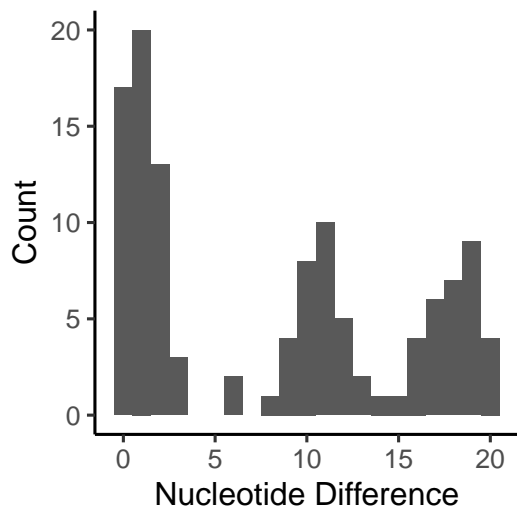


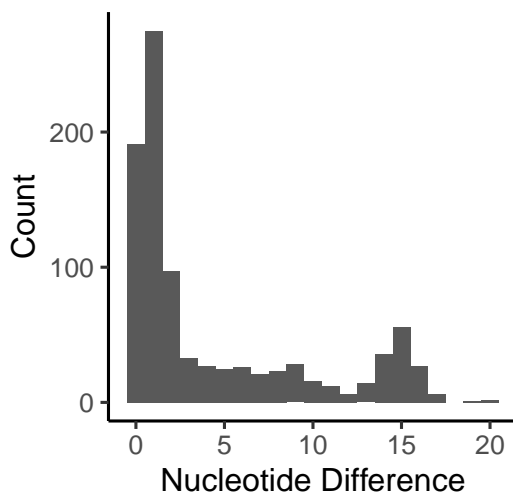
IGHV1-2*04

118 sequences assigned
17 (14.4%) exact matches, in which:
11 unique CDR3
4 unique J



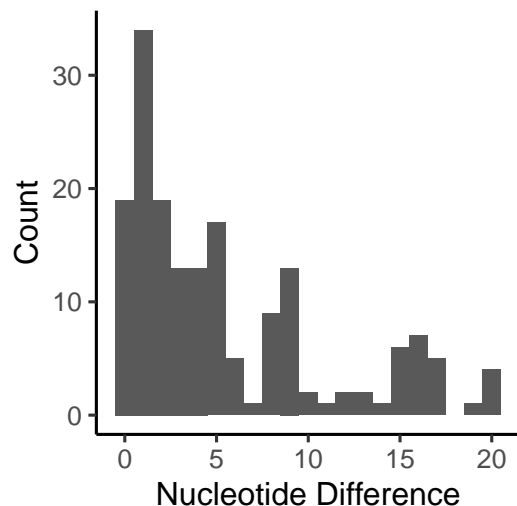
IGHV1-18*01

933 sequences assigned
191 (20.5%) exact matches, in which:
107 unique CDR3
6 unique J



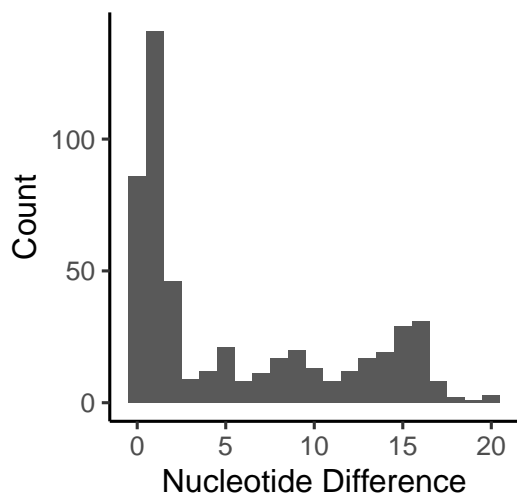
IGHV1-46*01

231 sequences assigned
19 (8.2%) exact matches, in which:
14 unique CDR3
4 unique J



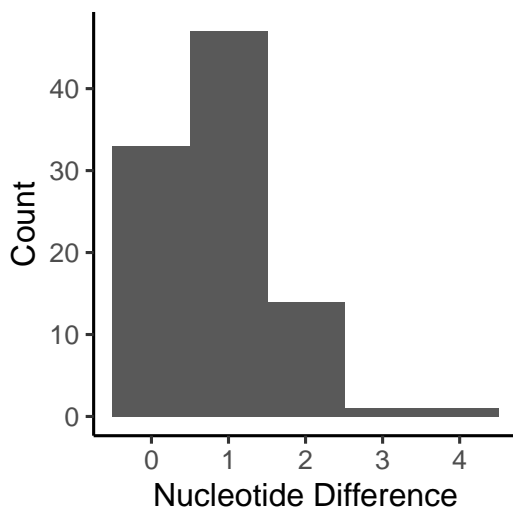
IGHV1-3*01

520 sequences assigned
86 (16.5%) exact matches, in which:
59 unique CDR3
5 unique J



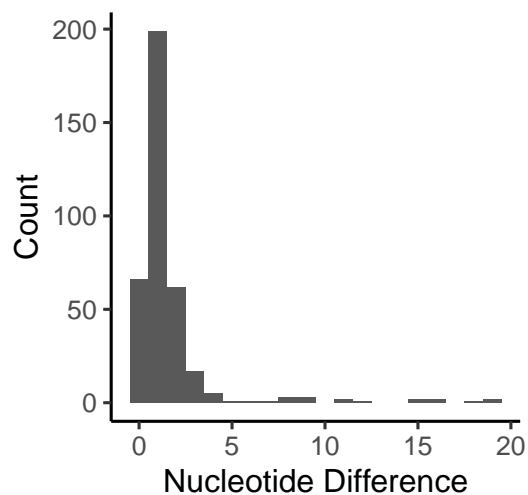
IGHV1-24*01

96 sequences assigned
33 (34.4%) exact matches, in which:
25 unique CDR3
4 unique J



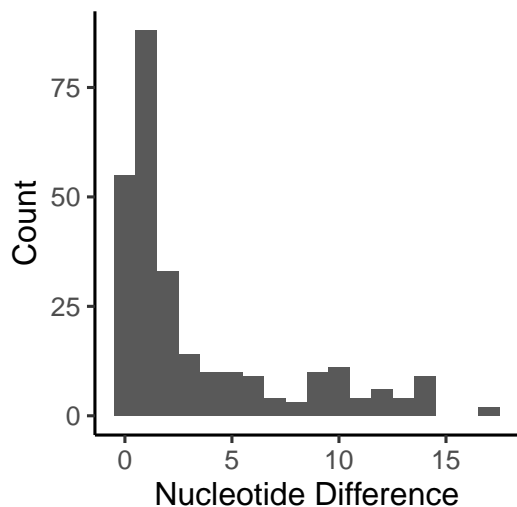
IGHV1-46*03

371 sequences assigned
66 (17.8%) exact matches, in which:
40 unique CDR3
4 unique J



