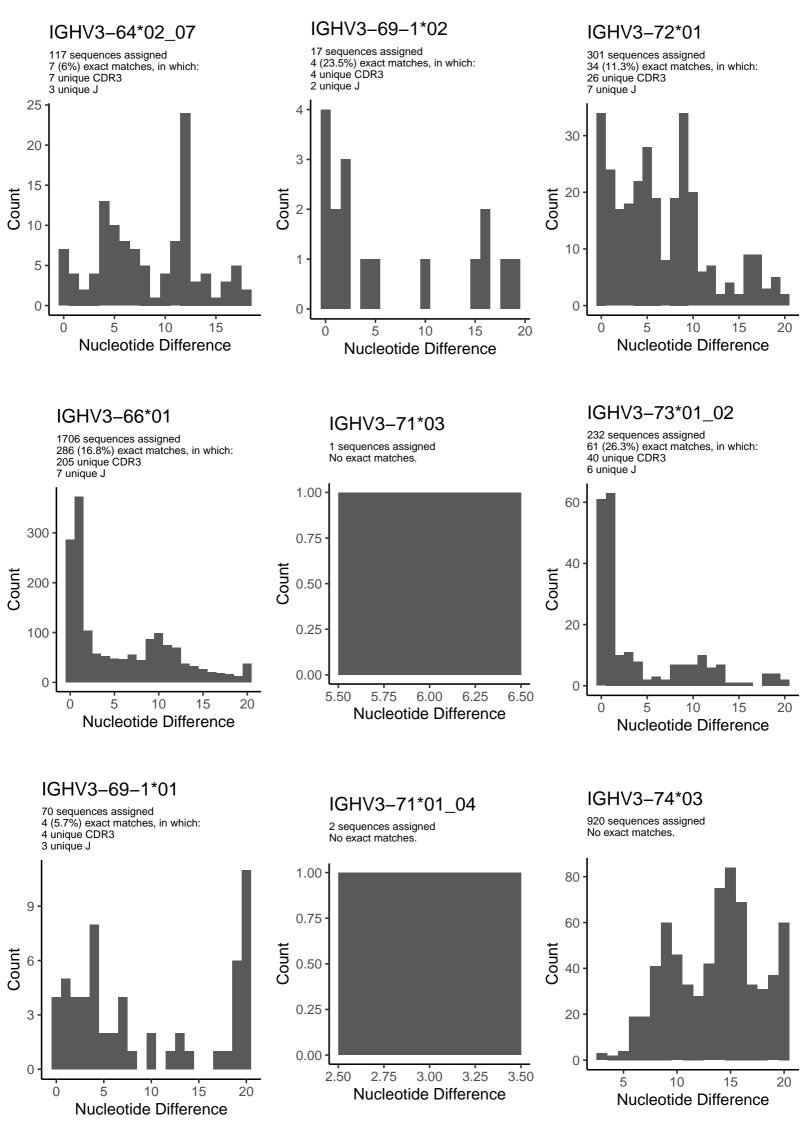
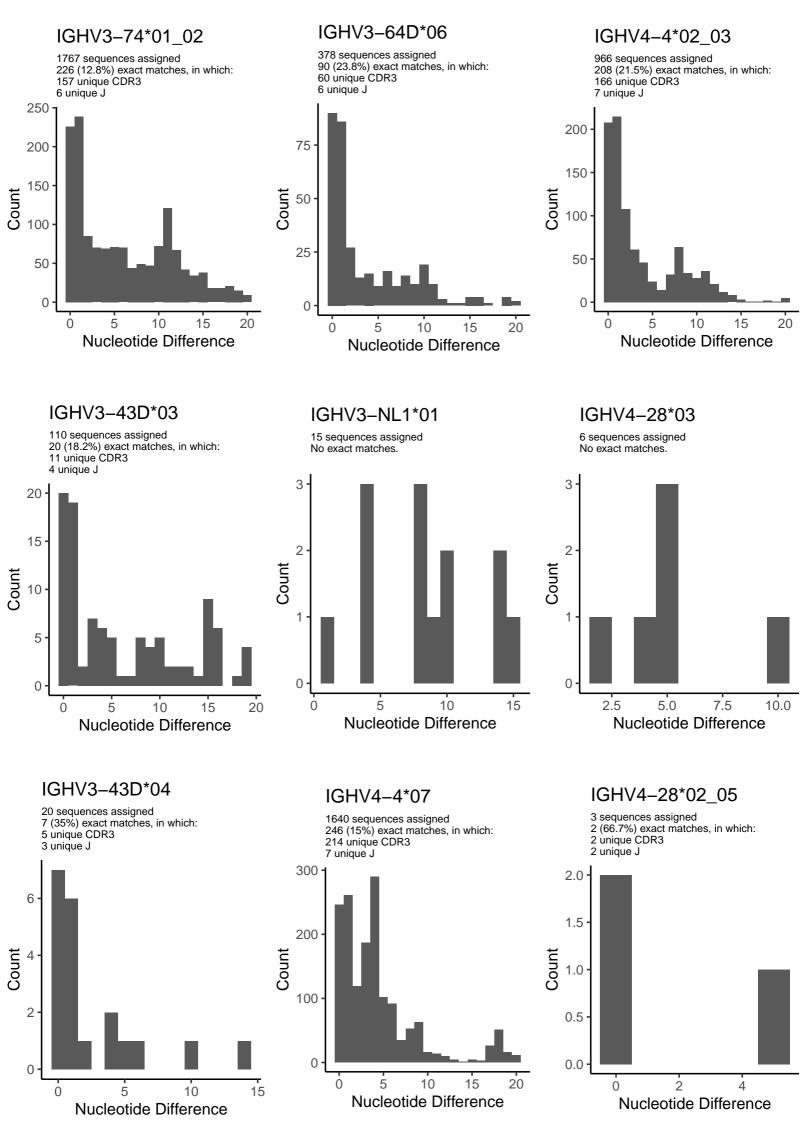
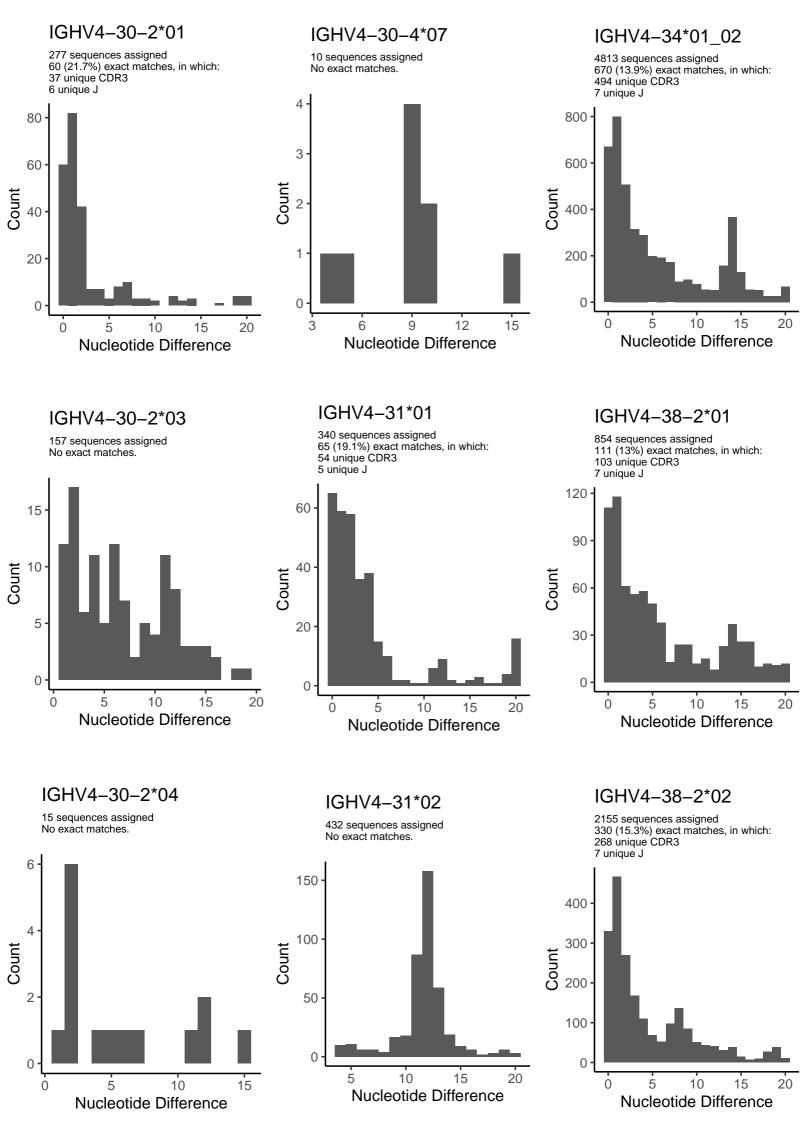
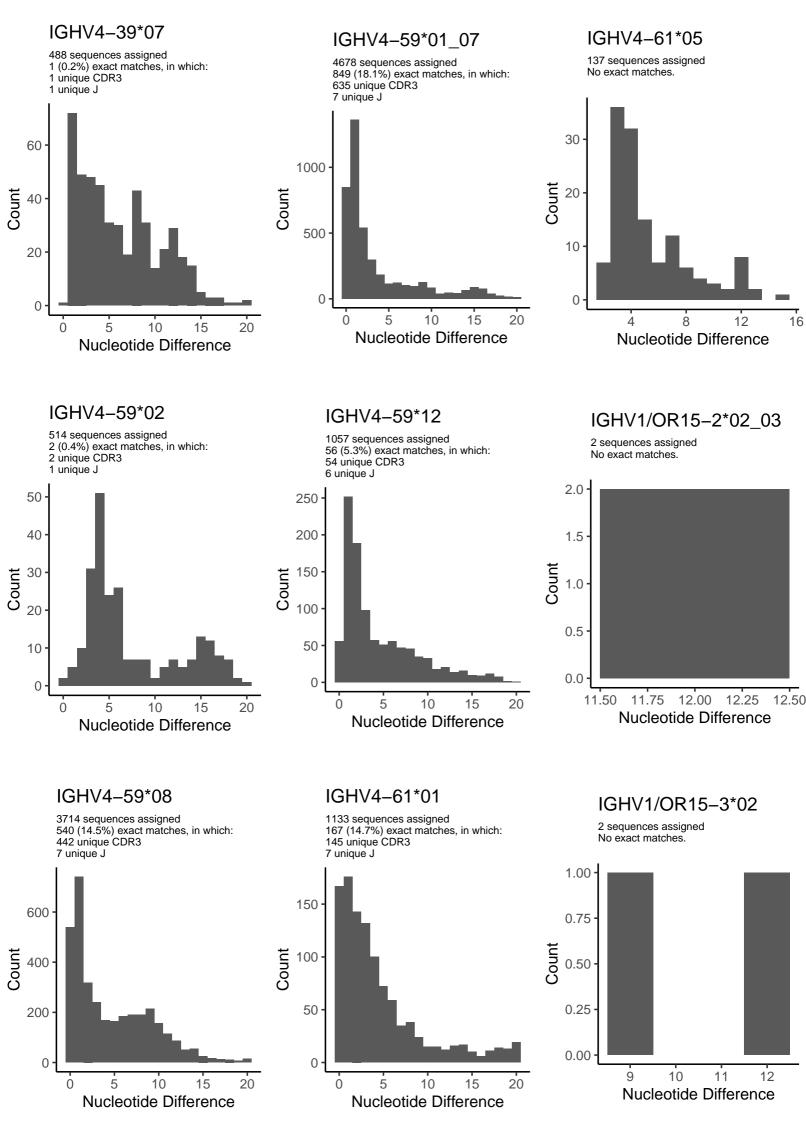


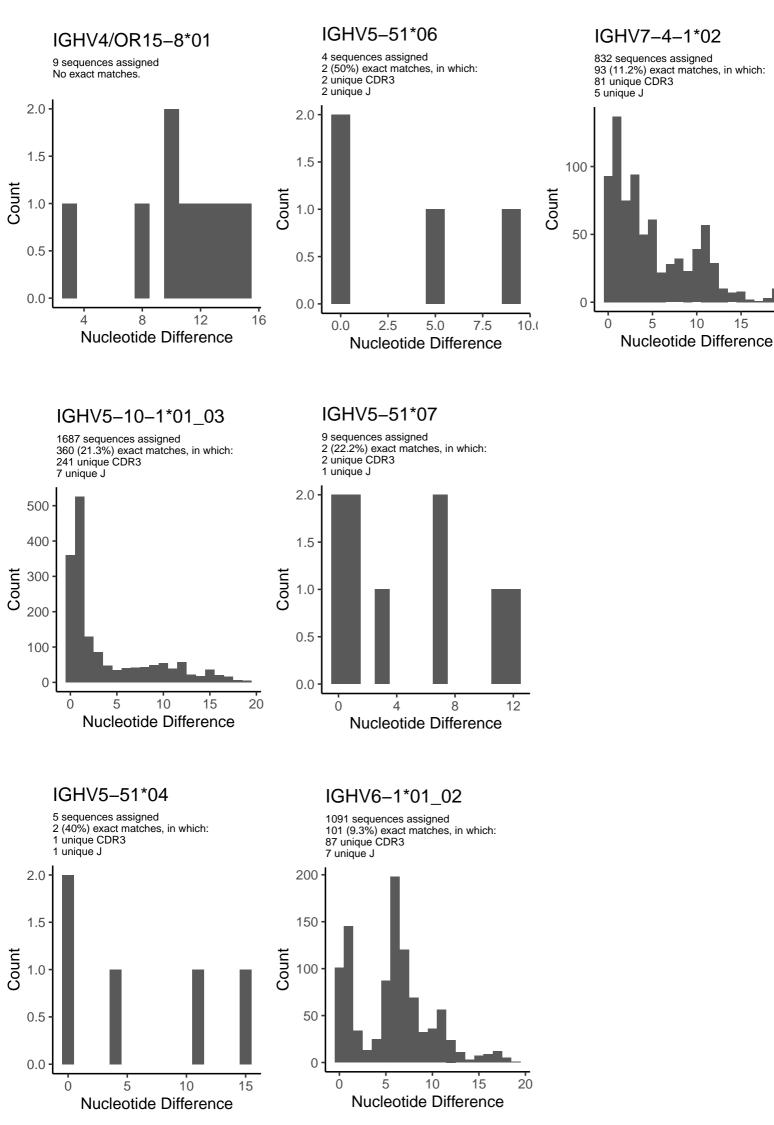
## IGHV3-53\*01\_02 IGHV3-48\*02 IGHV3-49\*04 429 sequences assigned 143 (33.3%) exact matches, in which: 2437 sequences assigned 504 (20.7%) exact matches, in which: 1241 sequences assigned 211 (17%) exact matches, in which: 307 unique CDR3 138 unique CDR3 104 unique CDR3 7 unique J 7 unique J 6 unique J 150 200 400 150 100 Count Count 100 200 50 50 0 0 0 5 10 15 20 5 10 15 20 10 0 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-52\*01\_03 IGHV3-64\*01 IGHV3-48\*03 63 sequences assigned 365 sequences assigned 2610 sequences assigned 377 (14.4%) exact matches, in which: 4 (6.3%) exact matches, in which: 73 (20%) exact matches, in which: 4 unique CDR3 50 unique CDR3 248 unique CDR3 3 unique J 4 unique J 7 unique J 300 15 Count Count 40 200 10 100 20 5 0 0 0 15 20 0 5 10 10 15 20 0 15 0 10 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-48\*04 IGHV3-53\*04 IGHV3-64\*04 408 sequences assigned 395 sequences assigned 127 sequences assigned 28 (6.9%) exact matches, in which: 128 (32.4%) exact matches, in which: No exact matches. 23 unique CDR3 93 unique CDR3 6 unique J 5 unique J 15 40 100 10 Count 30 Count 20 50 5 10 0 0 0 5 20 10 15 0 10 15 0 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

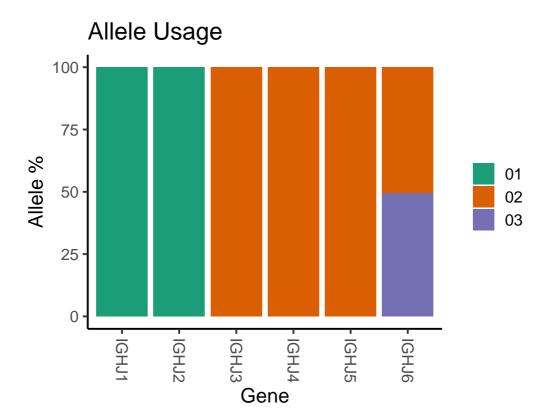




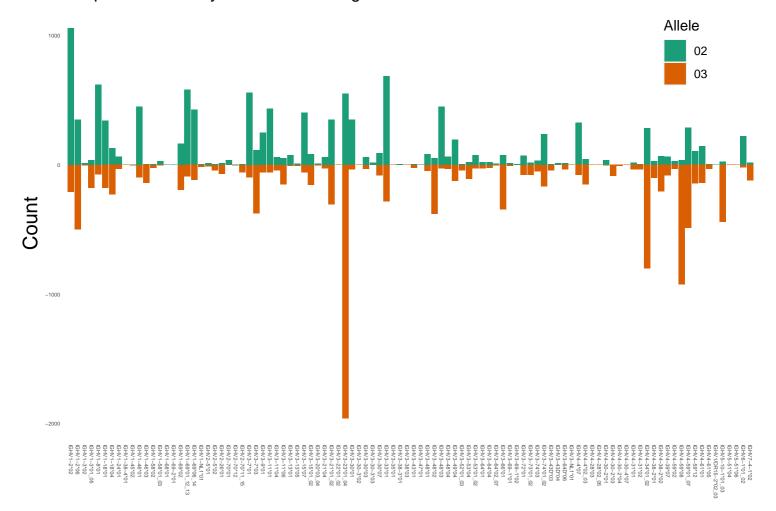








## Sequence Count by IGHJ6 allele usage



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