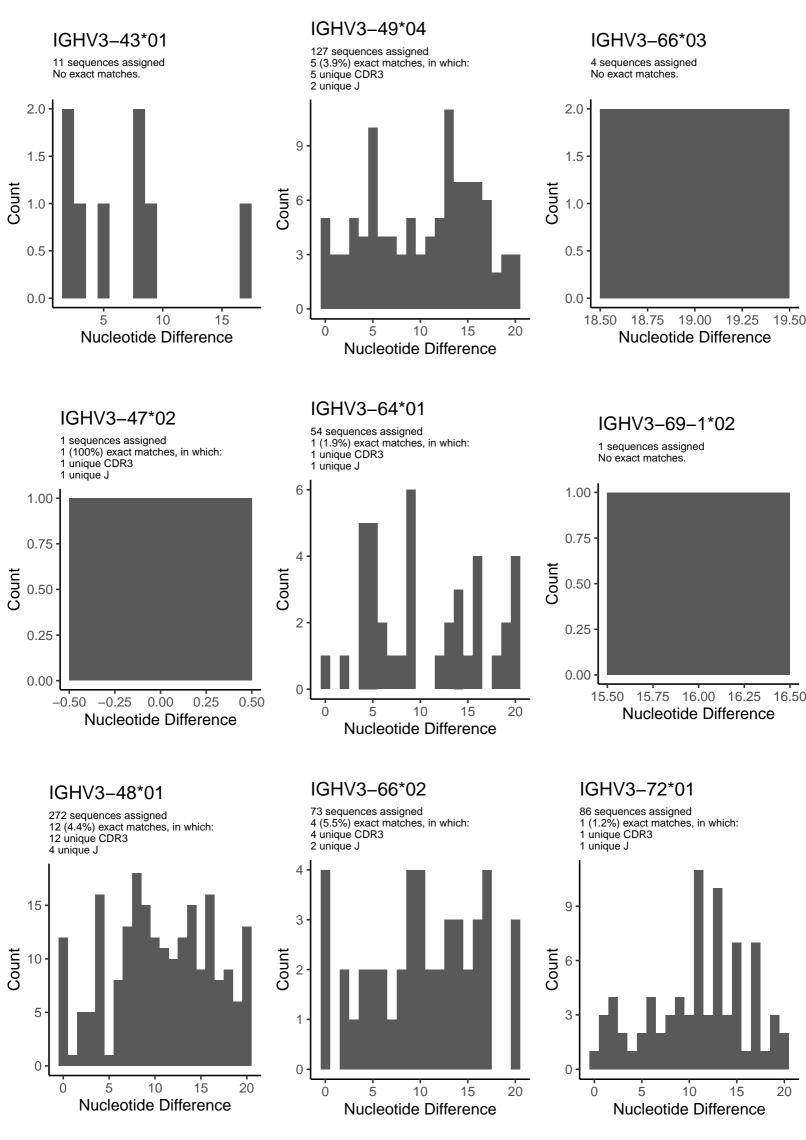


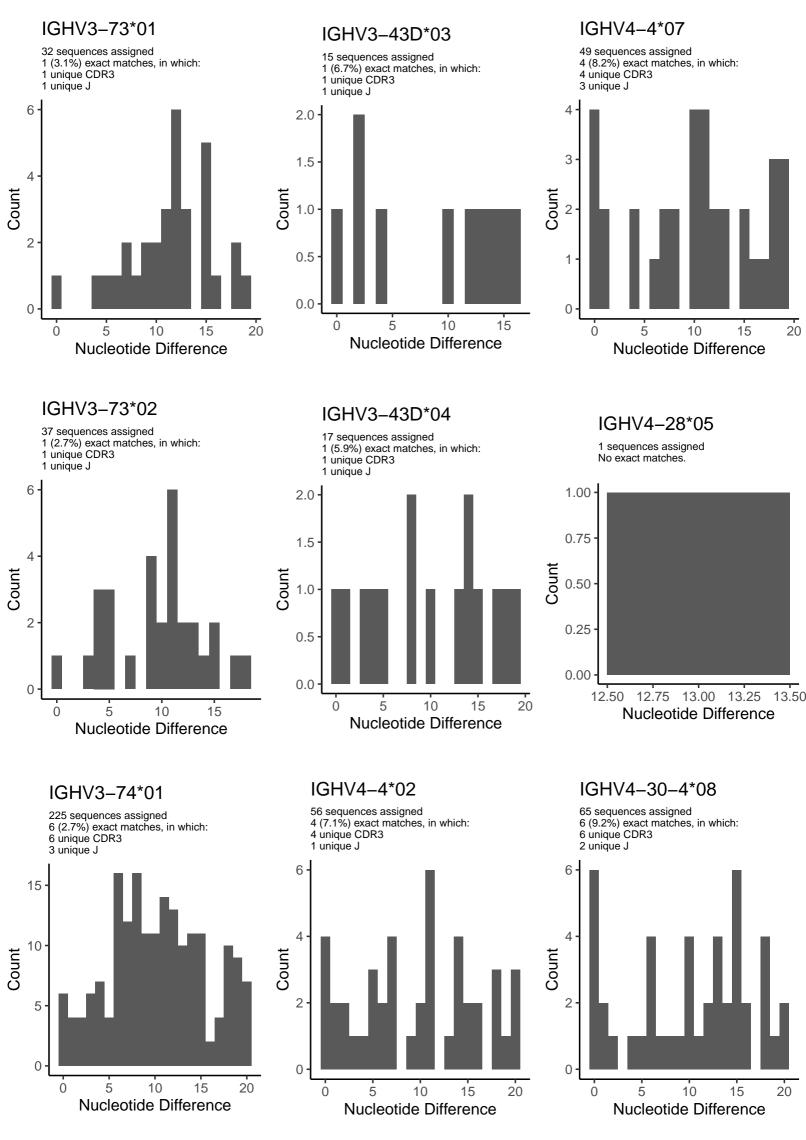
IGHV3-21*01 IGHV3-23*01 IGHV3-11*04 141 sequences assigned 15 (10.6%) exact matches, in which: 308 sequences assigned 9 (2.9%) exact matches, in which: 82 sequences assigned 3 (3.7%) exact matches, in which: 9 unique CDR3 15 unique CDR3 3 ùniqué CDR3 3 unique J 4 unique J 2 unique J 15 10.0 20 7.5 15 10 Count Count 5.0 10 5 2.5 5 0.0 0 0 20 10 15 0 10 15 20 10 15 5 5 **Nucleotide Difference Nucleotide Difference Nucleotide Difference** IGHV3-23*04 IGHV3-15*01 IGHV3-21*02 327 sequences assigned 146 sequences assigned 18 sequences assigned 17 (5.2%) exact matches, in which: 4 (2.7%) exact matches, in which: No exact matches. 17 unique CDR3 4 ùniqué CDR3 4 unique J 2 unique J 2.0 10.0 20 1.5 7.5 Count Count 1.0 5.0 10 0.5 2.5 5 0.0 0.0 0 20 10 15 20 15 10 10 15 20 0 5 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV3-20*04 IGHV3-30*02 IGHV3-21*03 83 sequences assigned 2 (2.4%) exact matches, in which: 2 unique CDR3 448 sequences assigned 78 sequences assigned 19 (4.2%) exact matches, in which: 10 (12.8%) exact matches, in which: 19 unique CDR3 10 unique CDR3 1 unique J 4 unique J 4 unique J 25 5 10.0 20 4 7.5 Count Count 5.0 10 2 2.5 5 0.0 0 0 20 10 0 5 10 15 20 20 0 5 10 15

