: CGGTGAATACGTTCYCGG R: TACCTTGTTACGACTT	55

Table S2: MS/MS parameters used for the determination of SMX (sulfamethoxazole). RT: retention time; ESI mode means the positive (+) ionization mode; DP declustering potential; CE: collision energy.

Optimized Parameters					
RT (min)	ESI mode	Precursor Ion (m/z)	Product Ion (m/z)	DP (V)	CE (V)
			92.0		39.0
6.2	+	254.1	108.1	42	39.4
			156.0		22.8

Table S3. Tukey HSD (Tukey Honest Significant Differences) obtained from multiple pairwise-comparison between the means of groups. Significant p-values are reported in bold.

	Tukey multiple pairwise-comparisons	p-value
Genes	*sul*1-*intI*1	0.547384
	*sul*2-*intI*1	**0.0000188**
	*sul*2-*sul*1	**0.0000003**
Conditions	5 mg/L-10 mg/L	**0.0071945**
	2 mg/L-10 mg/L	0.1232277
	0.5 mg/L-10 mg/L	**0.0244142**
	0.1 mg/L-10 mg/L	0.9404487
	C-MSC-10 mg/L	0.5937748
	2 mg/L-5 mg/L	0.8964319
	0.5 mg/L-5 mg/L	0.9983857
	0.1 mg/L-5 mg/L	0.0898688
	C-MSC-5 mg/L	0.3542552
	0.5 mg/L-2 mg/L	0.9872196
	0.1 mg/L-2 mg/L	0.5802167
	C-MSC-2 mg/L	0.9347728
	0.1 mg/L-0.5 mg/L	0.2174197
	C-MSC-0.5 mg/L	0.6120992
	C-MSC-0.1 mg/L	0.9822128
Time	0 days - 7 days	**0.012531**