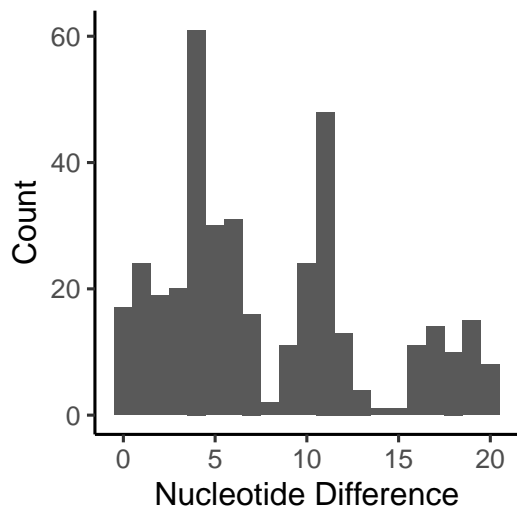


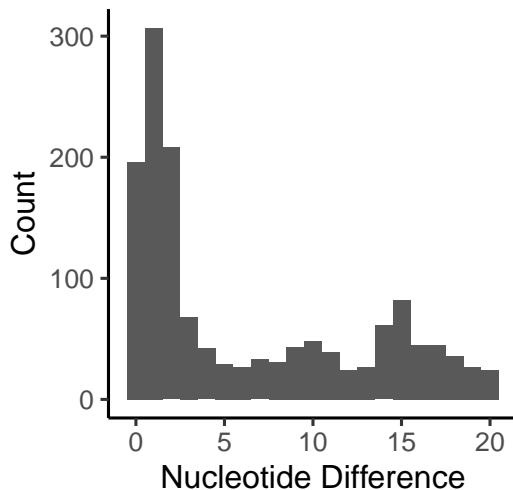
IGHV1-2*04

419 sequences assigned
17 (4.1%) exact matches, in which:
11 unique CDR3
4 unique J



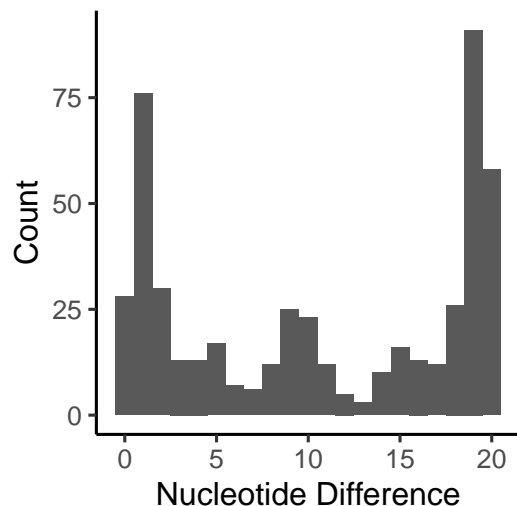
IGHV1-18*01

1990 sequences assigned
196 (9.8%) exact matches, in which:
109 unique CDR3
6 unique J



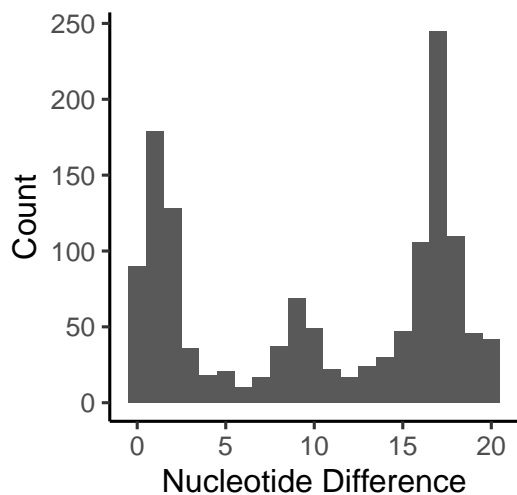
IGHV1-46*01

778 sequences assigned
28 (3.6%) exact matches, in which:
19 unique CDR3
5 unique J



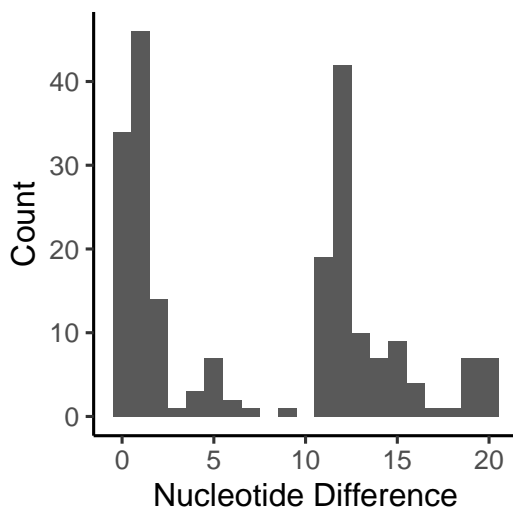
IGHV1-3*01

1726 sequences assigned
90 (5.2%) exact matches, in which:
62 unique CDR3
5 unique J



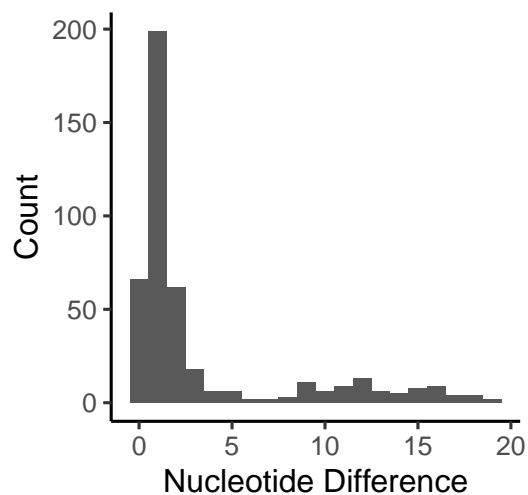
IGHV1-24*01

222 sequences assigned
34 (15.3%) exact matches, in which:
25 unique CDR3
4 unique J



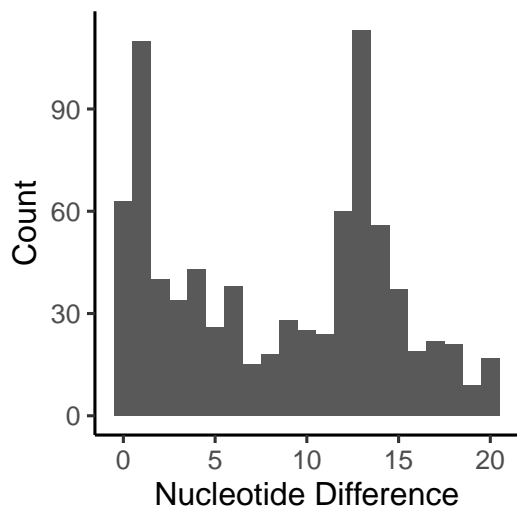
IGHV1-46*03

514 sequences assigned
66 (12.8%) exact matches, in which:
41 unique CDR3
4 unique J



