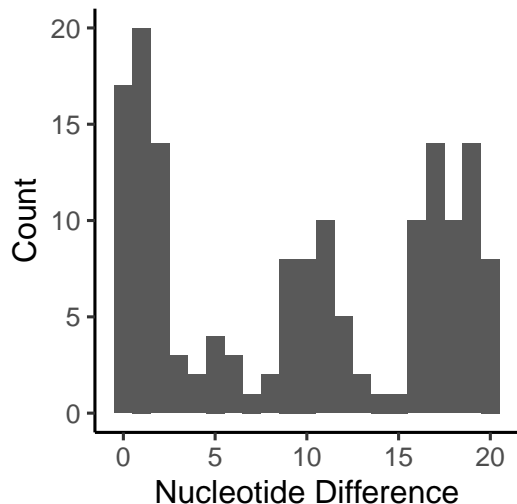


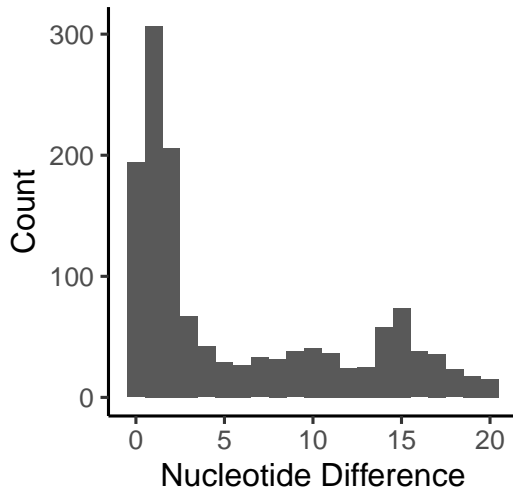
IGHV1-2*04

195 sequences assigned
17 (8.7%) exact matches, in which:
11 unique CDR3
4 unique J



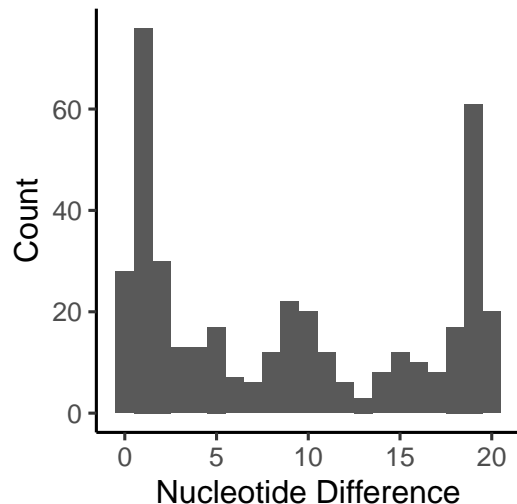
IGHV1-18*01

1873 sequences assigned
194 (10.4%) exact matches, in which:
109 unique CDR3
6 unique J



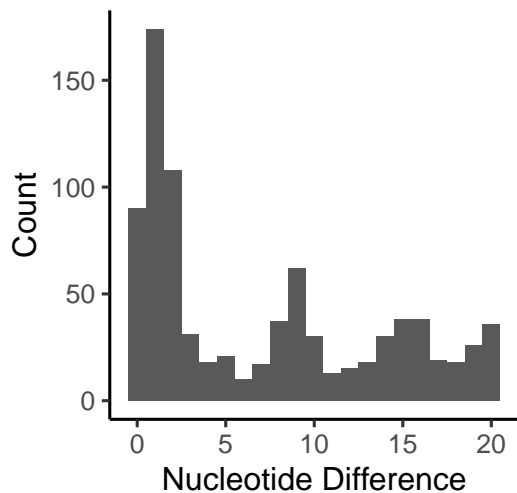
IGHV1-46*01

639 sequences assigned
28 (4.4%) exact matches, in which:
19 unique CDR3
5 unique J



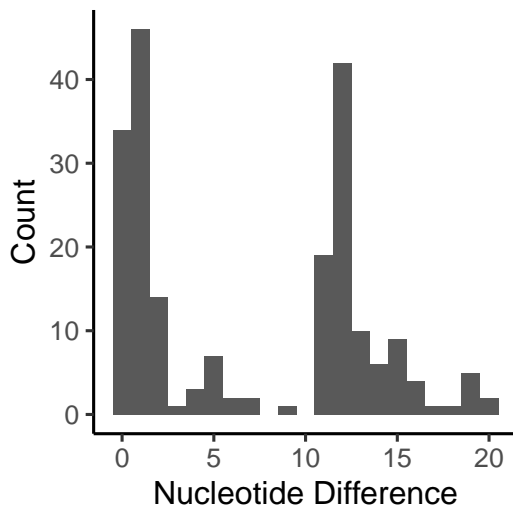
IGHV1-3*01

1068 sequences assigned
90 (8.4%) exact matches, in which:
62 unique CDR3
5 unique J



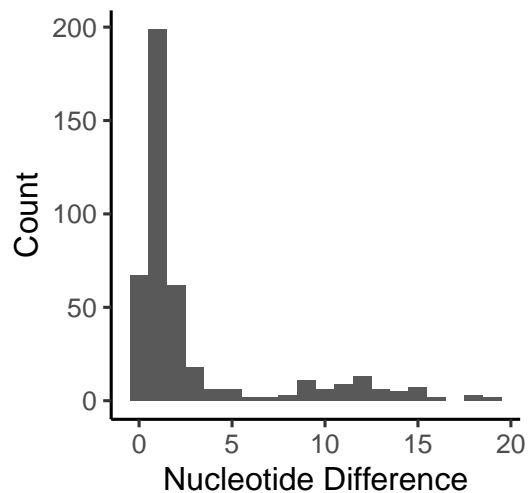
IGHV1-24*01

213 sequences assigned
34 (16%) exact matches, in which:
25 unique CDR3
4 unique J



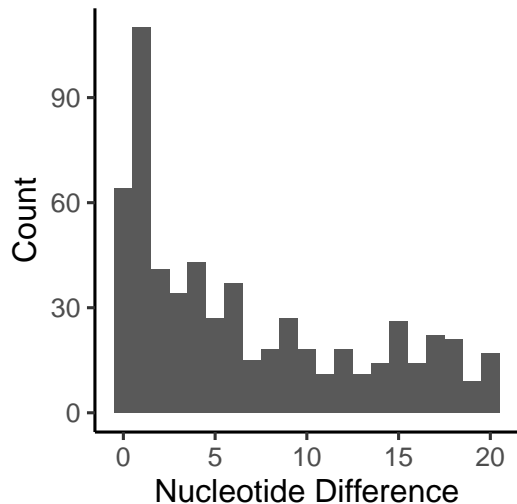
IGHV1-46*03

478 sequences assigned
67 (14%) exact matches, in which:
41 unique CDR3
4 unique J



