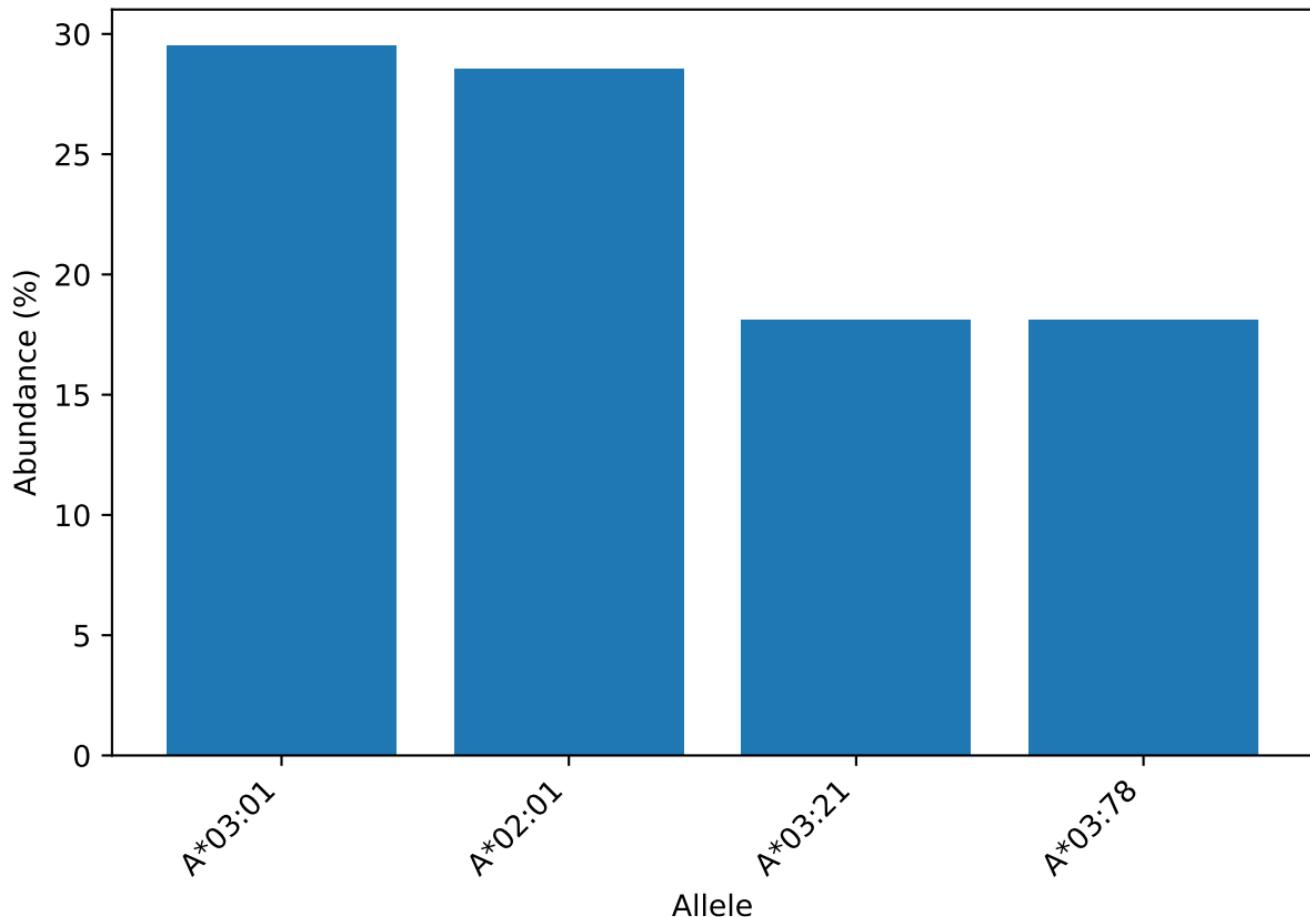
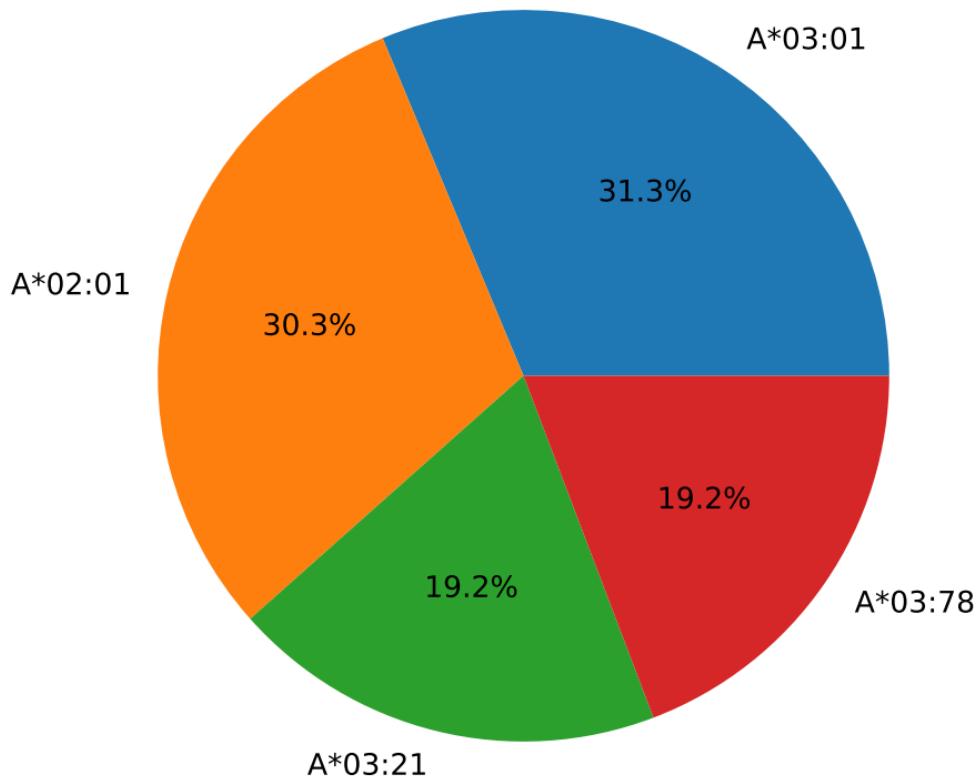


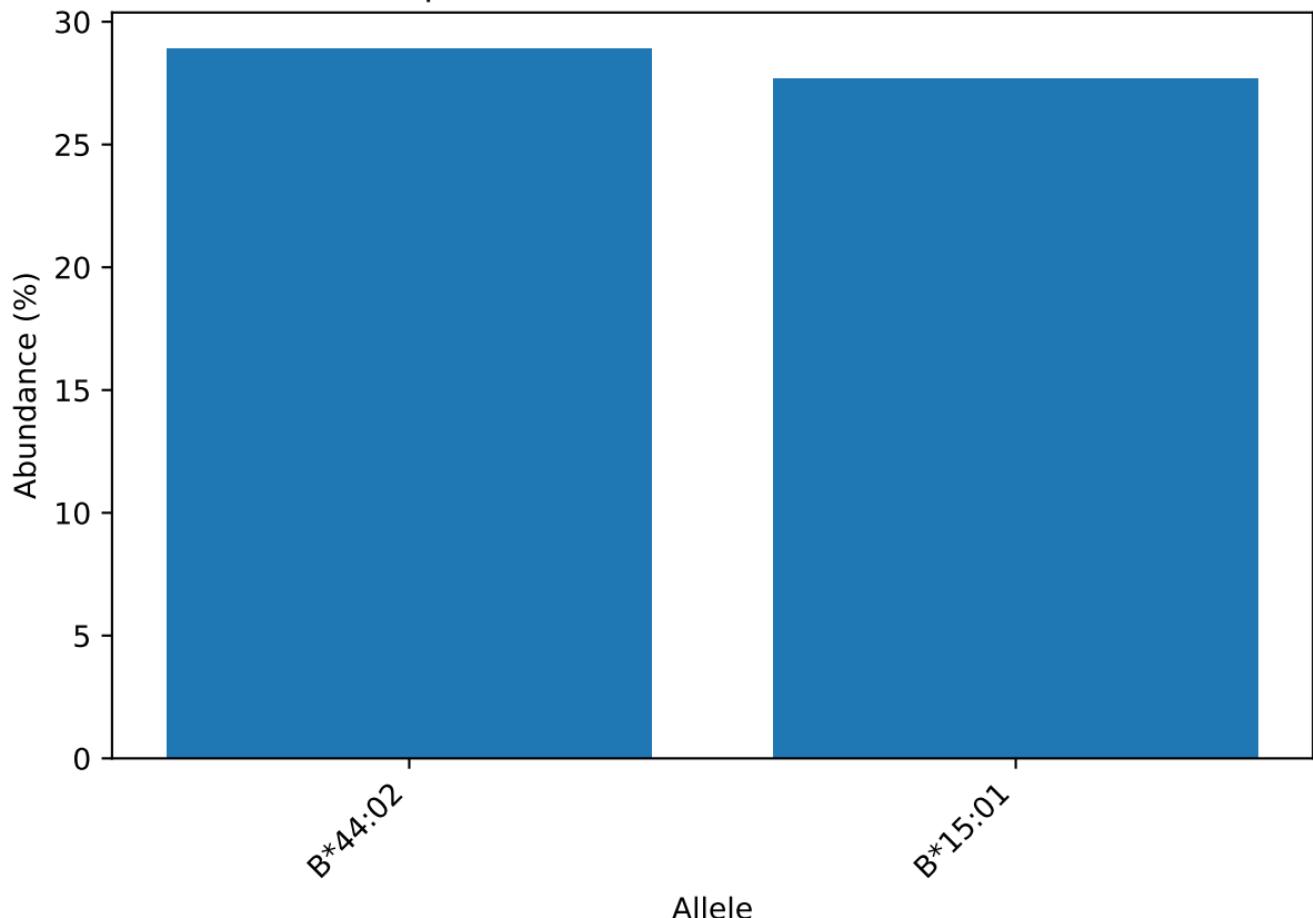
HLA-A predicted alleles ($\geq 10.0\%$ abundance)



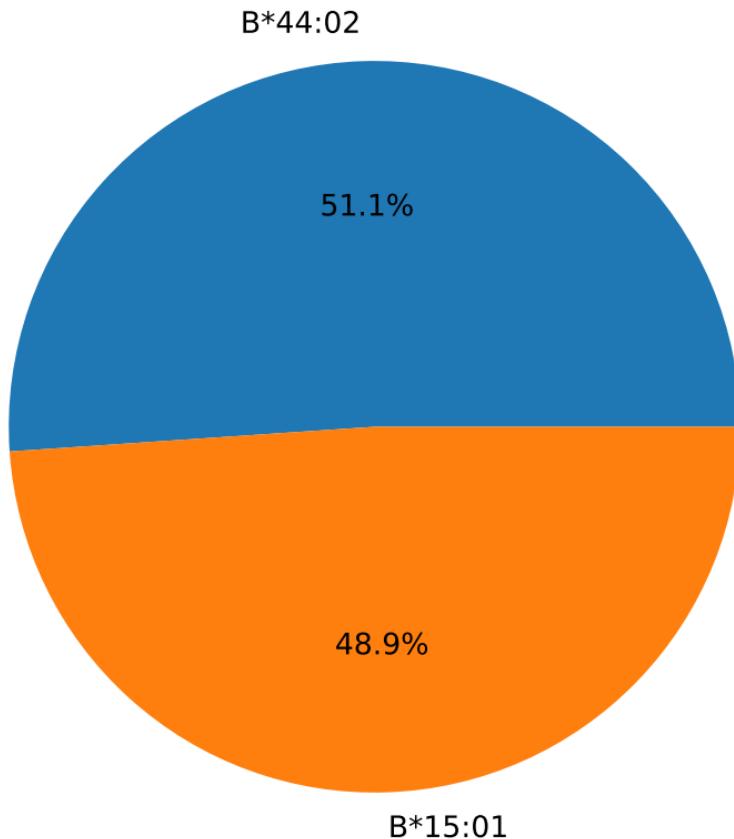
HLA-A predicted alleles ($\geq 10.0\%$ abundance)



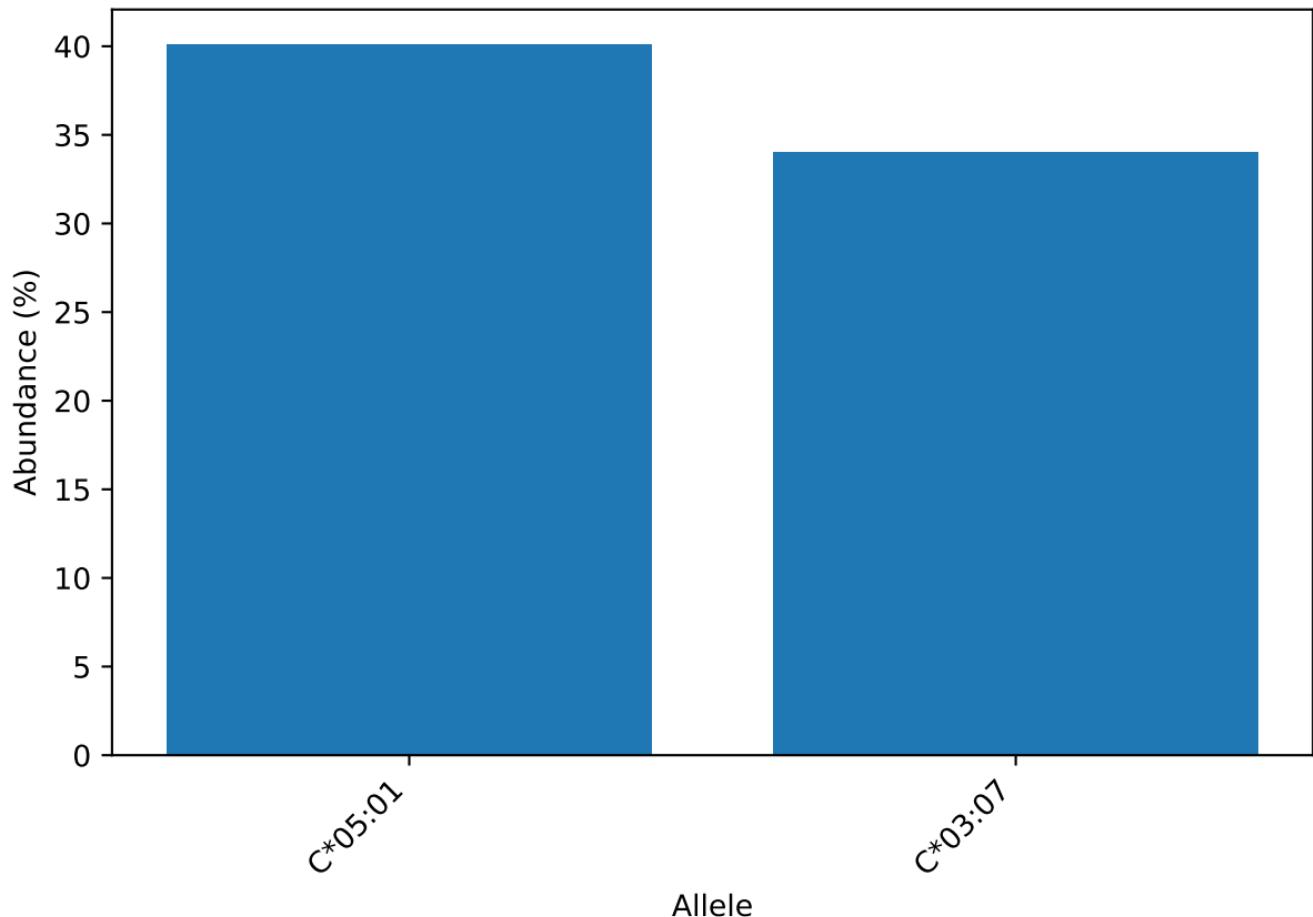
HLA-B predicted alleles ($\geq 10.0\%$ abundance)



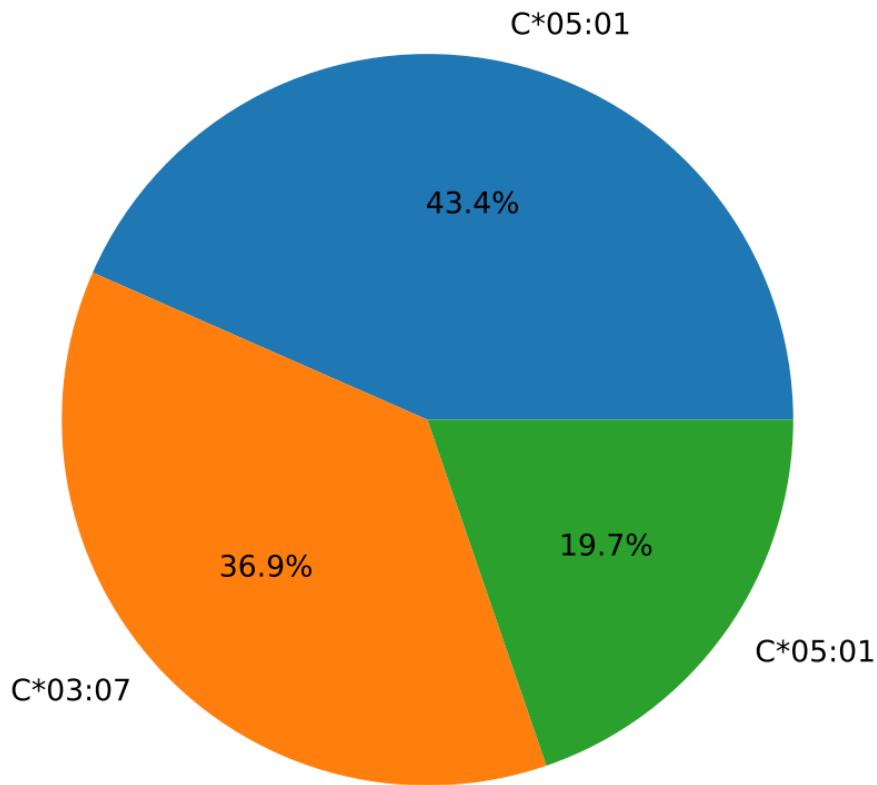
HLA-B predicted alleles ($\geq 10.0\%$ abundance)



