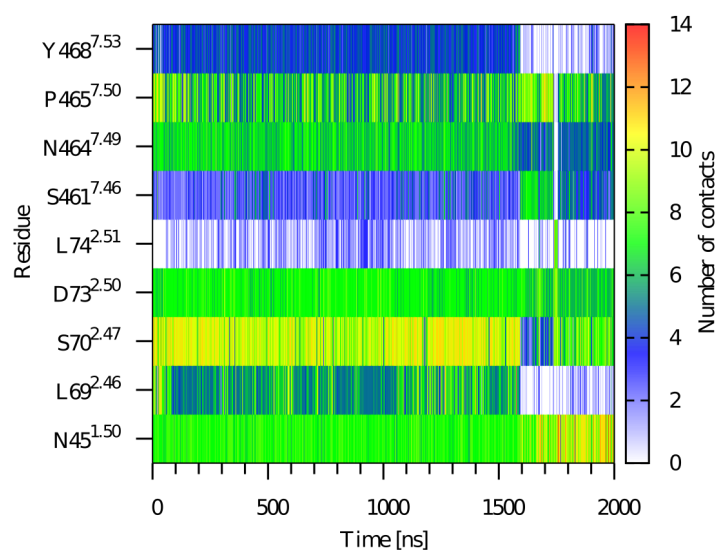


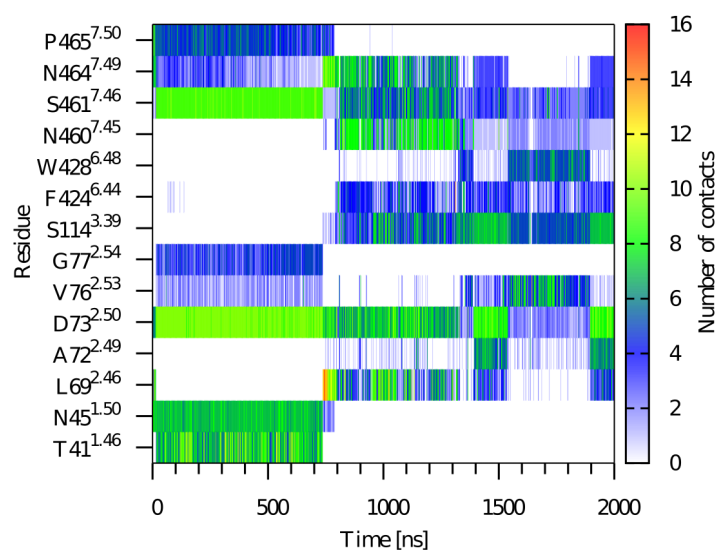
Supplementary Material: Effect of ions and sequence variants on the antagonist binding properties of the histamine H₁ receptor

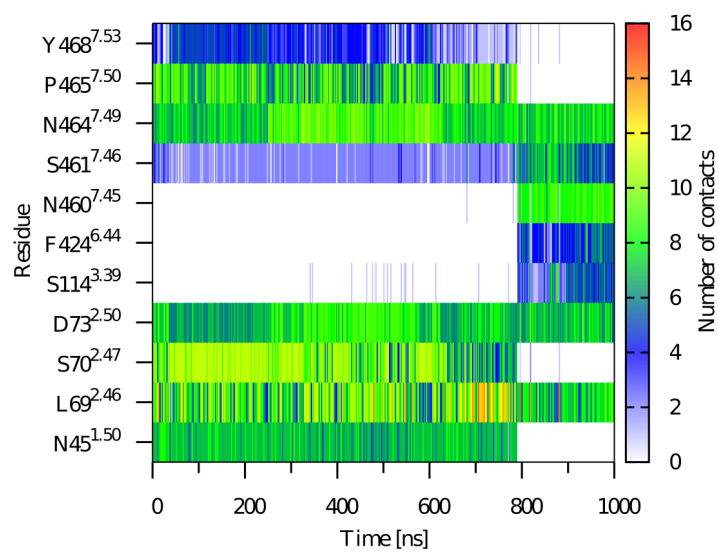
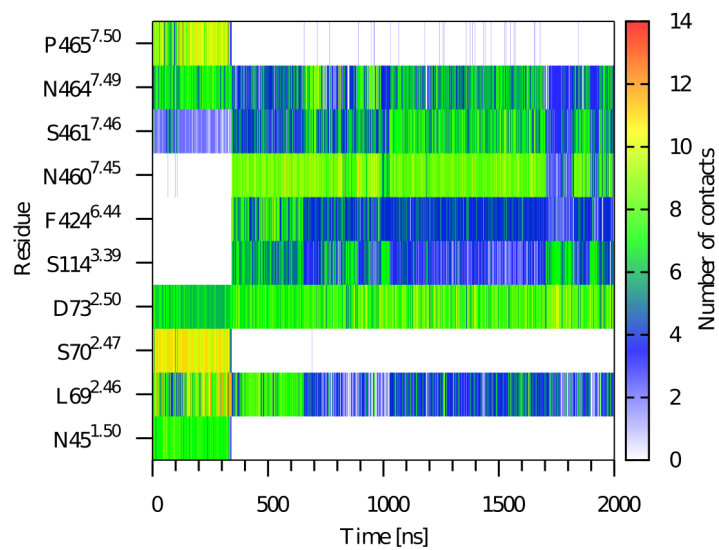
Marcus Conrad ¹ , Christian A. Söldner ¹  and Heinrich Sticht ^{1,2*} 