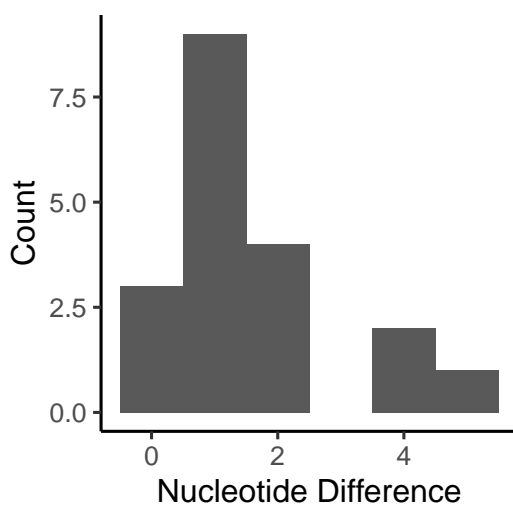
IGHV1-8*01

277 sequences assigned
55 (19.9%) exact matches, in which:
41 unique CDR3
5 unique J



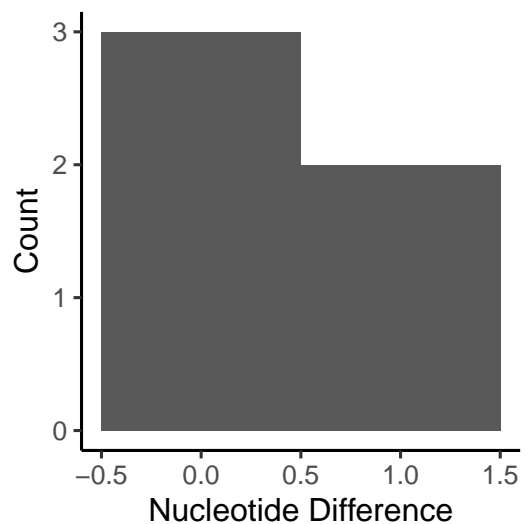
IGHV1-45*02

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



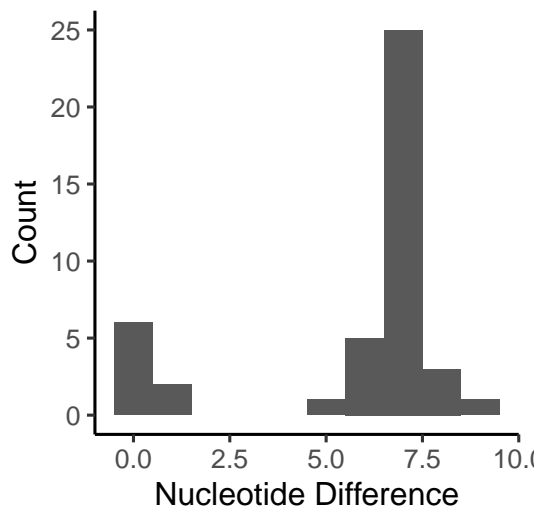
IGHV1-58*01

6 sequences assigned
3 (50%) exact matches, in which:
2 unique CDR3
1 unique J



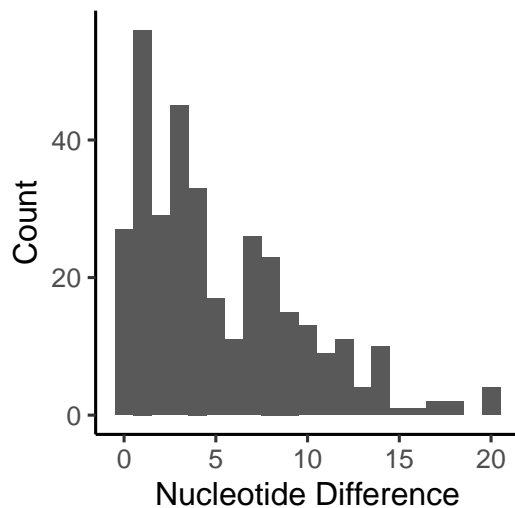
IGHV1-58*02

43 sequences assigned
6 (14%) exact matches, in which:
4 unique CDR3
1 unique J



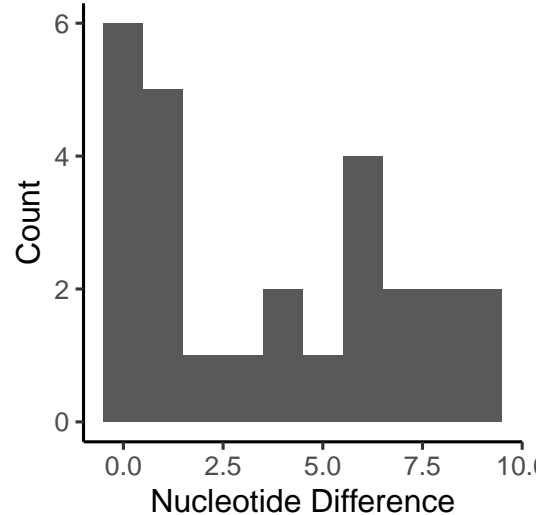
IGHV2-5*02

354 sequences assigned
27 (7.6%) exact matches, in which:
21 unique CDR3
5 unique J



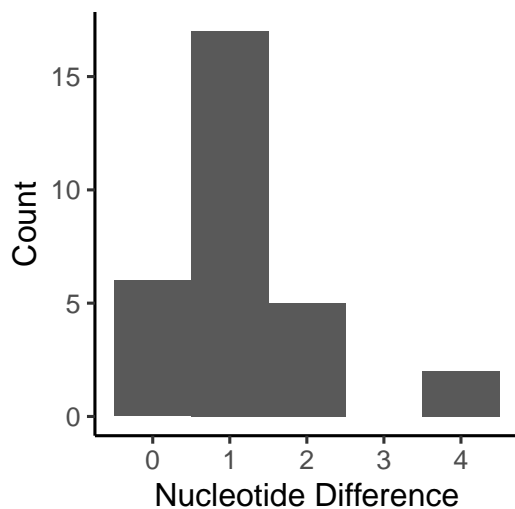
IGHV2-70*15

26 sequences assigned
6 (23.1%) exact matches, in which:
6 unique CDR3
2 unique J



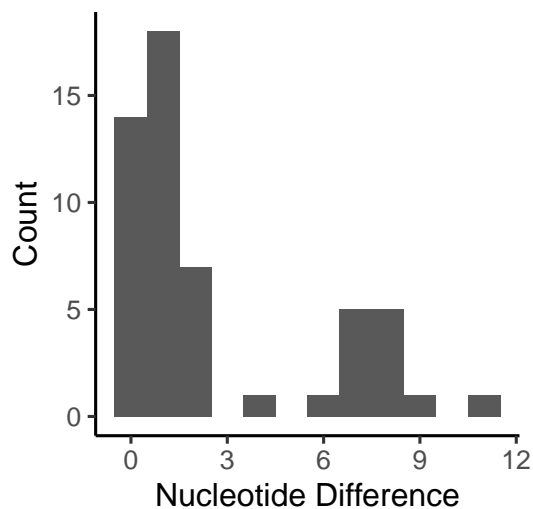
IGHV1-69-2*01

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



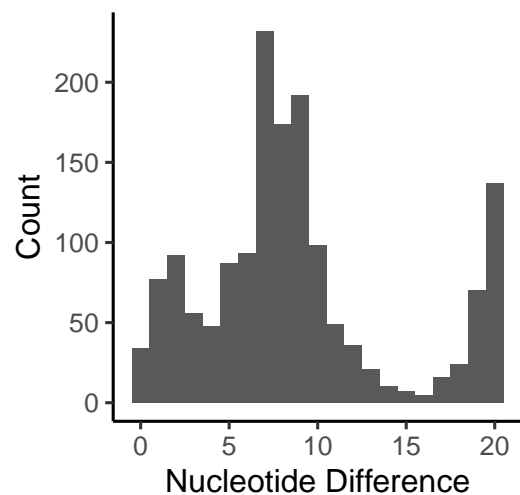
IGHV2-26*01

53 sequences assigned
14 (26.4%) exact matches, in which:
5 unique CDR3
3 unique J