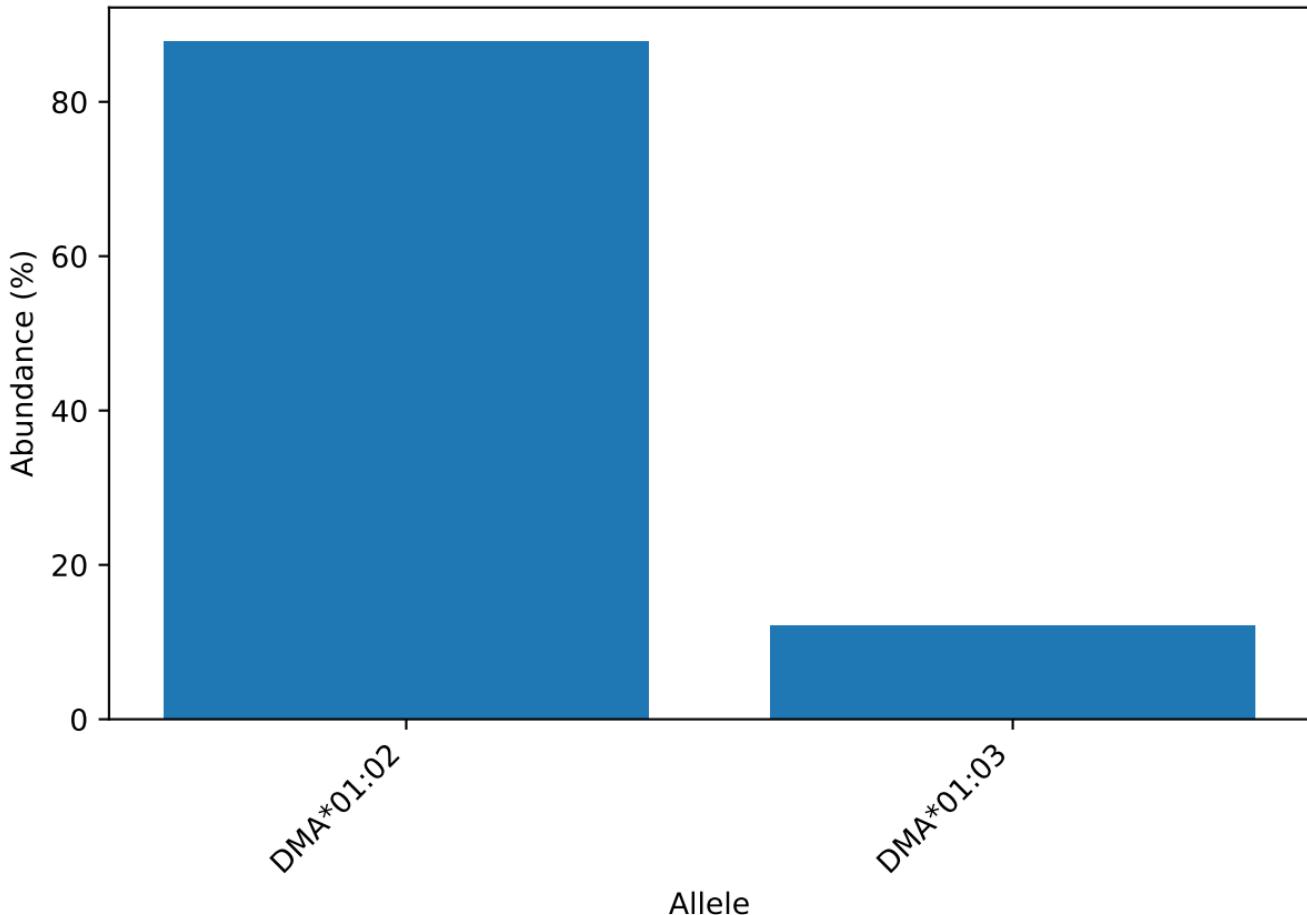
HLA-C predicted alleles ($\geq 10.0\%$ abundance)



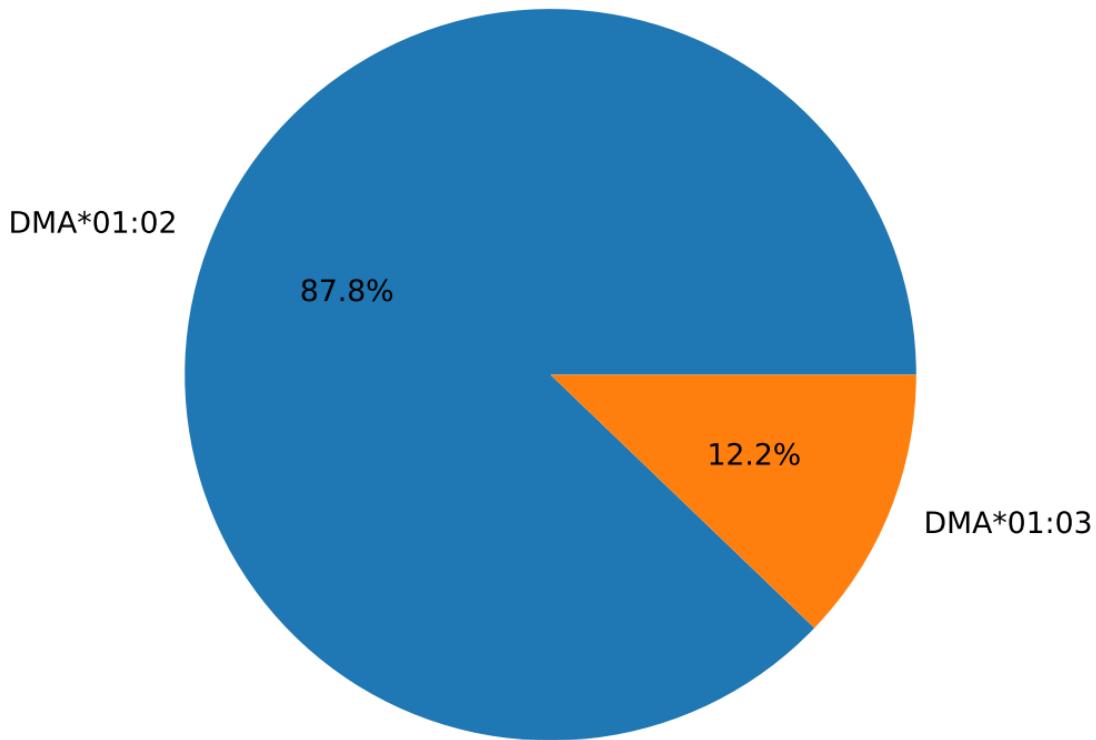
HLA-C predicted alleles ($\geq 10.0\%$ abundance)



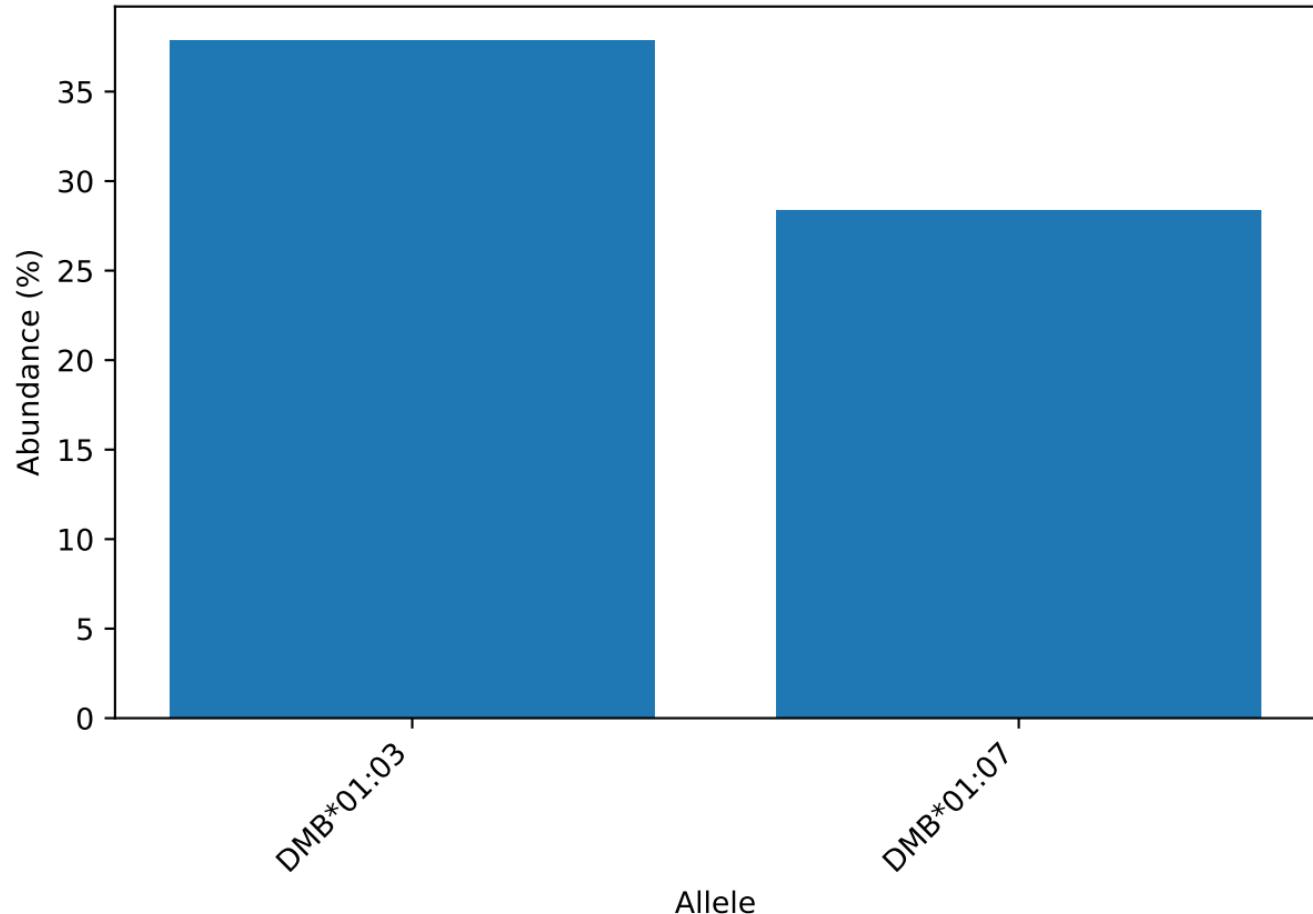
HLA-DMA predicted alleles ($\geq 10.0\%$ abundance)



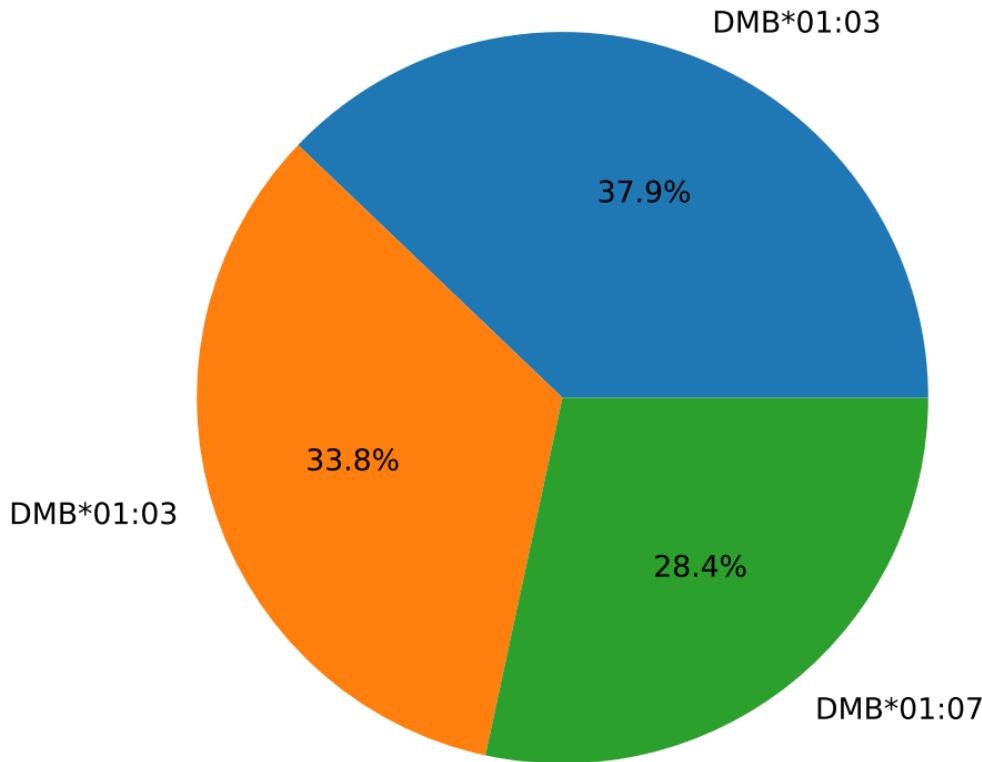
HLA-DMA predicted alleles ($\geq 10.0\%$ abundance)



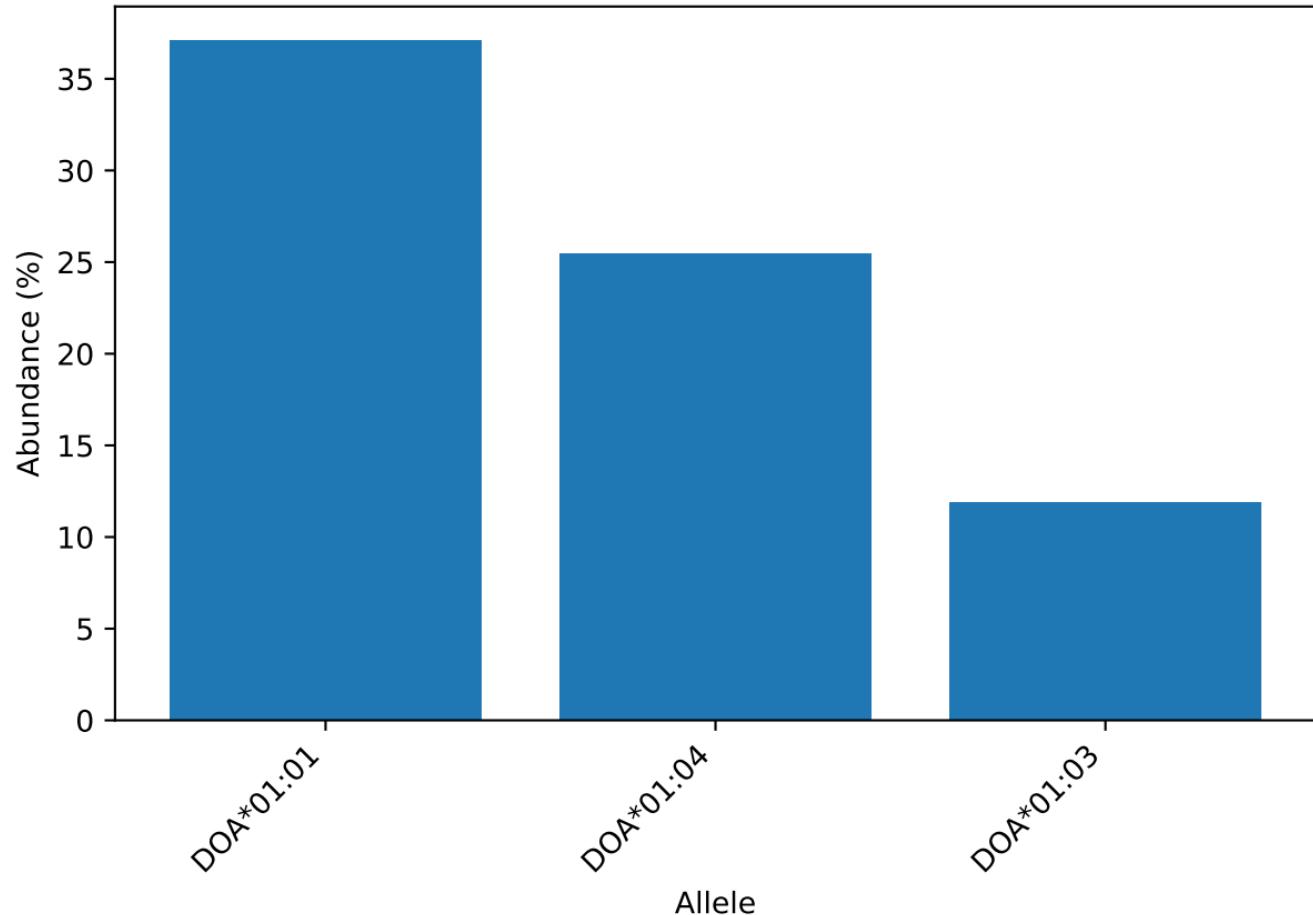
HLA-DMB predicted alleles ($\geq 10.0\%$ abundance)



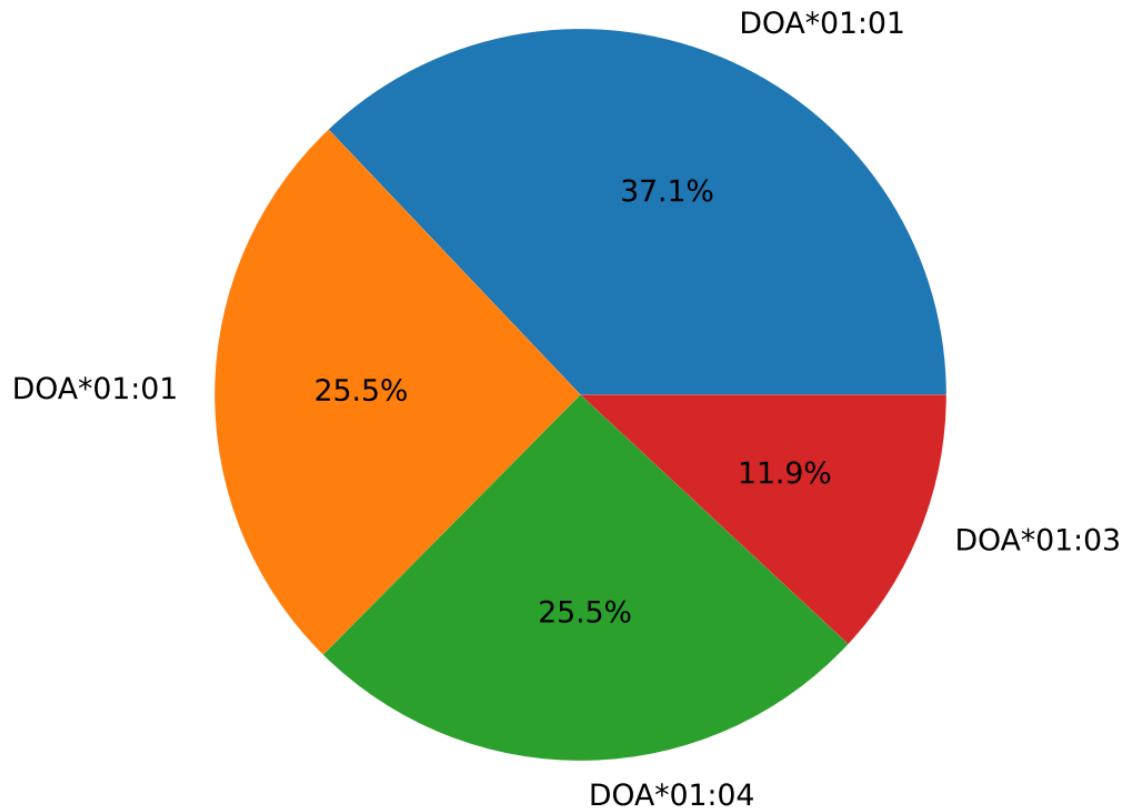
HLA-DMB predicted alleles ($\geq 10.0\%$ abundance)



