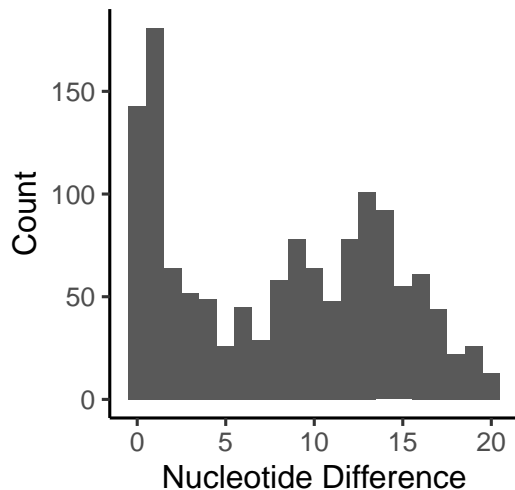


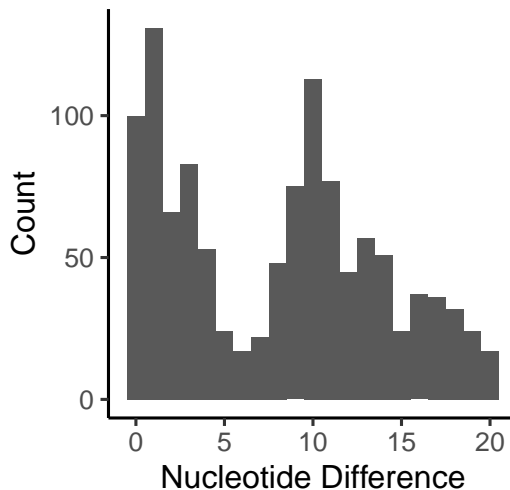
IGHV1-2*02

1757 sequences assigned
143 (8.1%) exact matches, in which:
112 unique CDR3
6 unique J



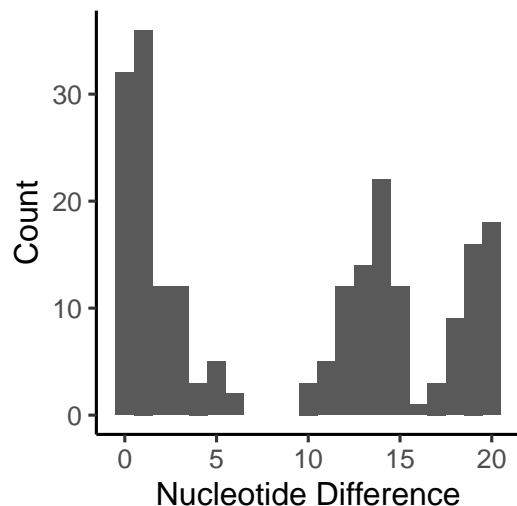
IGHV1-18*01

1424 sequences assigned
100 (7%) exact matches, in which:
79 unique CDR3
5 unique J



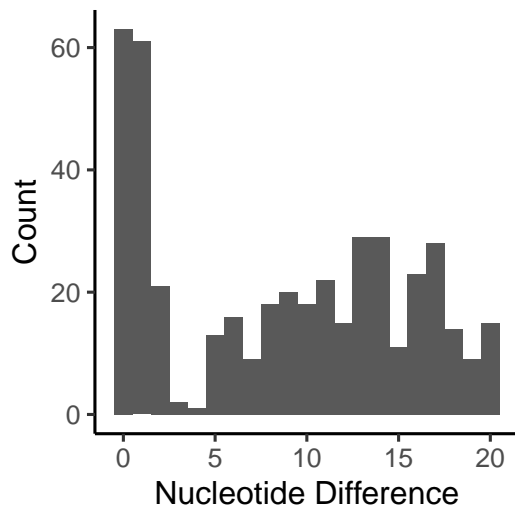
IGHV1-46*01

292 sequences assigned
32 (11%) exact matches, in which:
23 unique CDR3
5 unique J



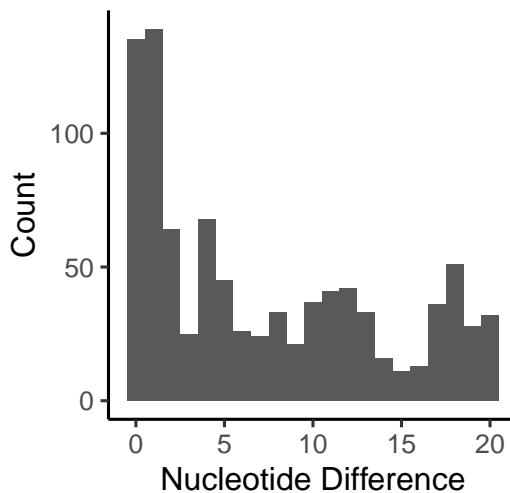
IGHV1-3*01

677 sequences assigned
63 (9.3%) exact matches, in which:
50 unique CDR3
6 unique J



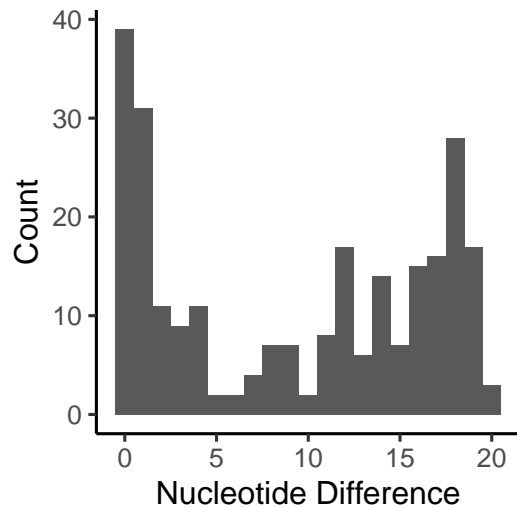
IGHV1-18*04

1181 sequences assigned
135 (11.4%) exact matches, in which:
101 unique CDR3
6 unique J



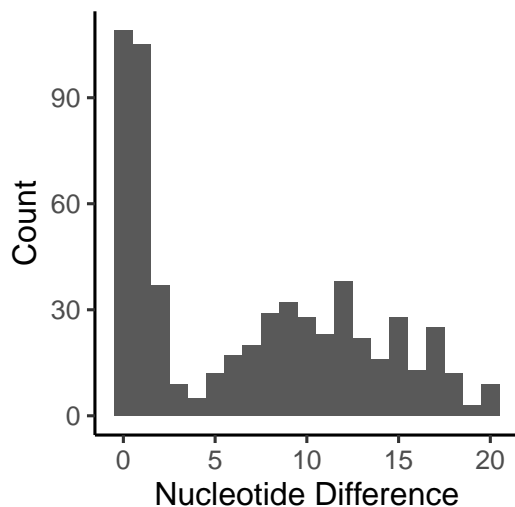
IGHV1-46*03

370 sequences assigned
39 (10.5%) exact matches, in which:
27 unique CDR3
5 unique J



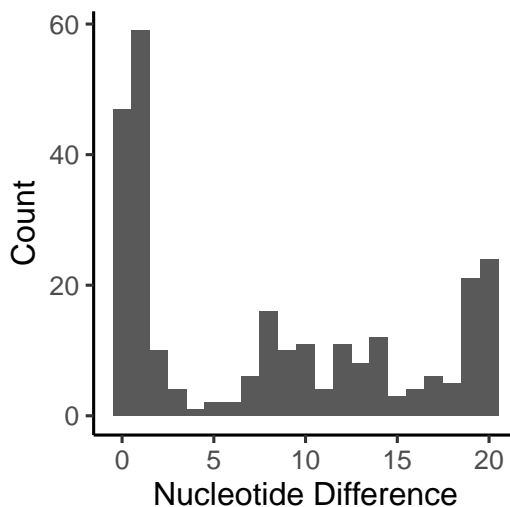
IGHV1-8*01

754 sequences assigned
109 (14.5%) exact matches, in which:
79 unique CDR3
6 unique J