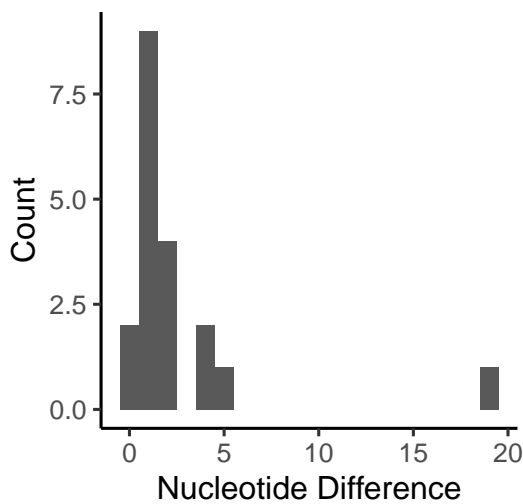
IGHV1-8*01

701 sequences assigned
64 (9.1%) exact matches, in which:
48 unique CDR3
5 unique J



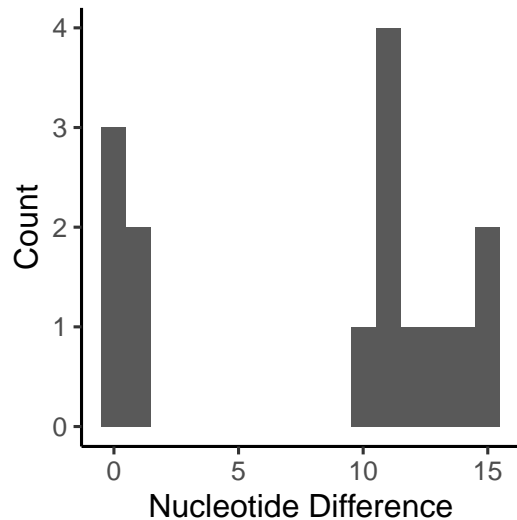
IGHV1-45*02

19 sequences assigned
2 (10.5%) exact matches, in which:
1 unique CDR3
1 unique J



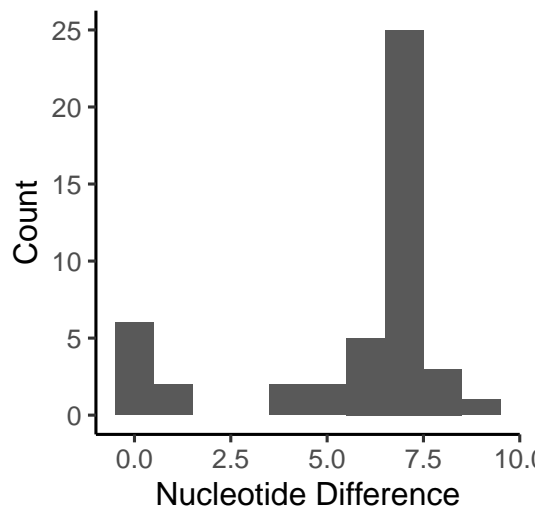
IGHV1-58*01

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



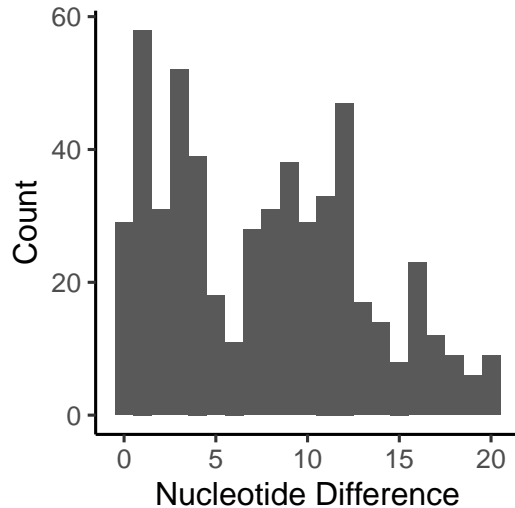
IGHV1-58*02

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



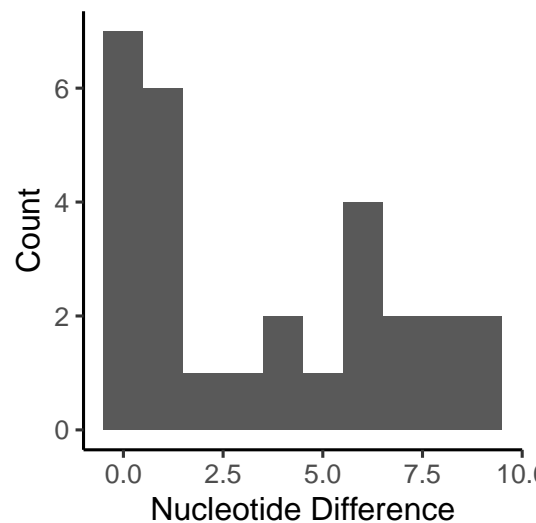
IGHV2-5*02

612 sequences assigned
29 (4.7%) exact matches, in which:
22 unique CDR3
5 unique J



