

Amended Vegetation Filters as nature-based solutions for the treatment of pharmaceuticals: infiltration experiments coupled to reactive transport modelling – Supplementary Materials

A) Column WS average flow rate simulated with the single-porosity model

Figure S1 presents experimental and simulated average flow rates when a single-porosity approach is applied in Column WS.

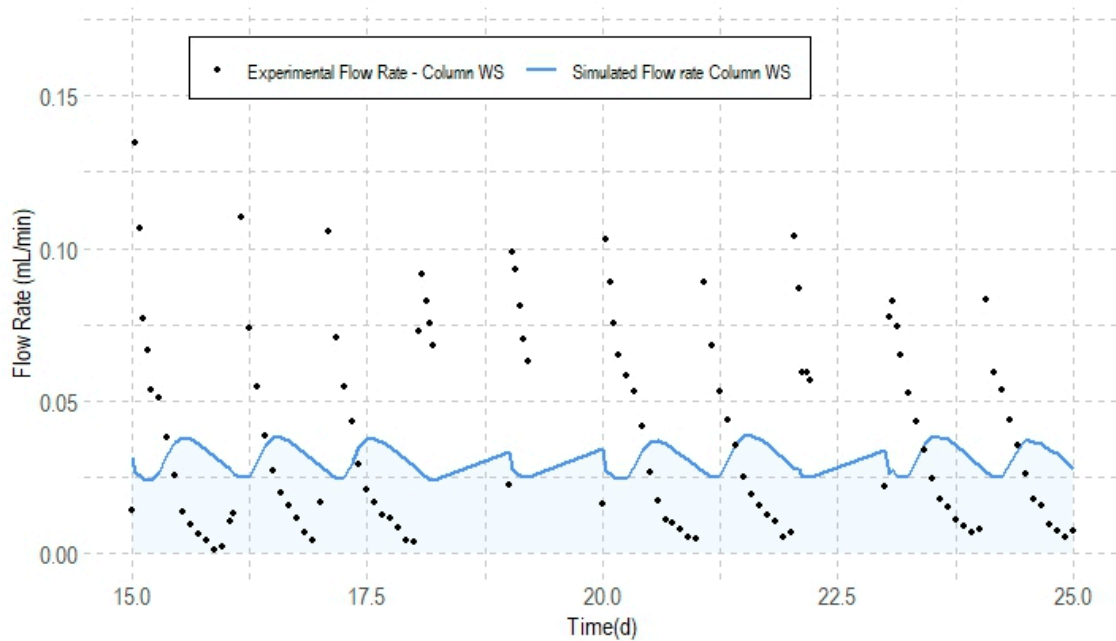
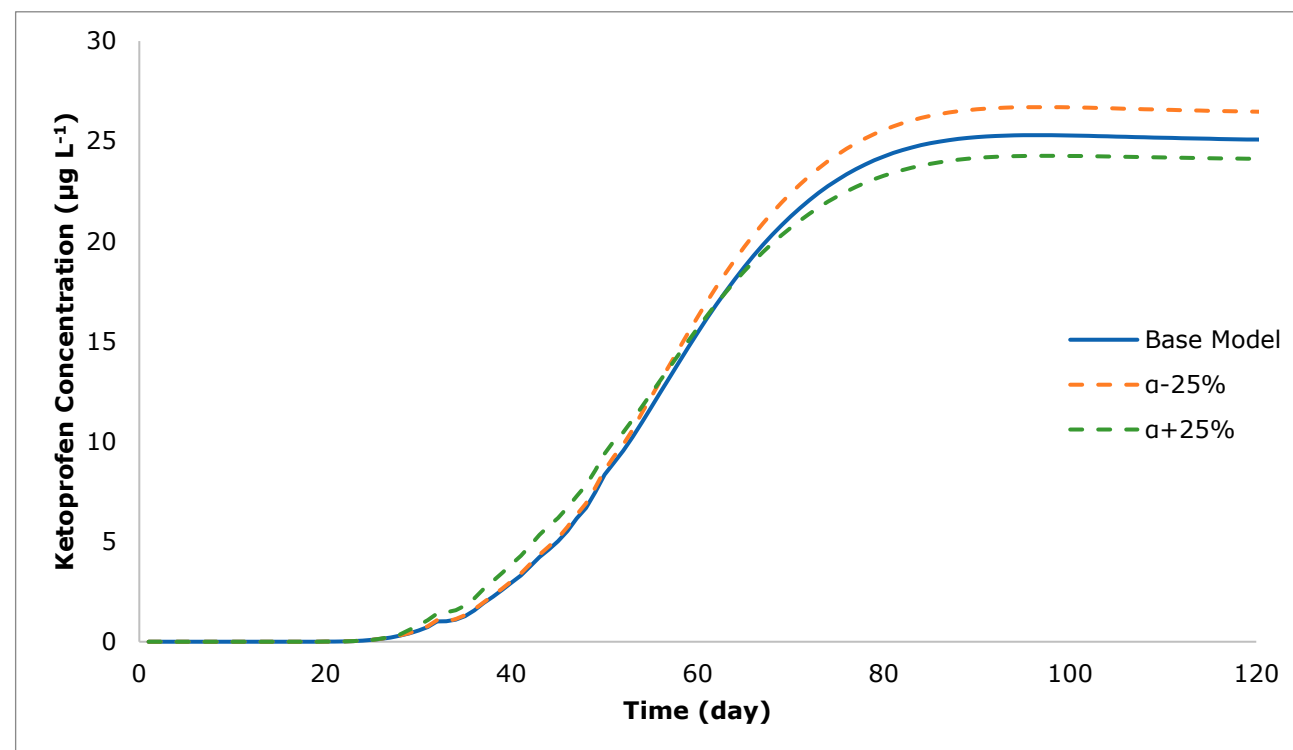