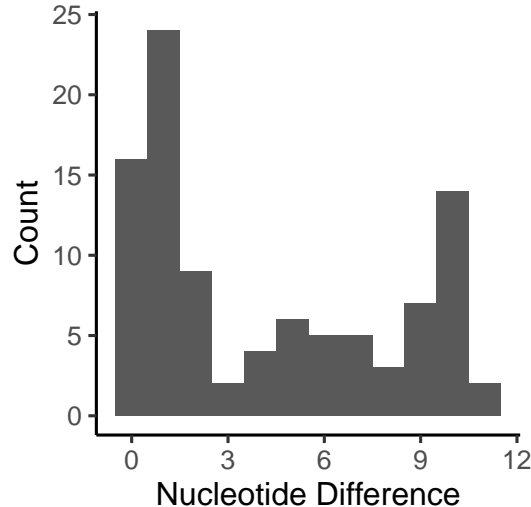
IGHV1-24*01

369 sequences assigned
47 (12.7%) exact matches, in which:
39 unique CDR3
6 unique J



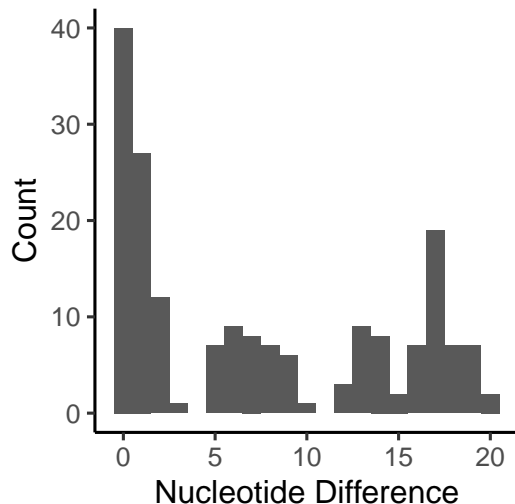
IGHV1-58*02

103 sequences assigned
16 (15.5%) exact matches, in which:
8 unique CDR3
2 unique J



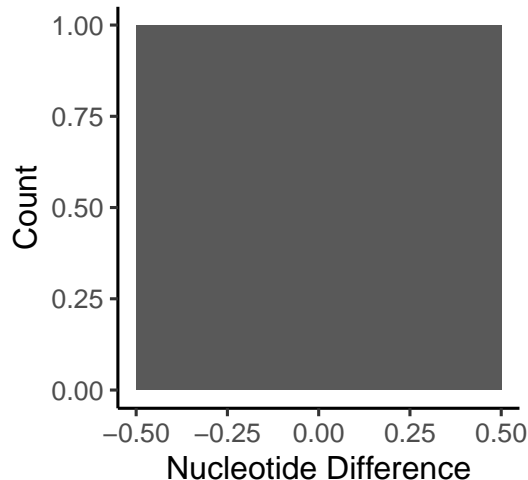
IGHV1-69*02

228 sequences assigned
40 (17.5%) exact matches, in which:
35 unique CDR3
6 unique J



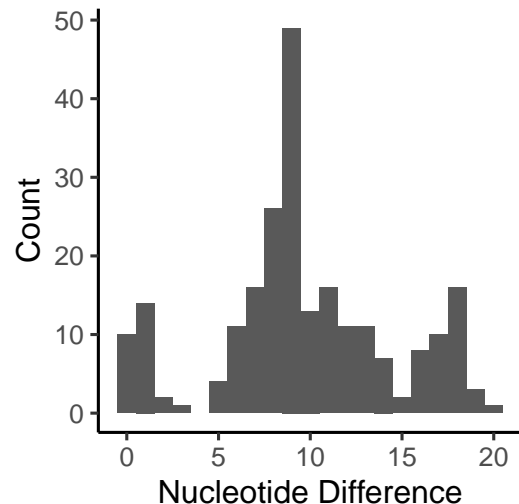
IGHV1-69D*01

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



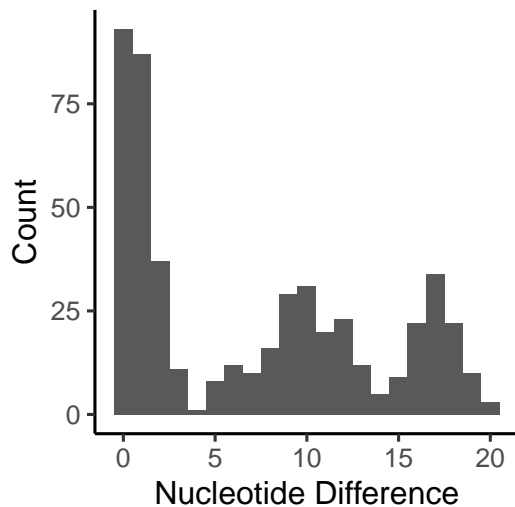
IGHV2-70*15

234 sequences assigned
10 (4.3%) exact matches, in which:
10 unique CDR3
4 unique J



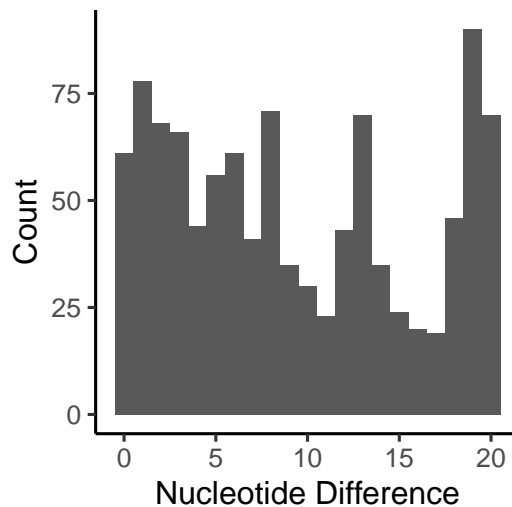
IGHV1-69*04

747 sequences assigned
93 (12.4%) exact matches, in which:
80 unique CDR3
5 unique J



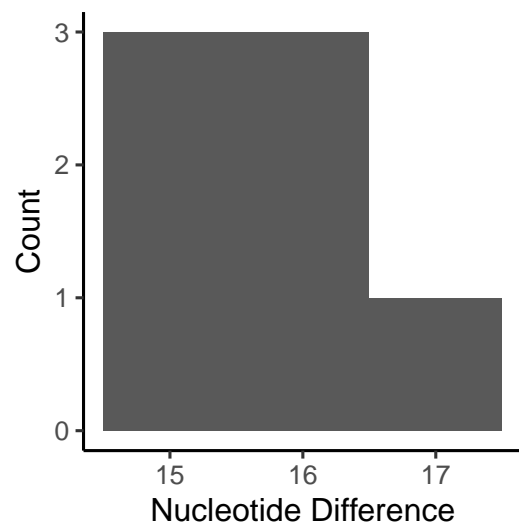
IGHV2-5*02

1188 sequences assigned
61 (5.1%) exact matches, in which:
50 unique CDR3
5 unique J



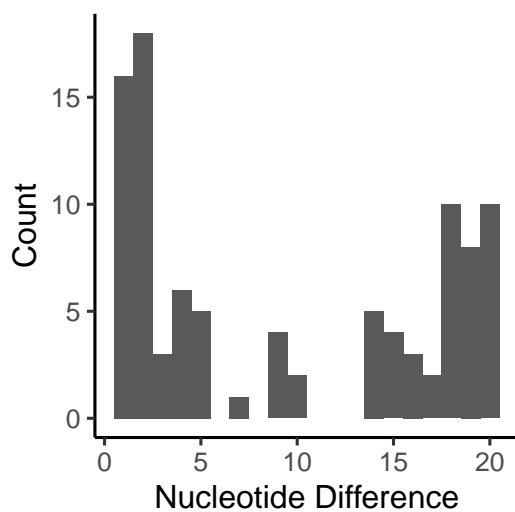
IGHV2-70D*04

7 sequences assigned
No exact matches.