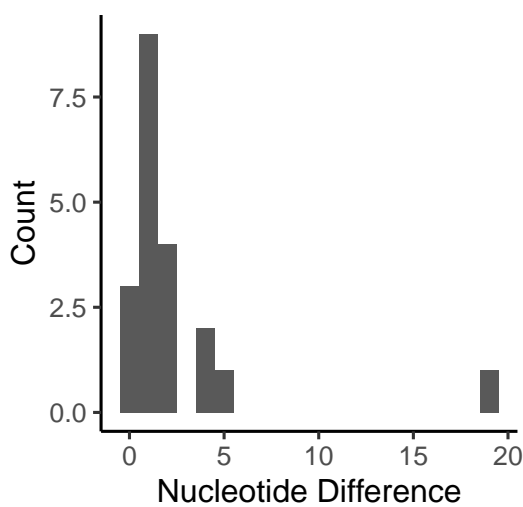
IGHV1-8*01

931 sequences assigned
63 (6.8%) exact matches, in which:
47 unique CDR3
5 unique J



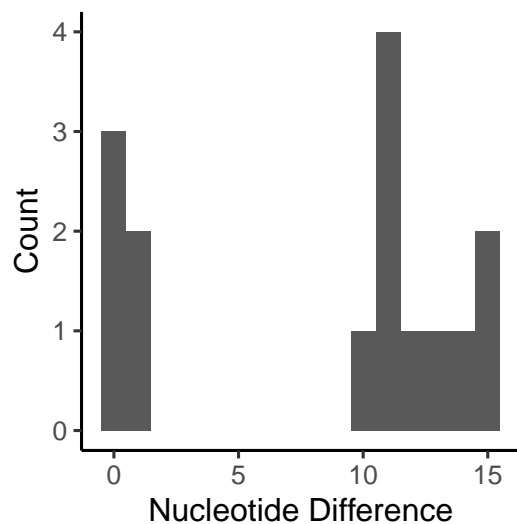
IGHV1-45*02

20 sequences assigned
3 (15%) exact matches, in which:
2 unique CDR3
2 unique J



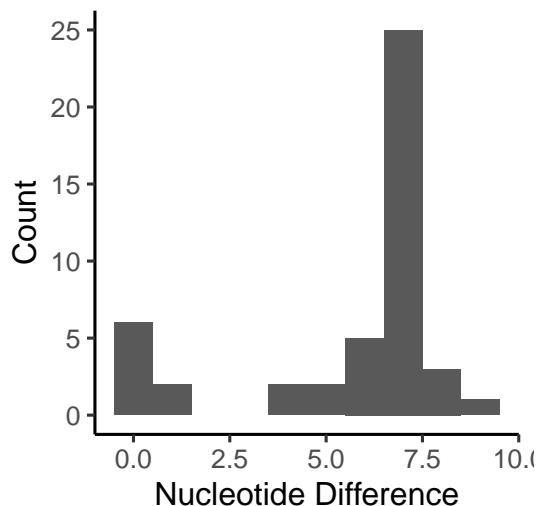
IGHV1-58*01

16 sequences assigned
3 (18.8%) exact matches, in which:
2 unique CDR3
1 unique J



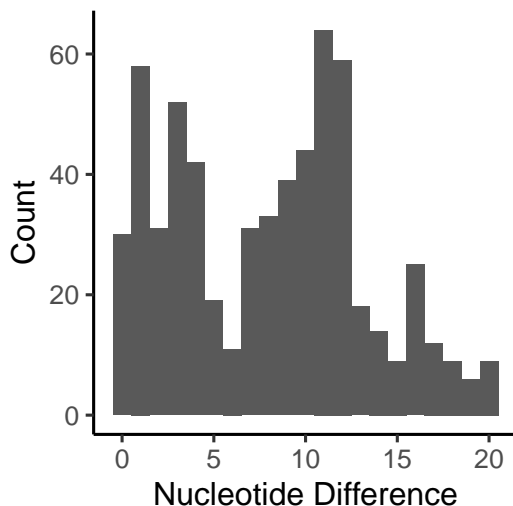
IGHV1-58*02

54 sequences assigned
6 (11.1%) exact matches, in which:
4 unique CDR3
1 unique J



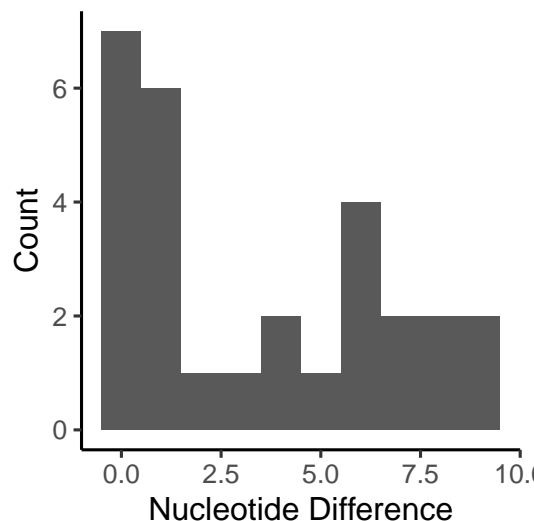
IGHV2-5*02

684 sequences assigned
30 (4.4%) exact matches, in which:
23 unique CDR3
5 unique J



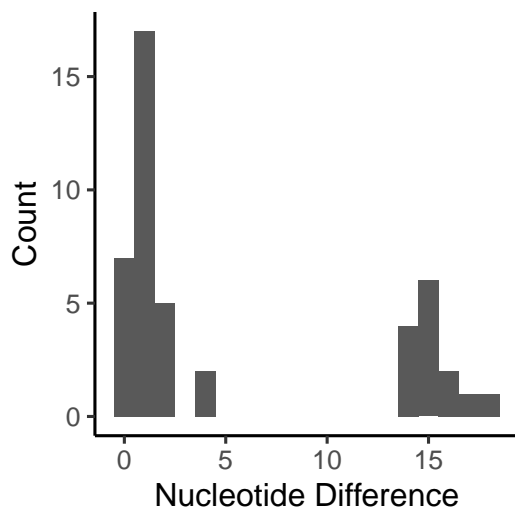
IGHV2-70*15

28 sequences assigned
7 (25%) exact matches, in which:
7 unique CDR3
2 unique J



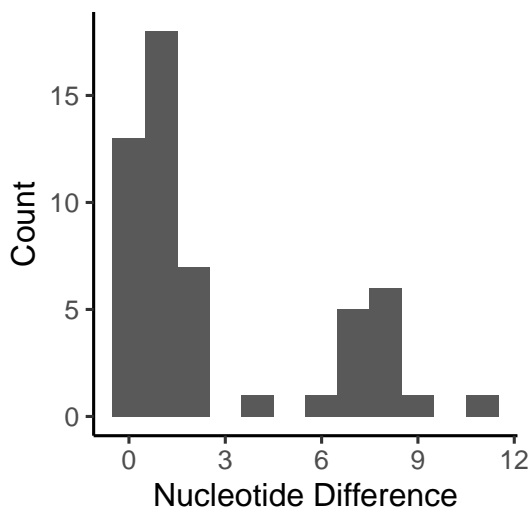
IGHV1-69-2*01

55 sequences assigned
7 (12.7%) exact matches, in which:
5 unique CDR3
2 unique J