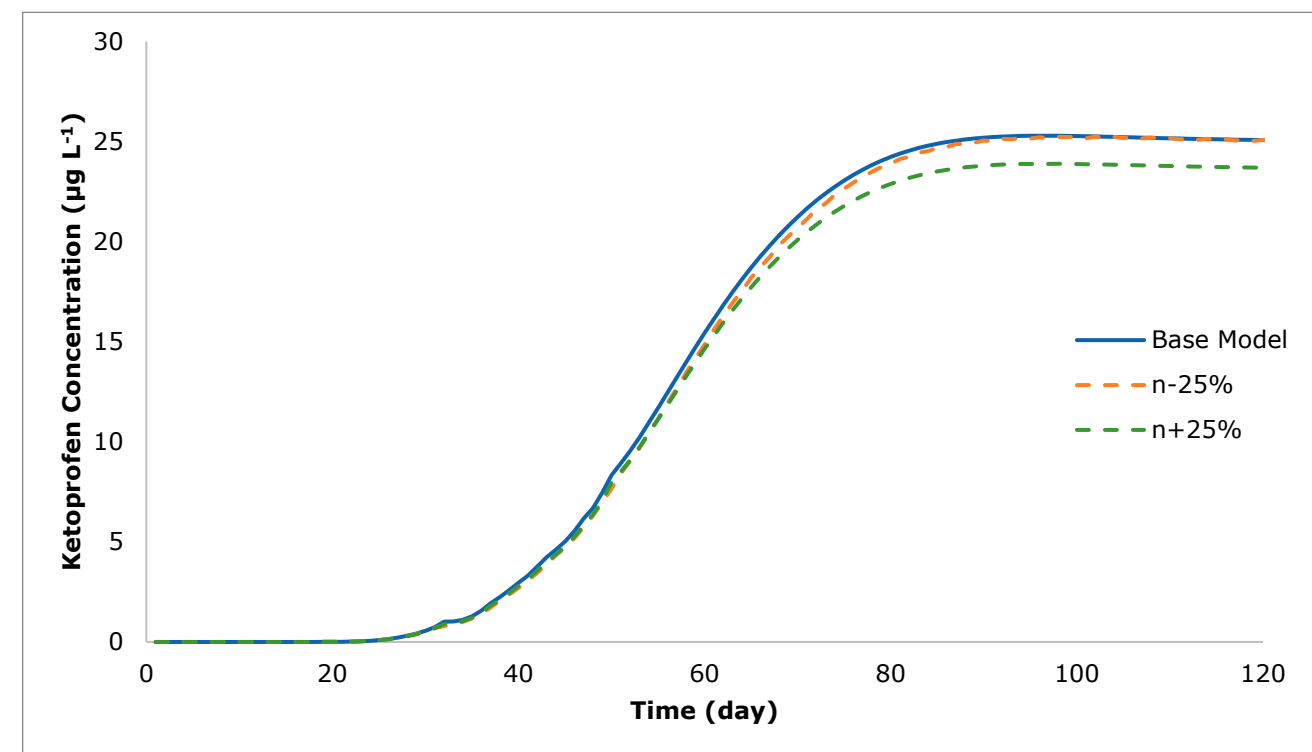
Figure S1. Experimental and corresponding simulated average outflow flow rates from Column WS applying a single-porosity model (RMSE: 0.030 mL/min).