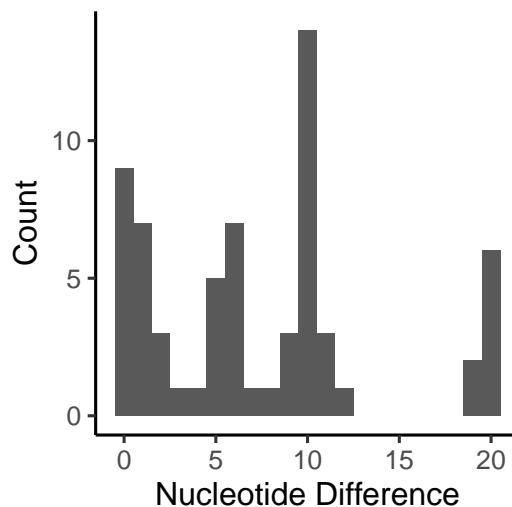
IGHV1-69*08

228 sequences assigned
No exact matches.



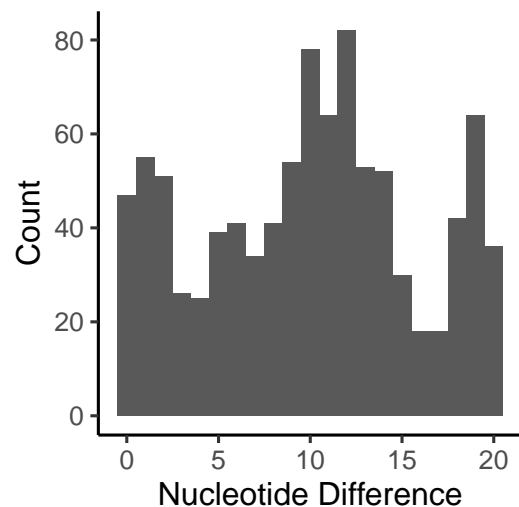
IGHV2-26*01

67 sequences assigned
9 (13.4%) exact matches, in which:
7 unique CDR3
3 unique J



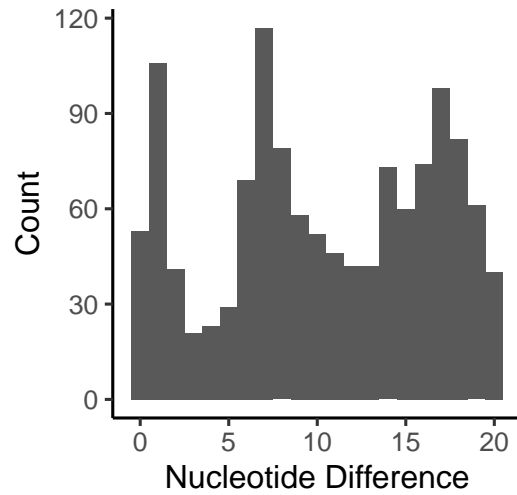
IGHV3-7*01

1187 sequences assigned
47 (4%) exact matches, in which:
41 unique CDR3
6 unique J



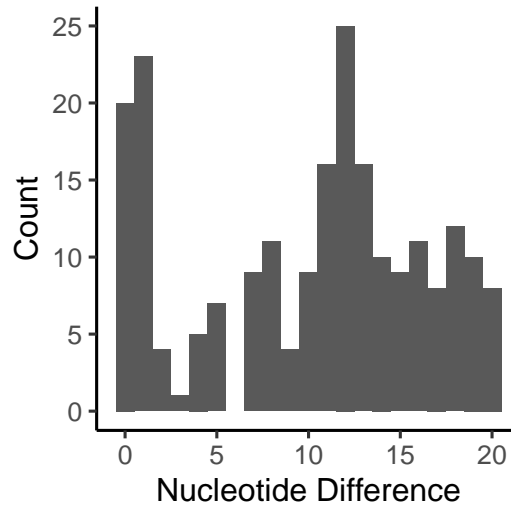
IGHV3-7*03

1629 sequences assigned
53 (3.3%) exact matches, in which:
40 unique CDR3
5 unique J



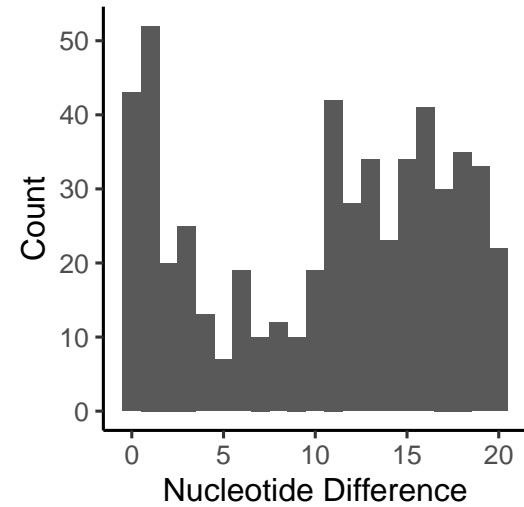
IGHV3-11*06

270 sequences assigned
20 (7.4%) exact matches, in which:
19 unique CDR3
5 unique J



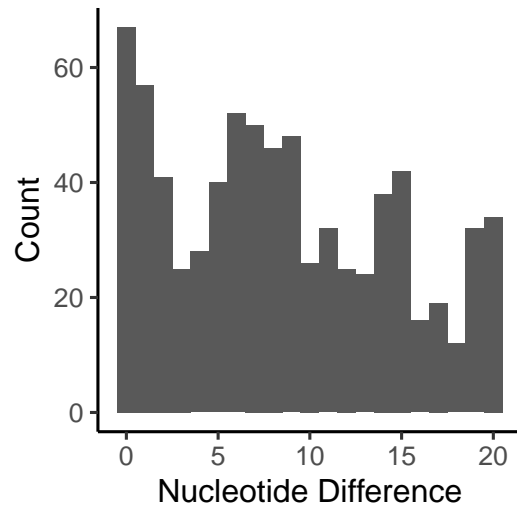
IGHV3-15*01

765 sequences assigned
43 (5.6%) exact matches, in which:
41 unique CDR3
4 unique J



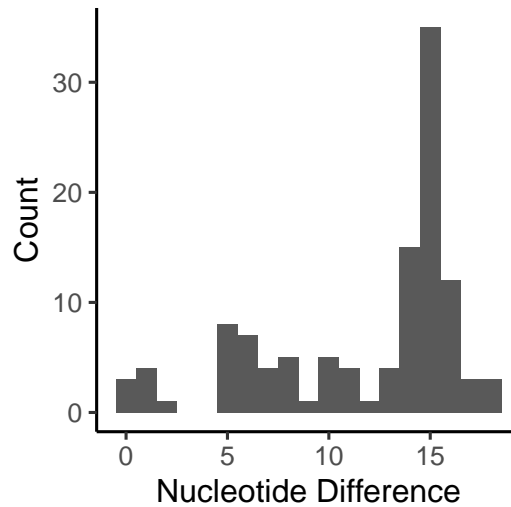
IGHV3-9*01

864 sequences assigned
67 (7.8%) exact matches, in which:
60 unique CDR3
5 unique J



