

Figure S5 Sensitivity analysis. Influence of a 10% increase in the values of six different parameters on the dynamic behaviour of a) receptor occupancy in the spleen (RO_{sp}) , and b) receptor occupancy in the central lung (RO_c) was investigated. The following parameters were included in the analysis: the mucociliary clearance rate in the nose $(k_{mcc,n})$, the diffusion coefficient (D), the apparent permeability (P_{app}) , the clearance (CL), the bronchial blood flow (Q_{bronch}) and the solubility (C_s) .