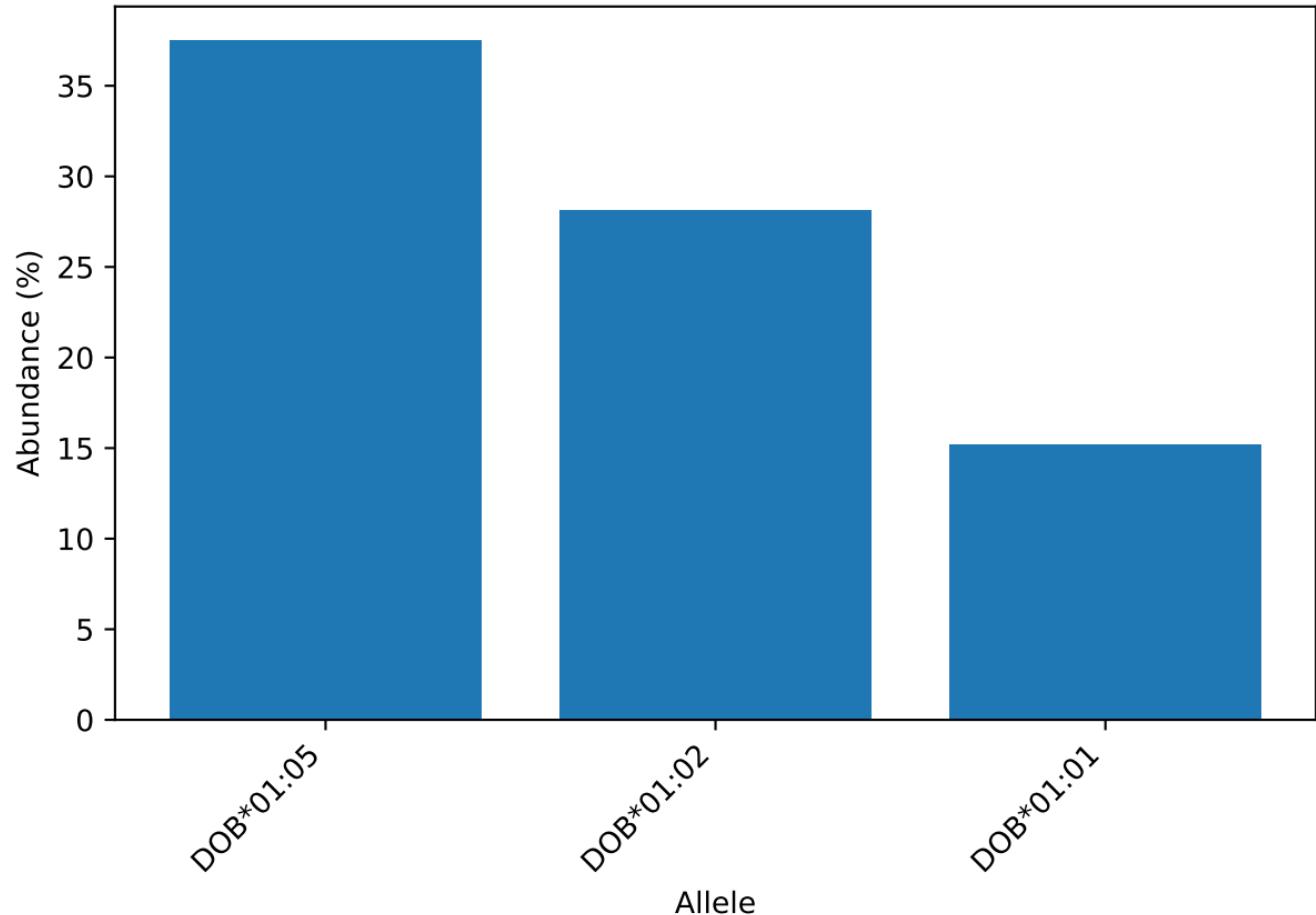
HLA-DOA predicted alleles ($\geq 10.0\%$ abundance)



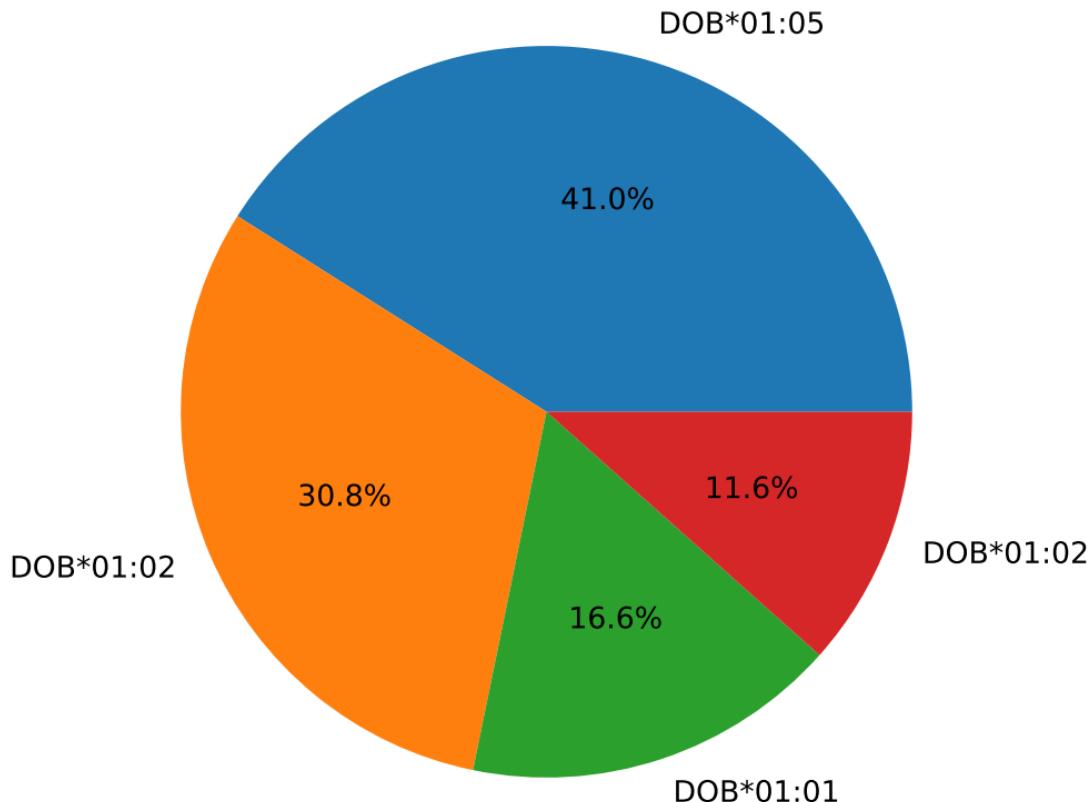
HLA-DOA predicted alleles ($\geq 10.0\%$ abundance)



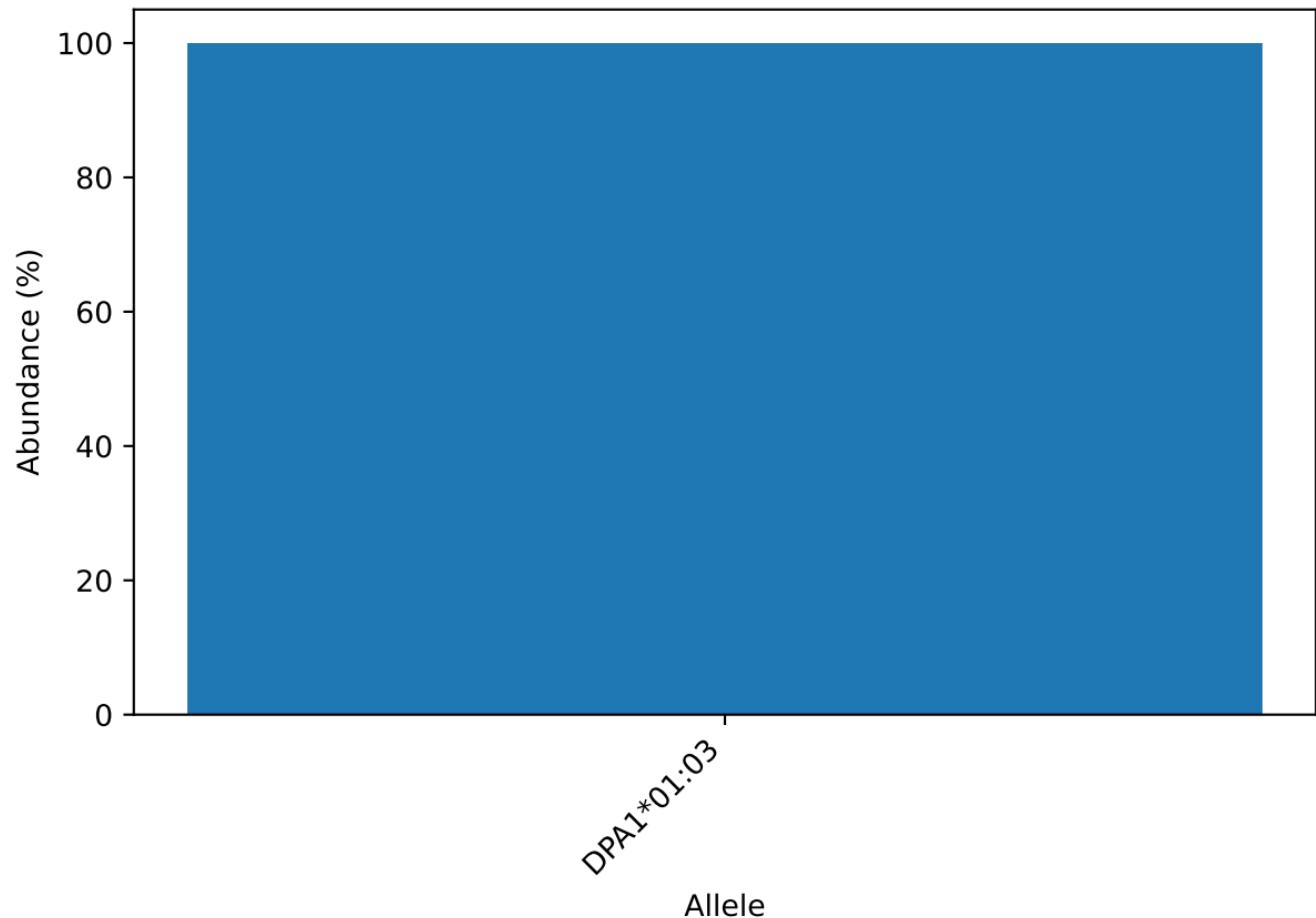
HLA-DOB predicted alleles ($\geq 10.0\%$ abundance)



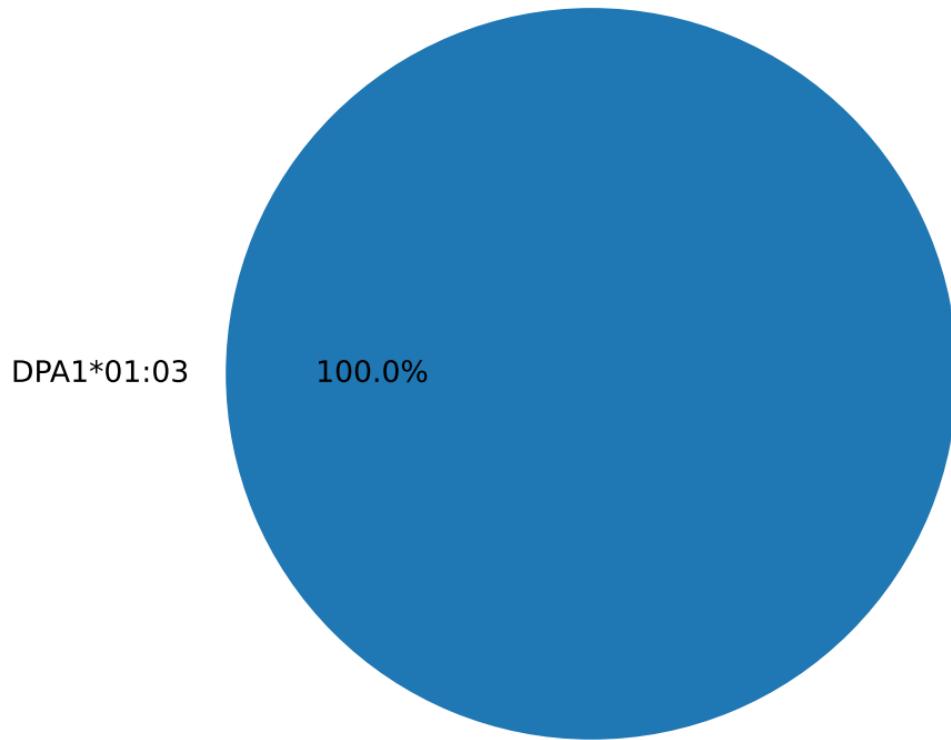
HLA-DOB predicted alleles ($\geq 10.0\%$ abundance)



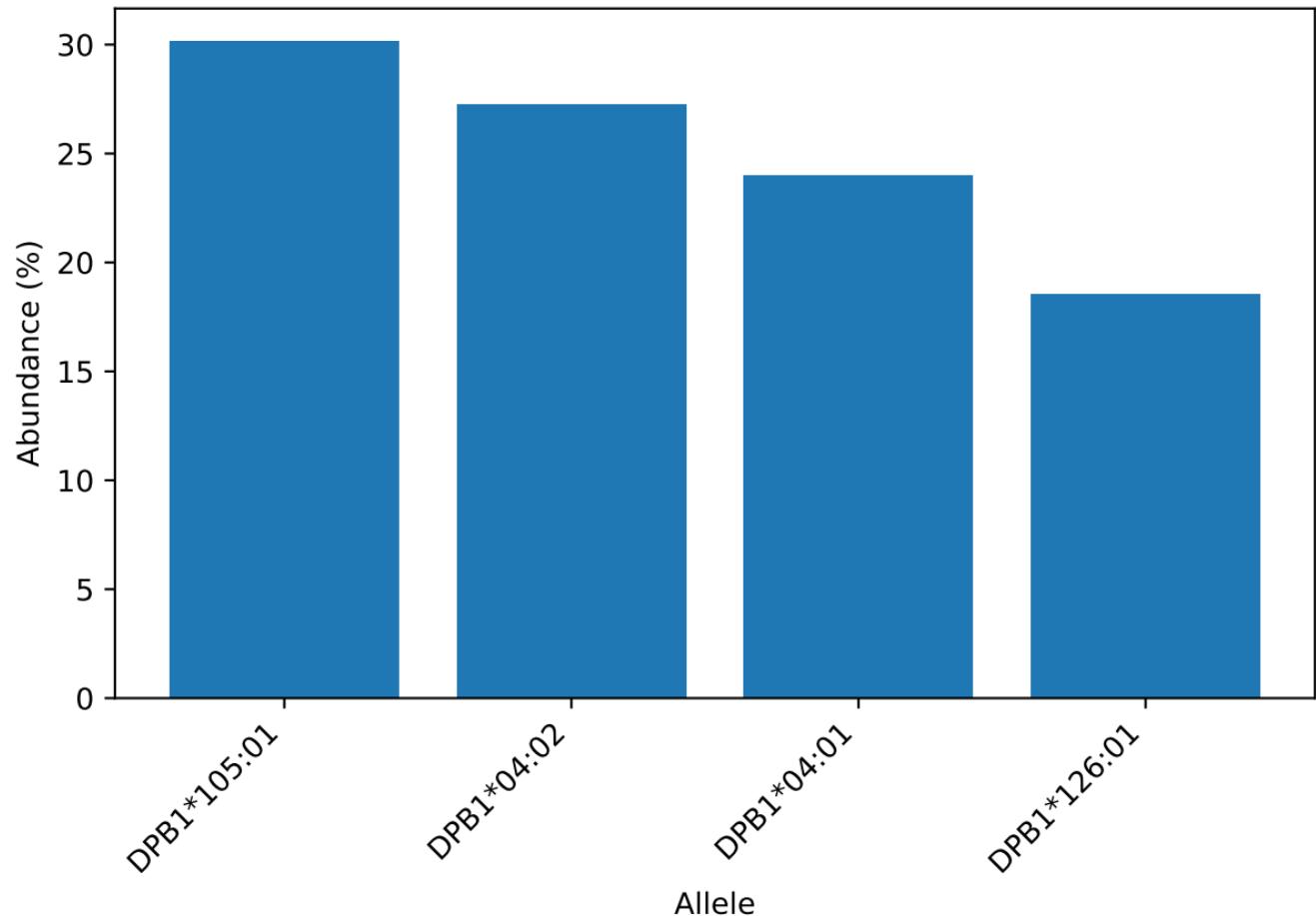
HLA-DPA1 predicted alleles ($\geq 10.0\%$ abundance)



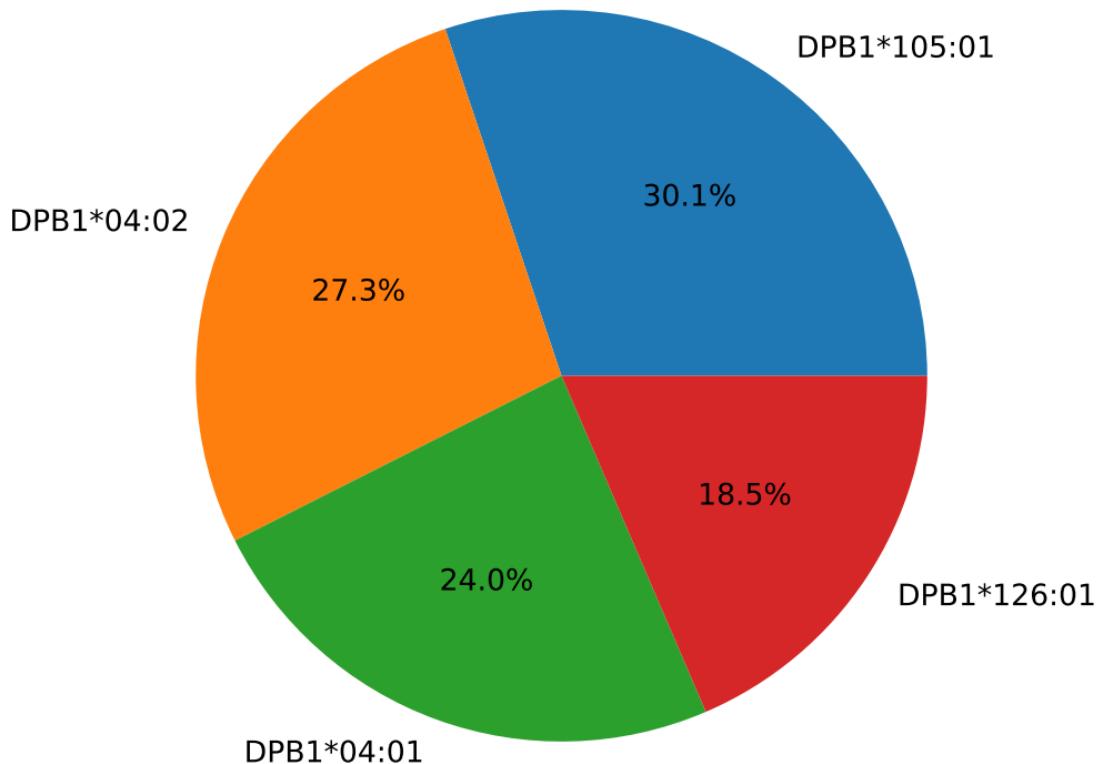
HLA-DPA1 predicted alleles ($\geq 10.0\%$ abundance)