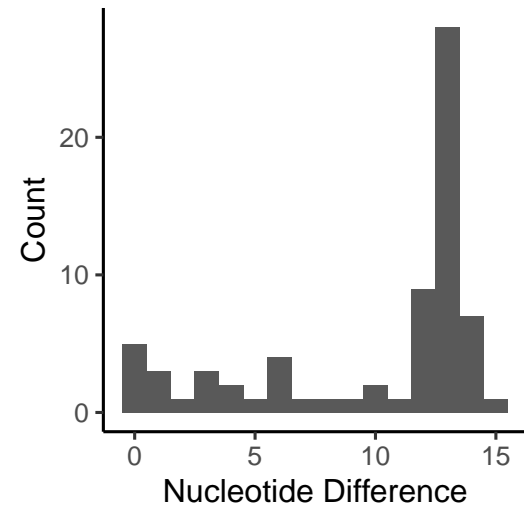
IGHV3-13*01

133 sequences assigned
3 (2.3%) exact matches, in which:
3 unique CDR3
3 unique J



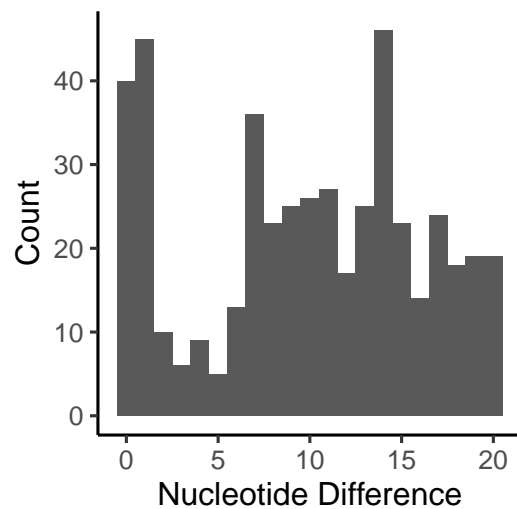
IGHV3-20*01

72 sequences assigned
5 (6.9%) exact matches, in which:
5 unique CDR3
3 unique J



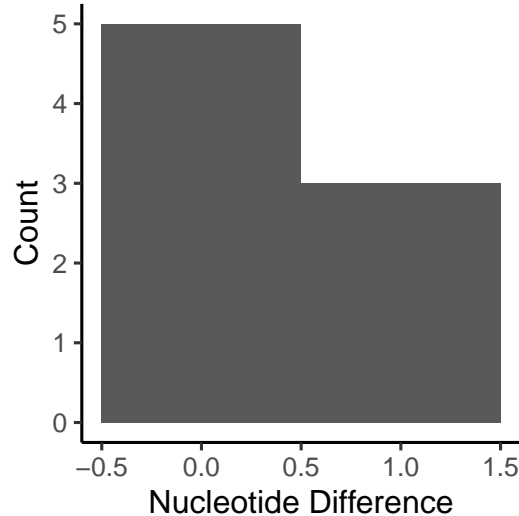
IGHV3-11*01

671 sequences assigned
40 (6%) exact matches, in which:
35 unique CDR3
4 unique J



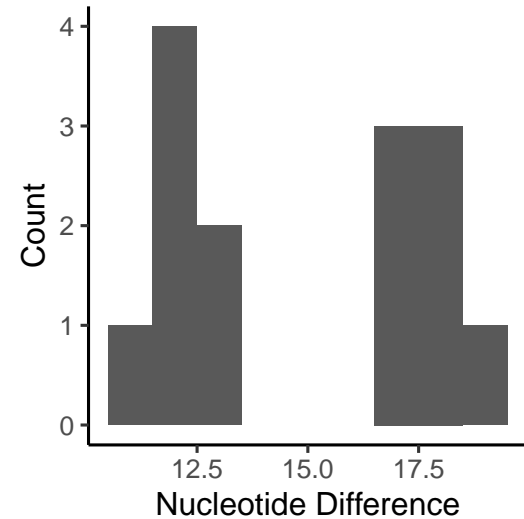
IGHV3-13*05

8 sequences assigned
5 (62.5%) exact matches, in which:
2 unique CDR3
2 unique J



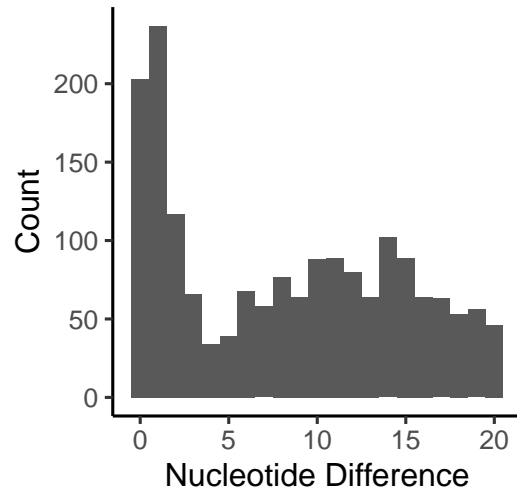
IGHV3-20*04

17 sequences assigned
No exact matches.



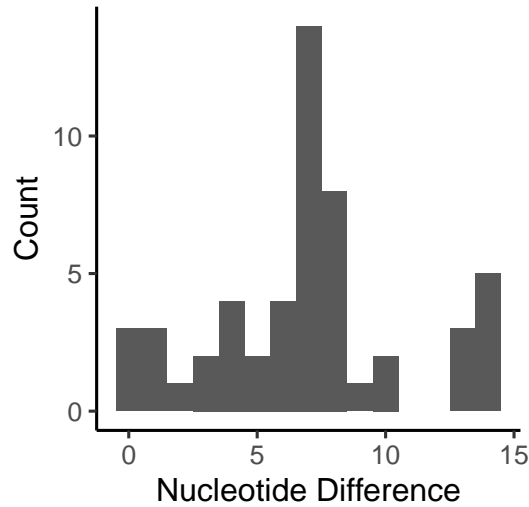
IGHV3-21*01

2361 sequences assigned
203 (8.6%) exact matches, in which:
160 unique CDR3
6 unique J



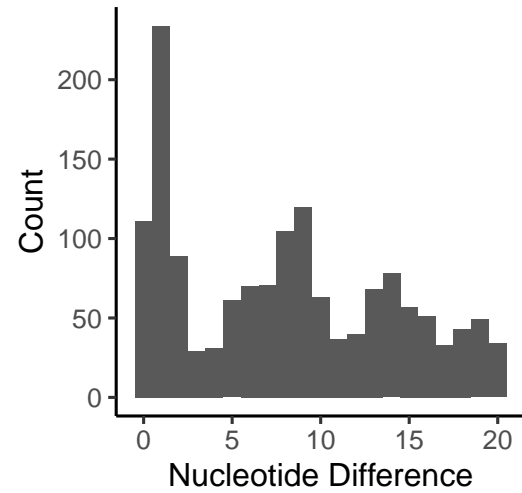
IGHV3-43*01

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



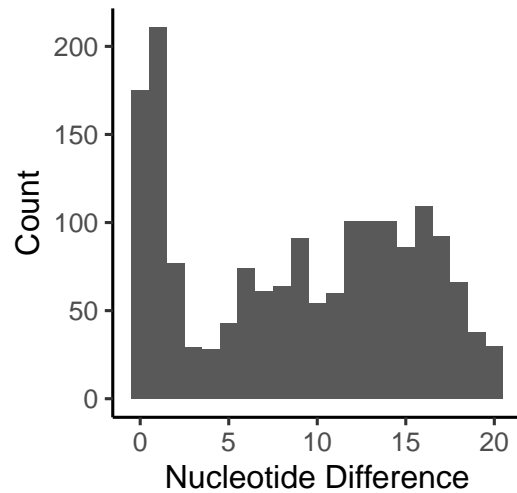
IGHV3-48*03

1708 sequences assigned
111 (6.5%) exact matches, in which:
80 unique CDR3
4 unique J