A



B



C**D**

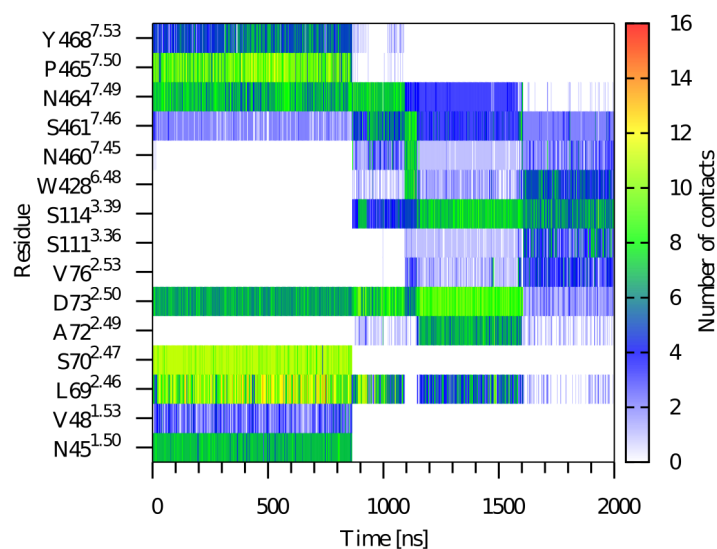
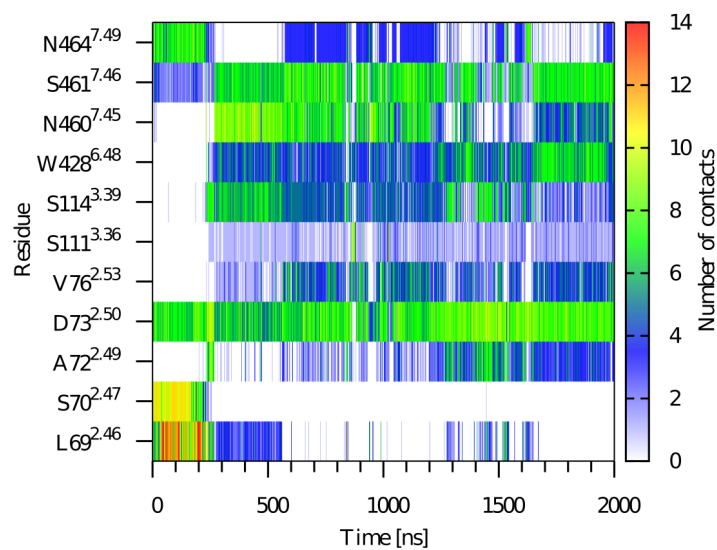
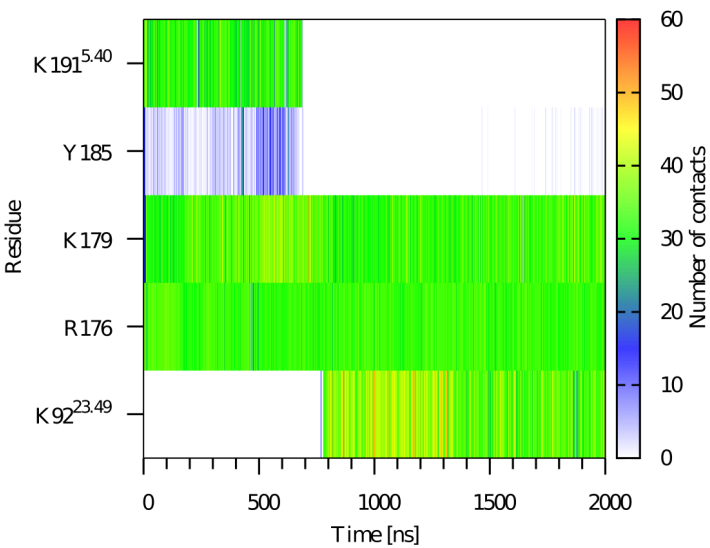
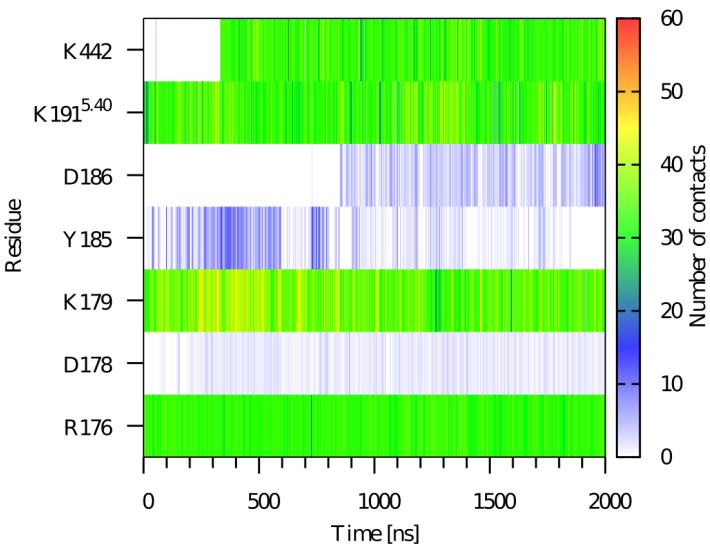
E**F**