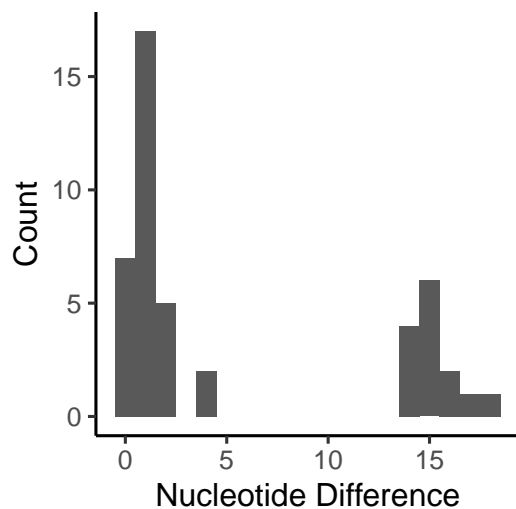
IGHV2-70*15

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



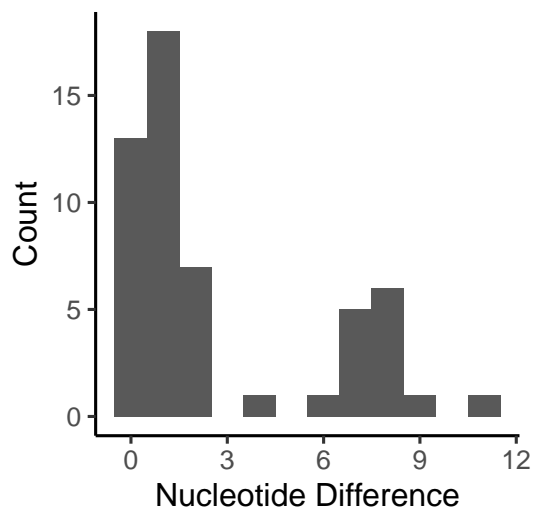
IGHV1-69-2*01

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



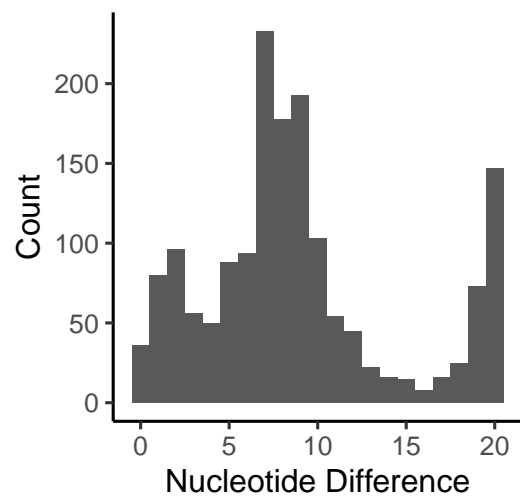
IGHV2-26*01

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



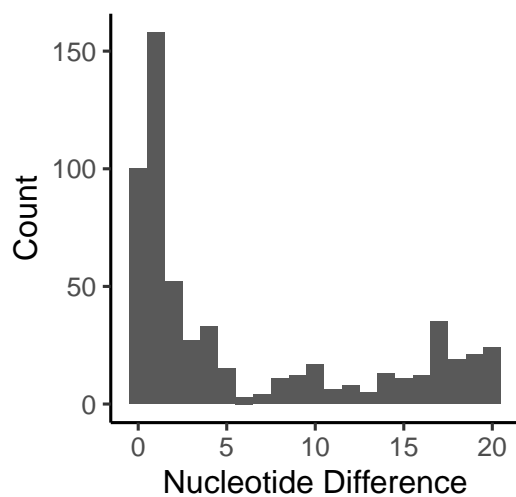
IGHV3-7*01

2088 sequences assigned
36 (1.7%) exact matches, in which:
32 unique CDR3
4 unique J



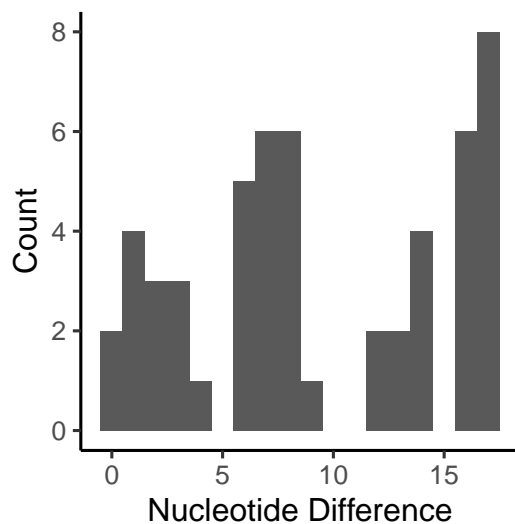
IGHV1-69*06

715 sequences assigned
100 (14%) exact matches, in which:
69 unique CDR3
5 unique J



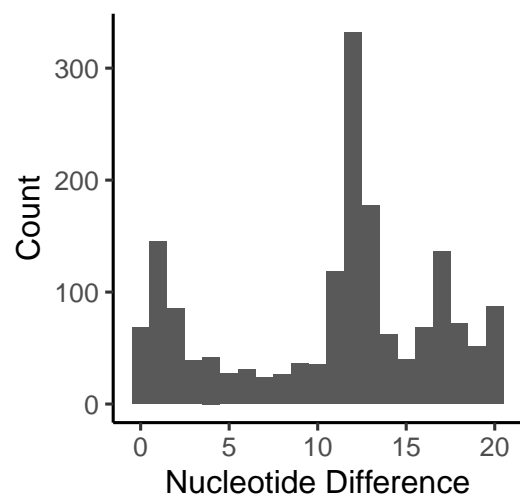
IGHV2-70*01

53 sequences assigned
2 (3.8%) exact matches, in which:
2 unique CDR3
1 unique J



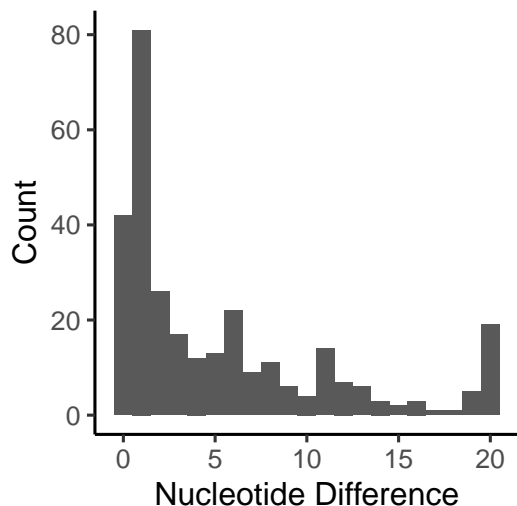
IGHV3-7*03

1885 sequences assigned
68 (3.6%) exact matches, in which:
47 unique CDR3
5 unique J



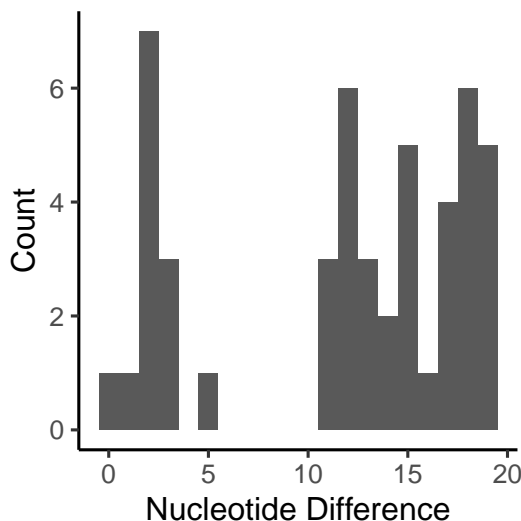
IGHV3-9*01

417 sequences assigned
42 (10.1%) exact matches, in which:
36 unique CDR3
6 unique J