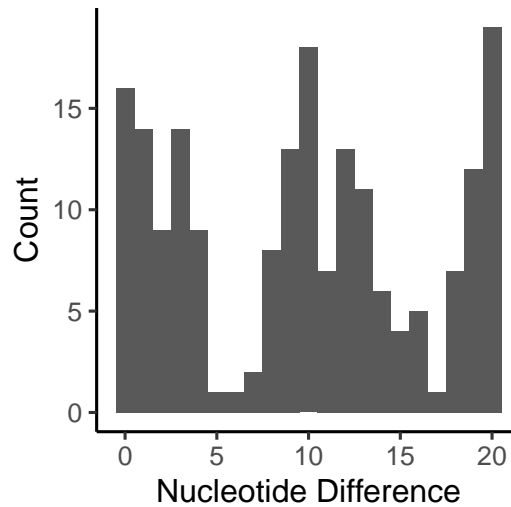
IGHV3-30-3*01

2172 sequences assigned
175 (8.1%) exact matches, in which:
150 unique CDR3
6 unique J



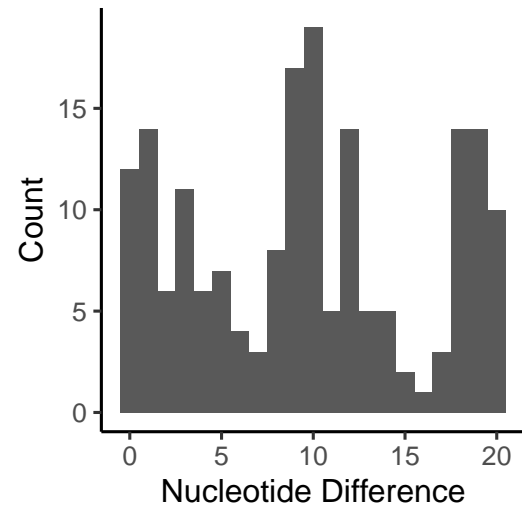
IGHV3-43*02

234 sequences assigned
16 (6.8%) exact matches, in which:
14 unique CDR3
3 unique J



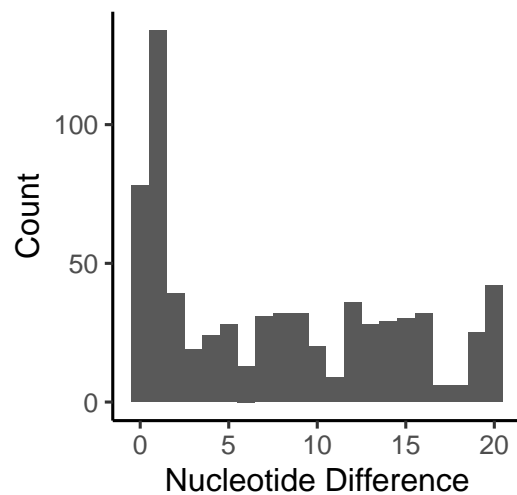
IGHV3-49*03

341 sequences assigned
12 (3.5%) exact matches, in which:
12 unique CDR3
3 unique J



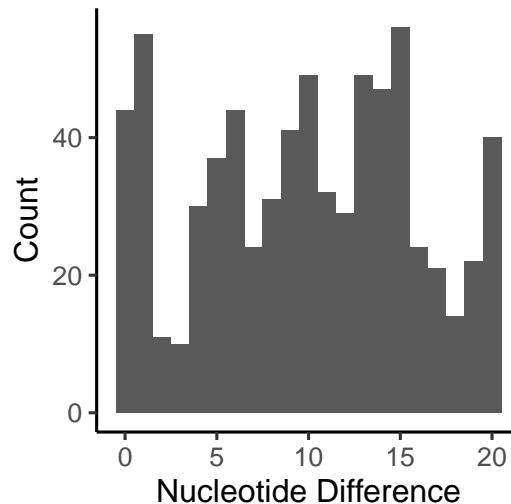
IGHV3-33*01

856 sequences assigned
78 (9.1%) exact matches, in which:
53 unique CDR3
4 unique J



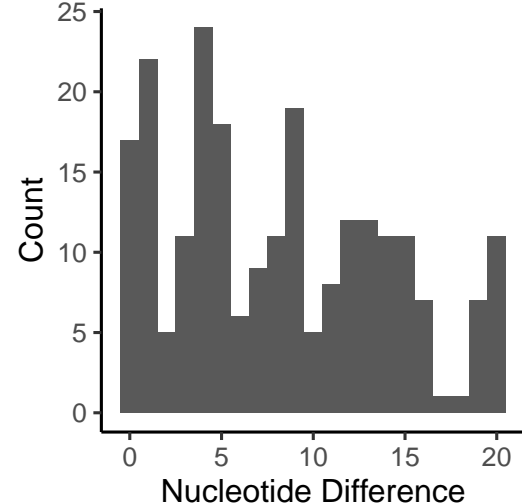
IGHV3-48*01

894 sequences assigned
44 (4.9%) exact matches, in which:
33 unique CDR3
4 unique J



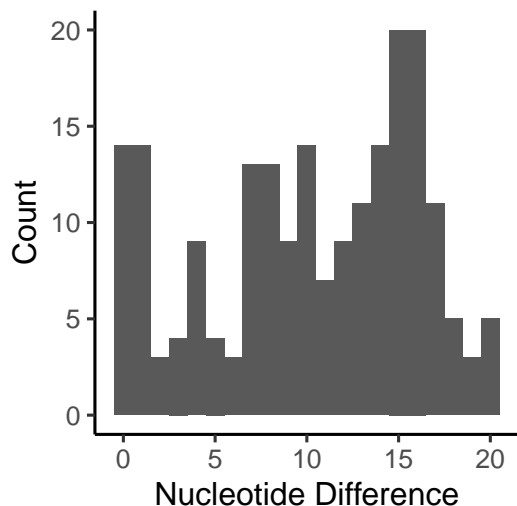
IGHV3-49*04

303 sequences assigned
17 (5.6%) exact matches, in which:
16 unique CDR3
5 unique J



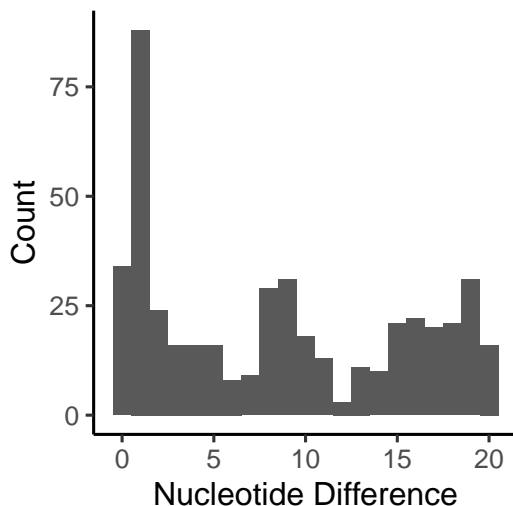
IGHV3-53*02

419 sequences assigned
14 (3.3%) exact matches, in which:
13 unique CDR3
5 unique J



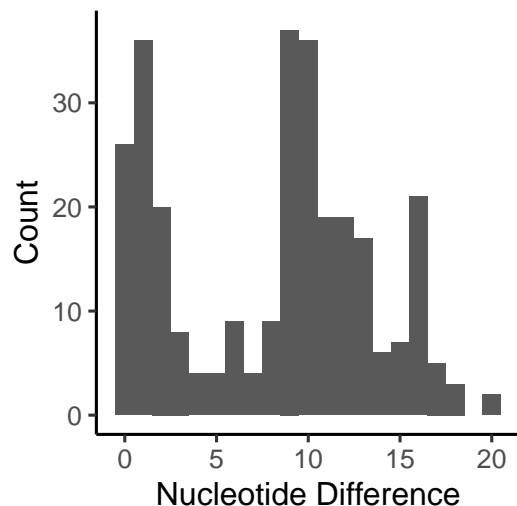
IGHV3-66*01

543 sequences assigned
34 (6.3%) exact matches, in which:
26 unique CDR3
4 unique J



