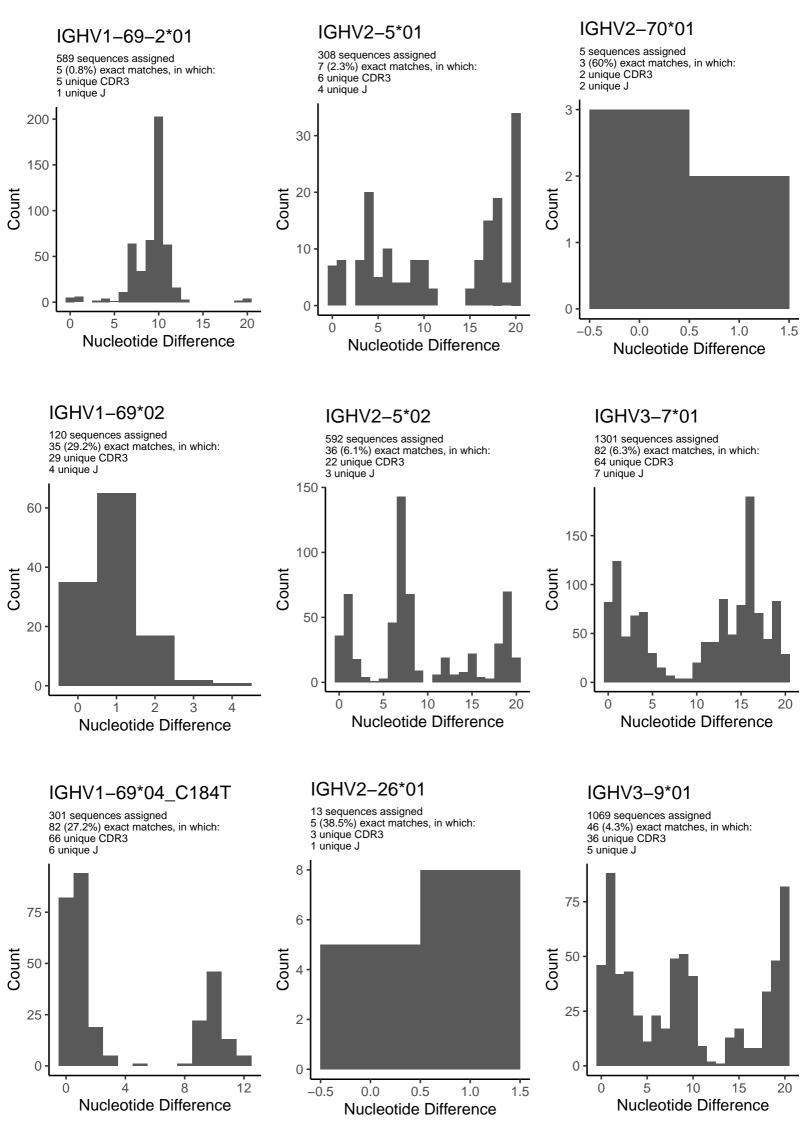
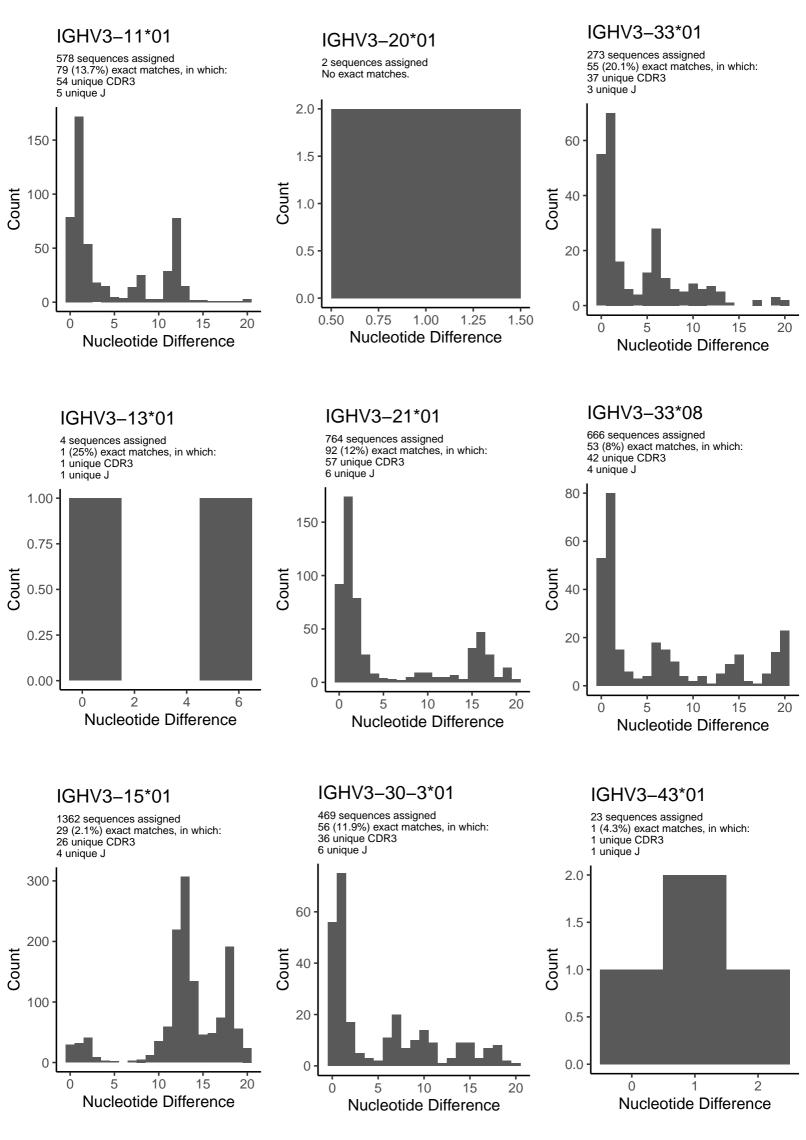
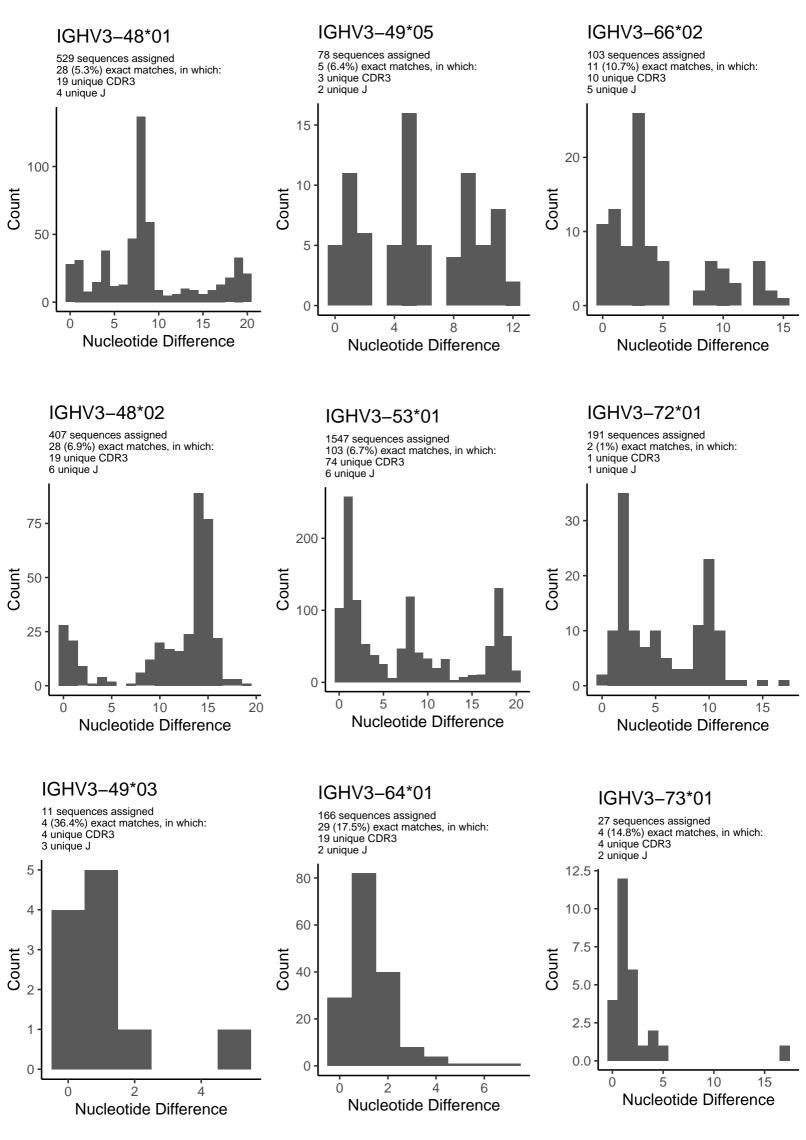
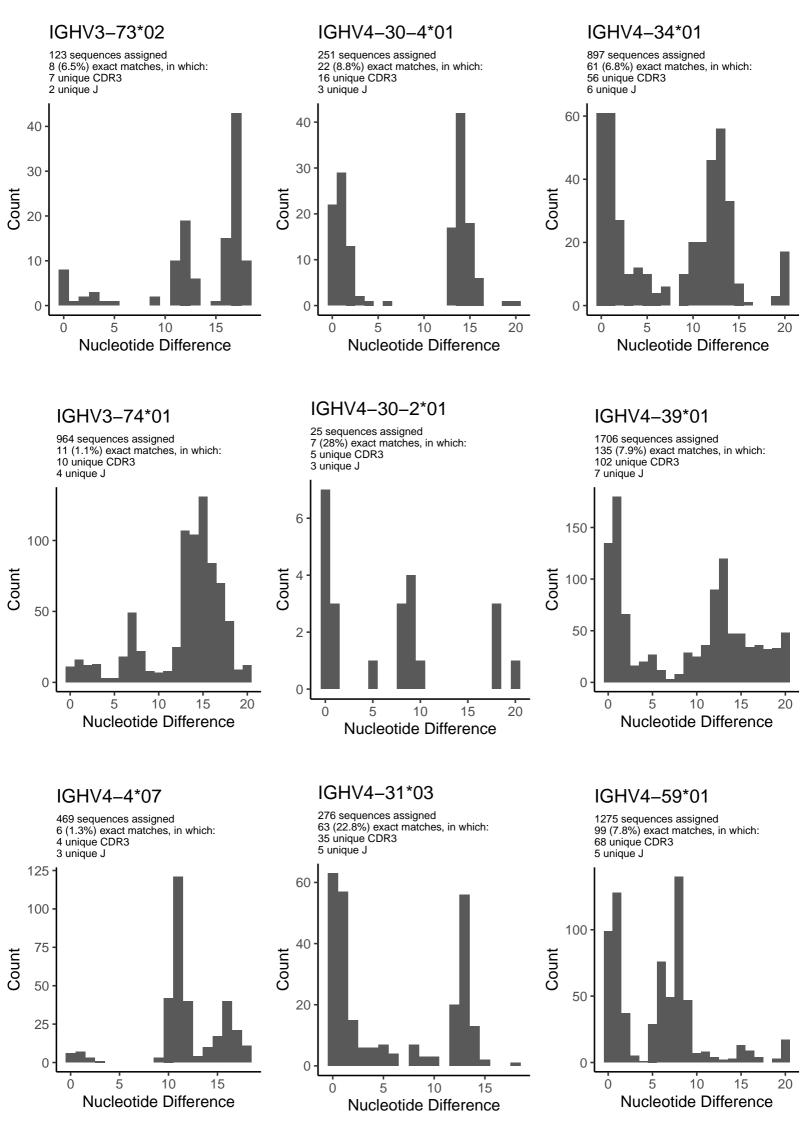
## IGHV1-46\*03 IGHV1-2\*02 IGHV1-18\*01 130 sequences assigned 3035 sequences assigned 1028 sequences assigned 158 (15.4%) exact matches, in which: 99 unique CDR3 17 (13.1%) exact matches, in which: 48 (1.6%) exact matches, in which: 33 unique CDR3 10 unique CDR3 2 unique J 4 unique J 7 unique J 200 200 150 Count Count 10 100 100 5 50 0 0 0 10 15 20 0 5 10 15 20 10 15 5 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV1-58\*01 IGHV1-24\*01 IGHV1-3\*01 12 sequences assigned 4 (33.3%) exact matches, in which: 3 unique CDR3 201 sequences assigned 22 (10.9%) exact matches, in which: 613 sequences assigned 48 (7.8%) exact matches, in which: 20 unique CDR3 28 ùniqué CDR3 2 unique J 5 unique J 4 unique J 20 6 100 15 Count Count Count 10 50 2 5 0 0 0 10 15 20 0 5 3 0 0 2 3 **Nucleotide Difference Nucleotide Difference Nucleotide Difference** IGHV1-58\*02 IGHV1-46\*01 IGHV1-8\*01 16 sequences assigned 361 sequences assigned 710 sequences assigned 110 (15.5%) exact matches, in which: 7 (43.8%) exact matches, in which: 4 unique CDR3 39 (10.8%) exact matches, in which: 24 unique CDR3 81 unique CDR3 3 unique J 5 unique J 6 unique J 60 150 6 40 100 Count 50 20 2 0 0 0 10 15 0 20 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference Nucleotide Difference**