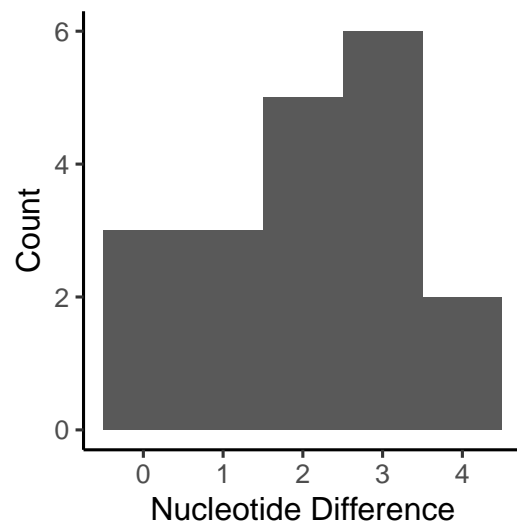
IGHV3-13*01

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



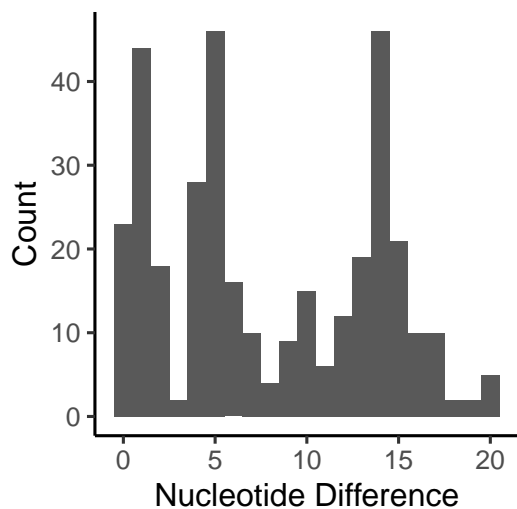
IGHV3-20*01

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



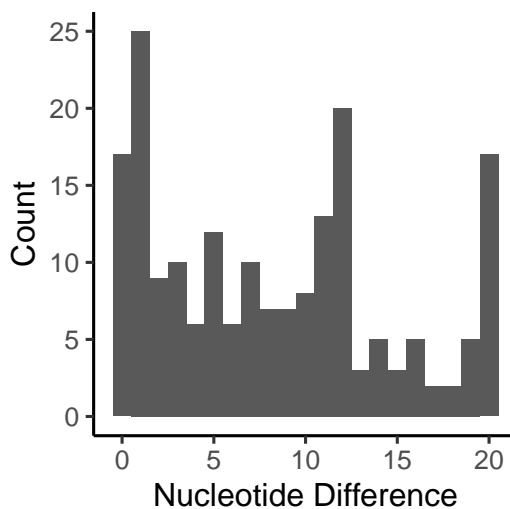
IGHV3-11*01

374 sequences assigned
23 (6.1%) exact matches, in which:
19 unique CDR3
3 unique J



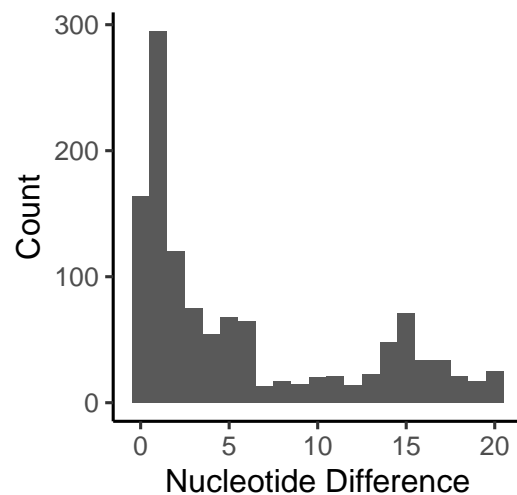
IGHV3-15*01

307 sequences assigned
17 (5.5%) exact matches, in which:
15 unique CDR3
3 unique J



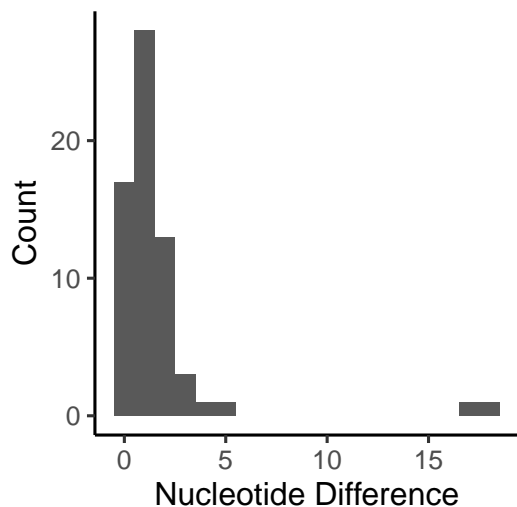
IGHV3-21*01

1262 sequences assigned
164 (13%) exact matches, in which:
97 unique CDR3
5 unique J



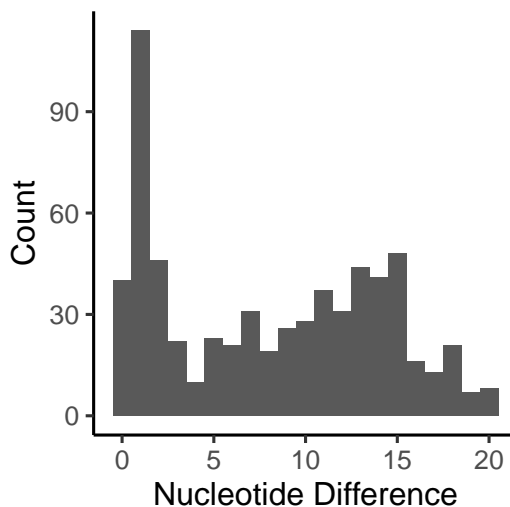
IGHV3-11*06

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



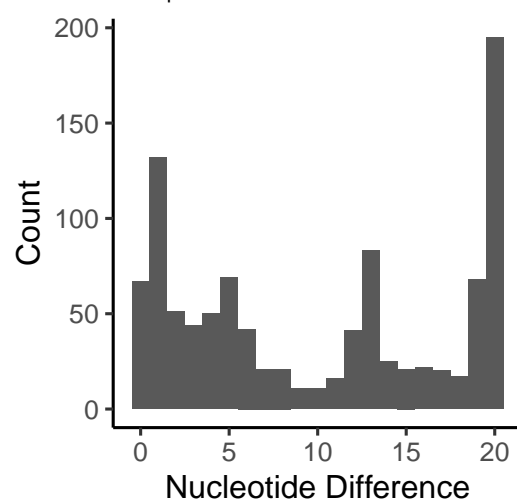
IGHV3-15*07

744 sequences assigned
40 (5.4%) exact matches, in which:
32 unique CDR3
6 unique J



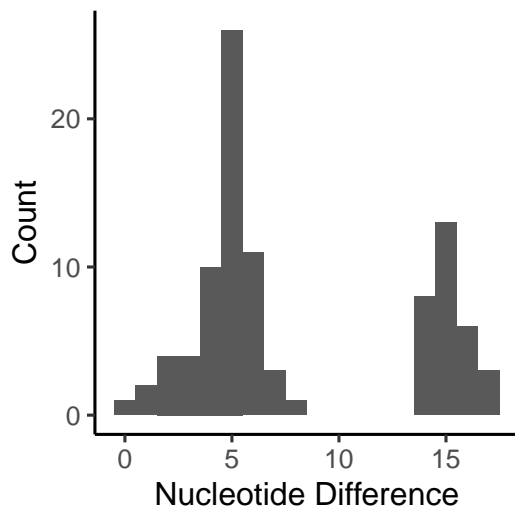
IGHV3-33*01

1204 sequences assigned
67 (5.6%) exact matches, in which:
48 unique CDR3
5 unique J