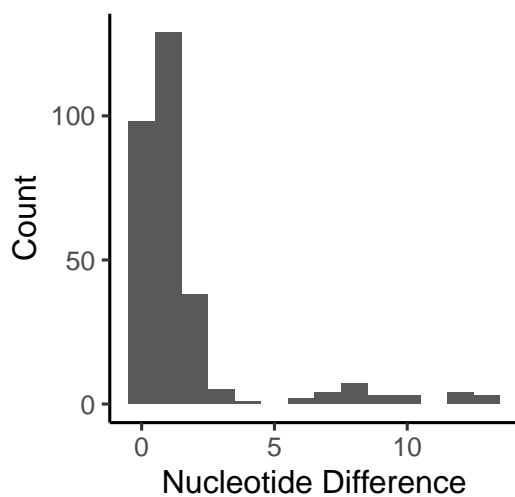
IGHV3-7*01

1997 sequences assigned
34 (1.7%) exact matches, in which:
30 unique CDR3
4 unique J



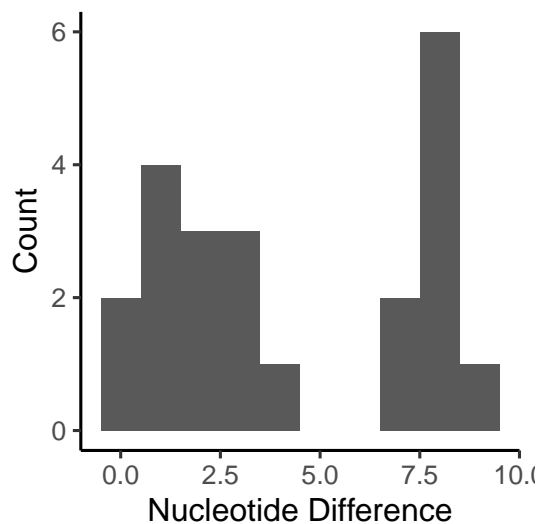
IGHV1-69*06

297 sequences assigned
98 (33%) exact matches, in which:
67 unique CDR3
5 unique J



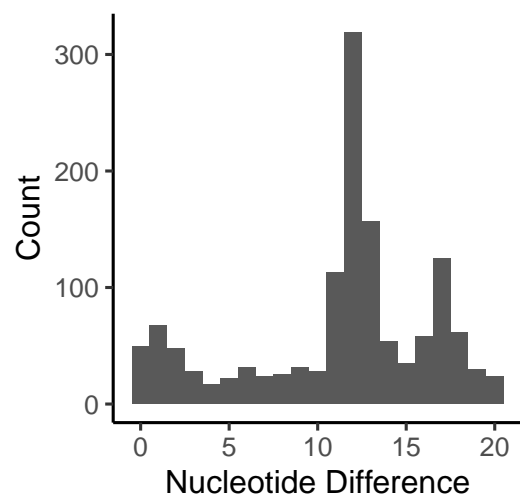
IGHV2-70*01

22 sequences assigned
2 (9.1%) exact matches, in which:
2 unique CDR3
1 unique J



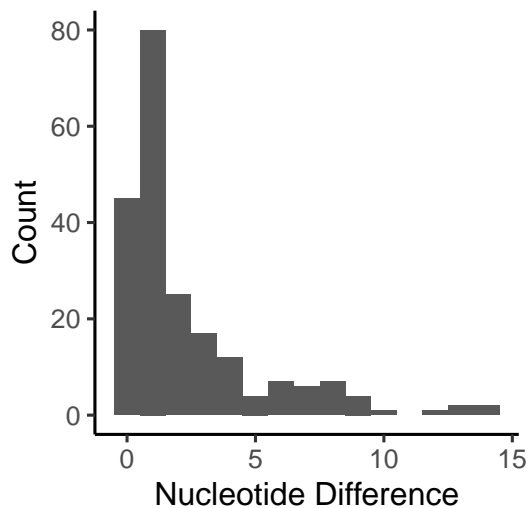
IGHV3-7*03

1494 sequences assigned
49 (3.3%) exact matches, in which:
37 unique CDR3
5 unique J



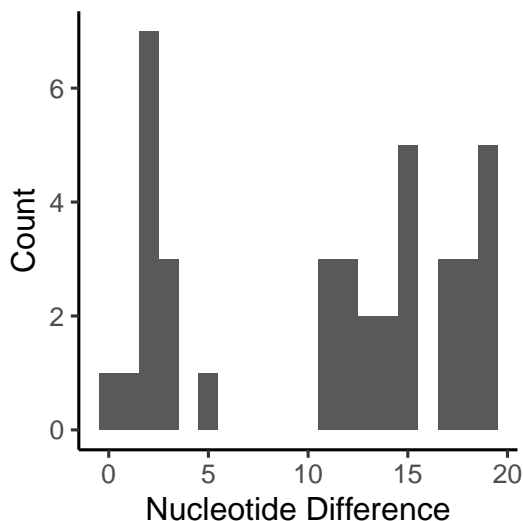
IGHV3-9*01

213 sequences assigned
45 (21.1%) exact matches, in which:
39 unique CDR3
6 unique J