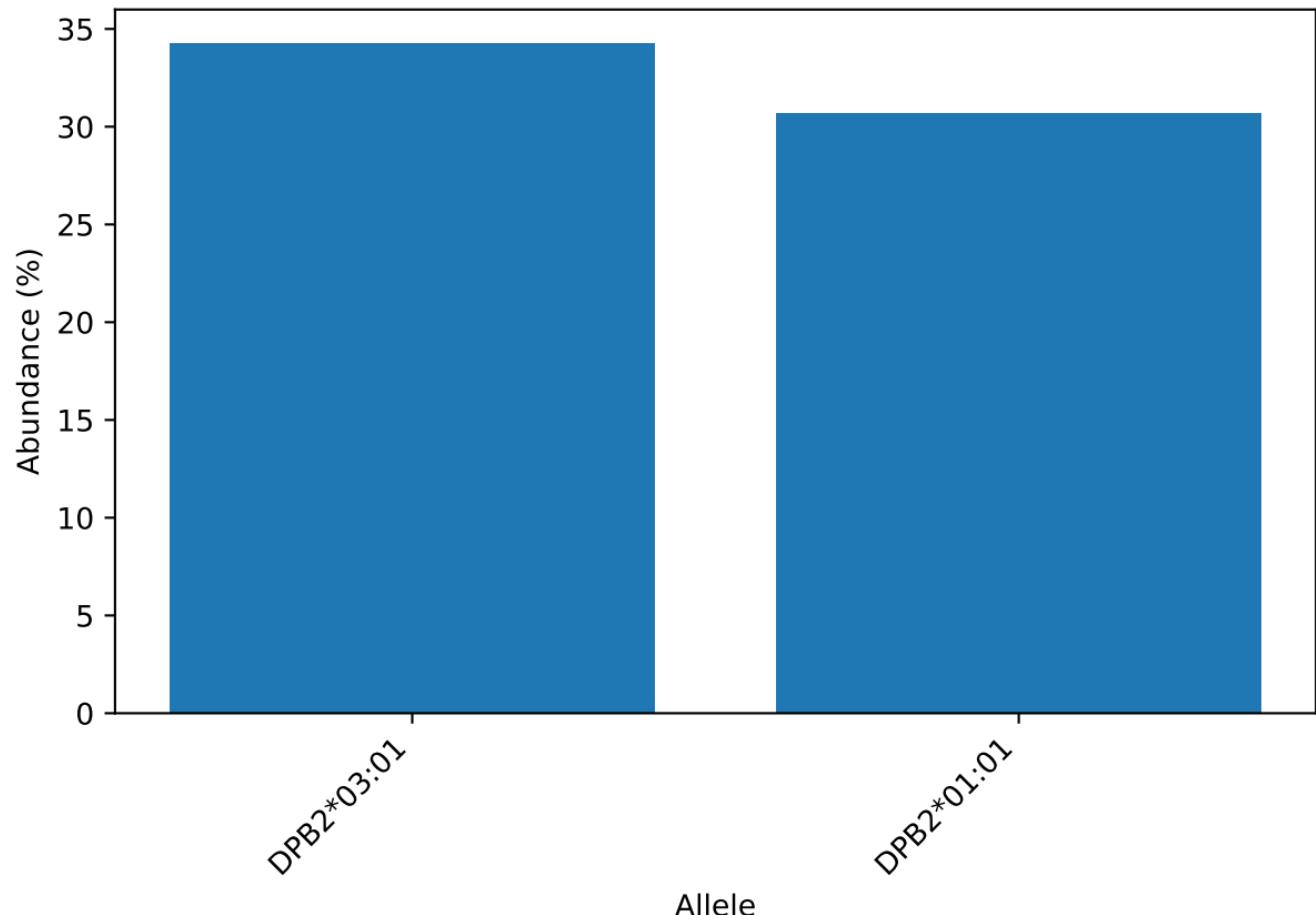
HLA-DPB1 predicted alleles ($\geq 10.0\%$ abundance)



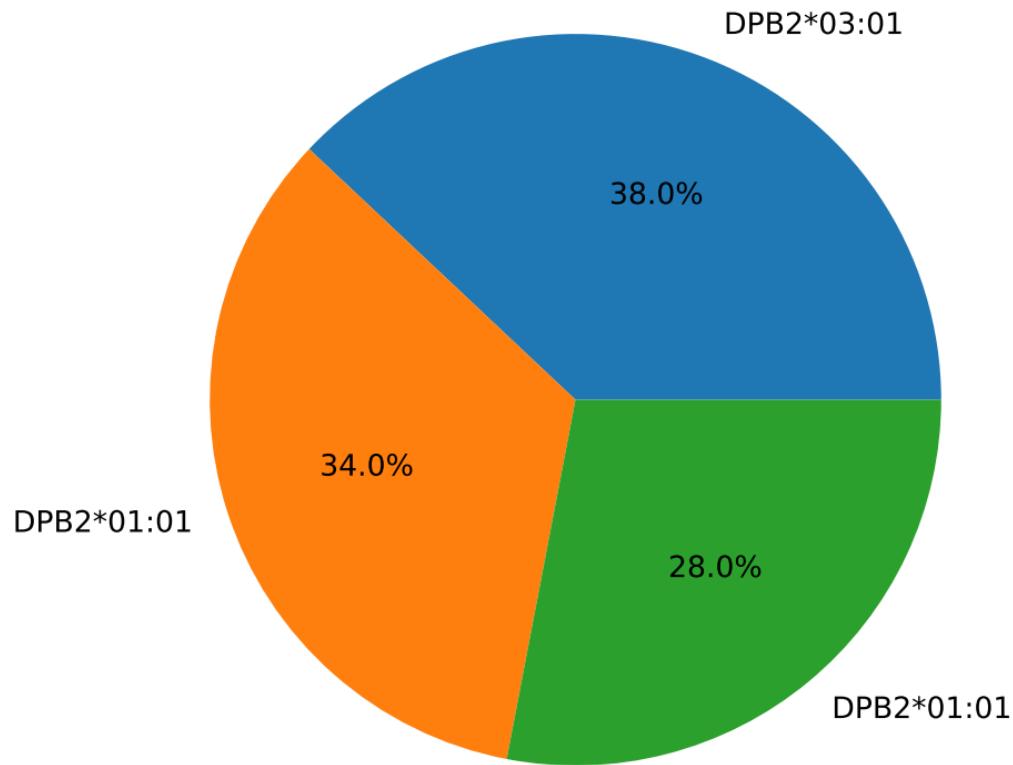
HLA-DPB1 predicted alleles ($\geq 10.0\%$ abundance)



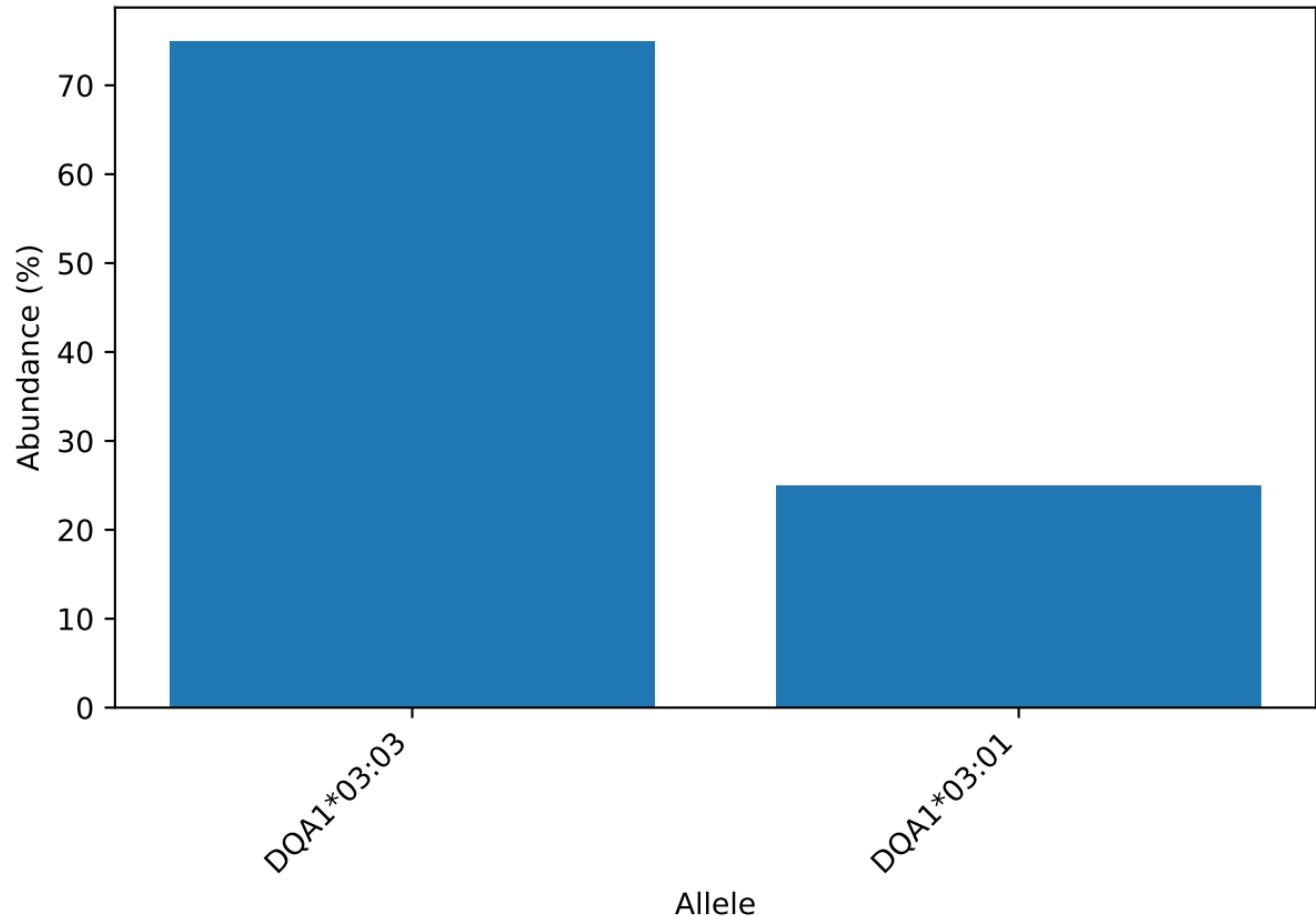
HLA-DPB2 predicted alleles ($\geq 10.0\%$ abundance)



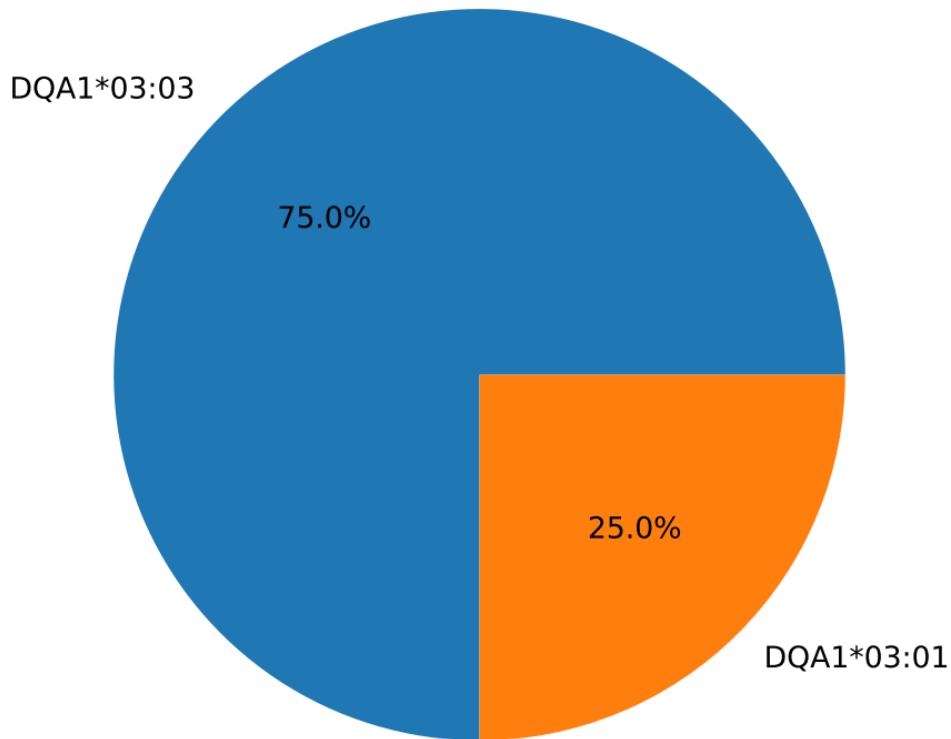
HLA-DPB2 predicted alleles ($\geq 10.0\%$ abundance)



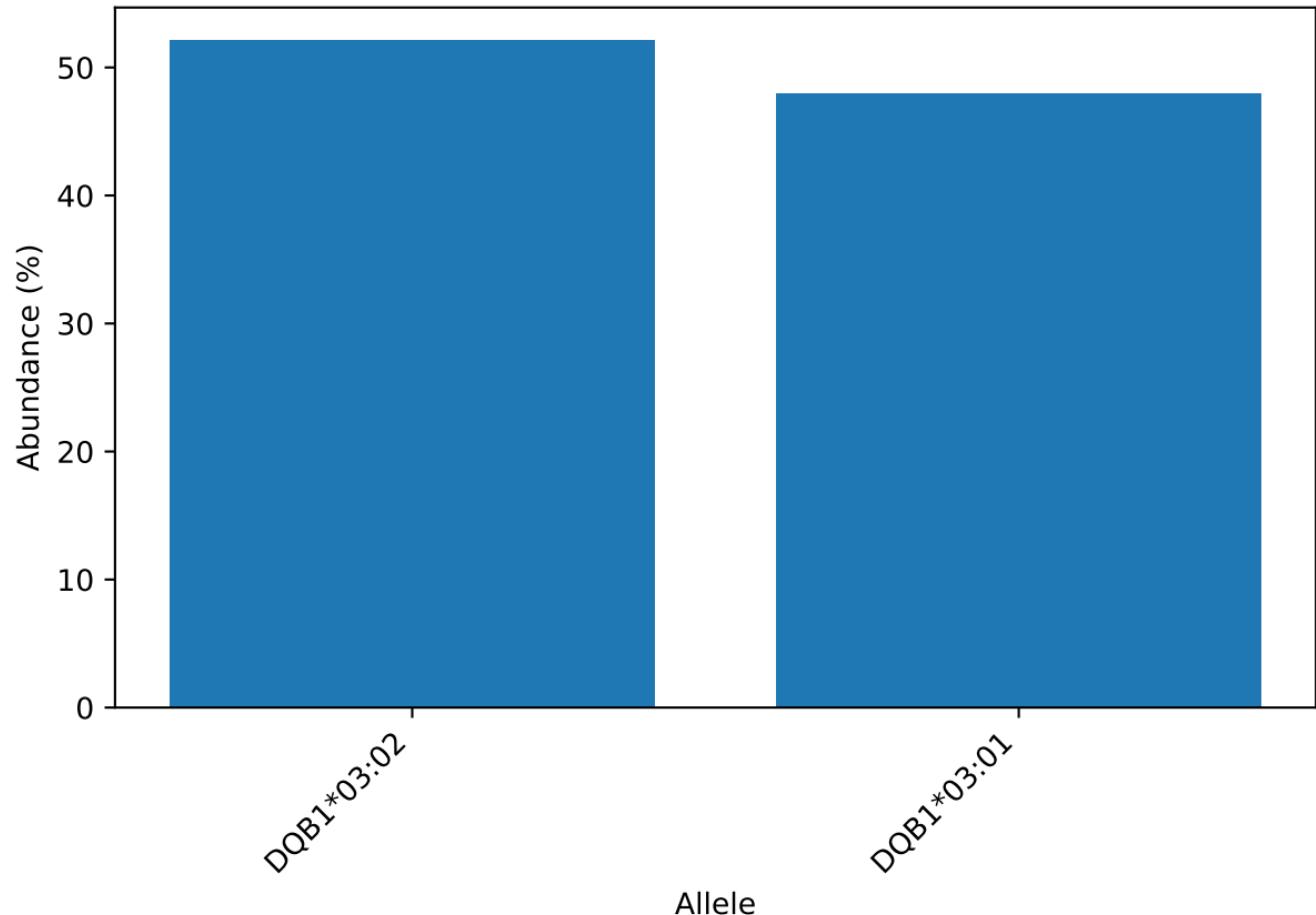
HLA-DQA1 predicted alleles ($\geq 10.0\%$ abundance)



HLA-DQA1 predicted alleles ($\geq 10.0\%$ abundance)



HLA-DQB1 predicted alleles ($\geq 10.0\%$ abundance)



HLA-DQB1 predicted alleles ($\geq 10.0\%$ abundance)

