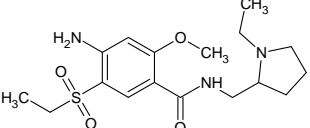
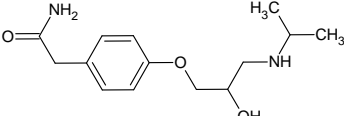
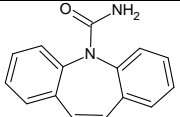
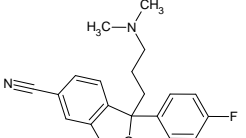
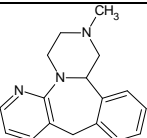
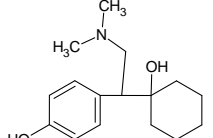
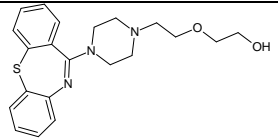
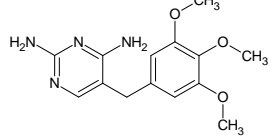
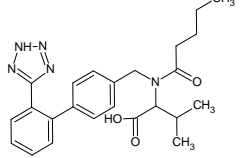
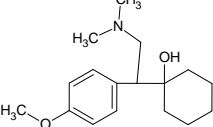


SUPPLEMENTARY INFORMATION

Table S1. Chemical structure, molecular weight, solubility in water (gL⁻¹), pKa and LogK_{ow} of pharmaceuticals detected in the WWTP secondary effluents.

Pharmaceutical	Chemical structure ^[a]	M.W.	Solubility in water (gL ⁻¹) ^[a]	pK _a ^[a]	LogK _{ow} ^[b]
Amisulpride		369.480	0.293	9.37	1.10
Atenolol		266.341	26.50	9.6	0.16
Carbamazepine		236.269	0.152	13.9 / 15.96 ^[c]	2.45
Citalopram		324.392	0.031	9.78	3.74
Mirtazapine		265.352	1.10	7.7	3.03
O-desmethyl venlafaxine		263.375	3.70	9.45 / 10.66	2.72
Quetiapine		383.507	0.5869	2.78/7.46	1.94
Trimethoprim		290.323	0.40	7.12	0.91
Valsartan		435.528	0.0014	3.6/4.73	4.00
Venlafaxine		277.401	0.267	10.09	3.28

Literature data from: [a] Data provided by PubChem; [b] Data calculated by US Environmental Protection Agency's EPISuite™, available on ChemSpider; [c] Data calculated by ChemAxon, available on ChemSpider.