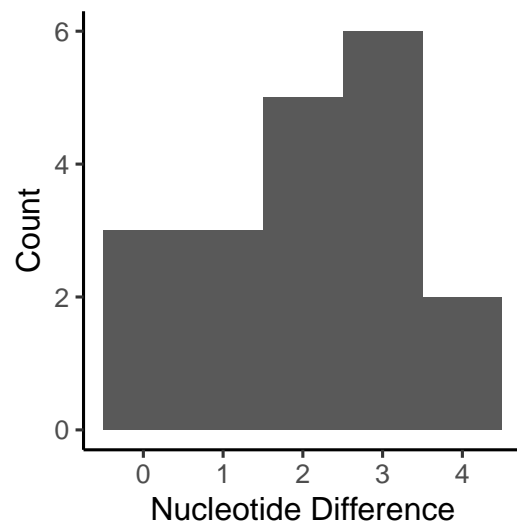
IGHV3-13*01

40 sequences assigned
1 (2.5%) exact matches, in which:
1 unique CDR3
1 unique J



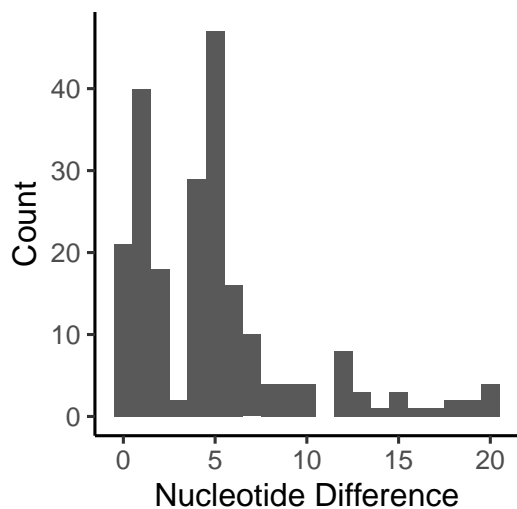
IGHV3-20*01

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



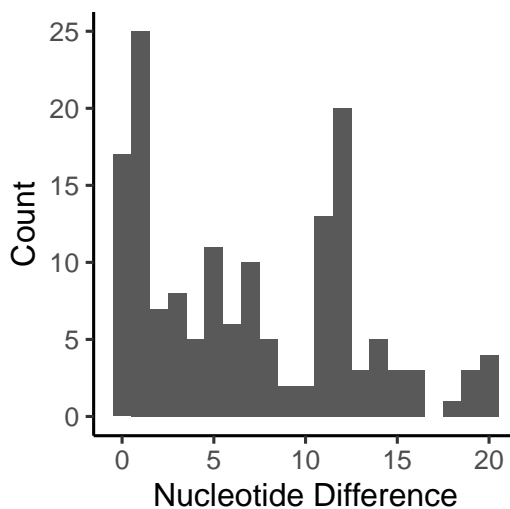
IGHV3-11*01

220 sequences assigned
21 (9.5%) exact matches, in which:
16 unique CDR3
3 unique J



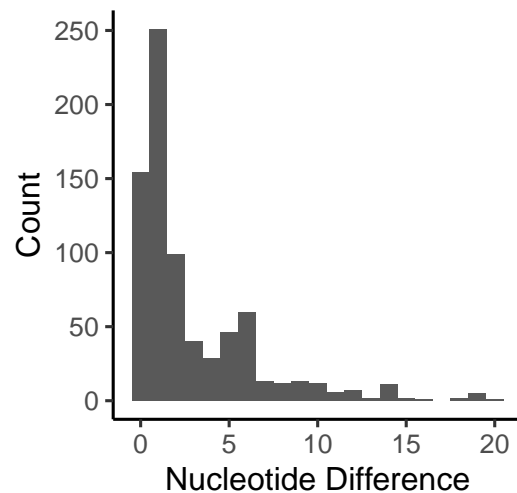
IGHV3-15*01

201 sequences assigned
17 (8.5%) exact matches, in which:
15 unique CDR3
3 unique J



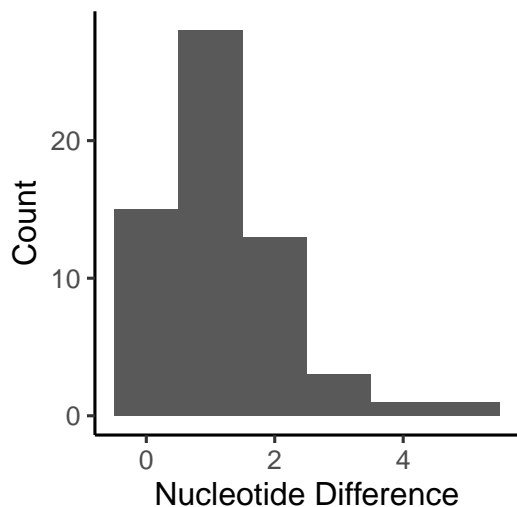
IGHV3-21*01

770 sequences assigned
154 (20%) exact matches, in which:
92 unique CDR3
5 unique J



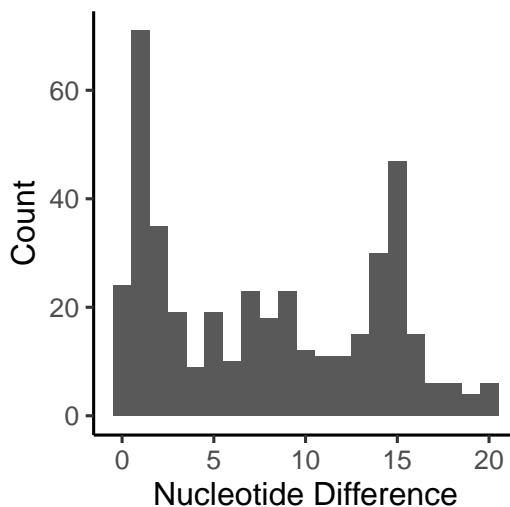
IGHV3-11*06

64 sequences assigned
15 (23.4%) exact matches, in which:
11 unique CDR3
3 unique J



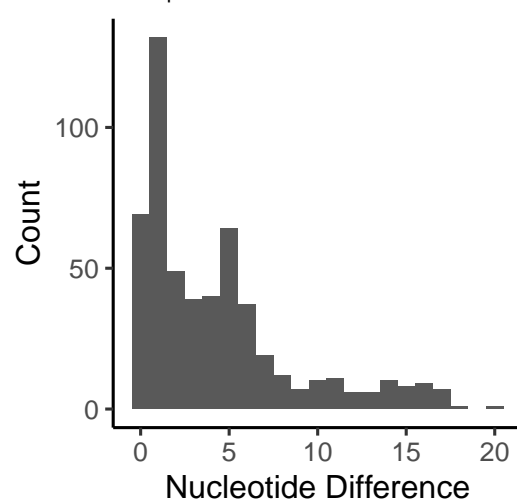
IGHV3-15*07

488 sequences assigned
24 (4.9%) exact matches, in which:
22 unique CDR3
6 unique J



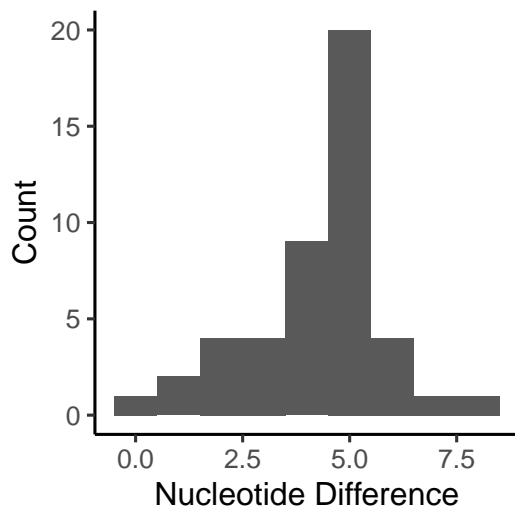
IGHV3-33*01

553 sequences assigned
69 (12.5%) exact matches, in which:
48 unique CDR3
5 unique J