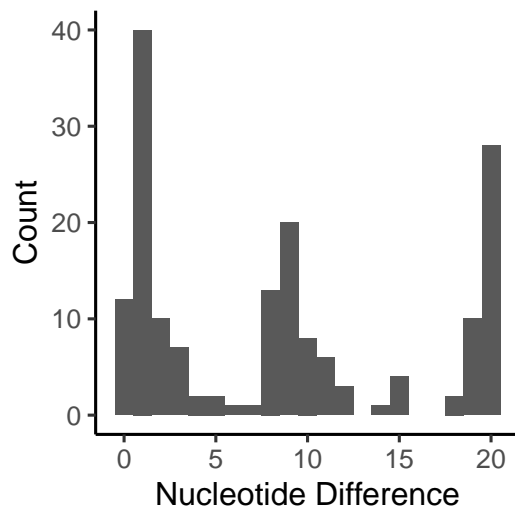
IGHV3-43*01

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



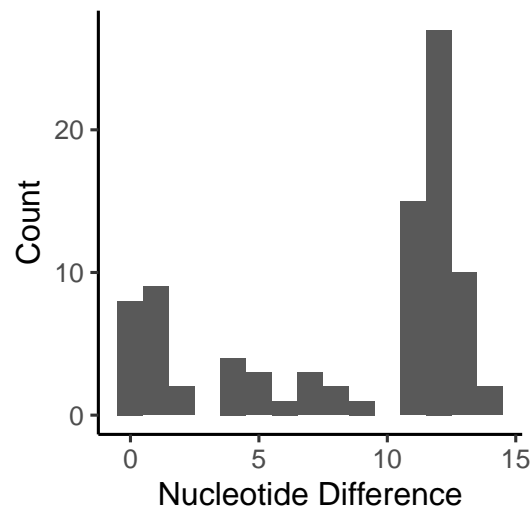
IGHV3-49*05

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



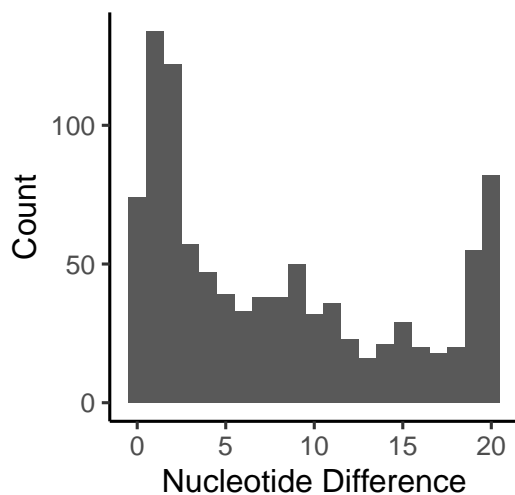
IGHV3-64*01

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



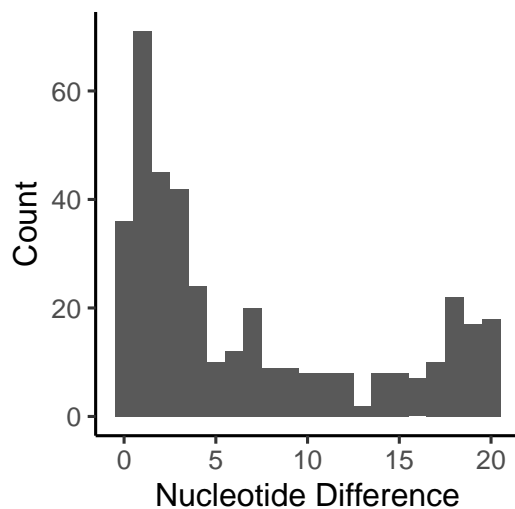
IGHV3-48*02

1126 sequences assigned
74 (6.6%) exact matches, in which:
57 unique CDR3
6 unique J



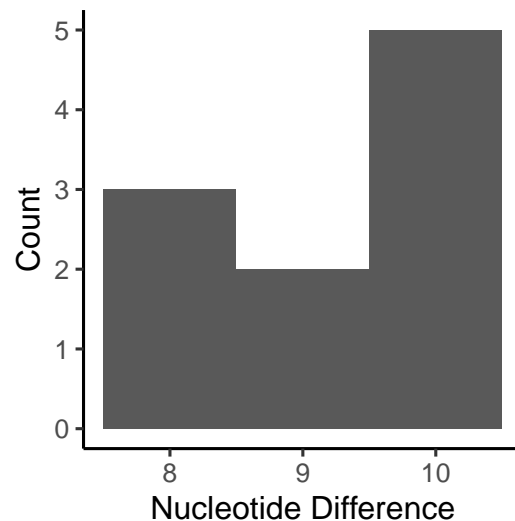
IGHV3-53*01

431 sequences assigned
36 (8.4%) exact matches, in which:
29 unique CDR3
4 unique J



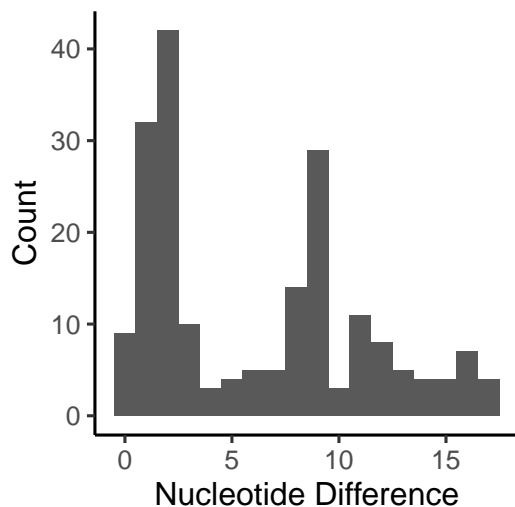
IGHV3-64*07

11 sequences assigned
No exact matches.



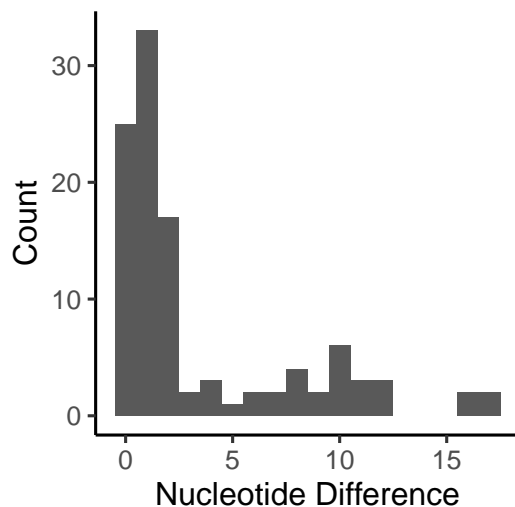
IGHV3-49*04

267 sequences assigned
9 (3.4%) exact matches, in which:
4 unique CDR3
3 unique J



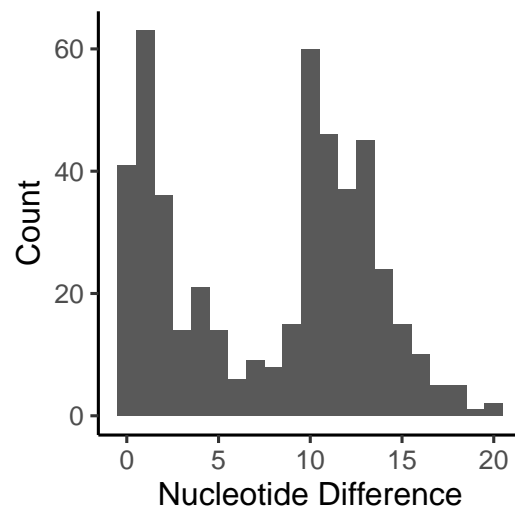
IGHV3-53*04

112 sequences assigned
25 (22.3%) exact matches, in which:
21 unique CDR3
4 unique J