Figure S1. Sodium Interactions Number of contacts between Na⁺ and H₁R over the simulation time. The simulation time is shown as horizontal axis and the interacting H₁R residues on the vertical axis. The number of contacts is color coded according to the scale shown on the right side of each panel. The Panels A-F represent the runs 1-4,9,10 found in Table 3 (main document).

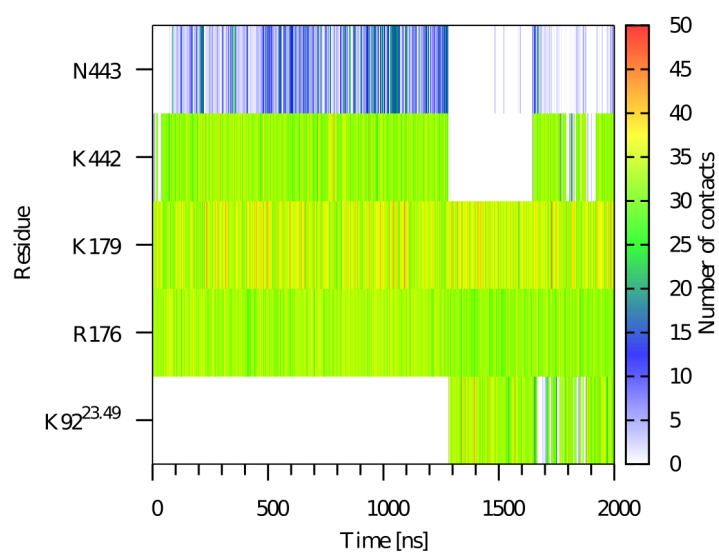
A



B



C



D

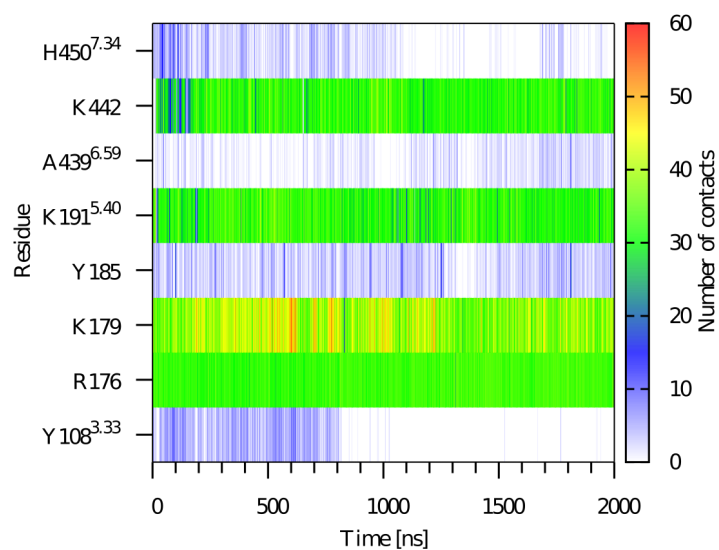
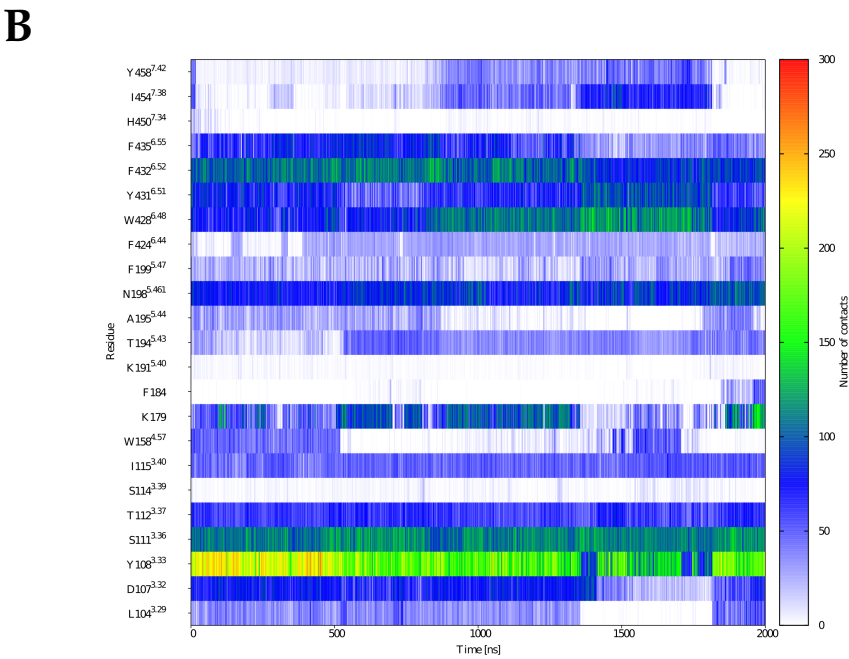
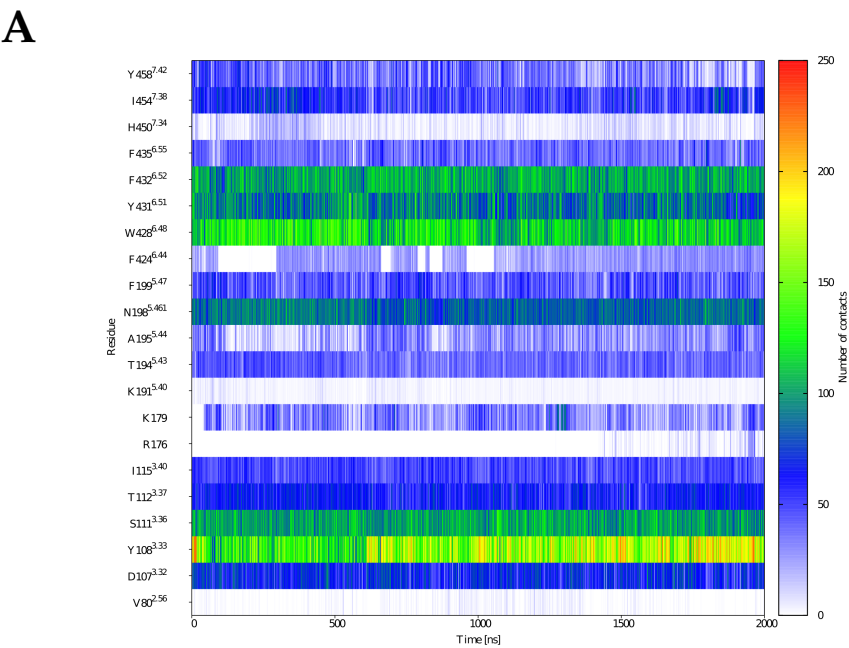
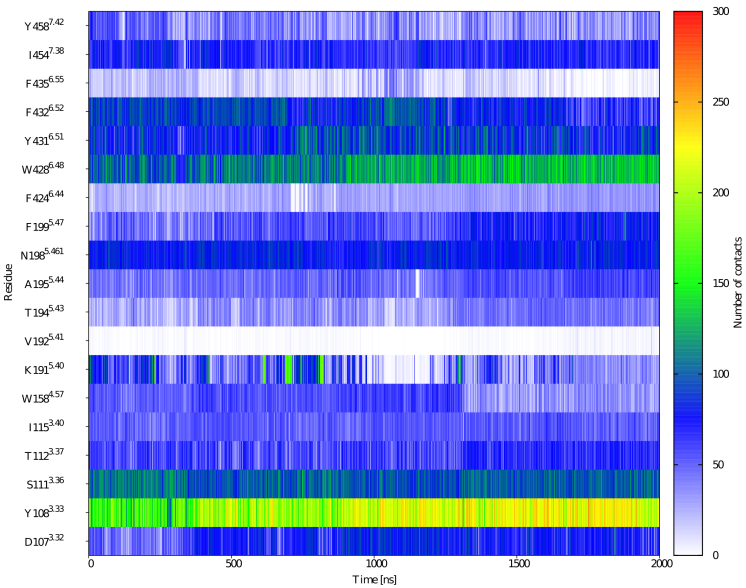