B) Sensitivity Analysis: Effect on simulated ketoprofen breakthrough curves

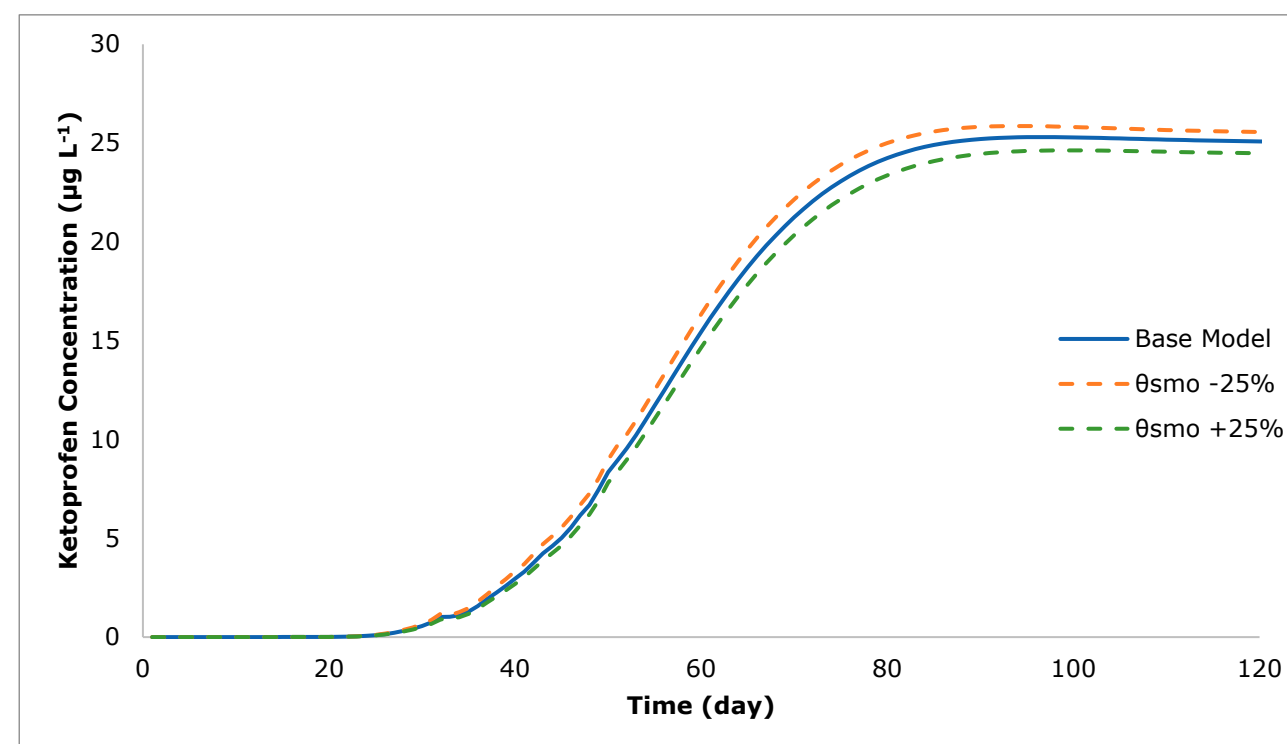
Figure S2 presents the Column WS ketoprofen breakthrough curves resulting from the base model run and from the sensitivity analysis when θ_{smo} , α and n are varied $\pm 25\%$.



(a)



(b)



(c)

Figure S2. Column WS simulated ketoprofen breakthrough curves resulting from the base model run and from the sensitivity analysis when (a) α , (b) n and (c) θ_{smo} are varied $\pm 25\%$.