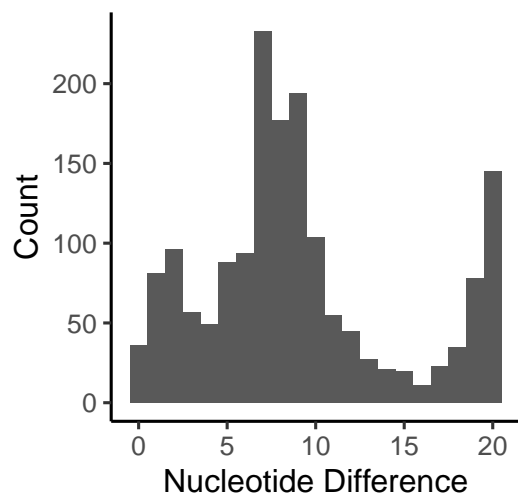
IGHV2-26*01

54 sequences assigned
13 (24.1%) exact matches, in which:
5 unique CDR3
3 unique J



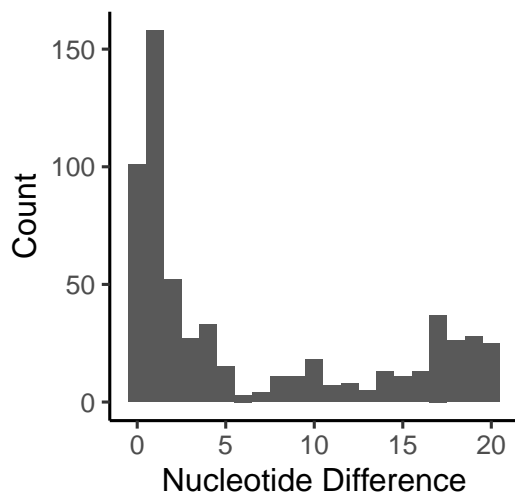
IGHV3-7*01

2130 sequences assigned
36 (1.7%) exact matches, in which:
32 unique CDR3
4 unique J



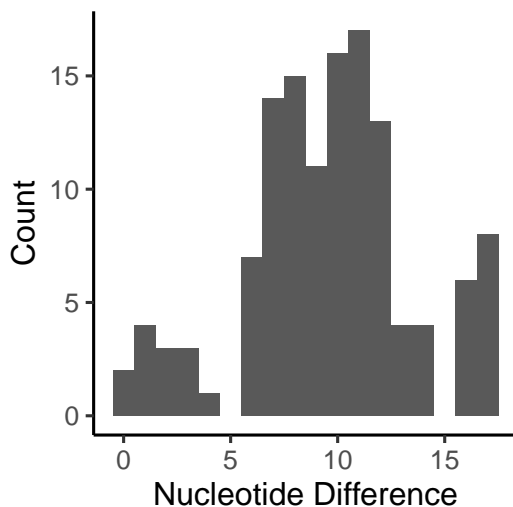
IGHV1-69*06

937 sequences assigned
101 (10.8%) exact matches, in which:
69 unique CDR3
5 unique J



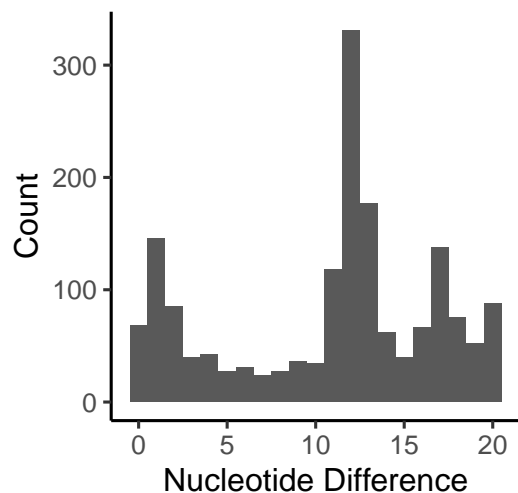
IGHV2-70*01

128 sequences assigned
2 (1.6%) exact matches, in which:
2 unique CDR3
1 unique J



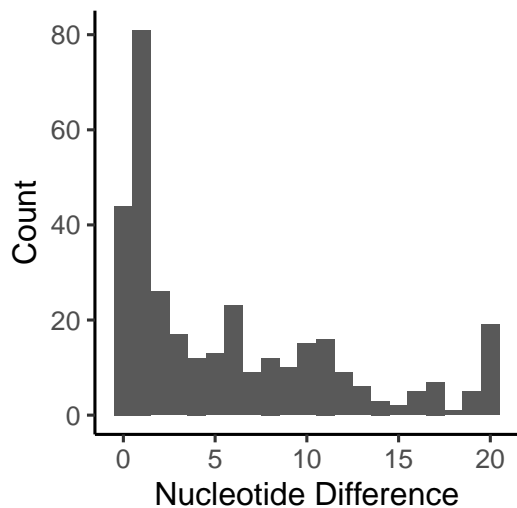
IGHV3-7*03

1908 sequences assigned
68 (3.6%) exact matches, in which:
47 unique CDR3
5 unique J



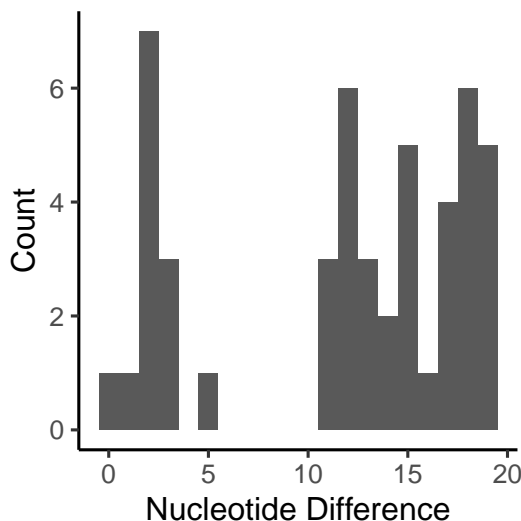
IGHV3-9*01

452 sequences assigned
44 (9.7%) exact matches, in which:
38 unique CDR3
6 unique J



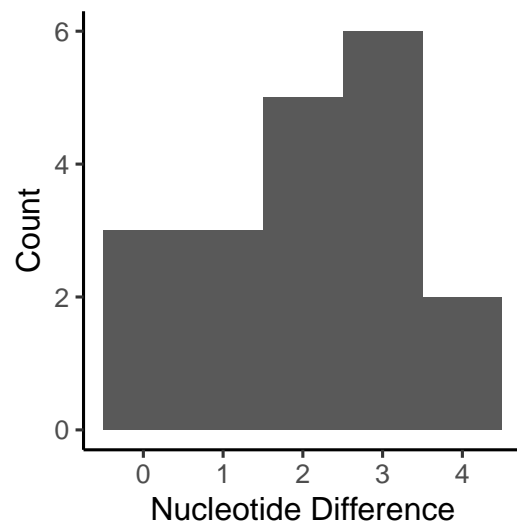
IGHV3-13*01

49 sequences assigned
1 (2%) exact matches, in which:
1 unique CDR3
1 unique J



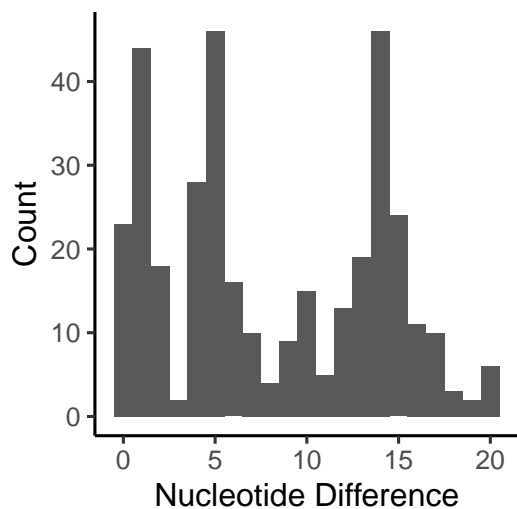
IGHV3-20*01

19 sequences assigned
3 (15.8%) exact matches, in which:
2 unique CDR3
2 unique J