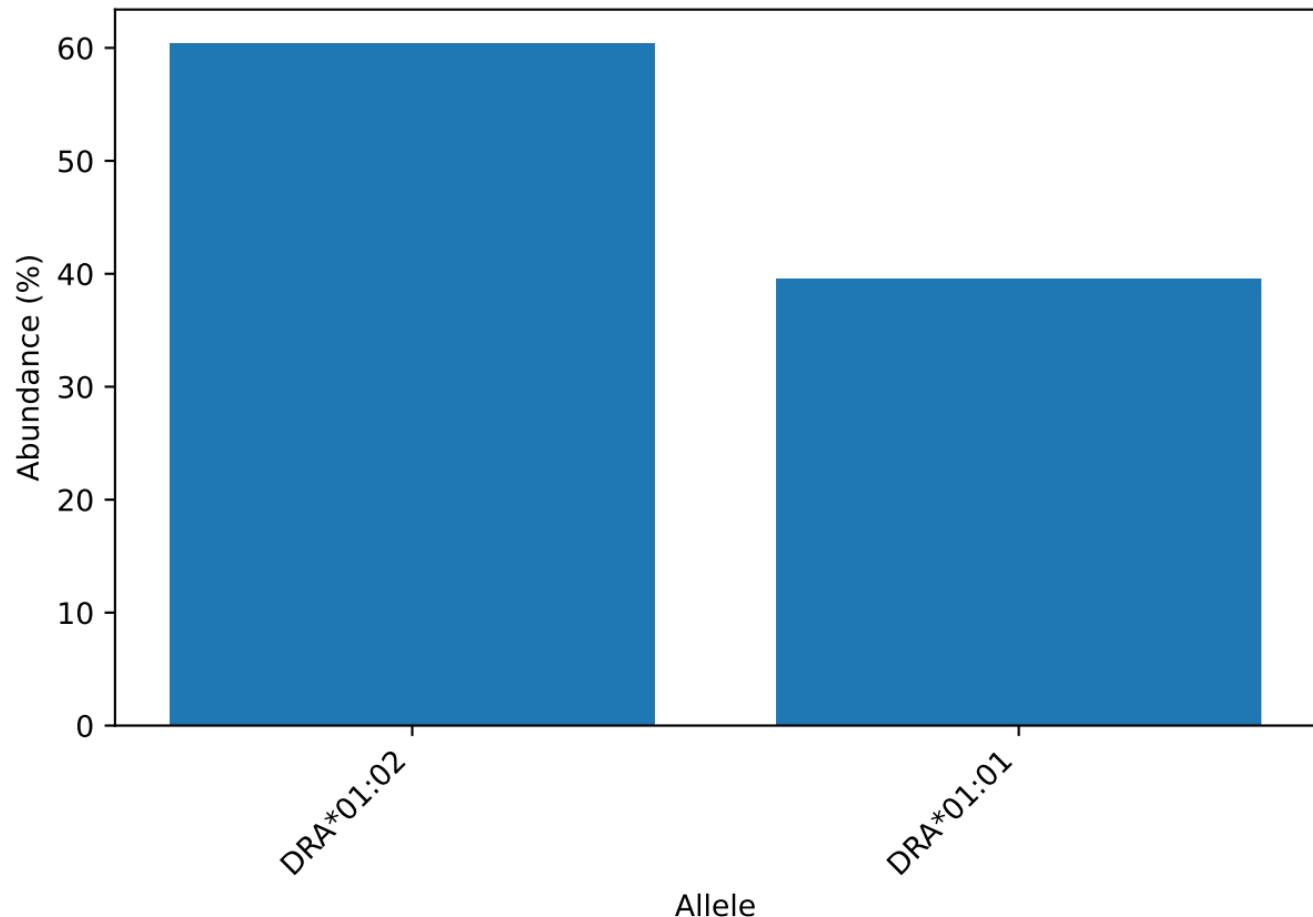
DQB1*03:02

52.1%

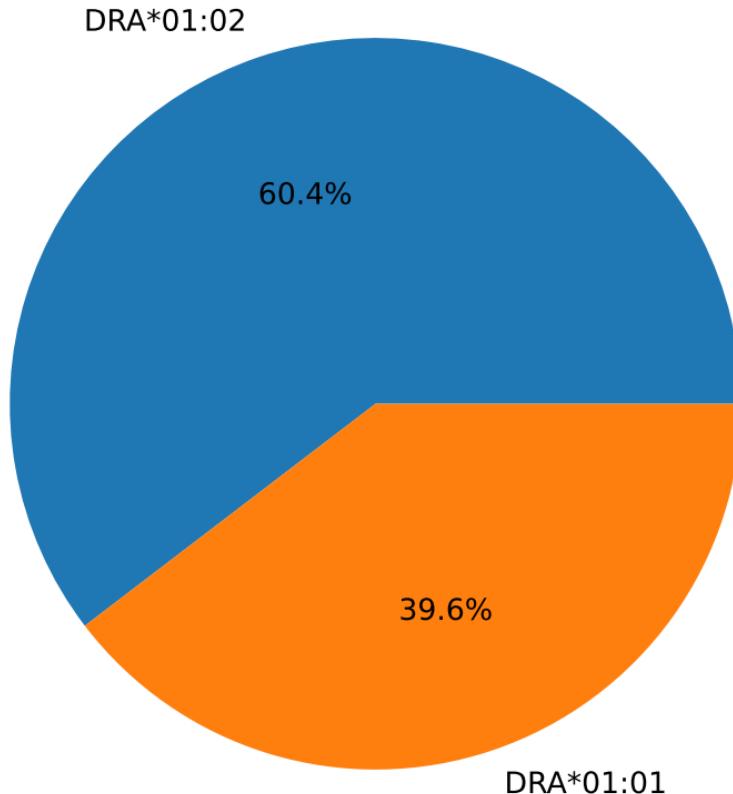
47.9%

DQB1*03:01

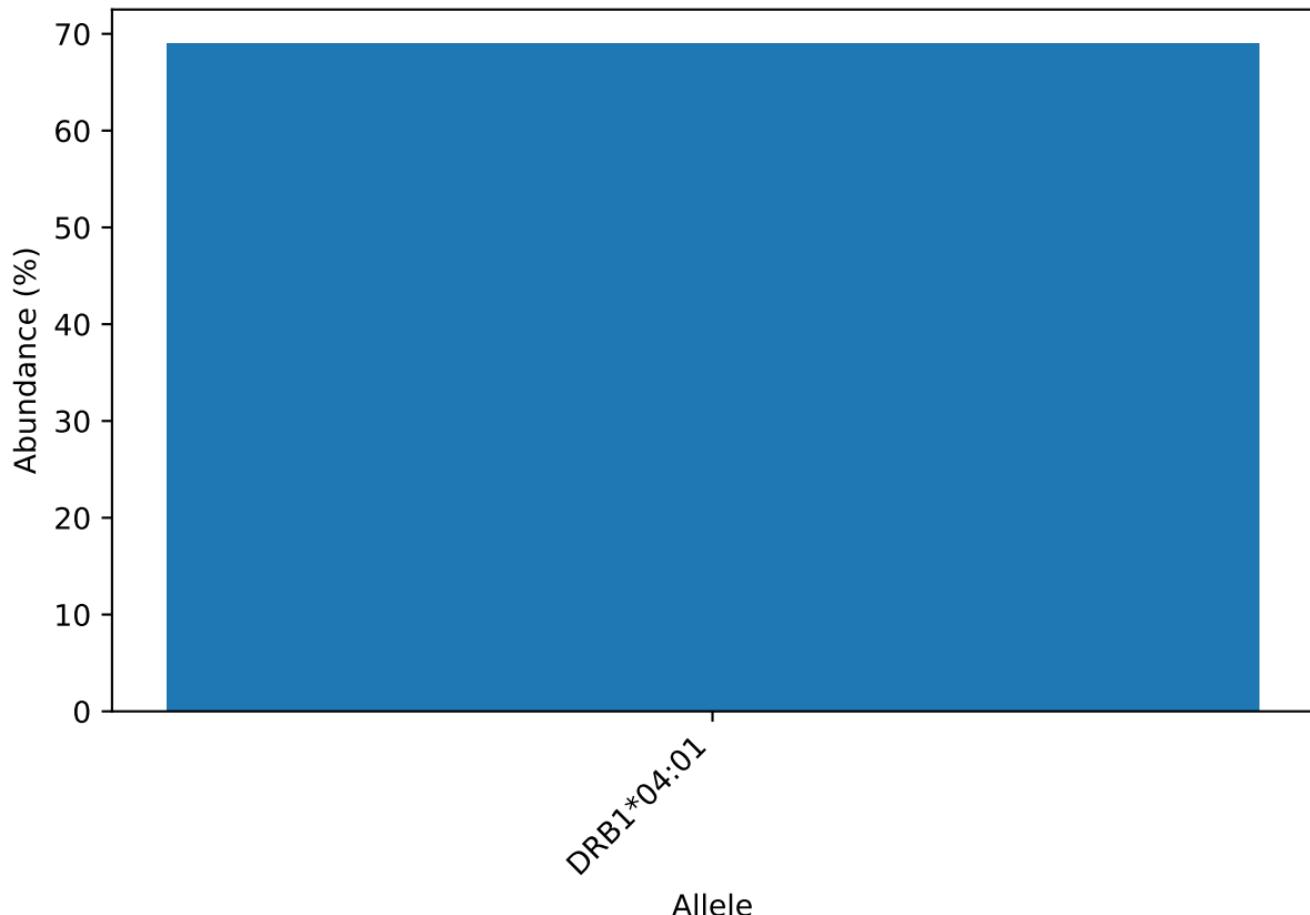
HLA-DRA predicted alleles ($\geq 10.0\%$ abundance)



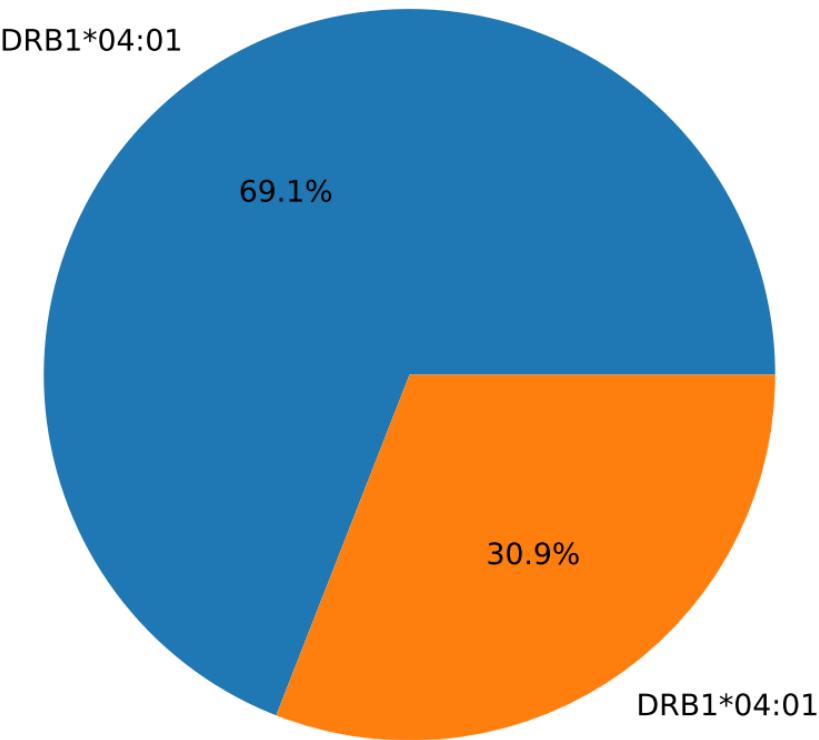
HLA-DRA predicted alleles ($\geq 10.0\%$ abundance)



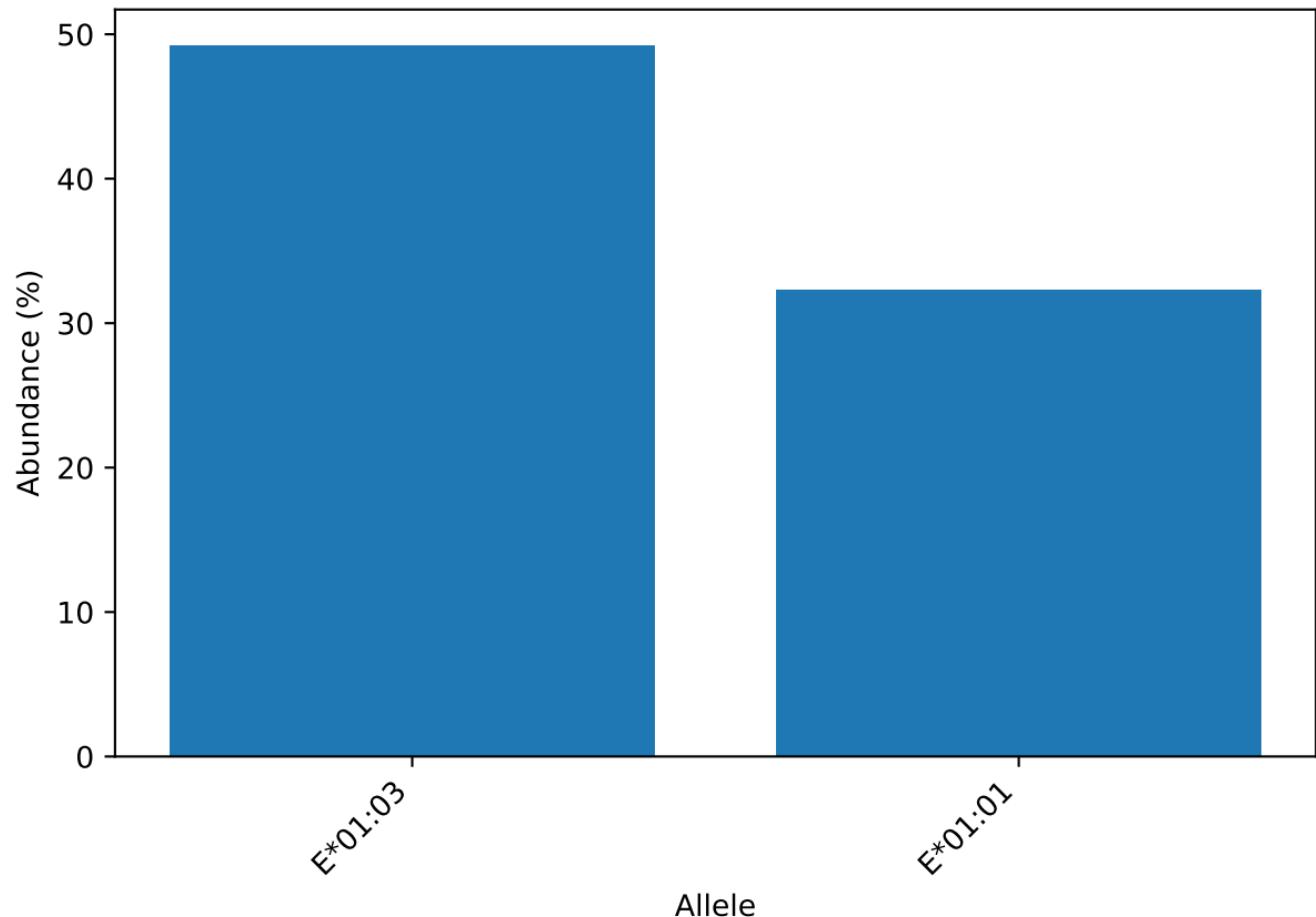
HLA-DRB1 predicted alleles ($\geq 10.0\%$ abundance)



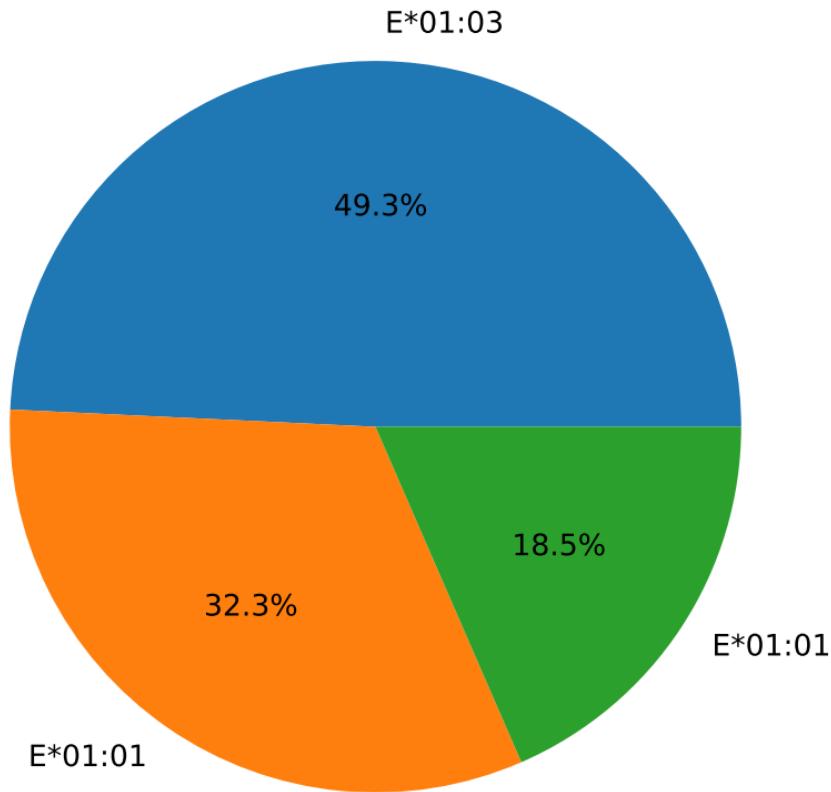
HLA-DRB1 predicted alleles ($\geq 10.0\%$ abundance)



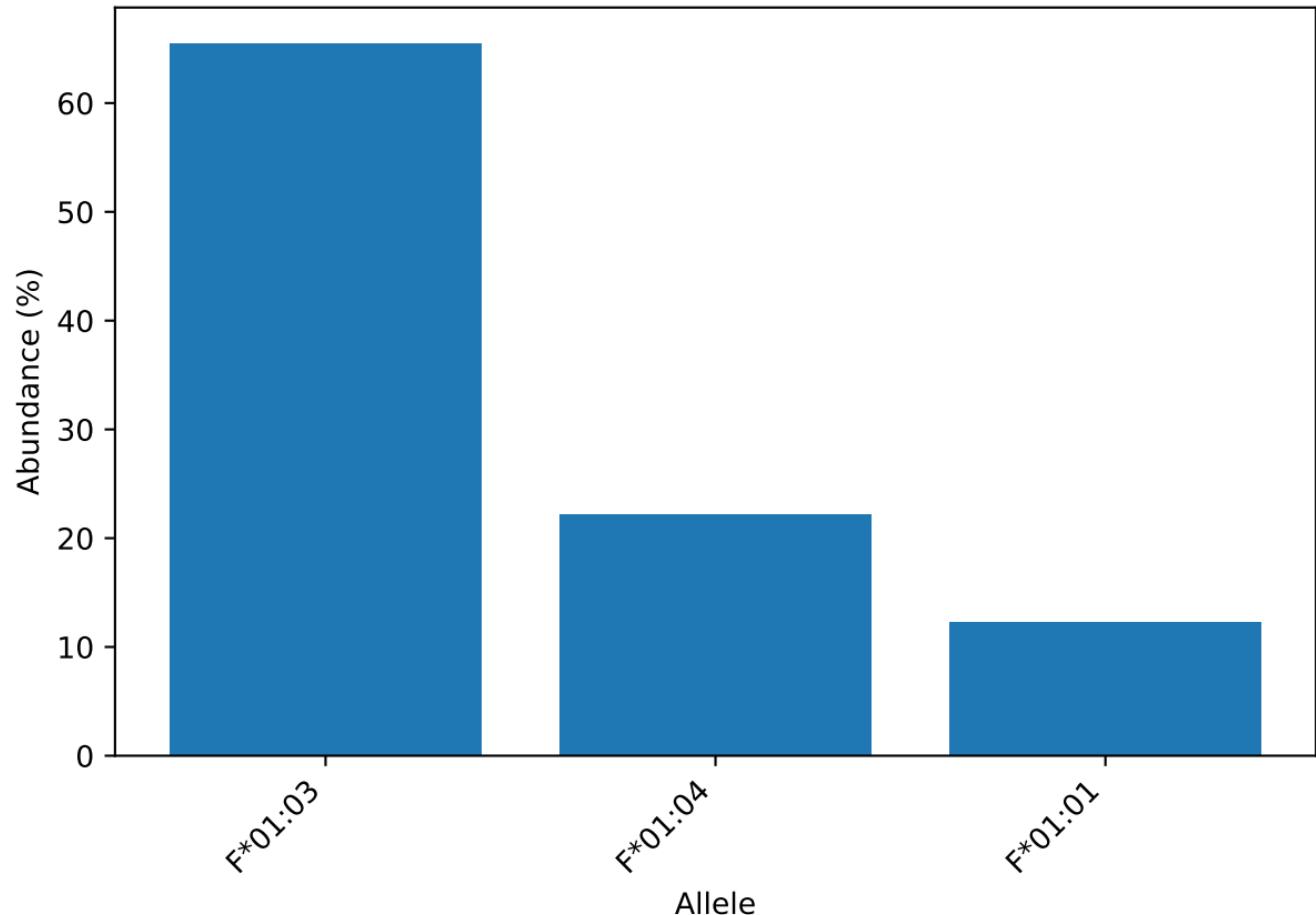
HLA-E predicted alleles ($\geq 10.0\%$ abundance)



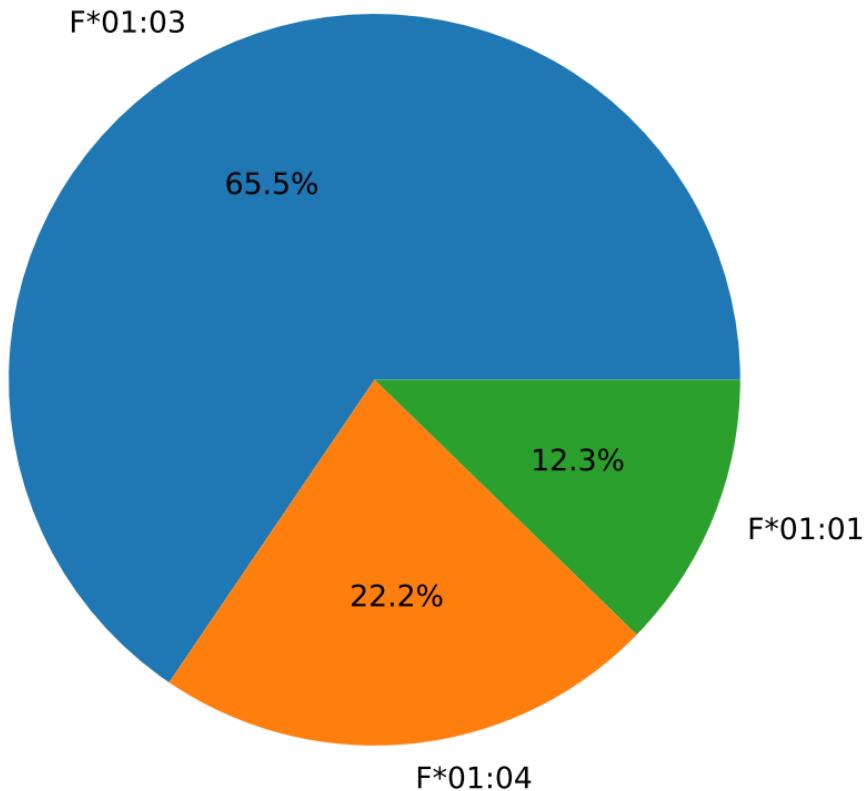
HLA-E predicted alleles ($\geq 10.0\%$ abundance)