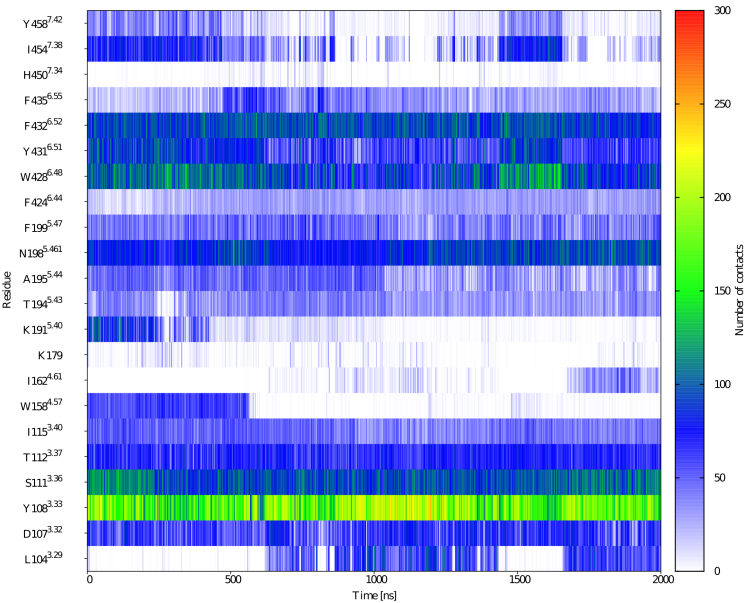
Figure S2. Phosphate Interactions Number of contacts between phosphate ion and H₁R over the simulation time. The simulation time is shown as horizontal axis and the interacting H₁R residues on the vertical axis. The number of contacts is color coded according to the scale shown on the right side of each panel. The Panels A-D represent the runs 3,4,7,8 found in Table 3 (main document).