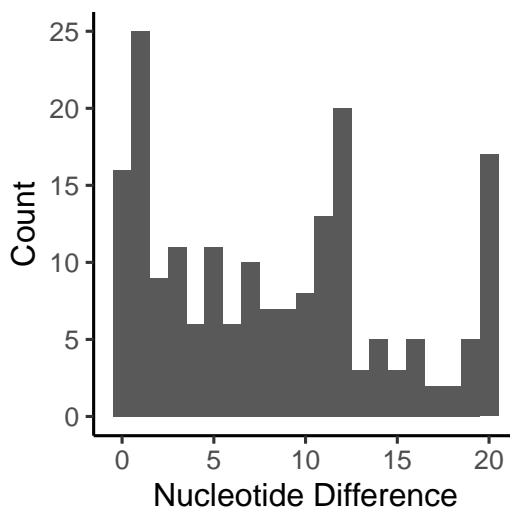
IGHV3-11*01

418 sequences assigned
23 (5.5%) exact matches, in which:
19 unique CDR3
3 unique J



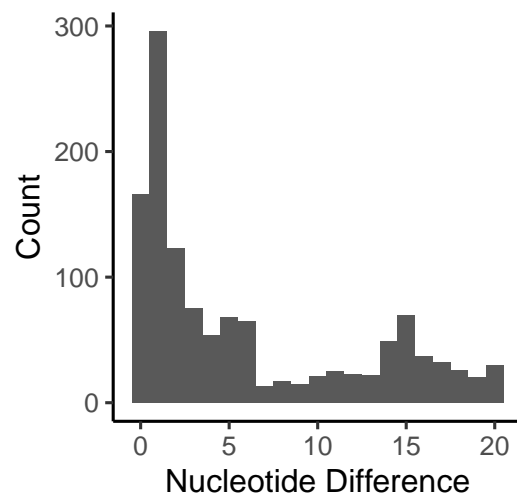
IGHV3-15*01

306 sequences assigned
16 (5.2%) exact matches, in which:
15 unique CDR3
3 unique J



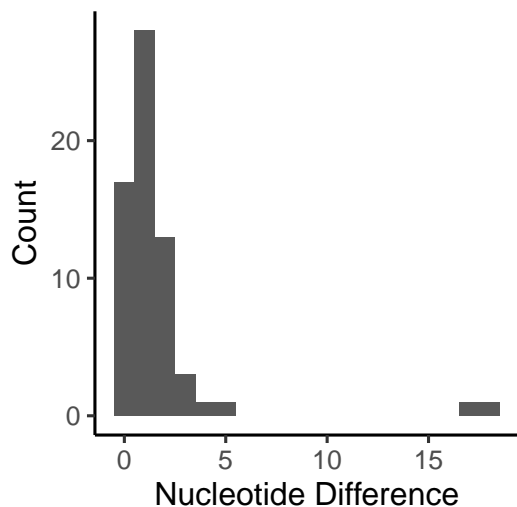
IGHV3-21*01

1305 sequences assigned
166 (12.7%) exact matches, in which:
98 unique CDR3
5 unique J



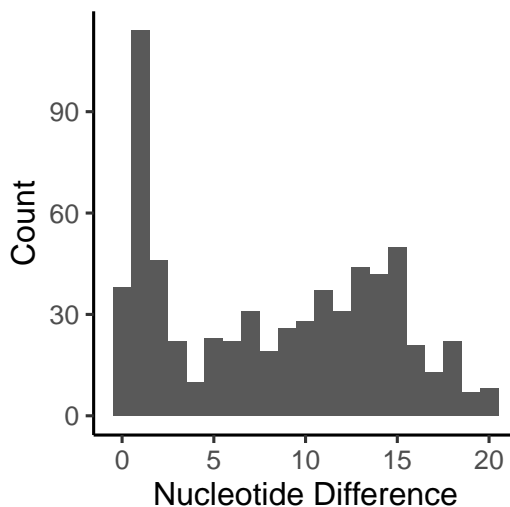
IGHV3-11*06

68 sequences assigned
17 (25%) exact matches, in which:
12 unique CDR3
3 unique J



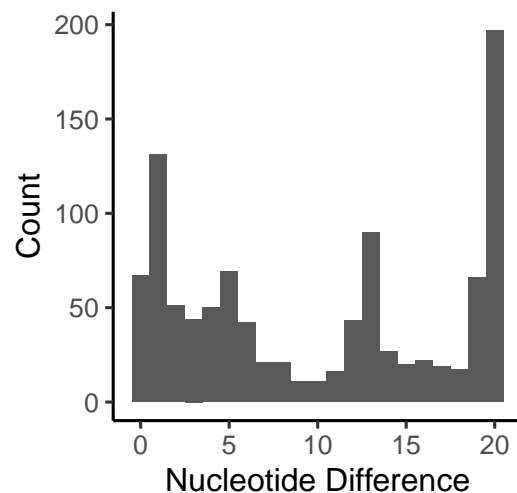
IGHV3-15*07

752 sequences assigned
38 (5.1%) exact matches, in which:
31 unique CDR3
6 unique J



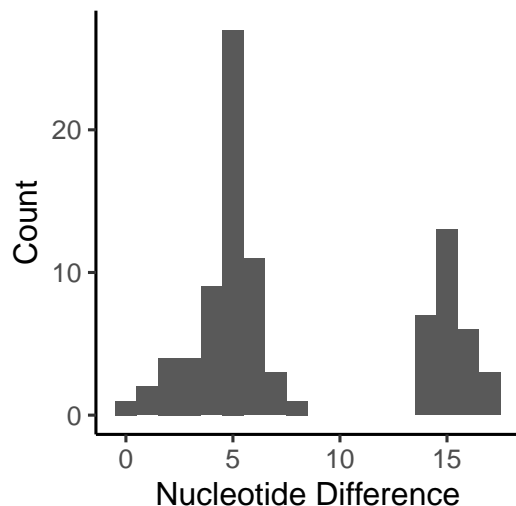
IGHV3-33*01

1221 sequences assigned
67 (5.5%) exact matches, in which:
48 unique CDR3
5 unique J



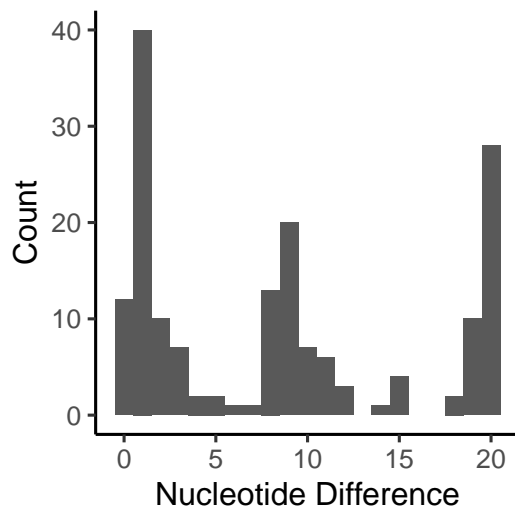
IGHV3-43*01

151 sequences assigned
1 (0.7%) exact matches, in which:
1 unique CDR3
1 unique J