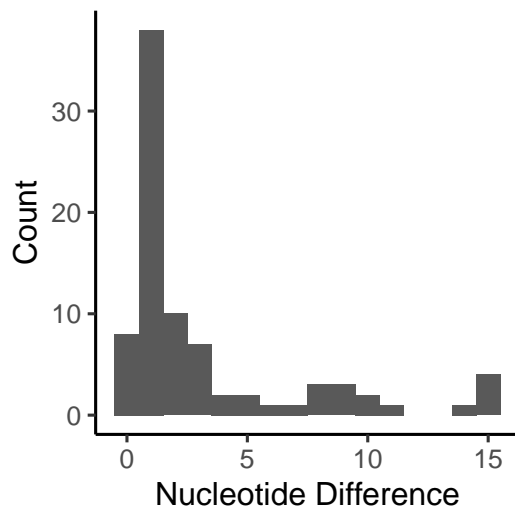
IGHV3-43*01

46 sequences assigned
1 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



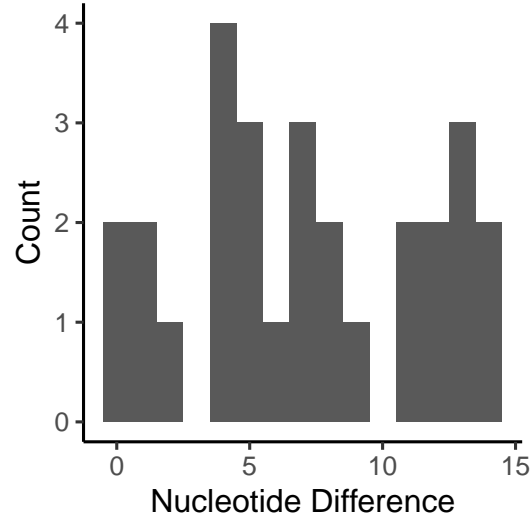
IGHV3-49*05

83 sequences assigned
8 (9.6%) exact matches, in which:
5 unique CDR3
2 unique J



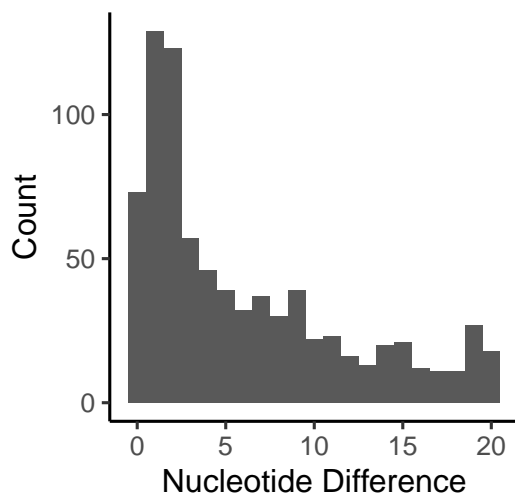
IGHV3-64*01

78 sequences assigned
2 (2.6%) exact matches, in which:
2 unique CDR3
2 unique J



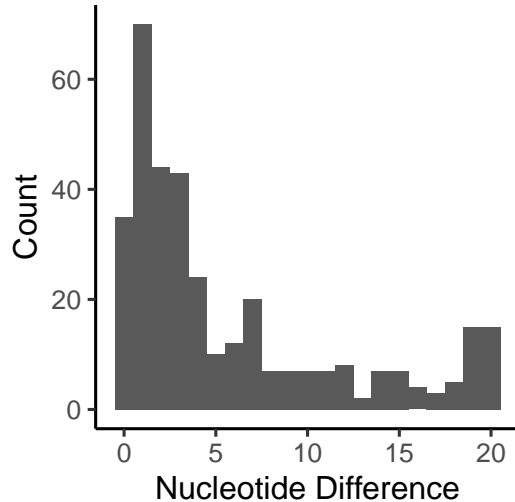
IGHV3-48*02

851 sequences assigned
73 (8.6%) exact matches, in which:
55 unique CDR3
6 unique J



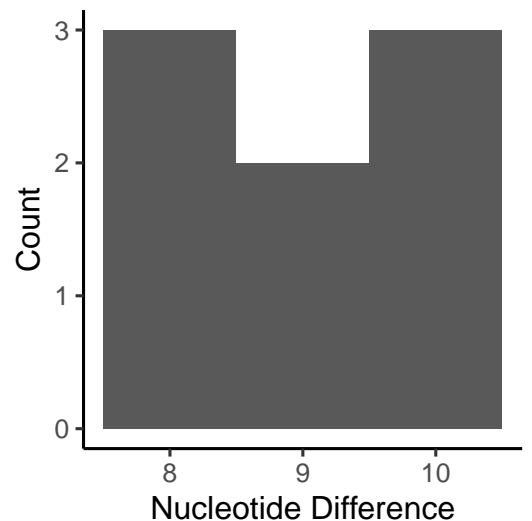
IGHV3-53*01

369 sequences assigned
35 (9.5%) exact matches, in which:
28 unique CDR3
4 unique J



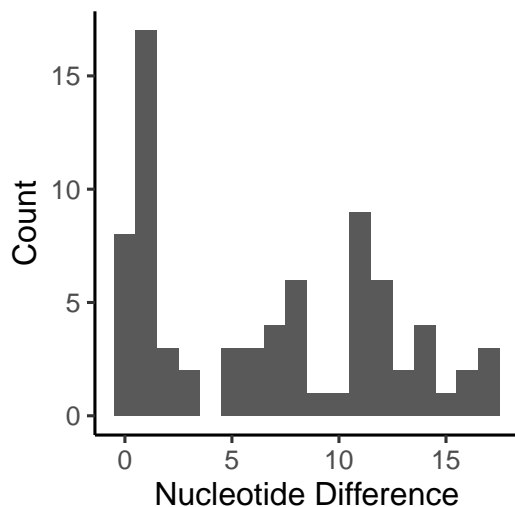
IGHV3-64*07

9 sequences assigned
No exact matches.



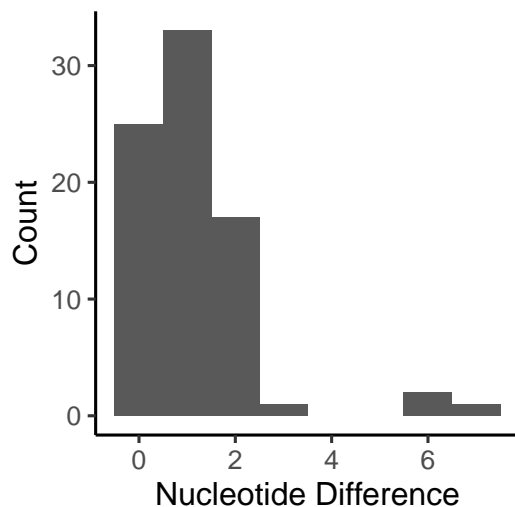
IGHV3-49*04

81 sequences assigned
8 (9.9%) exact matches, in which:
4 unique CDR3
3 unique J



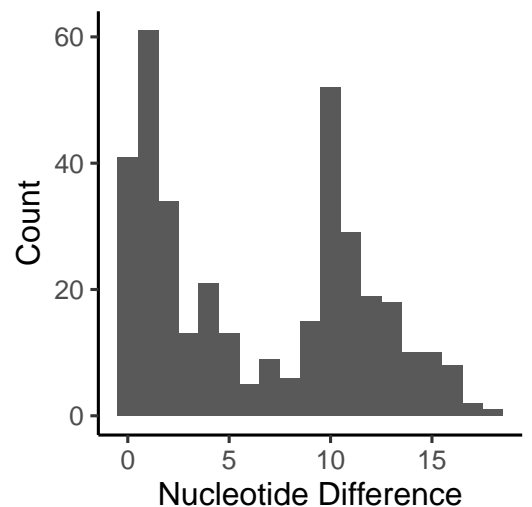
IGHV3-53*04

79 sequences assigned
25 (31.6%) exact matches, in which:
21 unique CDR3
4 unique J