C



D



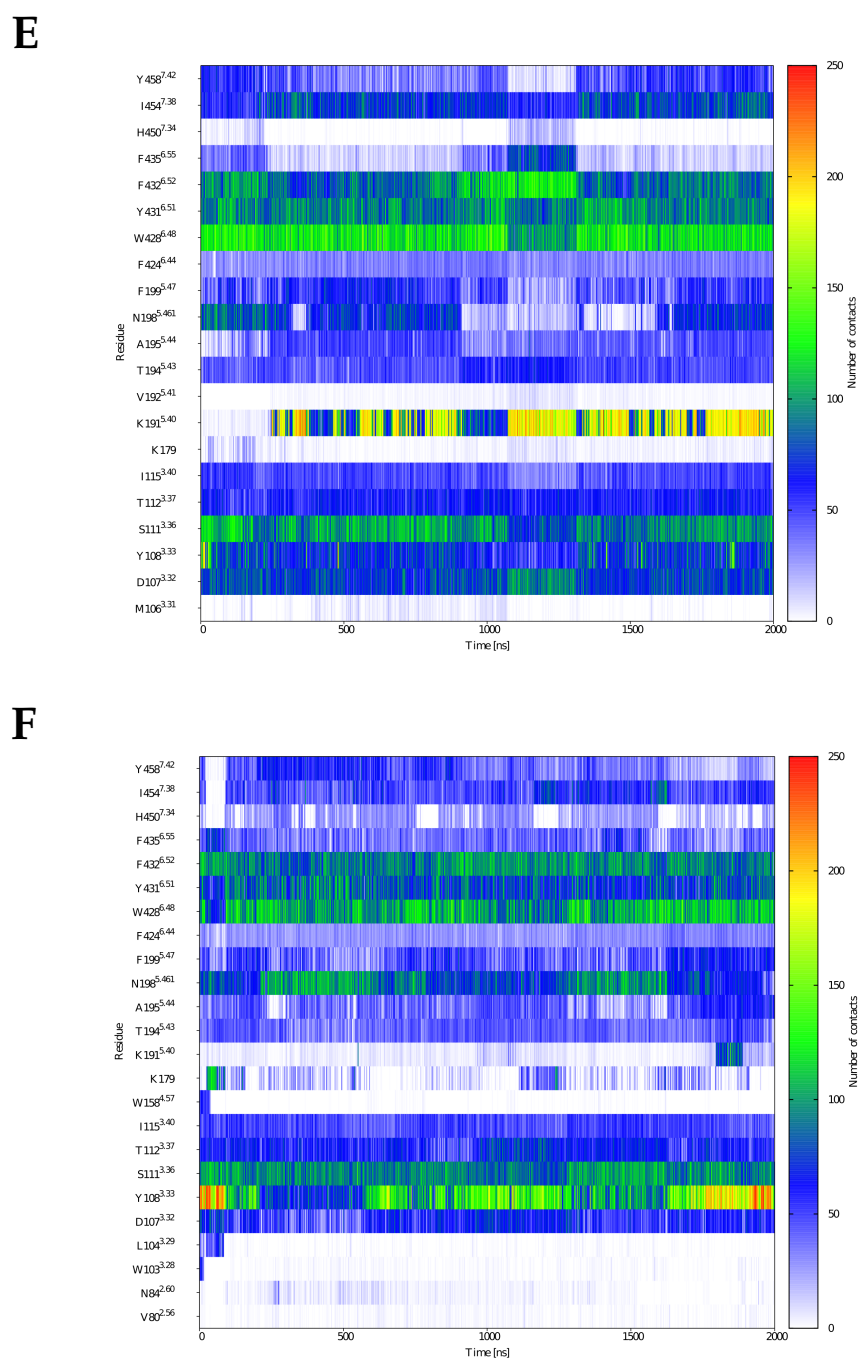


Figure S3. Doxepin Interactions Number of contacts between doxepin and H₁R over the simulation time. The simulation time is shown as horizontal axis and the interacting H₁R residues on the vertical axis. The number of contacts is color coded according to the scale shown on the right side of each panel. The Panels A-F represent the runs1-6 found in Table 3 (main document).