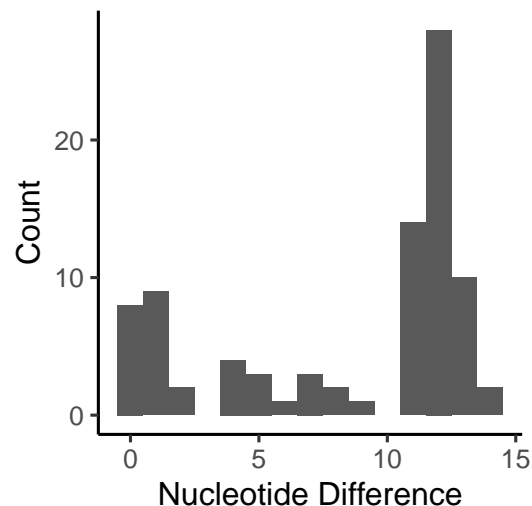
IGHV3-49*05

238 sequences assigned
12 (5%) exact matches, in which:
9 unique CDR3
2 unique J



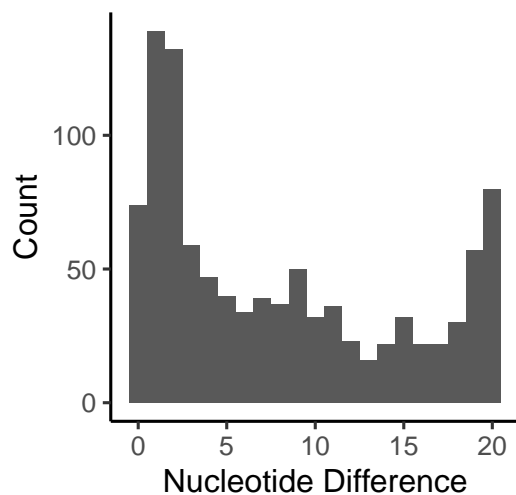
IGHV3-64*01

136 sequences assigned
8 (5.9%) exact matches, in which:
5 unique CDR3
3 unique J



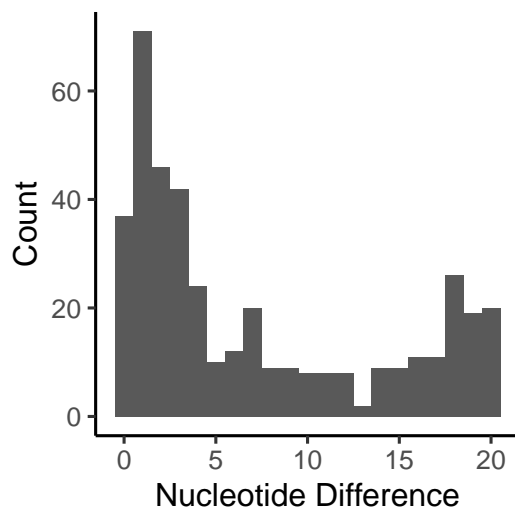
IGHV3-48*02

1177 sequences assigned
74 (6.3%) exact matches, in which:
57 unique CDR3
6 unique J



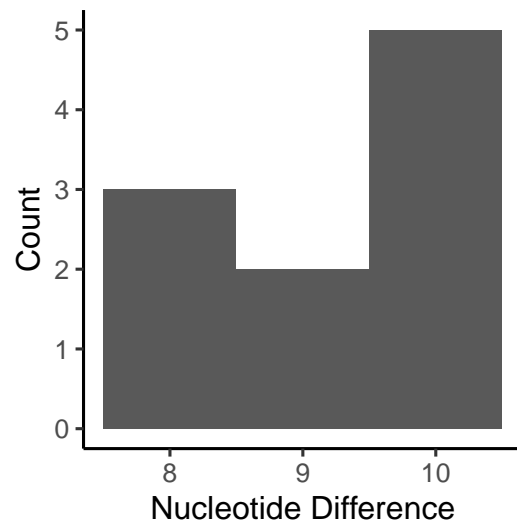
IGHV3-53*01

492 sequences assigned
37 (7.5%) exact matches, in which:
30 unique CDR3
4 unique J



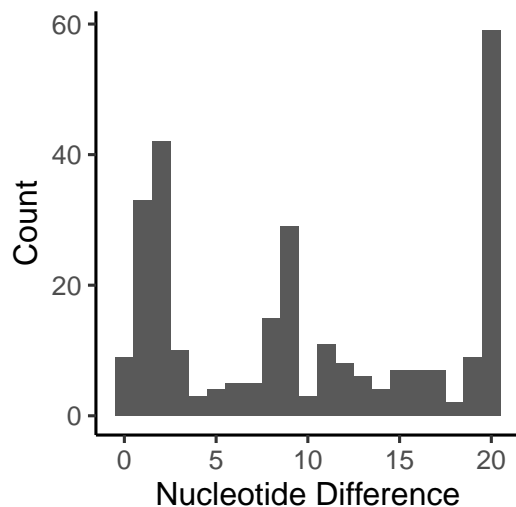
IGHV3-64*07

11 sequences assigned
No exact matches.



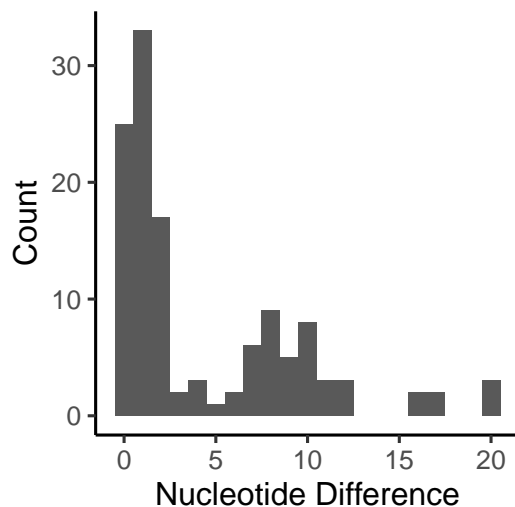
IGHV3-49*04

561 sequences assigned
9 (1.6%) exact matches, in which:
4 unique CDR3
3 unique J



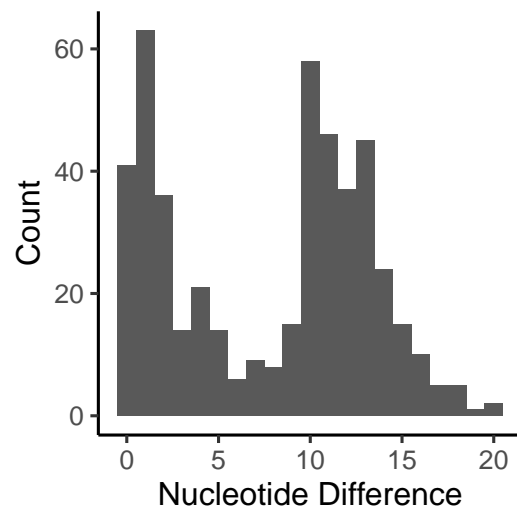
IGHV3-53*04

136 sequences assigned
25 (18.4%) exact matches, in which:
21 unique CDR3
4 unique J