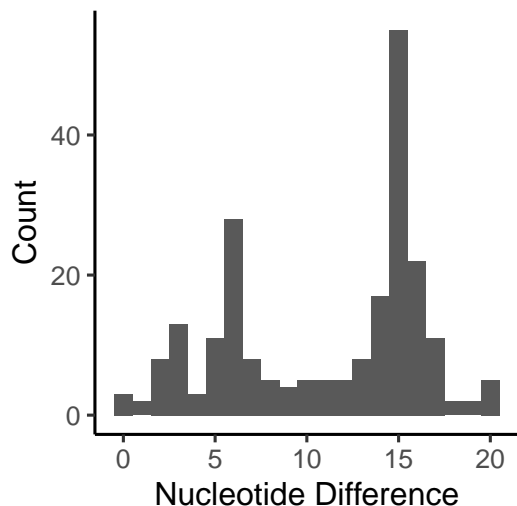
IGHV3-66*01

367 sequences assigned
41 (11.2%) exact matches, in which:
30 unique CDR3
5 unique J



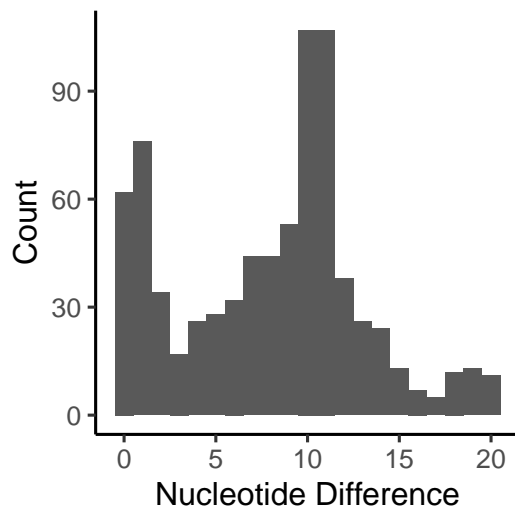
IGHV3-72*01

227 sequences assigned
3 (1.3%) exact matches, in which:
3 unique CDR3
2 unique J



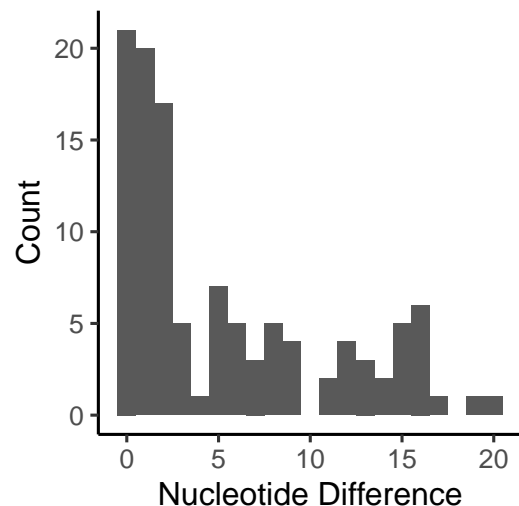
IGHV3-74*01

819 sequences assigned
62 (7.6%) exact matches, in which:
54 unique CDR3
4 unique J



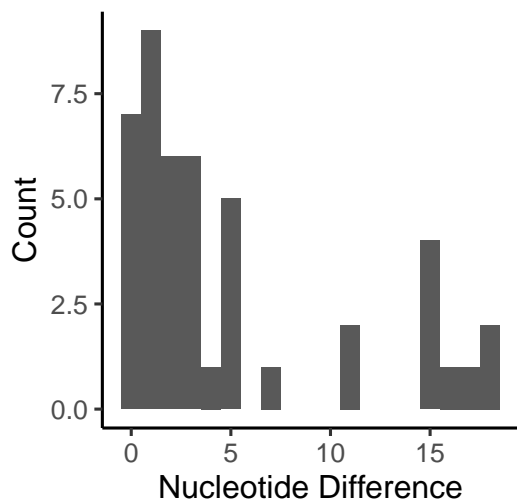
IGHV4-4*02

128 sequences assigned
21 (16.4%) exact matches, in which:
19 unique CDR3
5 unique J



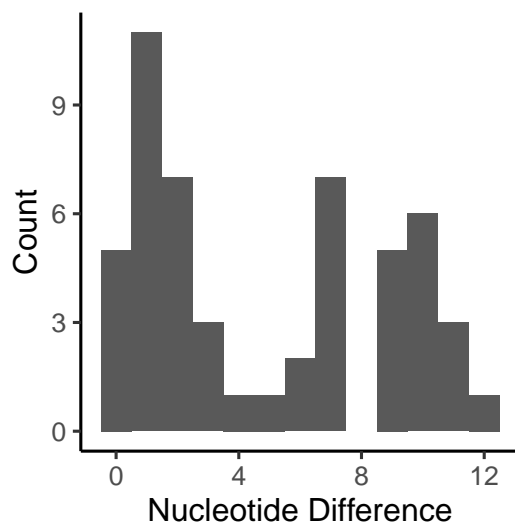
IGHV3-73*01

47 sequences assigned
7 (14.9%) exact matches, in which:
6 unique CDR3
2 unique J