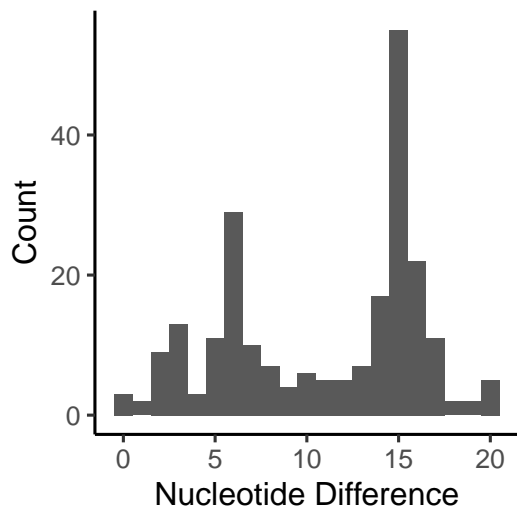
IGHV3-66*01

510 sequences assigned
41 (8%) exact matches, in which:
30 unique CDR3
5 unique J



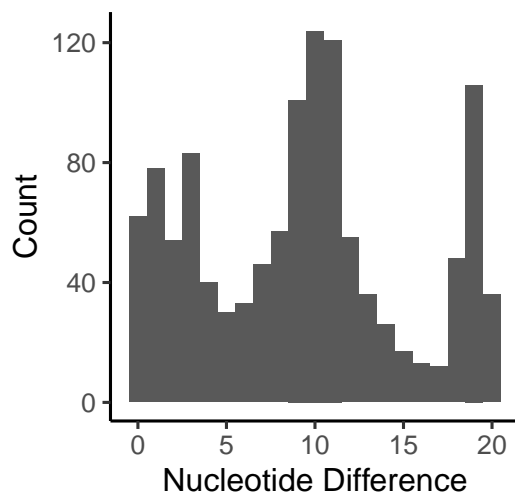
IGHV3-72*01

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



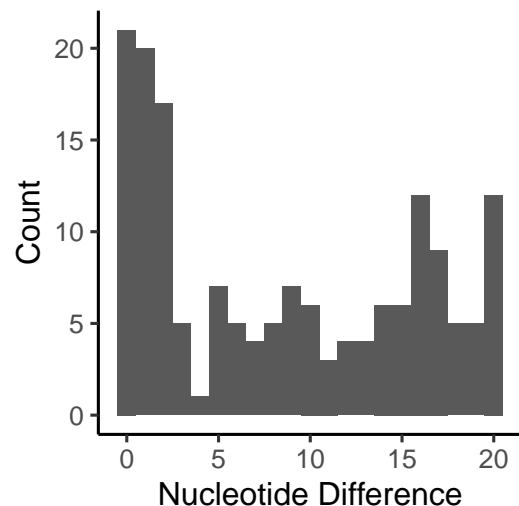
IGHV3-74*01

1304 sequences assigned
62 (4.8%) exact matches, in which:
55 unique CDR3
5 unique J



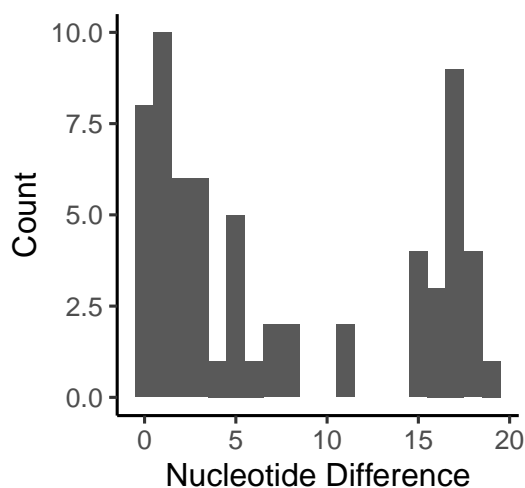
IGHV4-4*02

234 sequences assigned
21 (9%) exact matches, in which:
19 unique CDR3
5 unique J



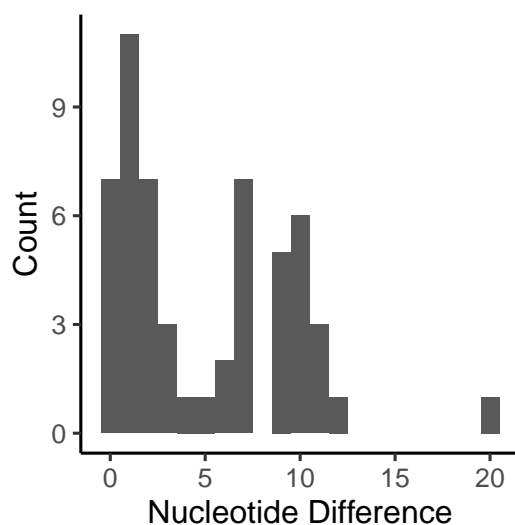
IGHV3-73*01

111 sequences assigned
8 (7.2%) exact matches, in which:
7 unique CDR3
2 unique J



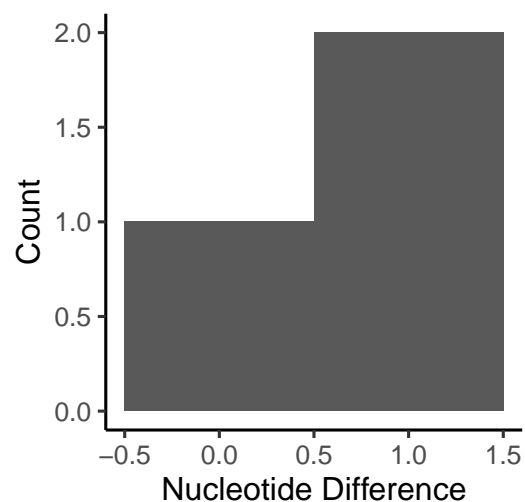
IGHV3-43D*03

56 sequences assigned
7 (12.5%) exact matches, in which:
5 unique CDR3
2 unique J



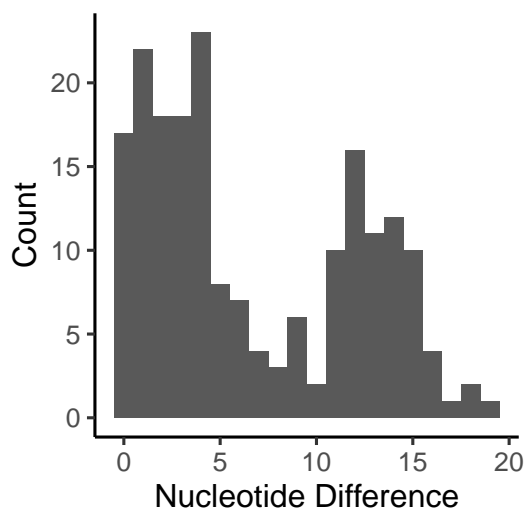
IGHV4-28*07

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



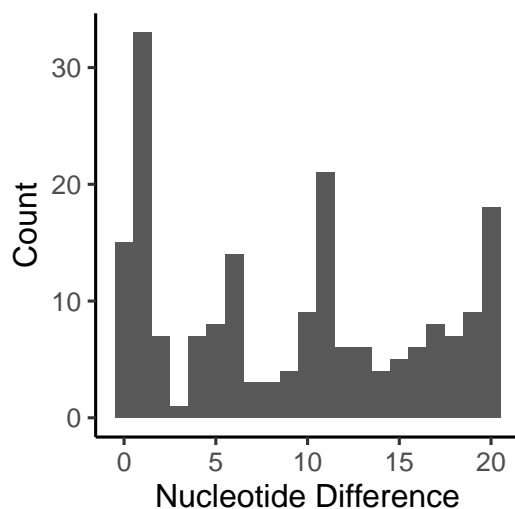
IGHV3-73*02

203 sequences assigned
17 (8.4%) exact matches, in which:
15 unique CDR3
4 unique J