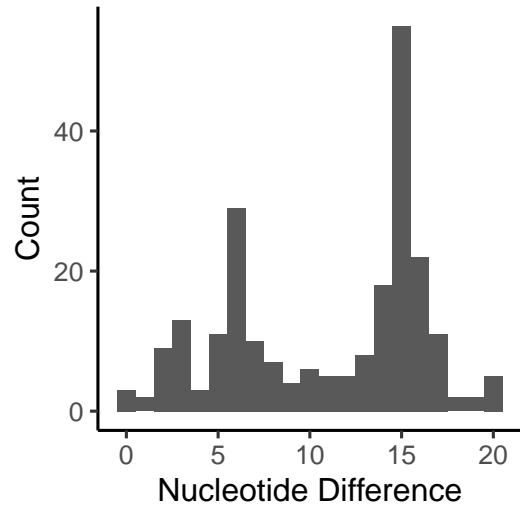
IGHV3-66*01

508 sequences assigned
41 (8.1%) exact matches, in which:
30 unique CDR3
5 unique J



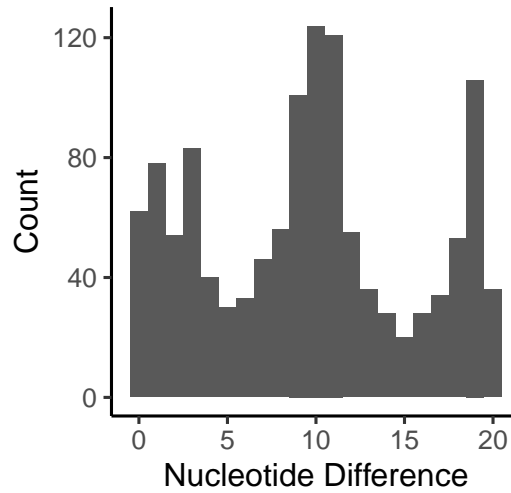
IGHV3-72*01

315 sequences assigned
3 (1%) exact matches, in which:
3 unique CDR3
2 unique J



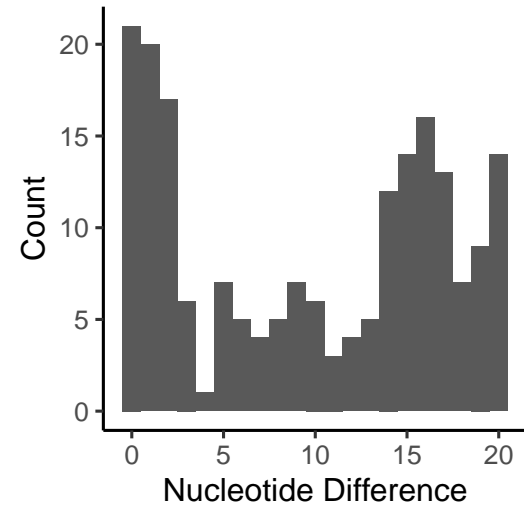
IGHV3-74*01

1352 sequences assigned
62 (4.6%) exact matches, in which:
56 unique CDR3
5 unique J



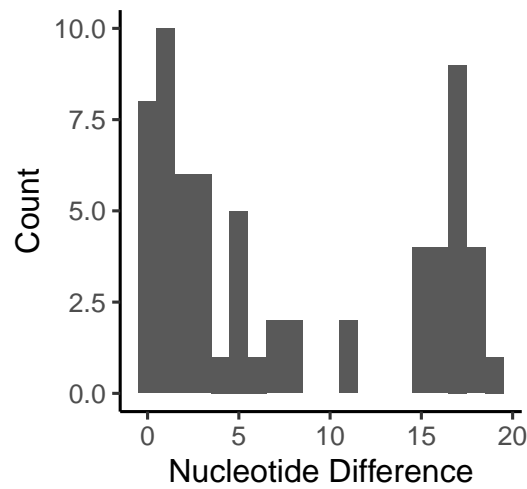
IGHV4-4*02

282 sequences assigned
21 (7.4%) exact matches, in which:
19 unique CDR3
5 unique J



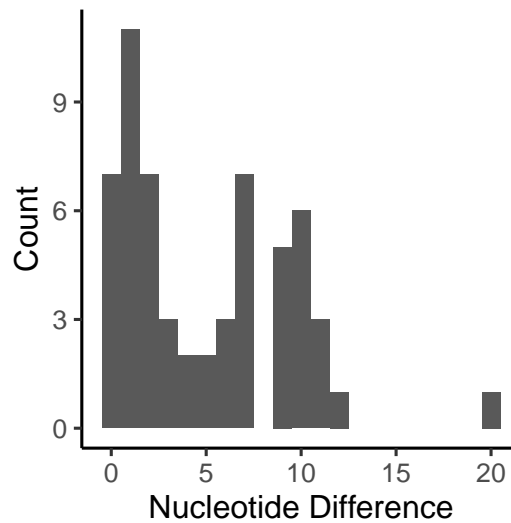
IGHV3-73*01

112 sequences assigned
8 (7.1%) exact matches, in which:
7 unique CDR3
2 unique J



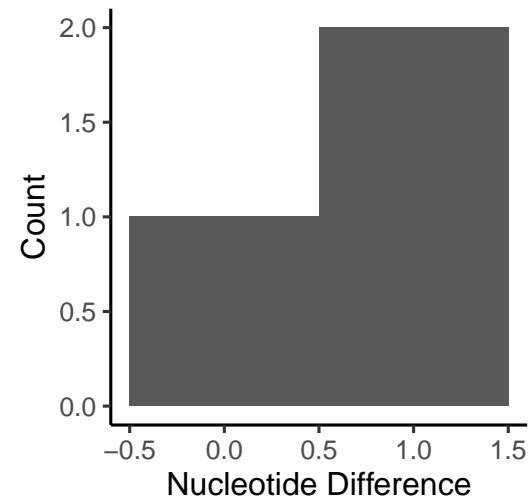
IGHV3-43D*03

73 sequences assigned
7 (9.6%) exact matches, in which:
5 unique CDR3
2 unique J



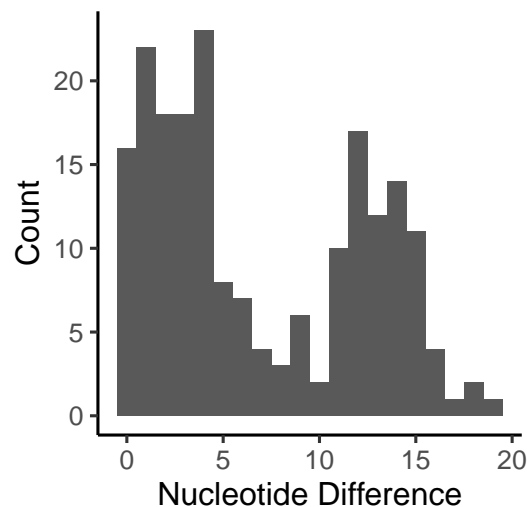
IGHV4-28*07

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



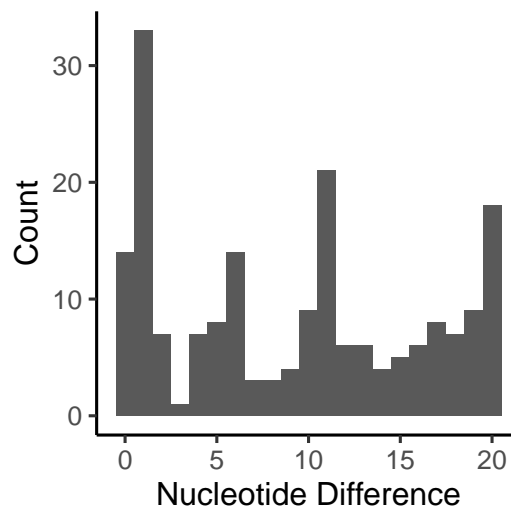
IGHV3-73*02

207 sequences assigned
16 (7.7%) exact matches, in which:
14 unique CDR3
3 unique J