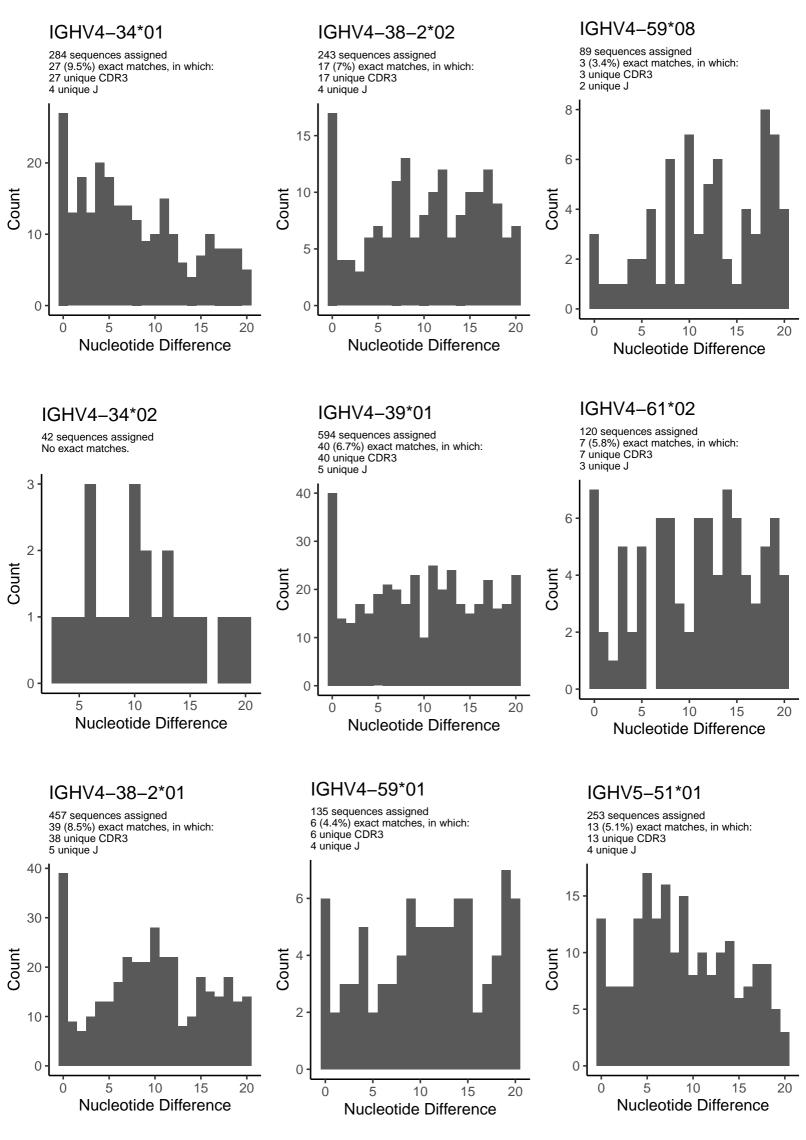
Nucleotide Difference

Nucleotide Difference

Nucleotide Difference

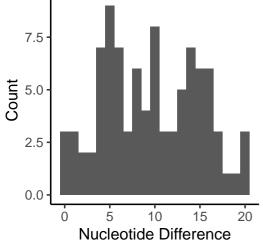






IGHV6-1*01

96 sequences assigned 3 (3.1%) exact matches, in which: 3 unique CDR3 3 unique J



IGHV7-4-1*02

92 sequences assigned 4 (4.3%) exact matches, in which: 4 unique CDR3 3 unique J