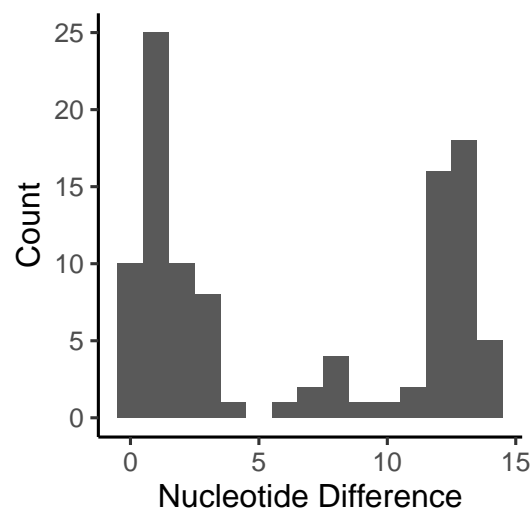
IGHV3-64D*06

281 sequences assigned
15 (5.3%) exact matches, in which:
13 unique CDR3
4 unique J



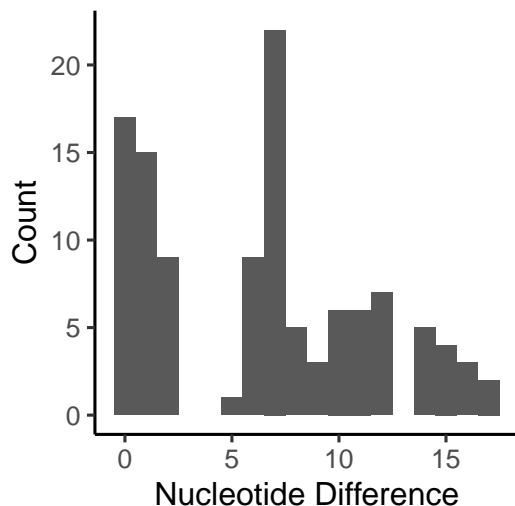
IGHV4-30-2*01

129 sequences assigned
10 (7.8%) exact matches, in which:
9 unique CDR3
4 unique J



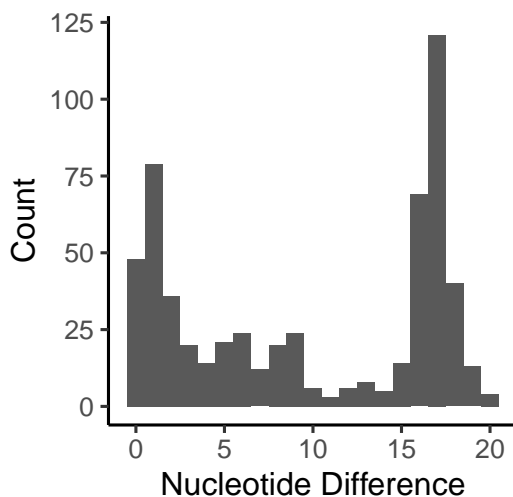
IGHV4-30-4*07

136 sequences assigned
17 (12.5%) exact matches, in which:
11 unique CDR3
4 unique J



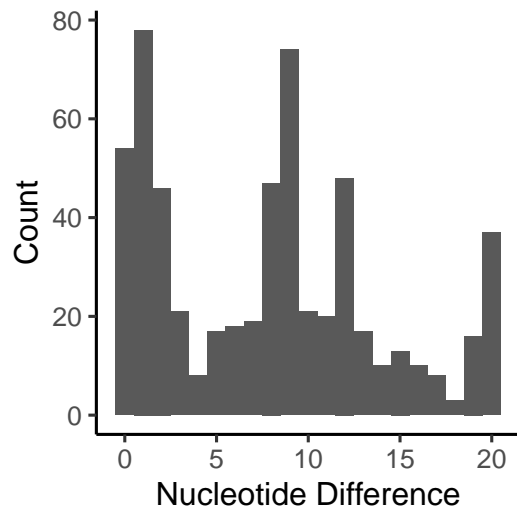
IGHV4-38-2*02

612 sequences assigned
48 (7.8%) exact matches, in which:
28 unique CDR3
5 unique J



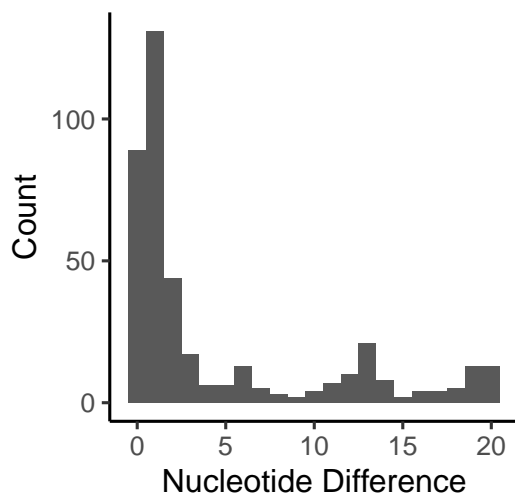
IGHV4-59*08

687 sequences assigned
54 (7.9%) exact matches, in which:
43 unique CDR3
6 unique J



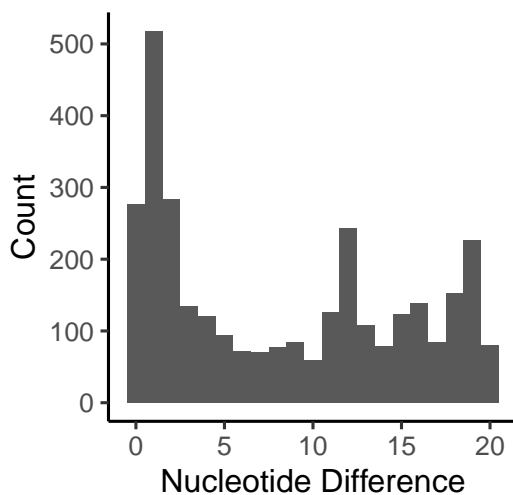
IGHV4-31*03

446 sequences assigned
89 (20%) exact matches, in which:
48 unique CDR3
4 unique J



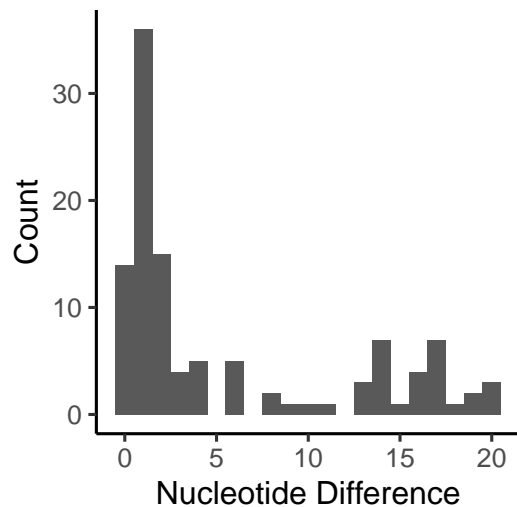
IGHV4-39*01

3722 sequences assigned
277 (7.4%) exact matches, in which:
206 unique CDR3
5 unique J



