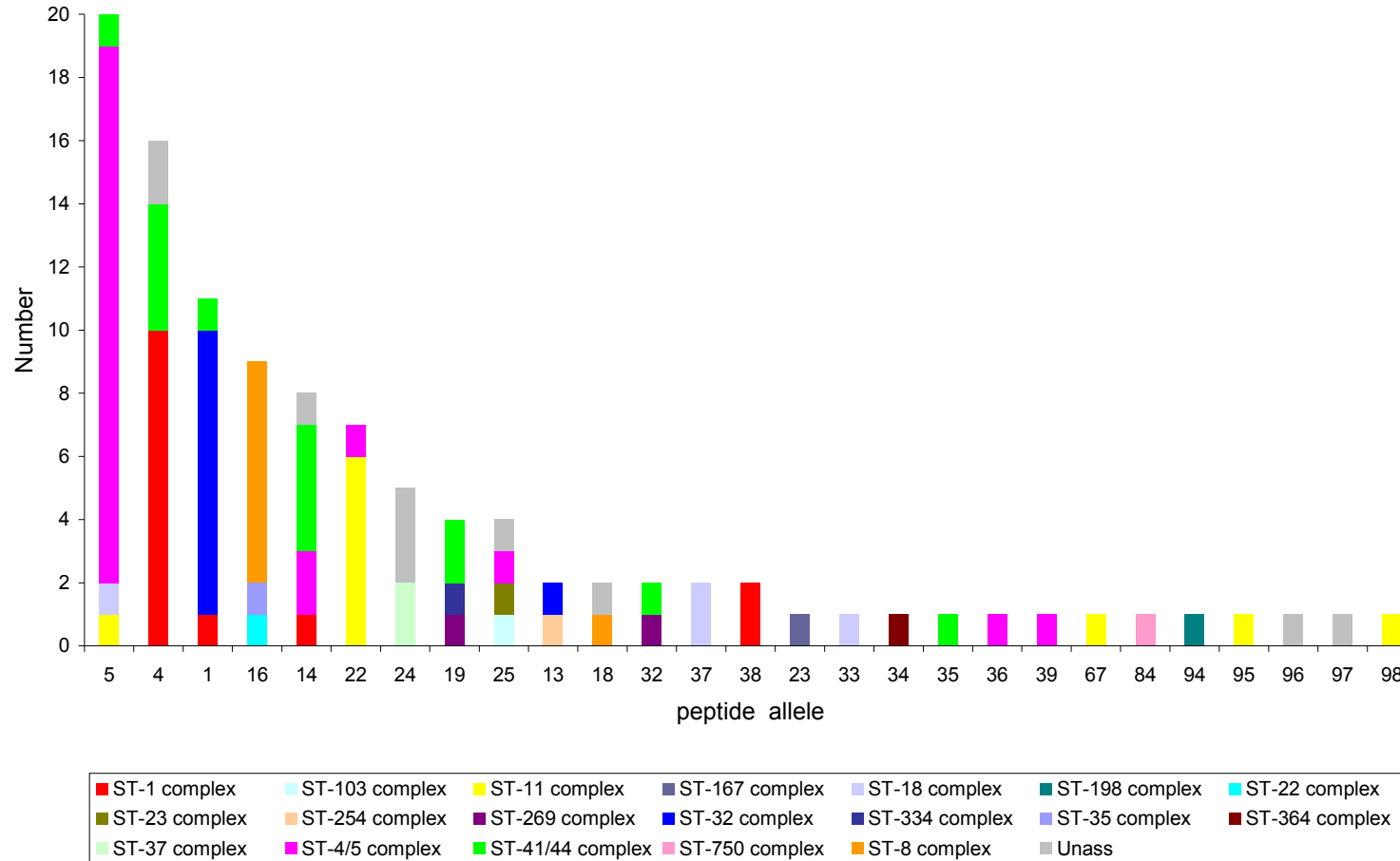


## Supplementary figures

Fig. S1: Distribution of clonal complexes within fHbp peptides.



**Fig. S2:** Neighbour-joining tree constructed from aligned peptide sequences indicating association with clonal complex. Bootstrap values shown.