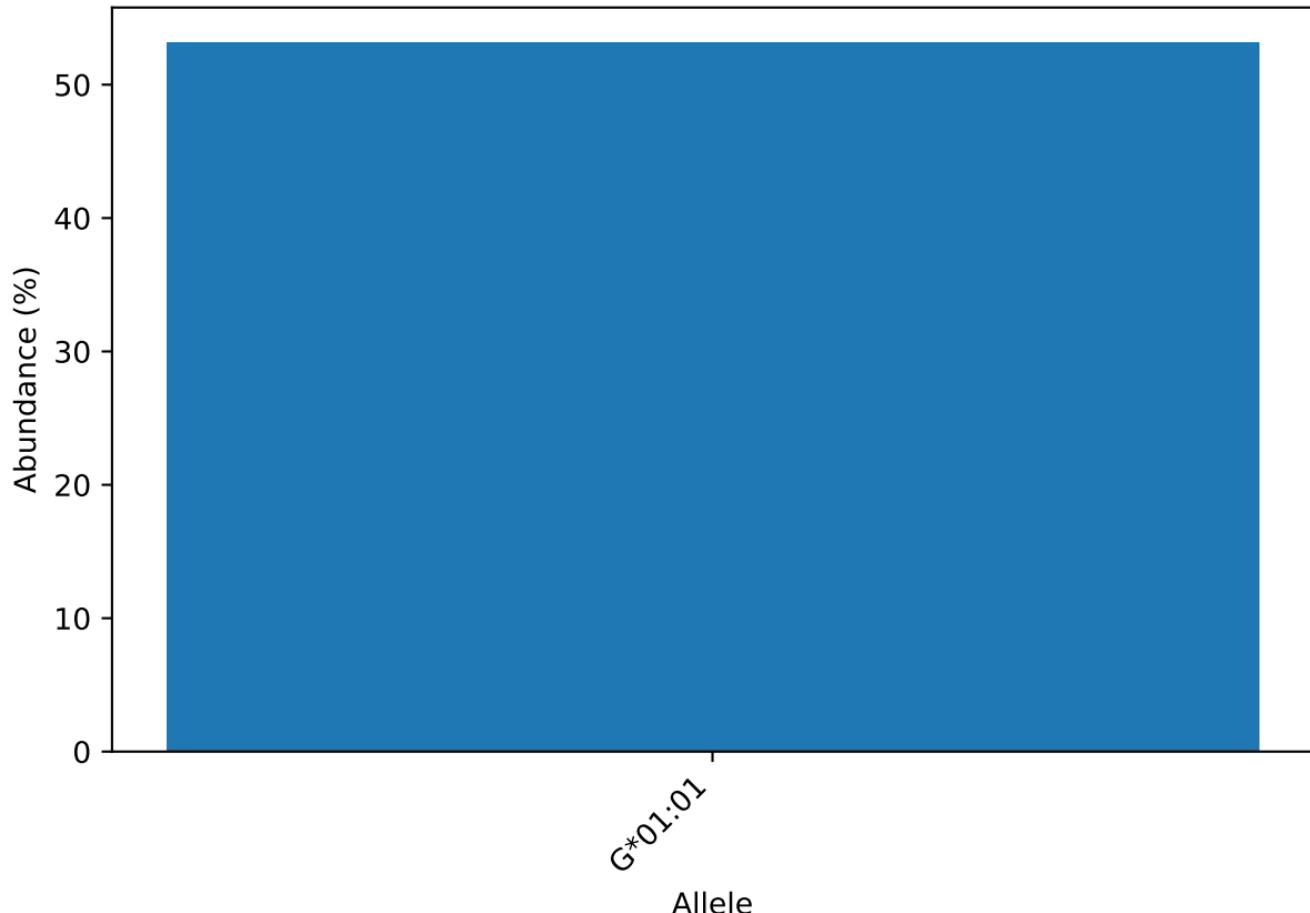
HLA-F predicted alleles ($\geq 10.0\%$ abundance)



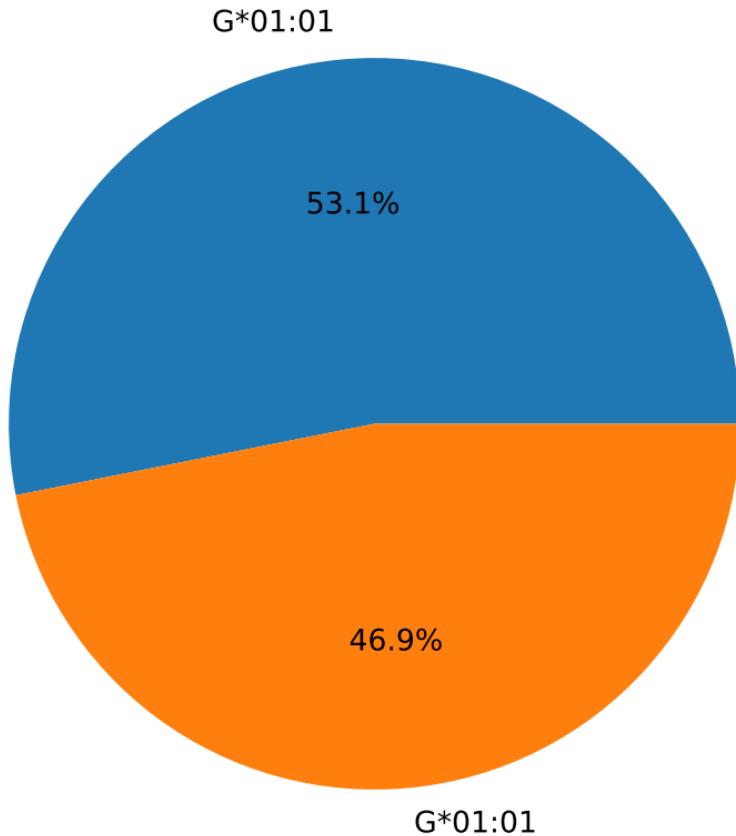
HLA-F predicted alleles ($\geq 10.0\%$ abundance)



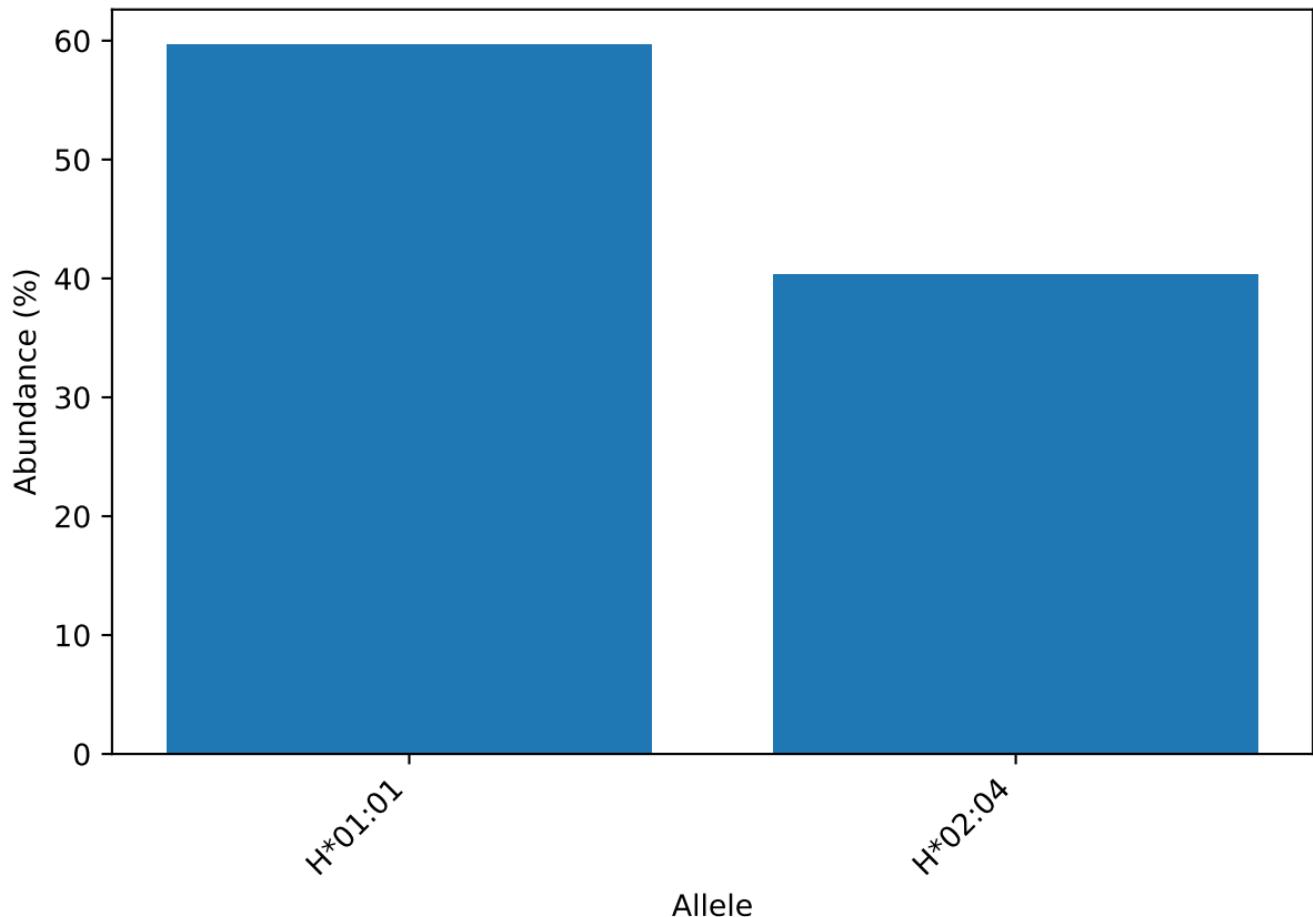
HLA-G predicted alleles ($\geq 10.0\%$ abundance)



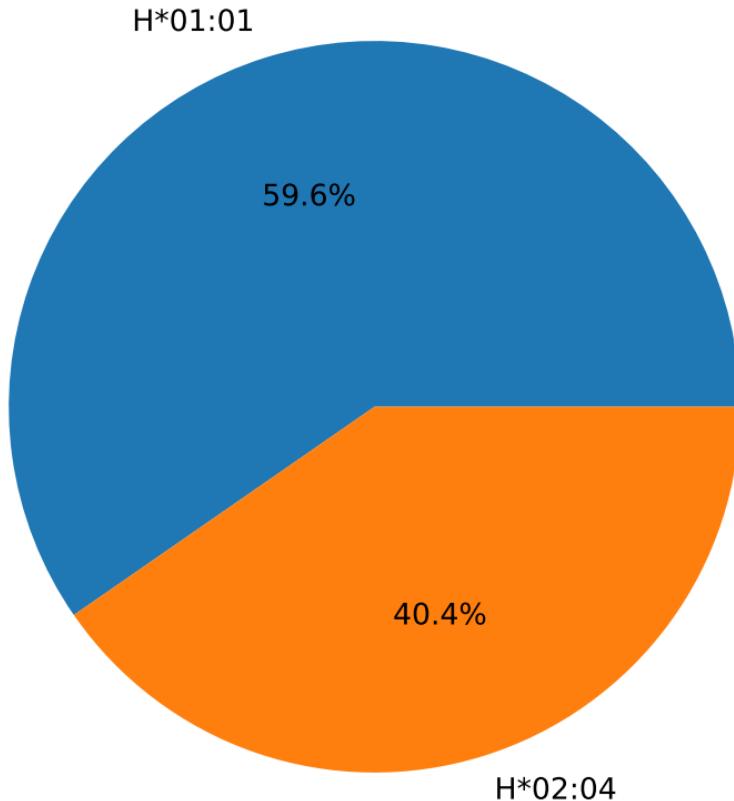
HLA-G predicted alleles ($\geq 10.0\%$ abundance)



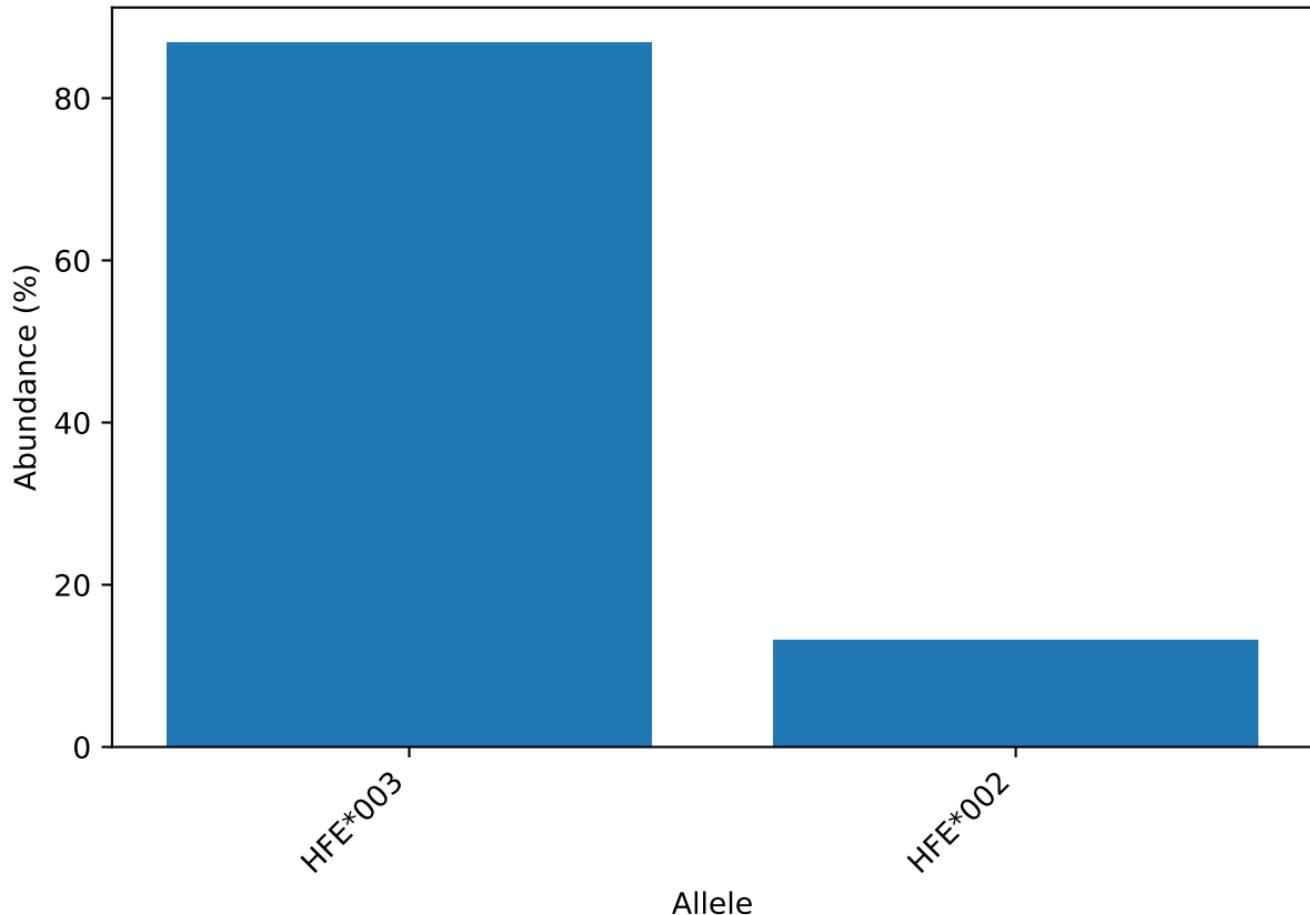
HLA-H predicted alleles ($\geq 10.0\%$ abundance)



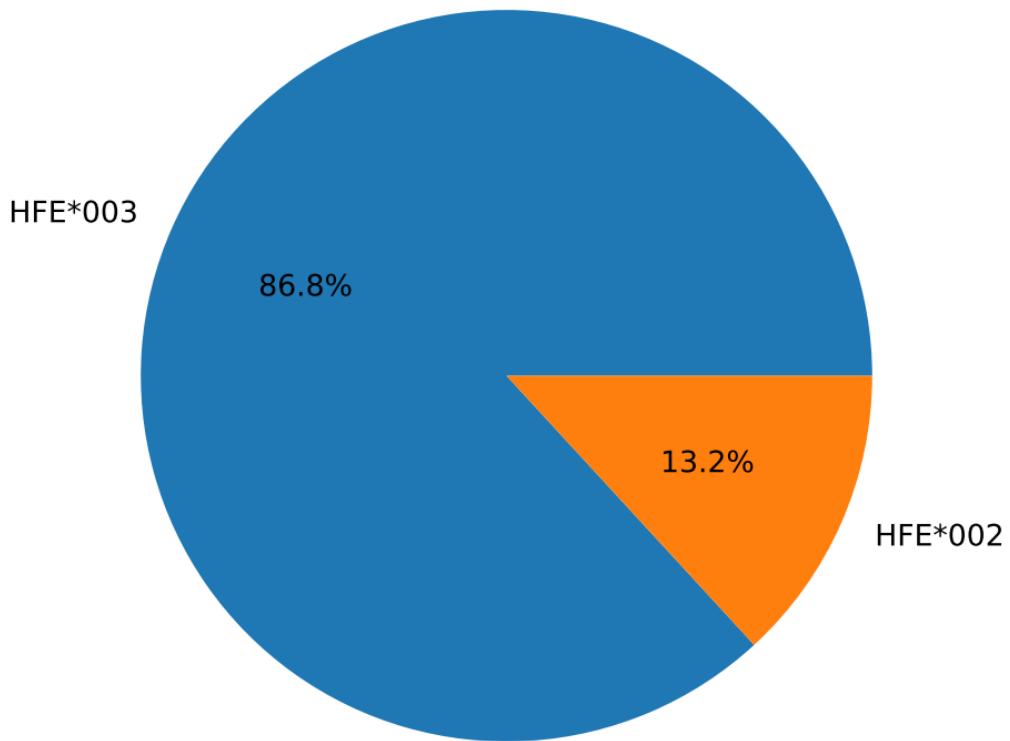
HLA-H predicted alleles ($\geq 10.0\%$ abundance)