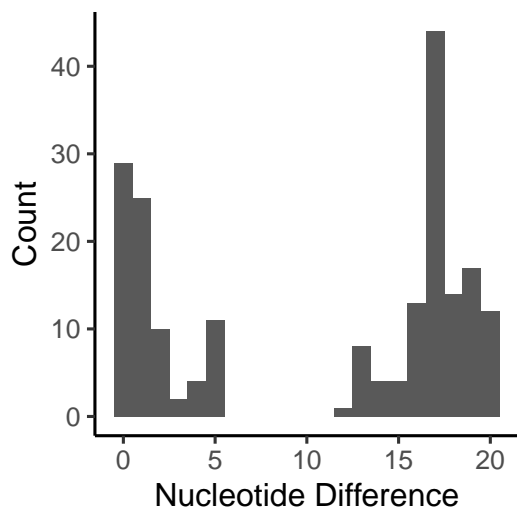
IGHV3-73*01

377 sequences assigned
26 (6.9%) exact matches, in which:
22 unique CDR3
4 unique J



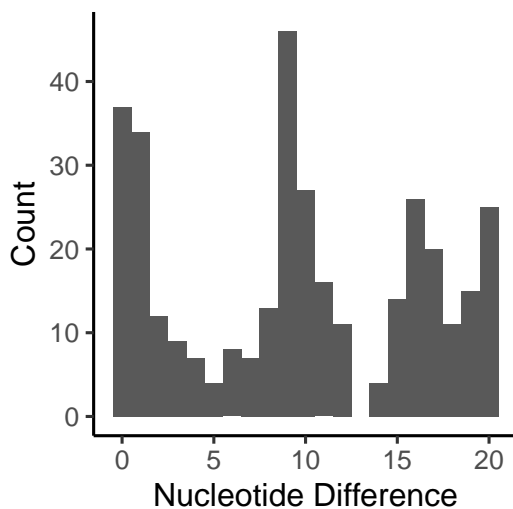
IGHV3-53*04

255 sequences assigned
29 (11.4%) exact matches, in which:
23 unique CDR3
4 unique J



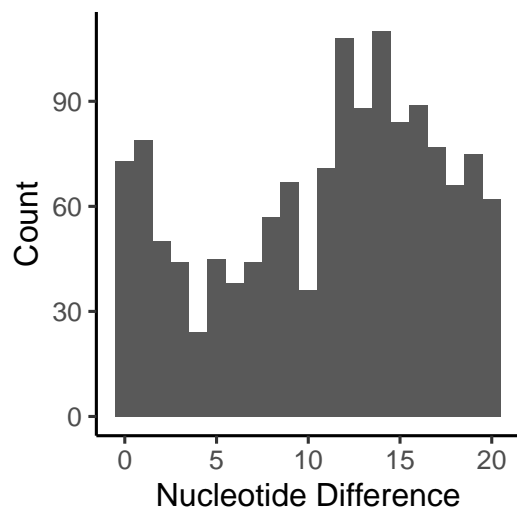
IGHV3-66*02

551 sequences assigned
37 (6.7%) exact matches, in which:
33 unique CDR3
4 unique J



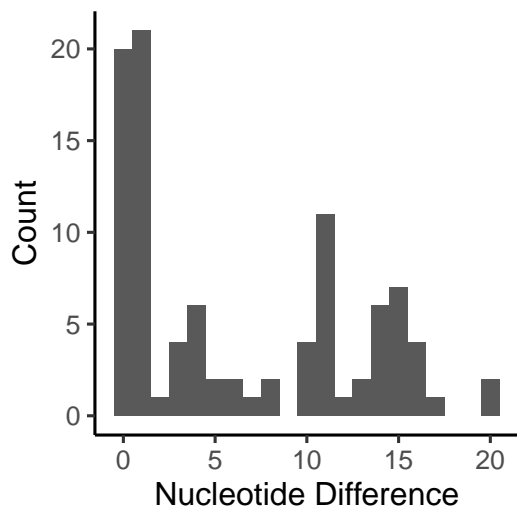
IGHV3-74*01

1872 sequences assigned
73 (3.9%) exact matches, in which:
62 unique CDR3
4 unique J



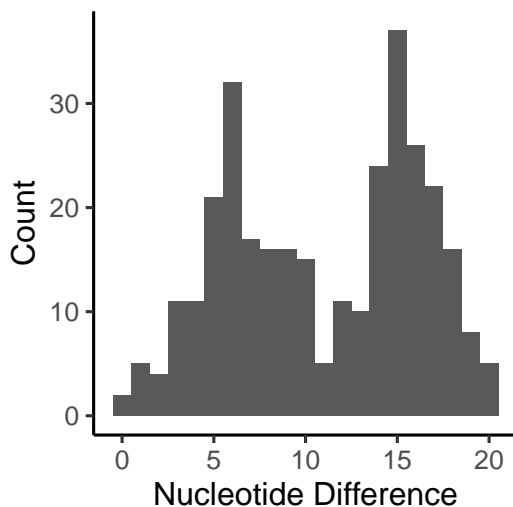
IGHV3-64*01

139 sequences assigned
20 (14.4%) exact matches, in which:
13 unique CDR3
3 unique J



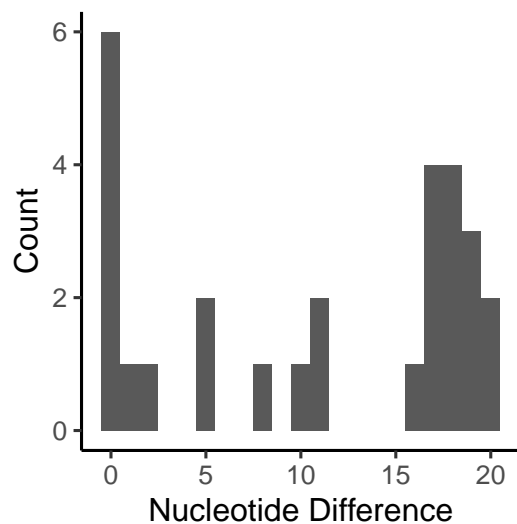
IGHV3-72*01

443 sequences assigned
2 (0.5%) exact matches, in which:
2 unique CDR3
1 unique J



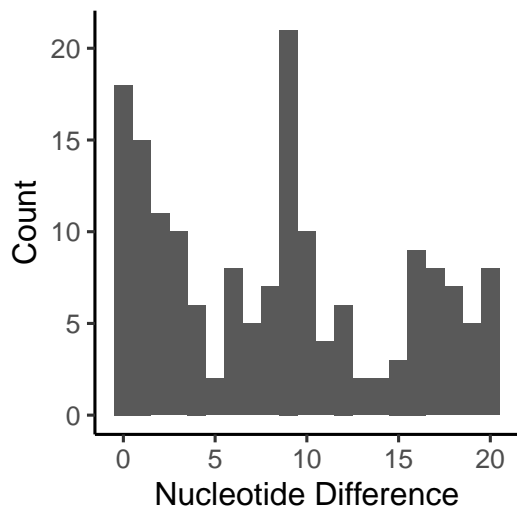
IGHV3-43D*03

30 sequences assigned
6 (20%) exact matches, in which:
6 unique CDR3
3 unique J



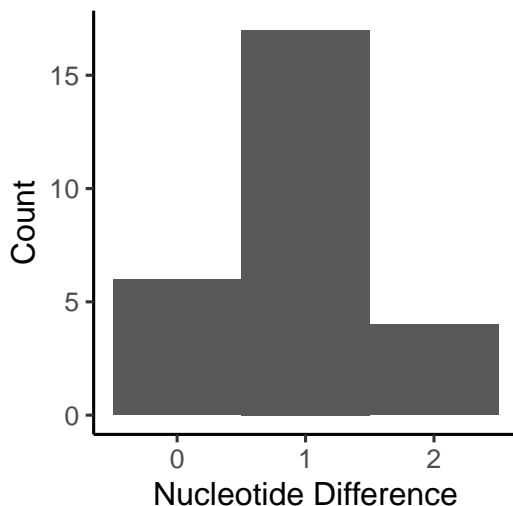
IGHV3-64D*06

248 sequences assigned
18 (7.3%) exact matches, in which:
17 unique CDR3
4 unique J



