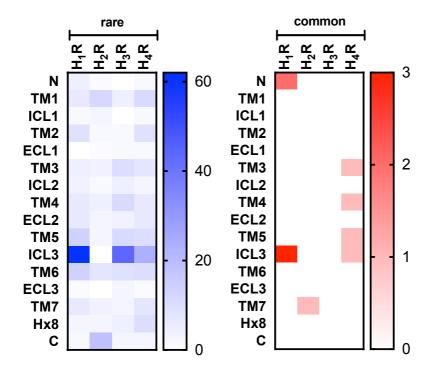
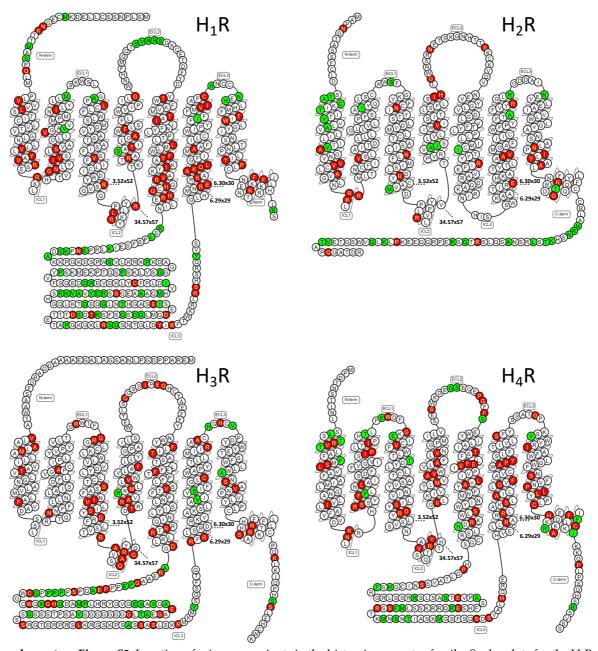
Analysis of missense variants in the human histamine receptor family reveals increased constitutive activity of E410^{6.30x30}K variant in the histamine H₁ receptor

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SUPPLEMENTARY MATERIALS



Supplementary Figure S1. Frequency and distribution of MVs in histamine receptor family. Number of rare and common MVs was determined for the four histamine receptor subtypes and their structural segments rare and common MVs were determined by their reported minor allele frequency scores of $<1x10^3$ and $\ge1x10^3$, respectively.



Supplementary Figure S2. Location of missense variants in the histamine receptor family. Snake plots for the H_1R , H_2R , H_3R , and H_4R were extracted from GPCRdb (https://gpcrdb.org/mutational_landscape/statistics) and tolerated and deleterious MVs as predicted by SIFT/PolyPhen analyses are highlighted in green and red, respectively. The positions of the four H_1R missense variants that were experimentally analysed are indicated with their generic numbers and corresponding amino acids at these positions are indicated in the H_2R , H_3R , and H_4R .