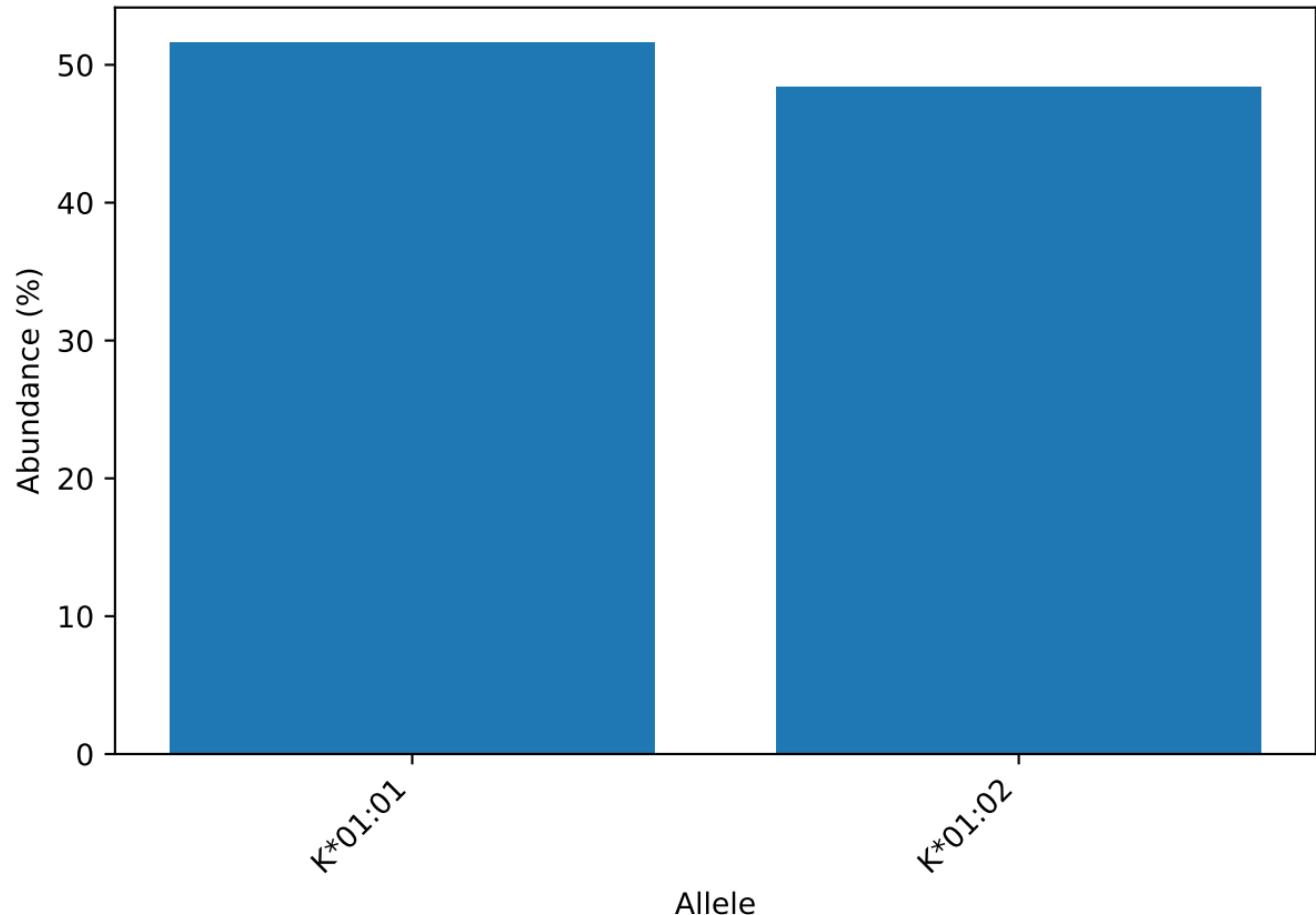
HLA-HFE predicted alleles ($\geq 10.0\%$ abundance)



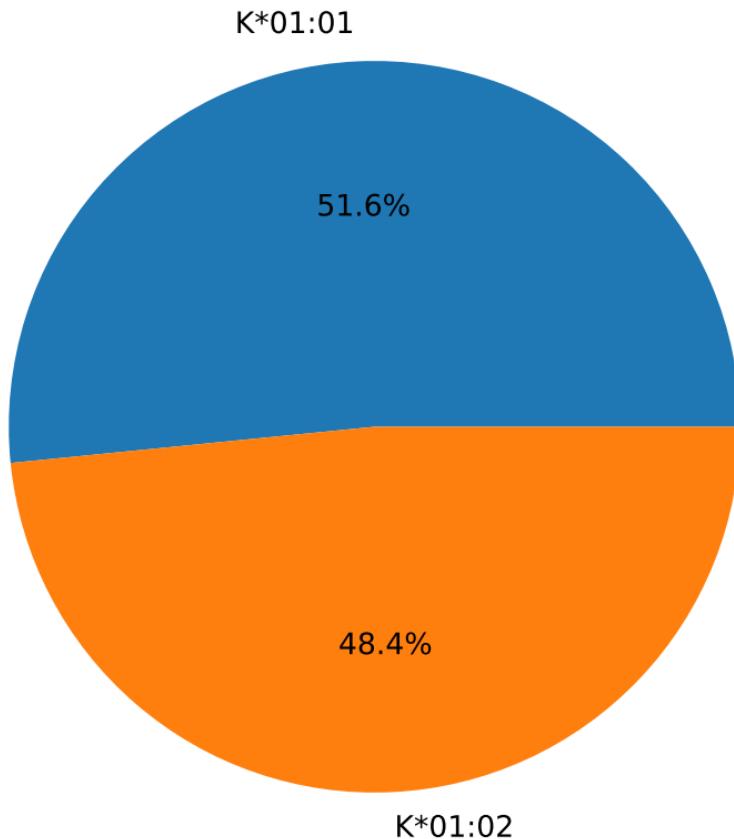
HLA-HFE predicted alleles ($\geq 10.0\%$ abundance)



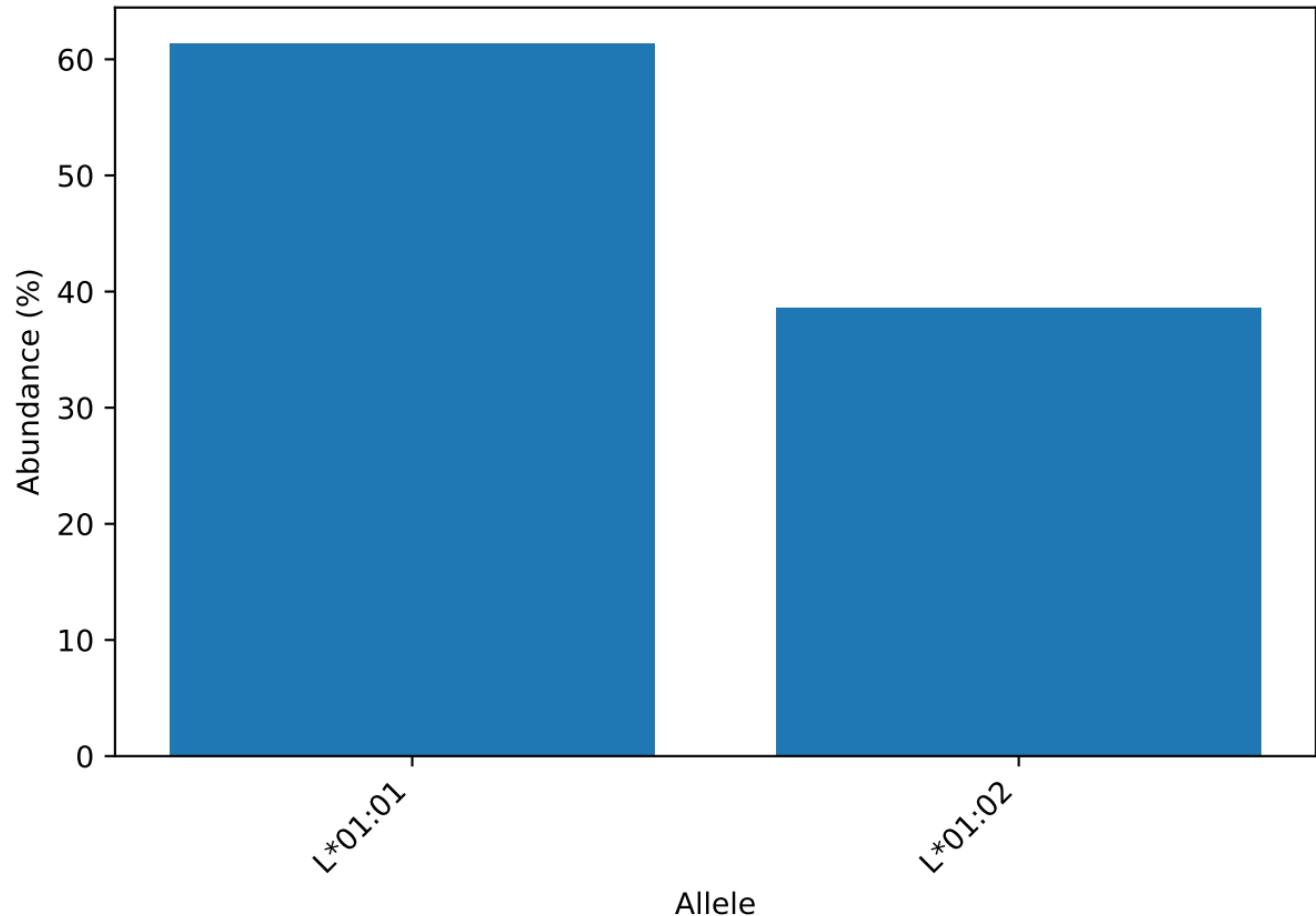
HLA-K predicted alleles ($\geq 10.0\%$ abundance)



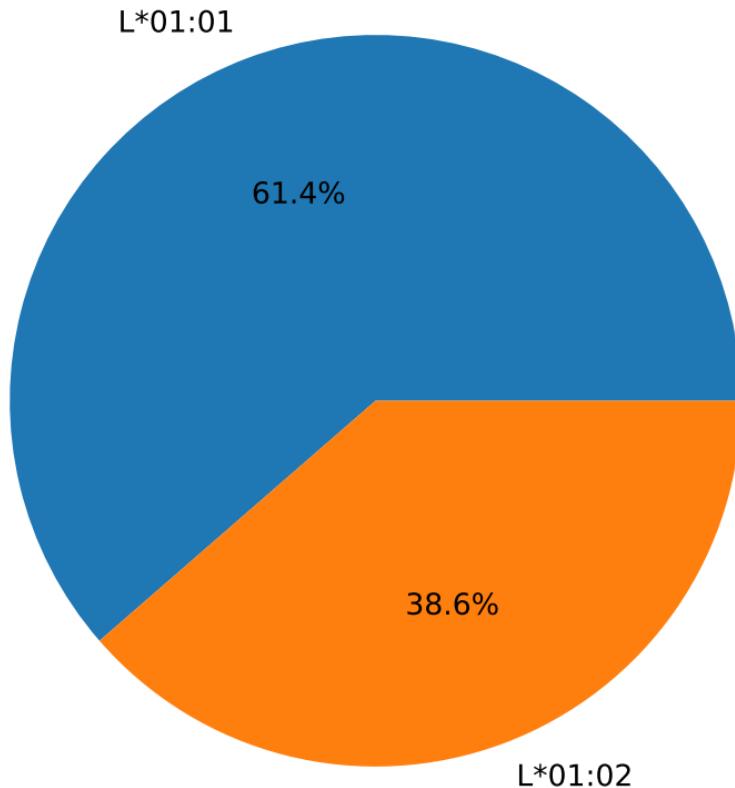
HLA-K predicted alleles ($\geq 10.0\%$ abundance)



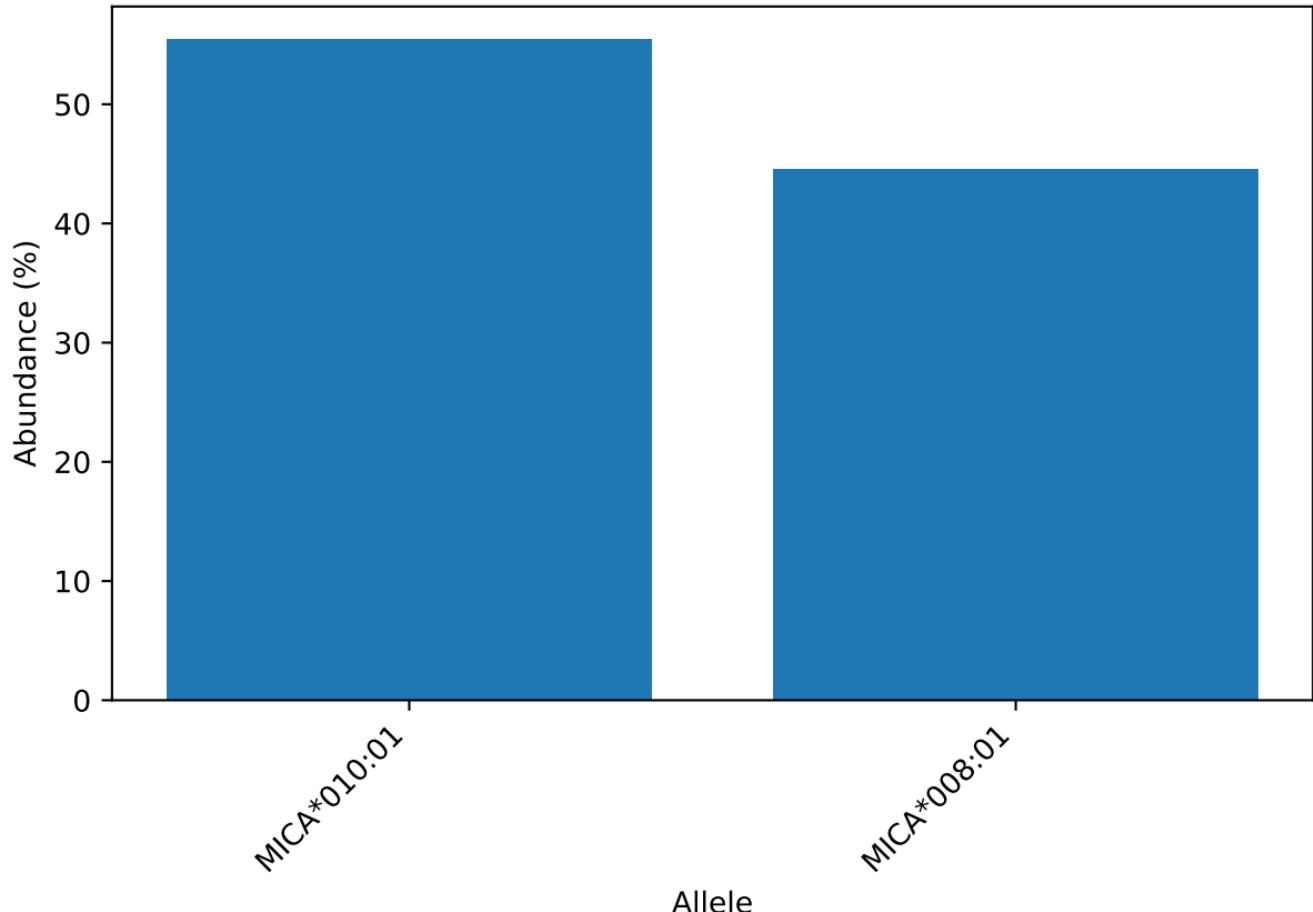
HLA-L predicted alleles ($\geq 10.0\%$ abundance)



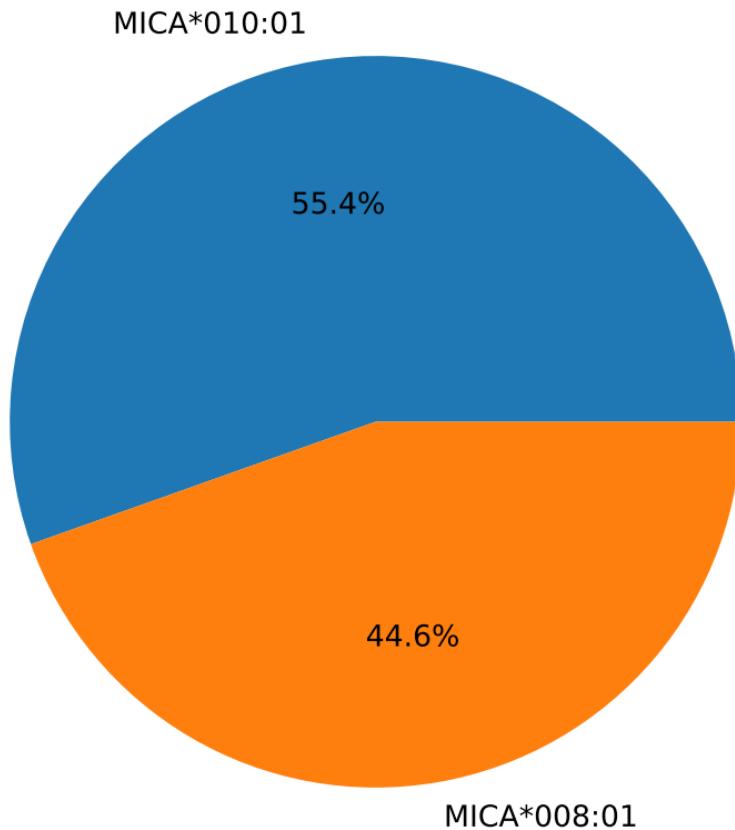
HLA-L predicted alleles ($\geq 10.0\%$ abundance)



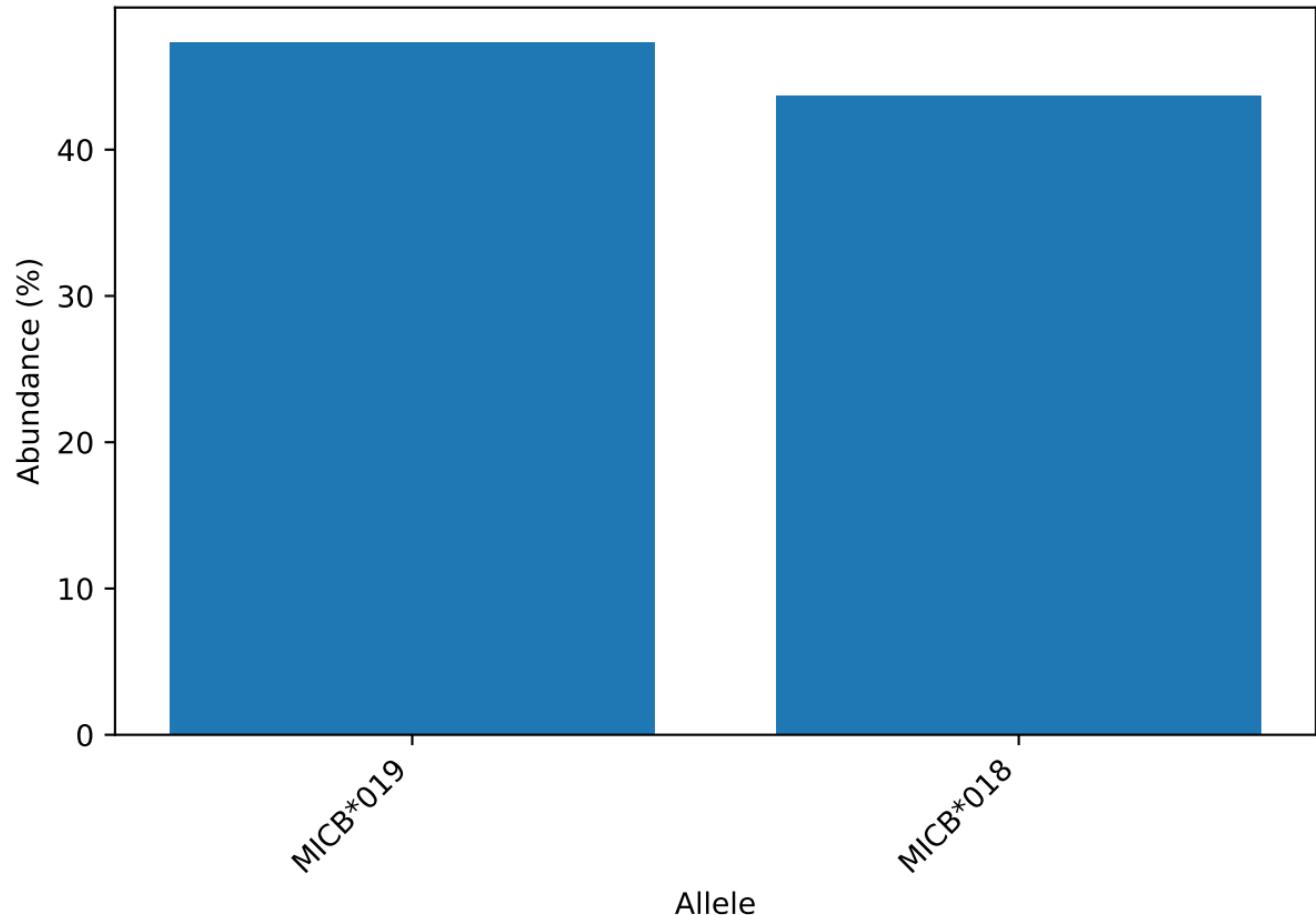
HLA-MICA predicted alleles ($\geq 10.0\%$ abundance)