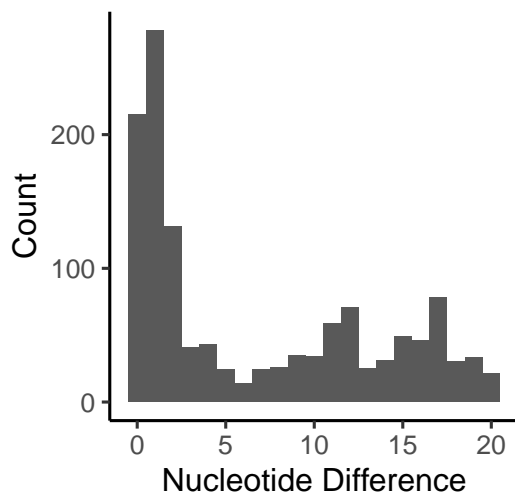
IGHV4-61*01

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



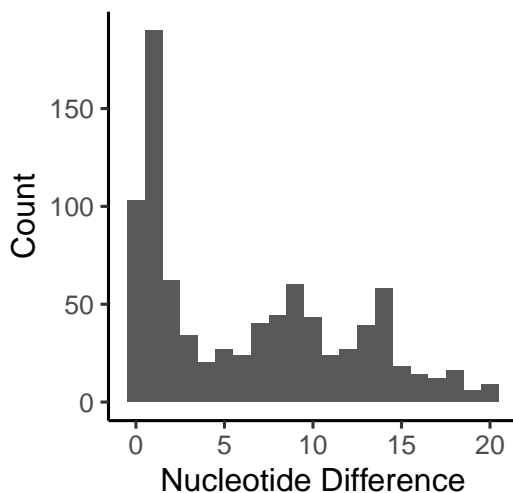
IGHV4-34*01

1468 sequences assigned
215 (14.6%) exact matches, in which:
159 unique CDR3
5 unique J



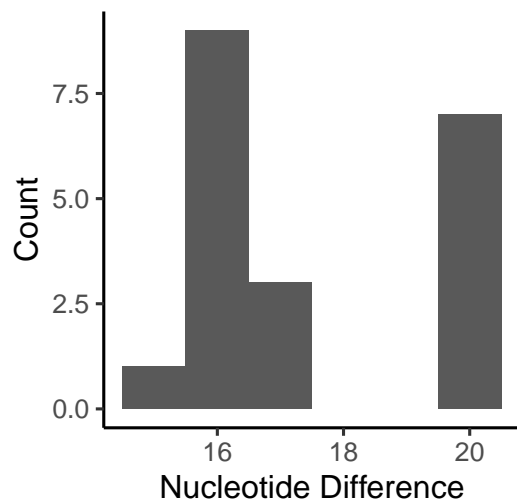
IGHV4-59*01

1049 sequences assigned
103 (9.8%) exact matches, in which:
75 unique CDR3
6 unique J



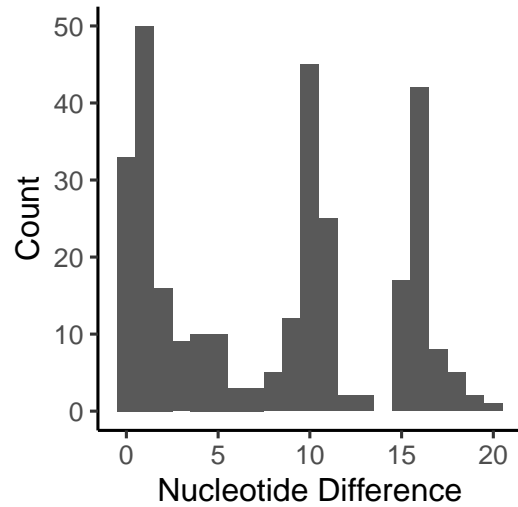
IGHV4-61*08

167 sequences assigned
No exact matches.



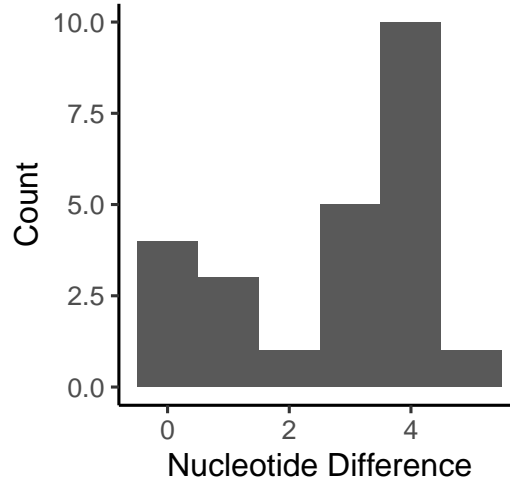
IGHV5-10-1*03

311 sequences assigned
33 (10.6%) exact matches, in which:
20 unique CDR3
4 unique J



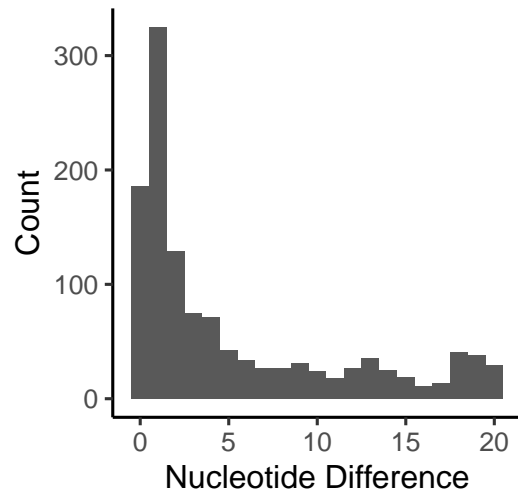
IGHV7-4-1*01

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



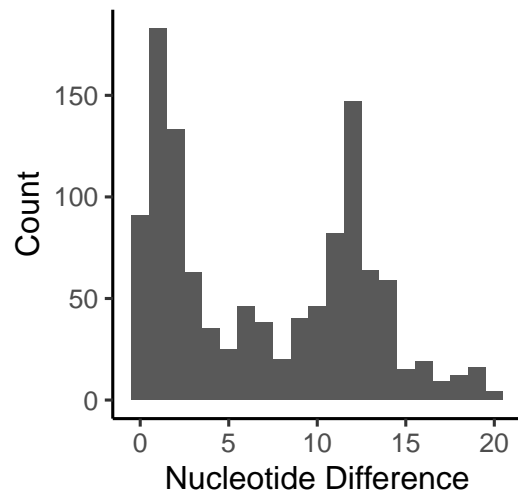
IGHV5-51*01

1424 sequences assigned
186 (13.1%) exact matches, in which:
131 unique CDR3
6 unique J



IGHV6-1*01

1180 sequences assigned
91 (7.7%) exact matches, in which:
57 unique CDR3
4 unique J





[illegible]