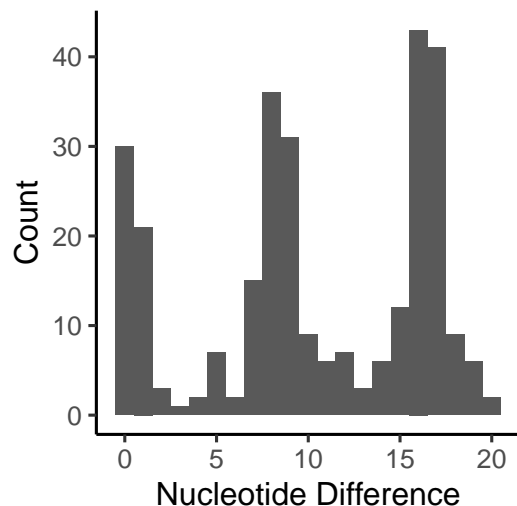
IGHV4-28*01

27 sequences assigned
6 (22.2%) exact matches, in which:
3 unique CDR3
1 unique J



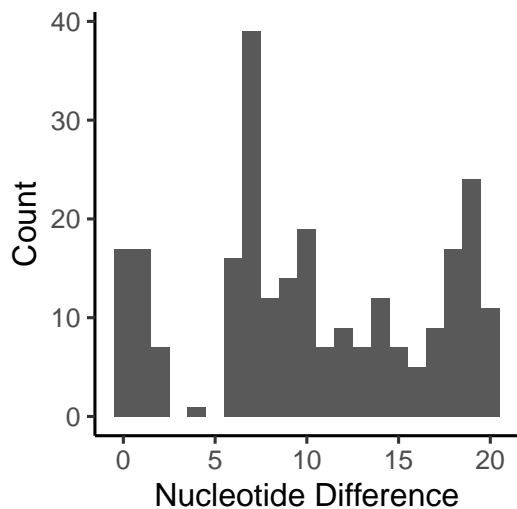
IGHV4-31*03

583 sequences assigned
30 (5.1%) exact matches, in which:
24 unique CDR3
6 unique J



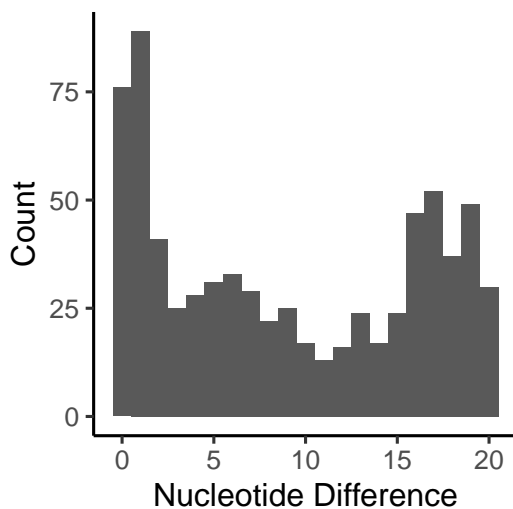
IGHV4-4*02

394 sequences assigned
17 (4.3%) exact matches, in which:
16 unique CDR3
4 unique J



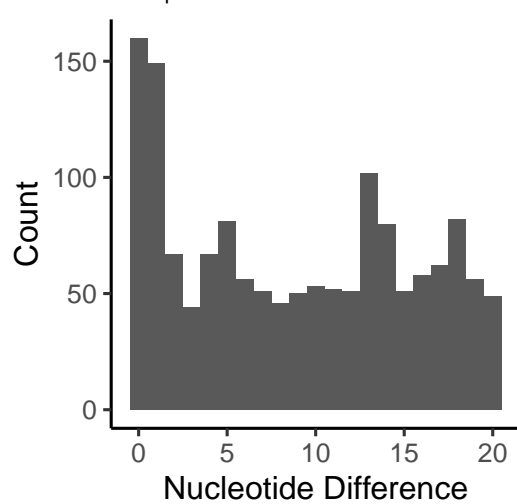
IGHV4-30-4*01

1062 sequences assigned
76 (7.2%) exact matches, in which:
62 unique CDR3
4 unique J



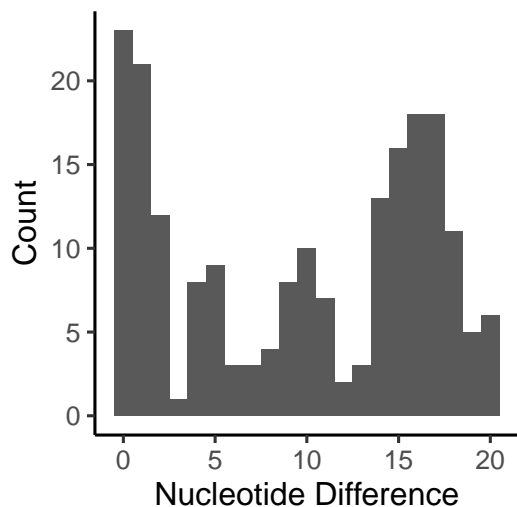
IGHV4-34*01

2028 sequences assigned
160 (7.9%) exact matches, in which:
143 unique CDR3
6 unique J



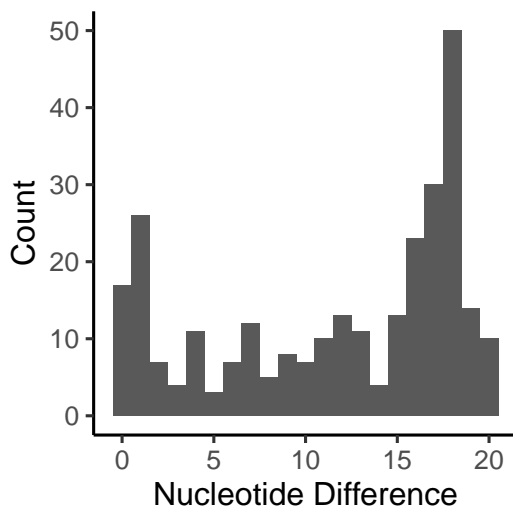
IGHV4-4*07

255 sequences assigned
23 (9%) exact matches, in which:
18 unique CDR3
4 unique J



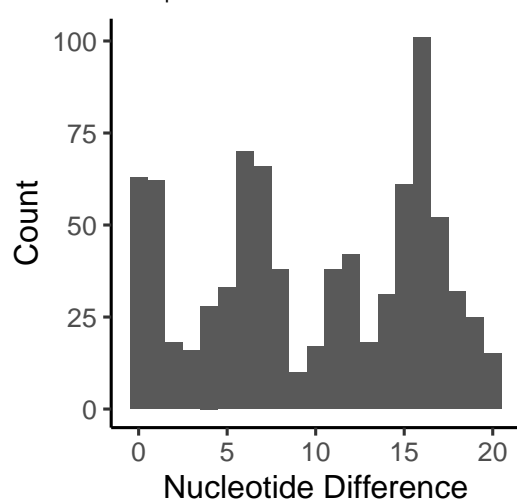
IGHV4-30-2*01

461 sequences assigned
17 (3.7%) exact matches, in which:
16 unique CDR3
5 unique J