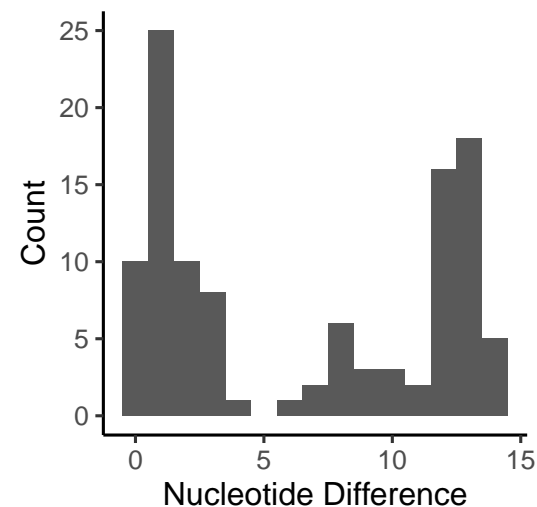
IGHV3-64D*06

280 sequences assigned
14 (5%) exact matches, in which:
12 unique CDR3
4 unique J



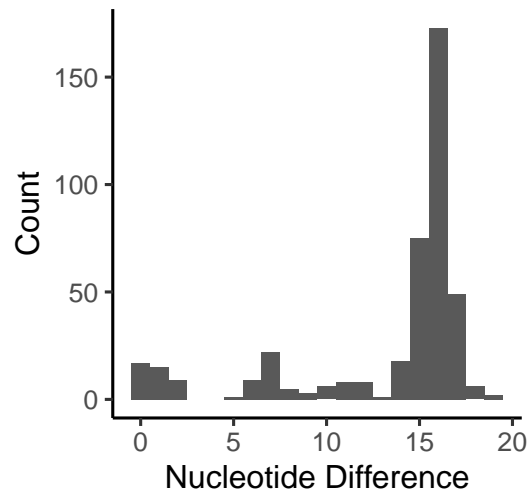
IGHV4-30-2*01

134 sequences assigned
10 (7.5%) exact matches, in which:
9 unique CDR3
4 unique J



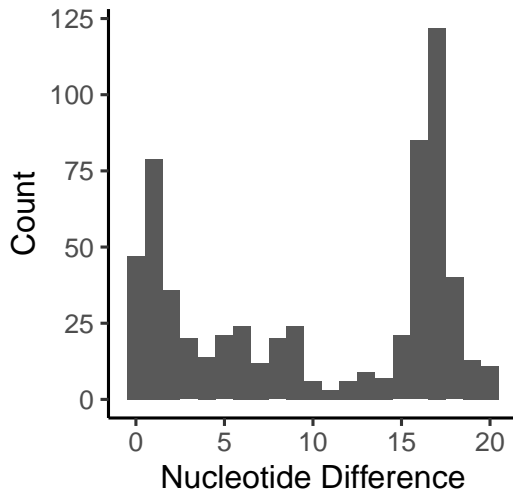
IGHV4-30-4*07

463 sequences assigned
17 (3.7%) exact matches, in which:
11 unique CDR3
4 unique J



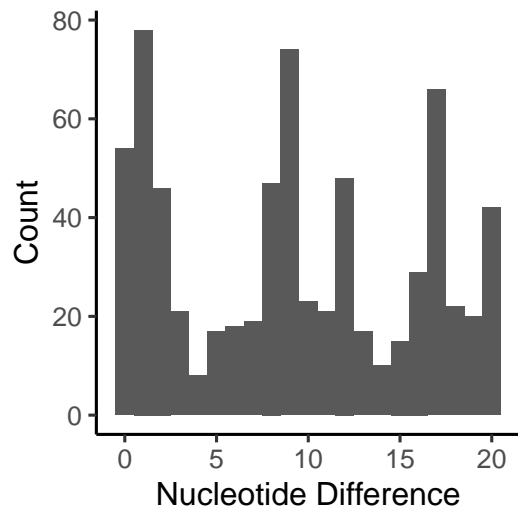
IGHV4-38-2*02

664 sequences assigned
47 (7.1%) exact matches, in which:
27 unique CDR3
5 unique J



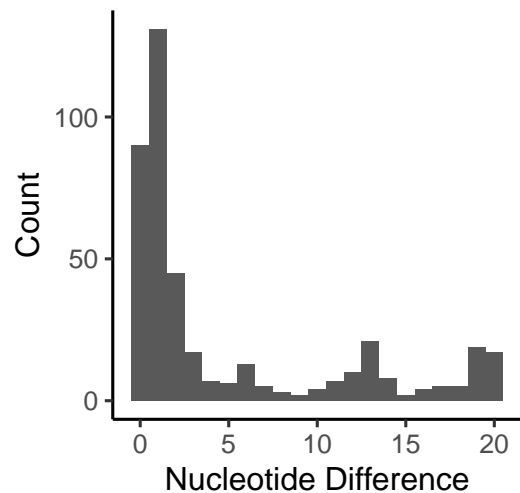
IGHV4-59*08

826 sequences assigned
54 (6.5%) exact matches, in which:
43 unique CDR3
6 unique J



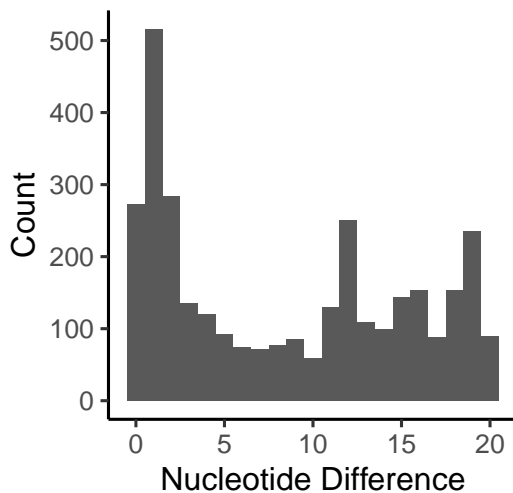
IGHV4-31*03

521 sequences assigned
90 (17.3%) exact matches, in which:
48 unique CDR3
4 unique J



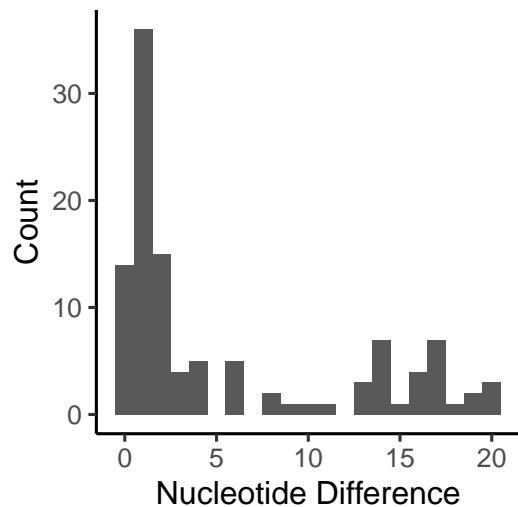
IGHV4-39*01

3883 sequences assigned
273 (7%) exact matches, in which:
205 unique CDR3
5 unique J