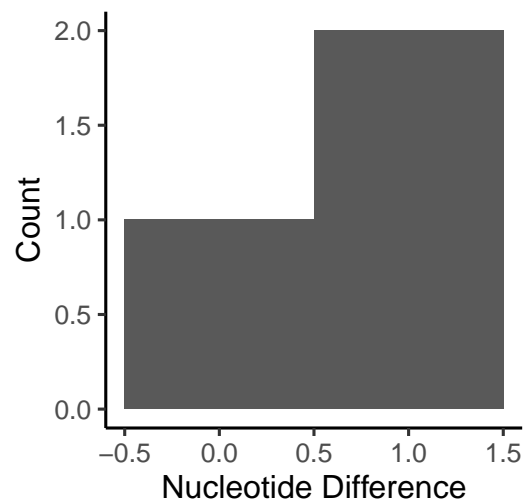
IGHV3-43D*03

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



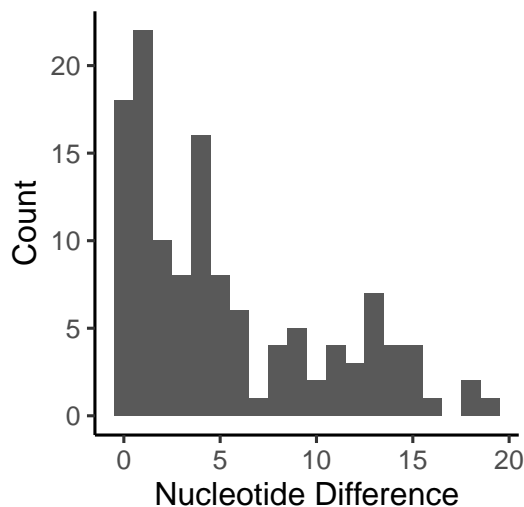
IGHV4-28*07

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



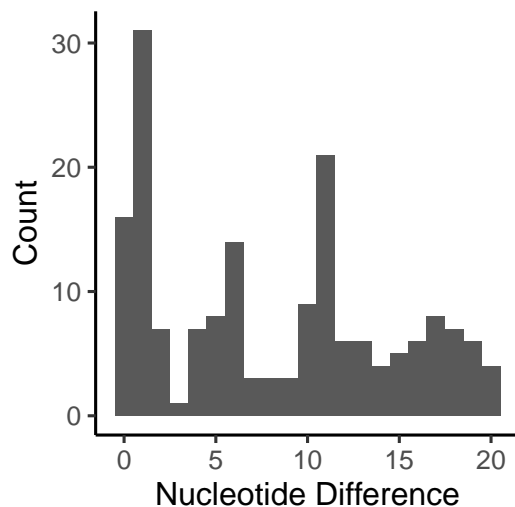
IGHV3-73*02

126 sequences assigned
18 (14.3%) exact matches, in which:
16 unique CDR3
4 unique J



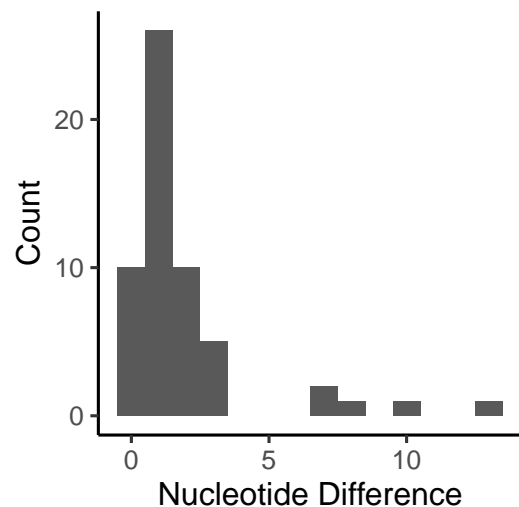
IGHV3-64D*06

219 sequences assigned
16 (7.3%) exact matches, in which:
13 unique CDR3
4 unique J



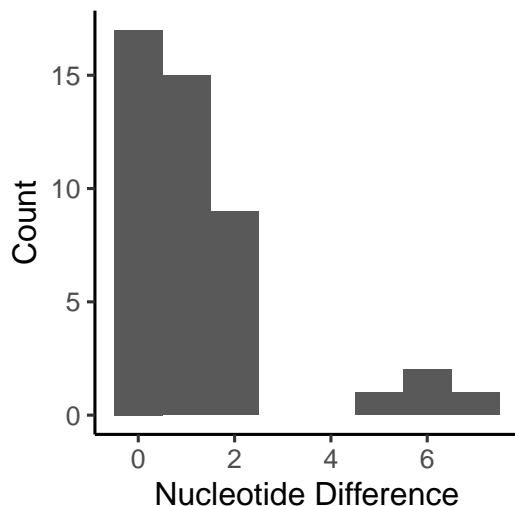
IGHV4-30-2*01

56 sequences assigned
10 (17.9%) exact matches, in which:
9 unique CDR3
4 unique J



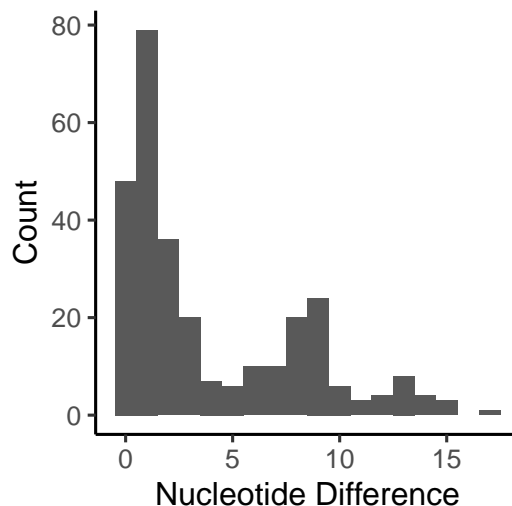
IGHV4-30-4*07

45 sequences assigned
17 (37.8%) exact matches, in which:
11 unique CDR3
4 unique J



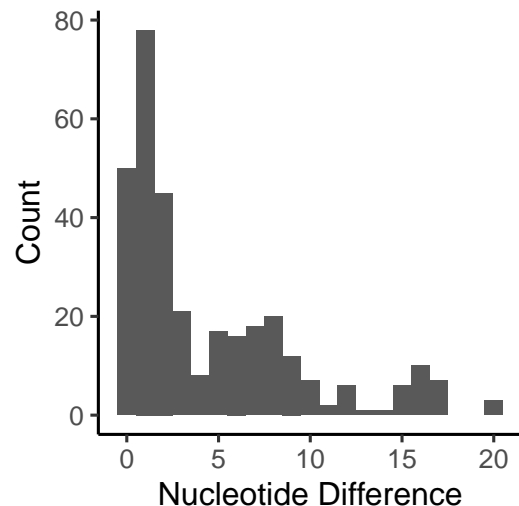
IGHV4-38-2*02

293 sequences assigned
48 (16.4%) exact matches, in which:
28 unique CDR3
5 unique J



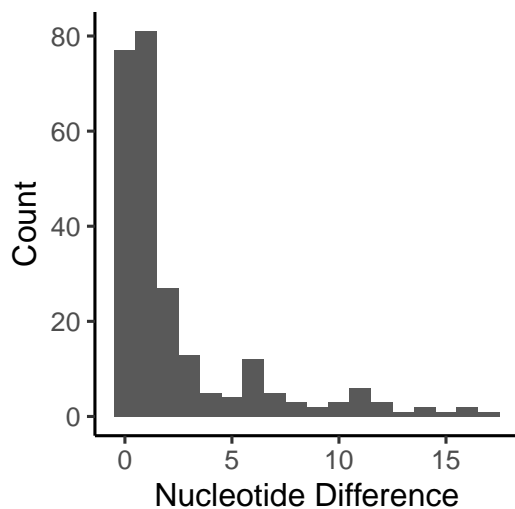
IGHV4-59*08

393 sequences assigned
50 (12.7%) exact matches, in which:
42 unique CDR3
5 unique J



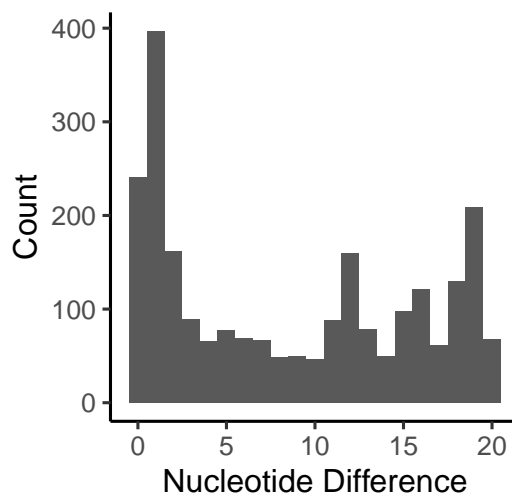
IGHV4-31*03

251 sequences assigned
77 (30.7%) exact matches, in which:
44 unique CDR3
4 unique J