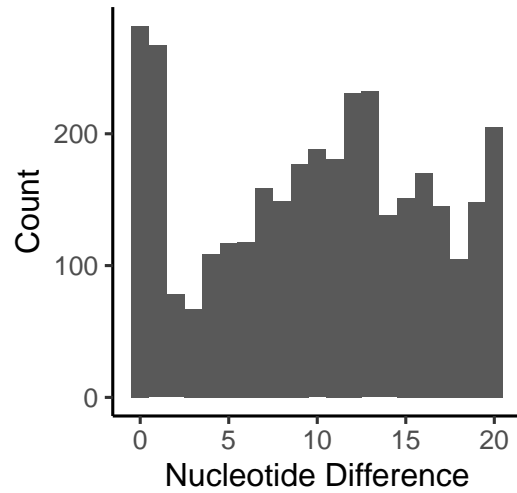
IGHV4-38-2*02

1262 sequences assigned
63 (5%) exact matches, in which:
55 unique CDR3
6 unique J



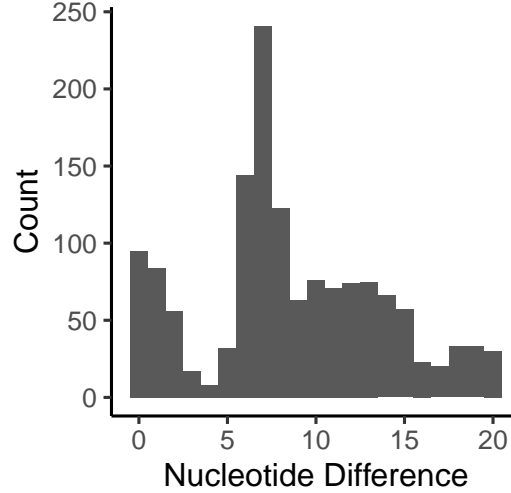
IGHV4–39*01

5161 sequences assigned
282 (5.5%) exact matches, in which:
264 unique CDR3
6 unique J



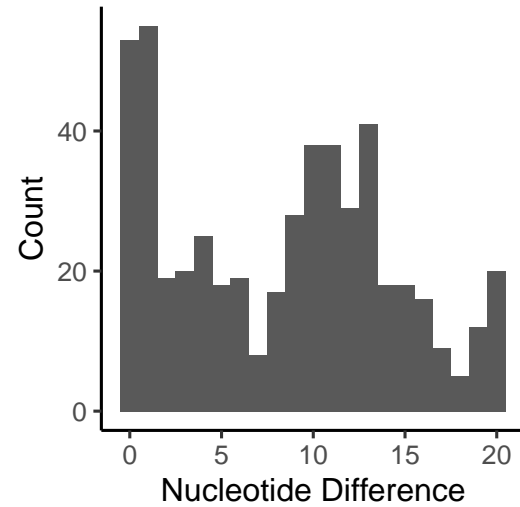
IGHV4–61*02

1813 sequences assigned
95 (5.2%) exact matches, in which:
69 unique CDR3
6 unique J



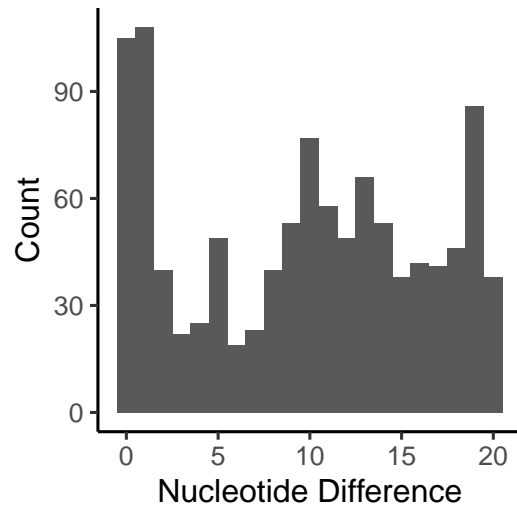
IGHV5–51*03

632 sequences assigned
53 (8.4%) exact matches, in which:
48 unique CDR3
5 unique J



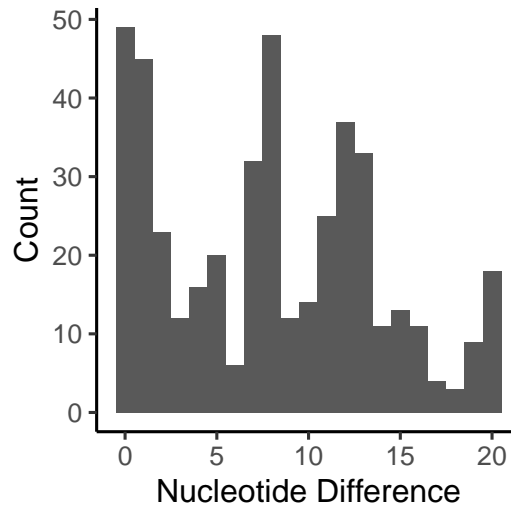
IGHV4–59*01

1288 sequences assigned
105 (8.2%) exact matches, in which:
87 unique CDR3
6 unique J



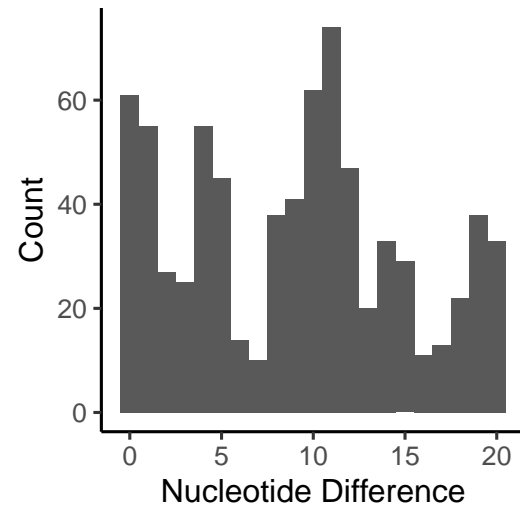
IGHV5–10–1*03

632 sequences assigned
49 (7.8%) exact matches, in which:
44 unique CDR3
5 unique J



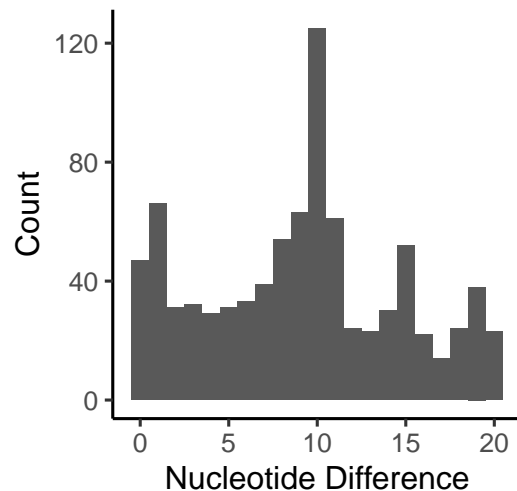
IGHV6–1*01

798 sequences assigned
61 (7.6%) exact matches, in which:
46 unique CDR3
6 unique J



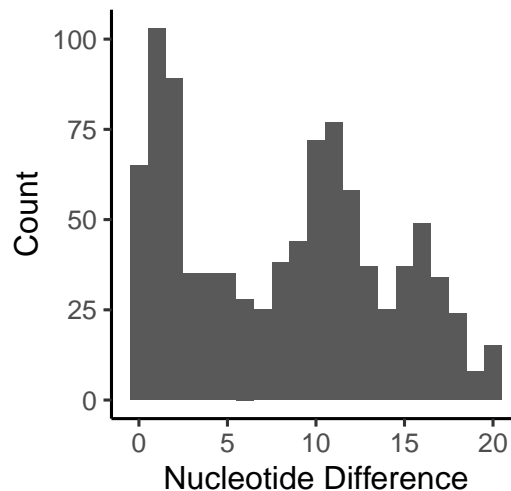
IGHV4–59*08

1063 sequences assigned
47 (4.4%) exact matches, in which:
36 unique CDR3
5 unique J



IGHV5–51*01

1176 sequences assigned
65 (5.5%) exact matches, in which:
57 unique CDR3
5 unique J





Warning – no inferred sequences found.