

Supplementary material

Table S1: Relative abundance of antibiotic resistance genes (ARG copies / 16S rRNA gene copies) in river biofilms sampled downstream of wastewater effluents ("Highly exposed") in comparison to values observed upstream of any treatment plant ("Not exposed"). Reported p-values refer to a Wilcoxon rank sum test and underwent adjustment for multiple testing. Stars indicated significance according to the usual convention.

ARG family	Mean relative abundances		adj. p-value
	Highly exposed	Not exposed	
<i>aadA</i>	2.3e-04	1.3e-05	0.00091 ***
<i>ampS</i>	3.3e-05	4.0e-05	0.41
<i>ant</i>	2.4e-04	5.3e-05	0.019 *
<i>aph</i>	1.6e-04	1.0e-04	0.019 *
<i>blaBEL</i>	2.4e-06	0.0e+00	0.23
<i>blaFOX</i>	2.4e-05	4.8e-05	0.39
<i>blaGES</i>	2.4e-05	0.0e+00	0.019 *
<i>blaIMP</i>	9.6e-05	1.0e-05	0.016 *
<i>blaOXA</i>	6.3e-04	5.7e-04	0.064
<i>blaPER</i>	0.0e+00	9.8e-06	0.96
<i>blaTEM</i>	4.4e-05	5.4e-05	0.44
<i>cfxA</i>	4.7e-06	0.0e+00	0.11
<i>cmx</i>	9.2e-05	1.4e-05	0.019 *
<i>cphA</i>	3.6e-05	8.3e-05	0.65
<i>dfrA</i>	6.5e-05	2.8e-05	0.11
<i>dfrB</i>	1.6e-04	1.6e-04	0.63
<i>erm</i>	3.1e-04	6.4e-05	0.035 *
<i>mef</i>	9.5e-05	2.7e-05	0.1
<i>mph</i>	1.4e-04	4.7e-05	0.019 *
<i>msr</i>	1.9e-04	6.9e-05	0.019 *
<i>qnrS</i>	9.2e-05	2.6e-05	0.35
<i>sul</i>	2.0e-03	3.5e-04	0.00048 ***
<i>tet</i>	4.8e-04	1.9e-04	0.019 *