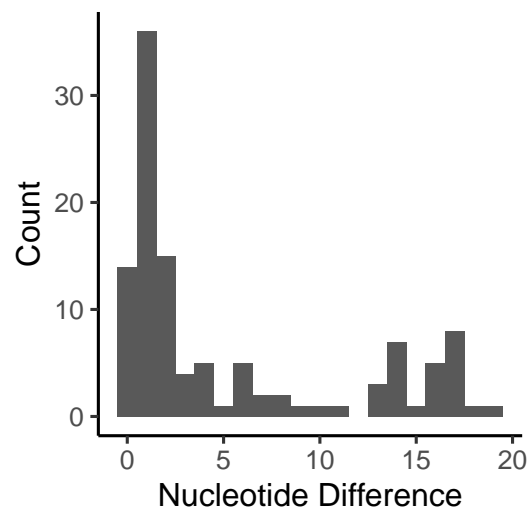
IGHV4-39*01

2451 sequences assigned
241 (9.8%) exact matches, in which:
183 unique CDR3
5 unique J



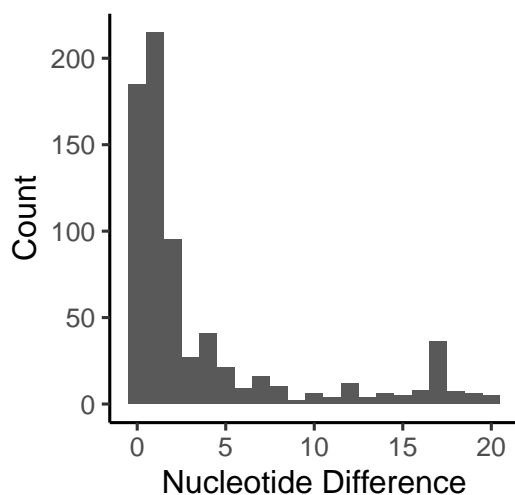
IGHV4-61*01

124 sequences assigned
14 (11.3%) exact matches, in which:
11 unique CDR3
3 unique J



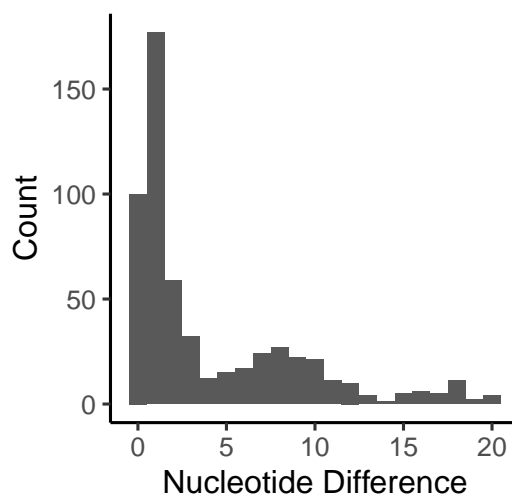
IGHV4-34*01

729 sequences assigned
185 (25.4%) exact matches, in which:
141 unique CDR3
5 unique J



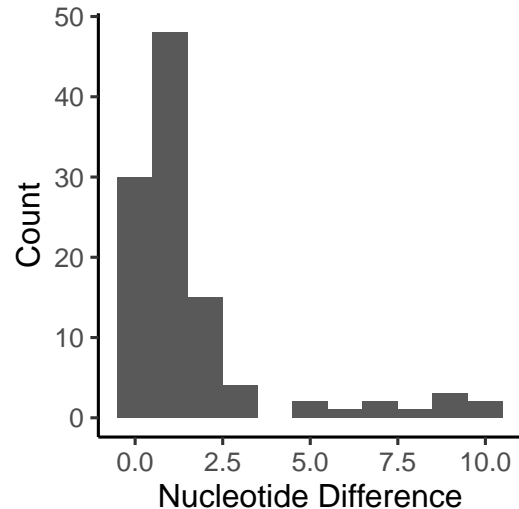
IGHV4-59*01

615 sequences assigned
100 (16.3%) exact matches, in which:
70 unique CDR3
6 unique J



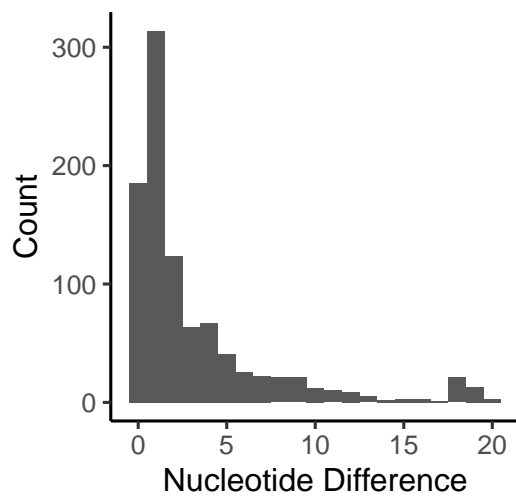
IGHV5-10-1*03

108 sequences assigned
30 (27.8%) exact matches, in which:
18 unique CDR3
4 unique J



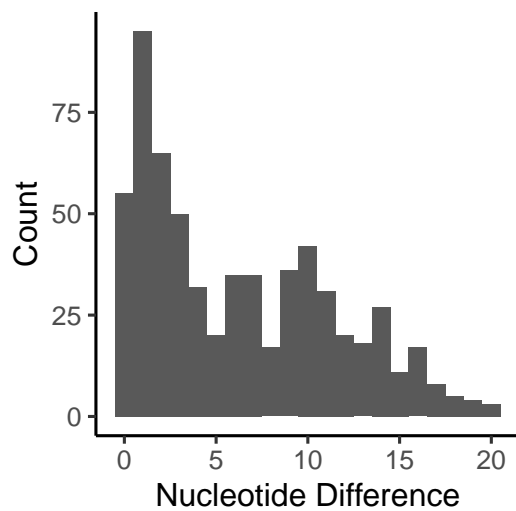
IGHV5–51*01

977 sequences assigned
185 (18.9%) exact matches, in which:
130 unique CDR3
6 unique J



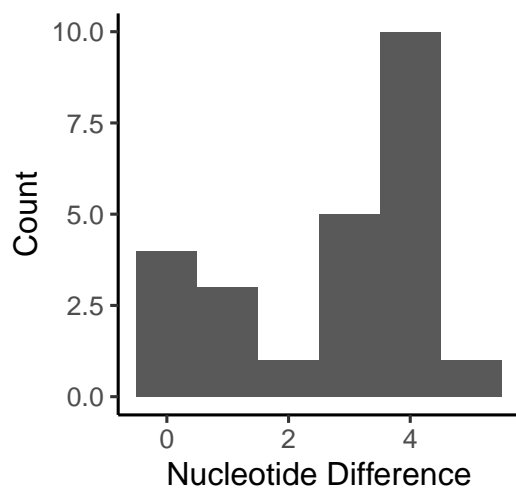
IGHV6–1*01

630 sequences assigned
55 (8.7%) exact matches, in which:
36 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





Warning – no inferred sequences found.