## IGHV4-61\*01 IGHV5-51\*03 279 sequences assigned 12 (4.3%) exact matches, in which: 7 unique CDR3 192 sequences assigned 27 (14.1%) exact matches, in which: 23 unique CDR3 4 unique J 2 unique J 30 60 20 40 Count Count 20 10 0 0 10 15 20 0 10 15 5 Nucleotide Difference Nucleotide Difference IGHV4-61\*02 IGHV6-1\*01 536 sequences assigned 636 sequences assigned 35 (5.5%) exact matches, in which: 59 (11%) exact matches, in which: 34 unique CDR3 18 unique CDR3 6 unique J 4 unique J 150 40 Count 100 20 50 0 0 10 15 0 0 5 10 15 20 **Nucleotide Difference** Nucleotide Difference IGHV5-51\*01 IGHV7-4-1\*02 1168 sequences assigned 36 (3.1%) exact matches, in which: 1044 sequences assigned 54 (5.2%) exact matches, in which: 32 uniqué CDR3 32 uniqué CDR3 4 unique J 6 unique J 200 -150 150 100 100 50 50 0 0

15

20

5

10

Nucleotide Difference

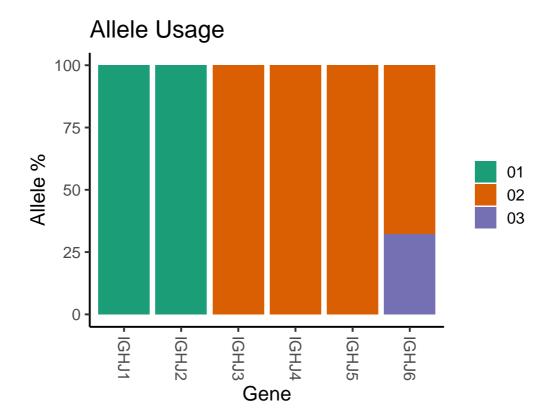
15

20

10

**Nucleotide Difference** 

5



## Sequence Count by IGHJ6 allele usage