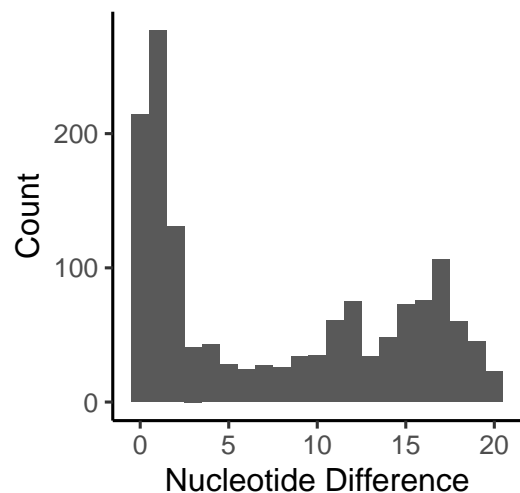
IGHV4-61*01

190 sequences assigned
14 (7.4%) exact matches, in which:
11 unique CDR3
3 unique J



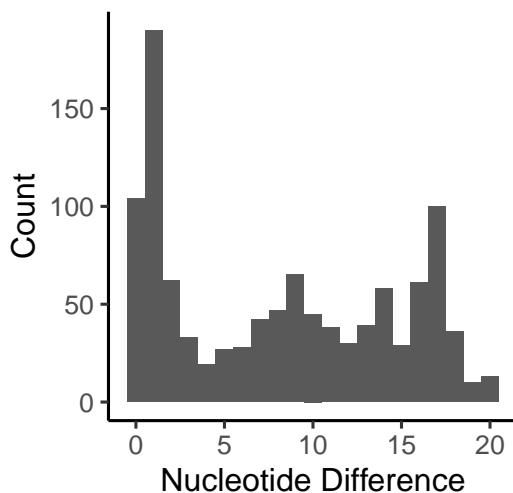
IGHV4-34*01

1998 sequences assigned
214 (10.7%) exact matches, in which:
159 unique CDR3
5 unique J



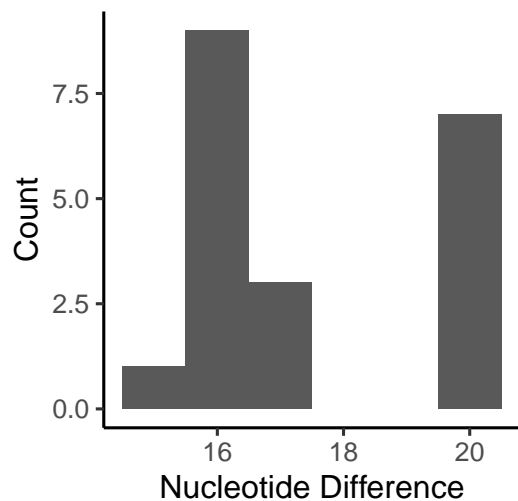
IGHV4-59*01

1277 sequences assigned
104 (8.1%) exact matches, in which:
75 unique CDR3
6 unique J



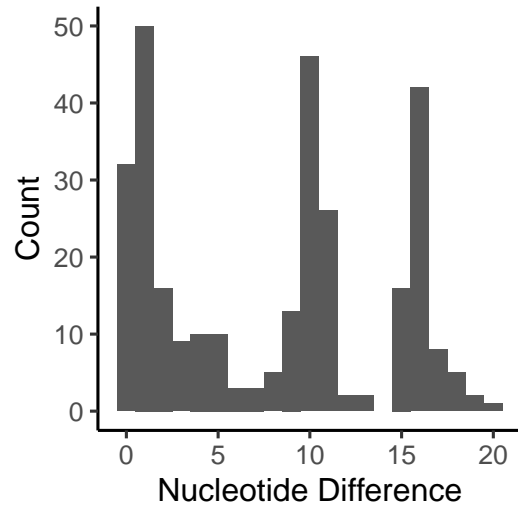
IGHV4-61*08

215 sequences assigned
No exact matches.



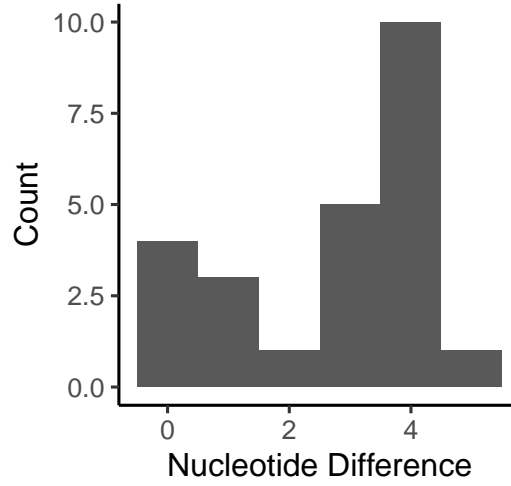
IGHV5-10-1*03

312 sequences assigned
32 (10.3%) exact matches, in which:
20 unique CDR3
4 unique J



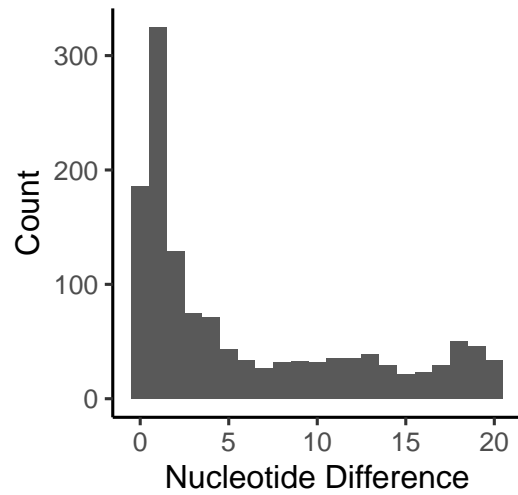
IGHV7-4-1*01

24 sequences assigned
4 (16.7%) exact matches, in which:
2 unique CDR3
1 unique J



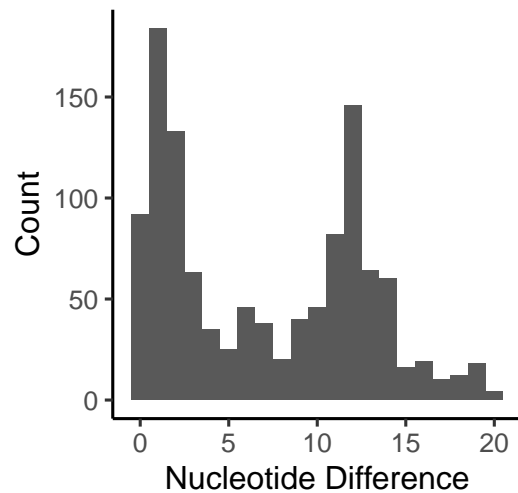
IGHV5-51*01

1539 sequences assigned
186 (12.1%) exact matches, in which:
131 unique CDR3
6 unique J



IGHV6-1*01

1547 sequences assigned
92 (5.9%) exact matches, in which:
57 unique CDR3
4 unique J





[illegible]