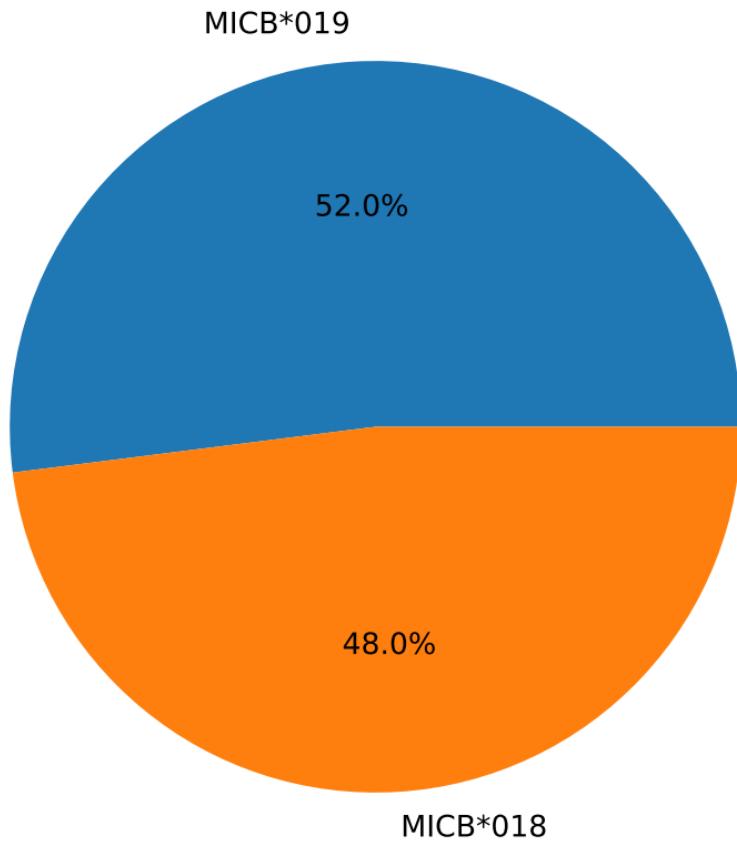
HLA-MICA predicted alleles ($\geq 10.0\%$ abundance)



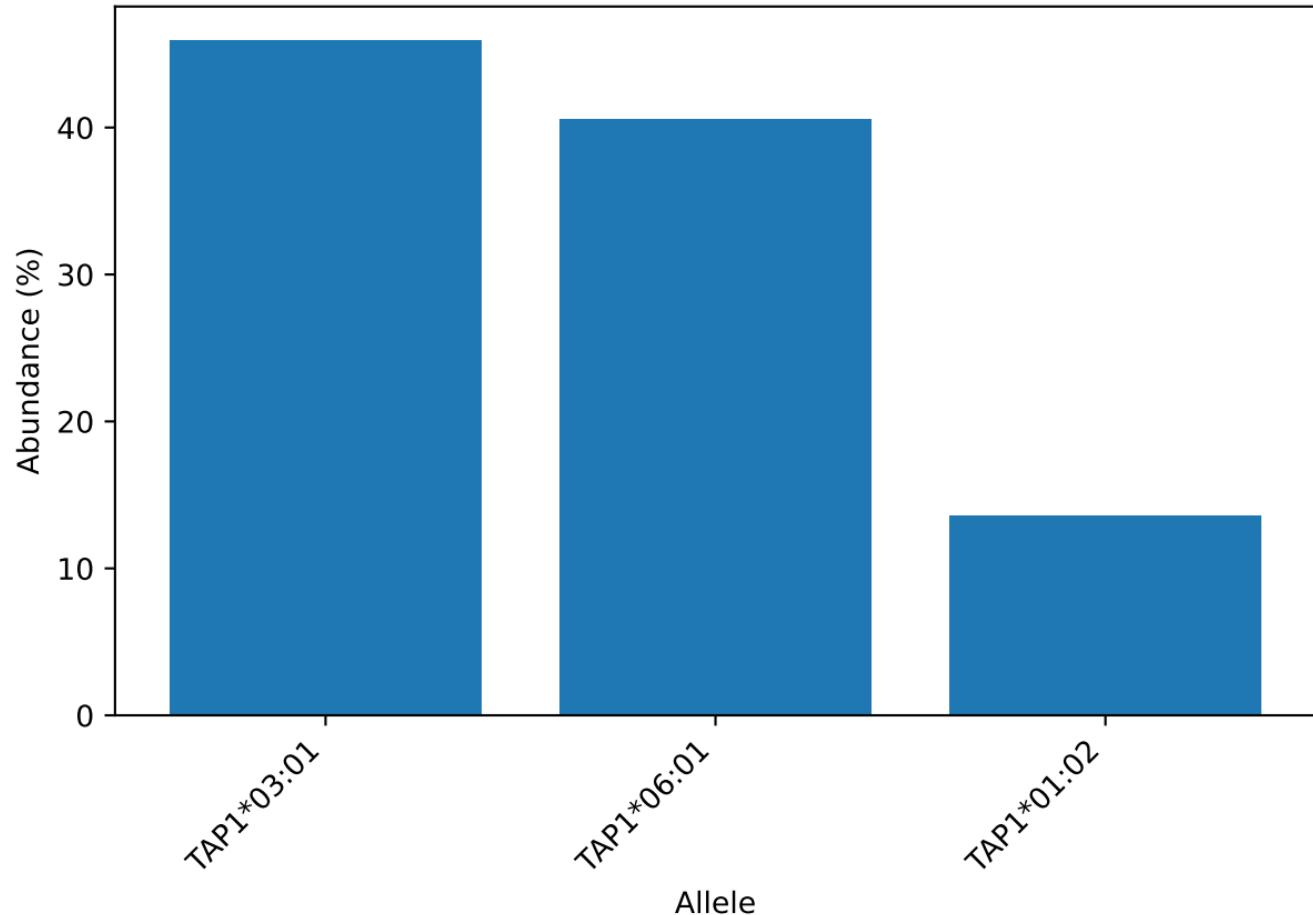
HLA-MICB predicted alleles ($\geq 10.0\%$ abundance)



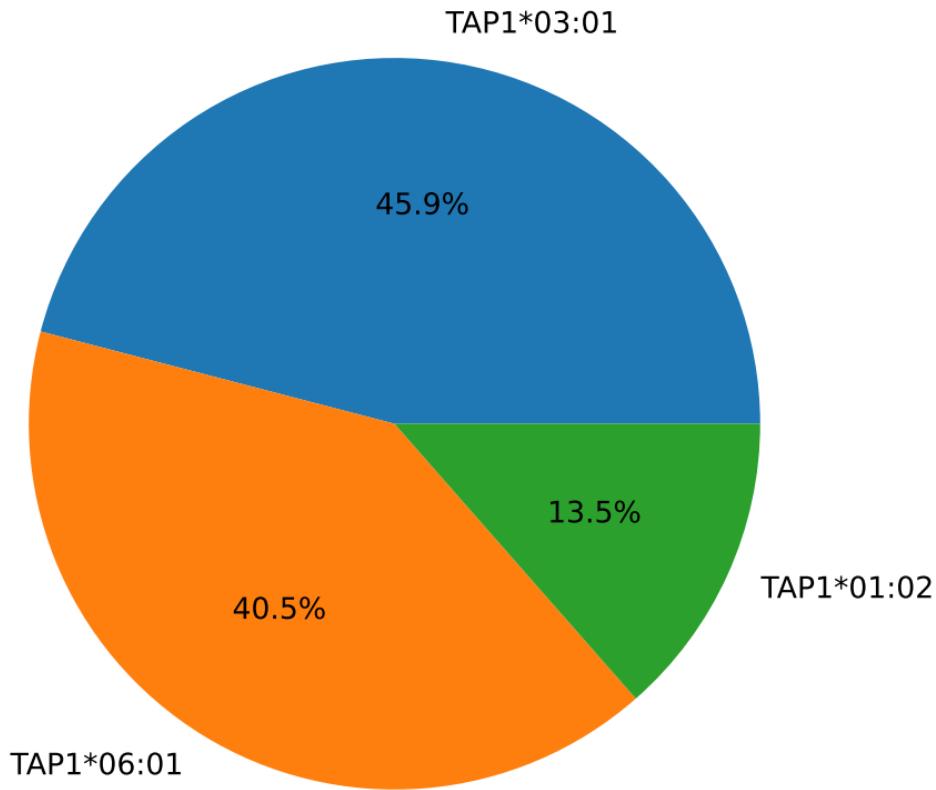
HLA-MICB predicted alleles ($\geq 10.0\%$ abundance)



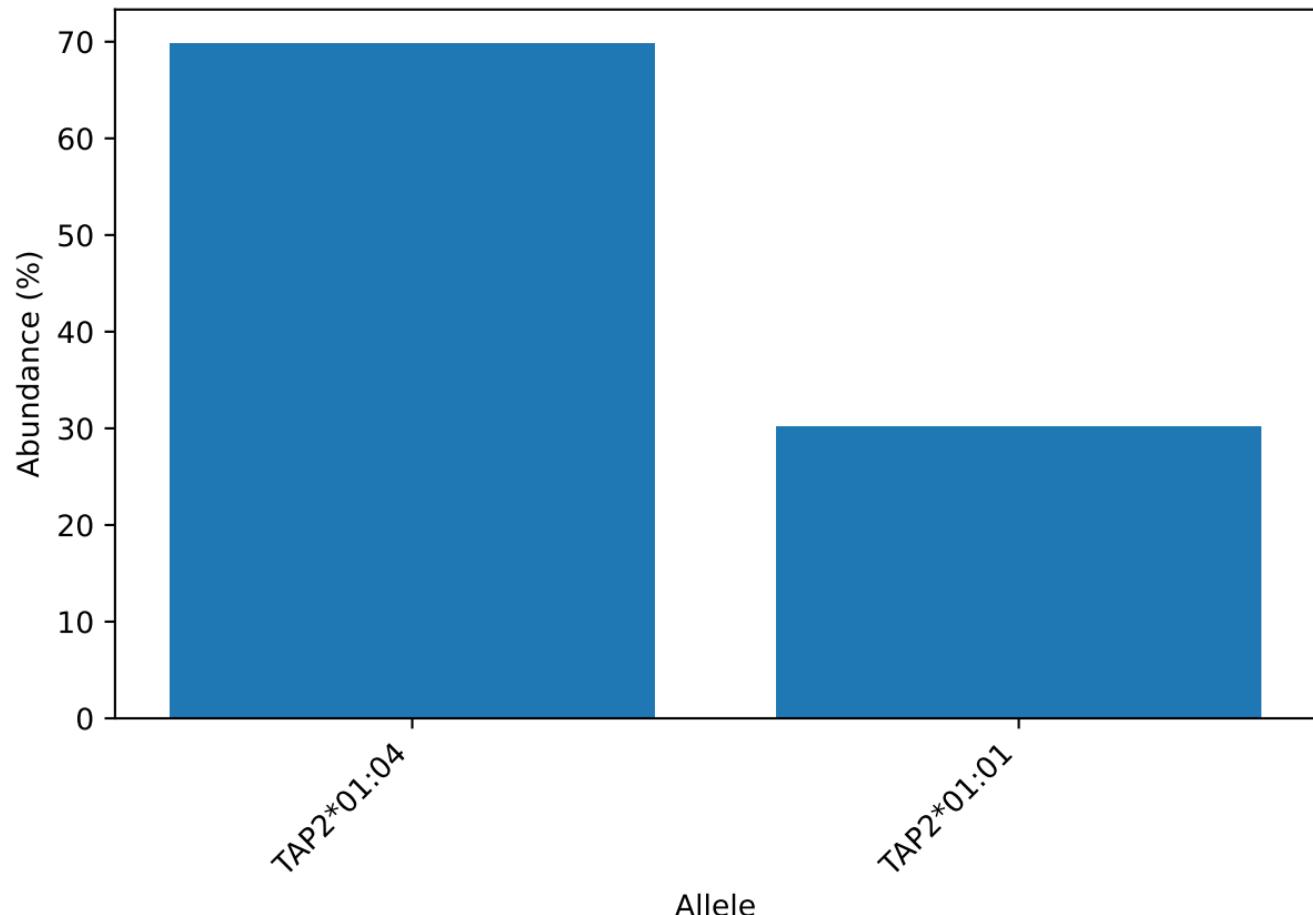
HLA-TAP1 predicted alleles ($\geq 10.0\%$ abundance)



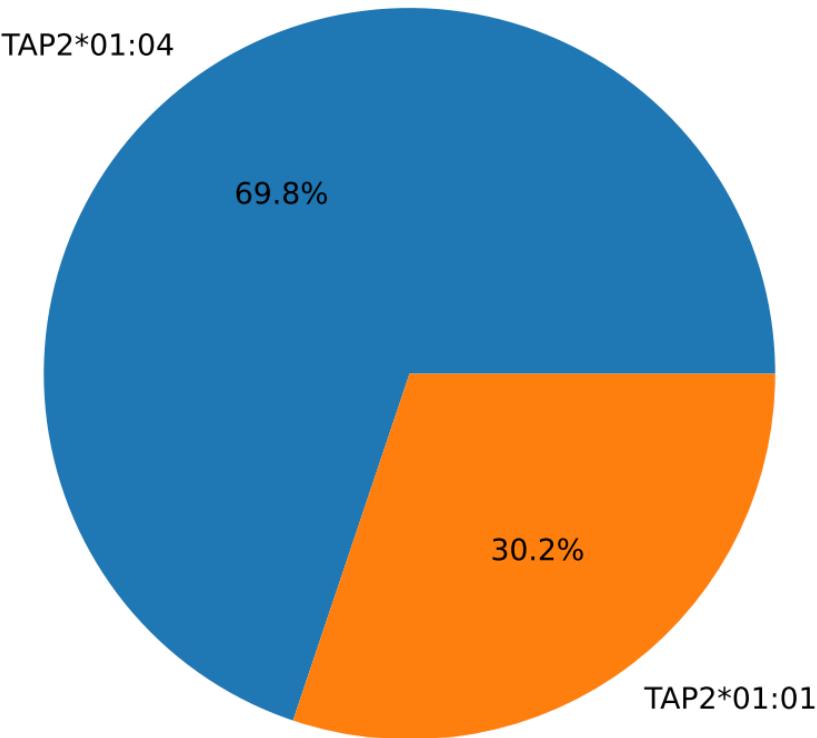
HLA-TAP1 predicted alleles ($\geq 10.0\%$ abundance)



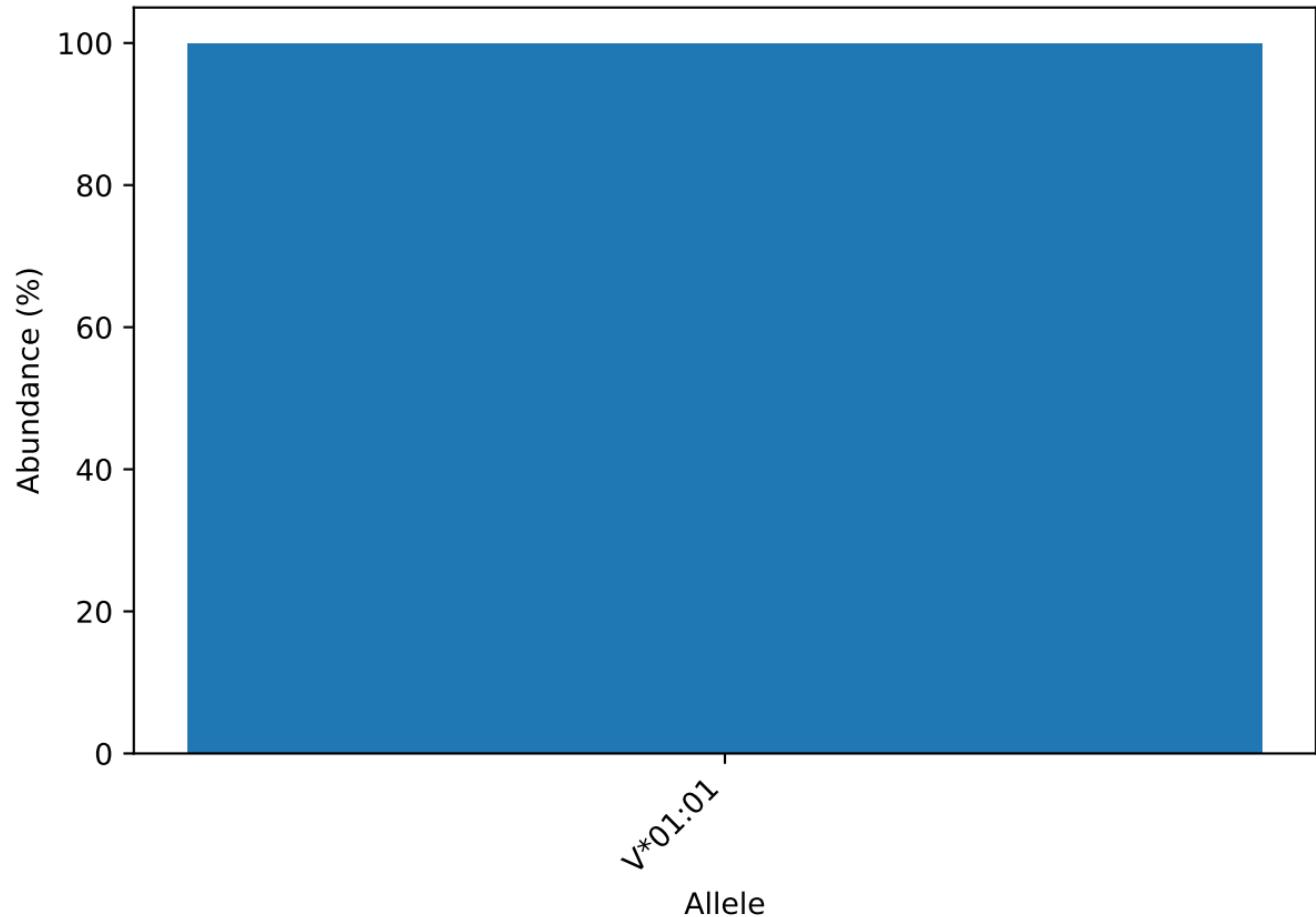
HLA-TAP2 predicted alleles ($\geq 10.0\%$ abundance)



HLA-TAP2 predicted alleles ($\geq 10.0\%$ abundance)



HLA-V predicted alleles ($\geq 10.0\%$ abundance)



HLA-V predicted alleles ($\geq 10.0\%$ abundance)

