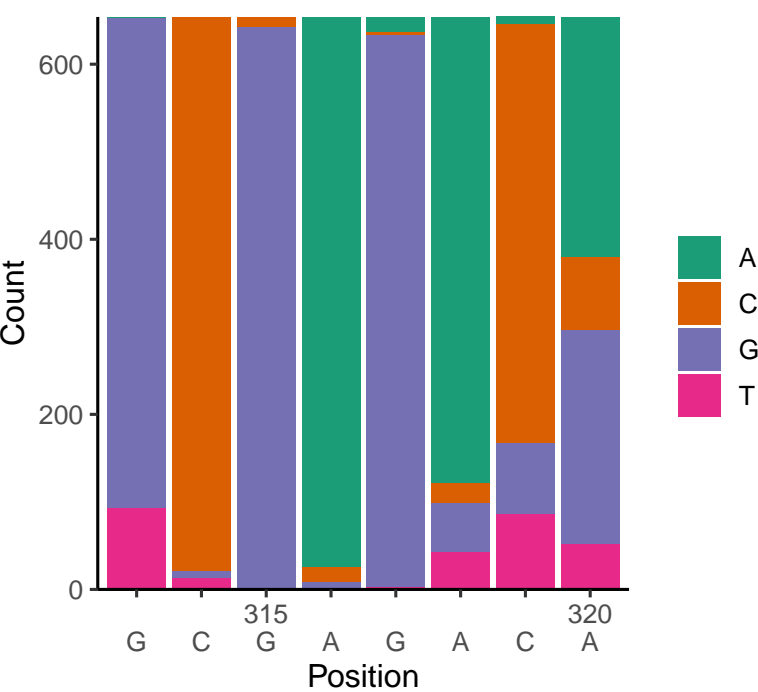
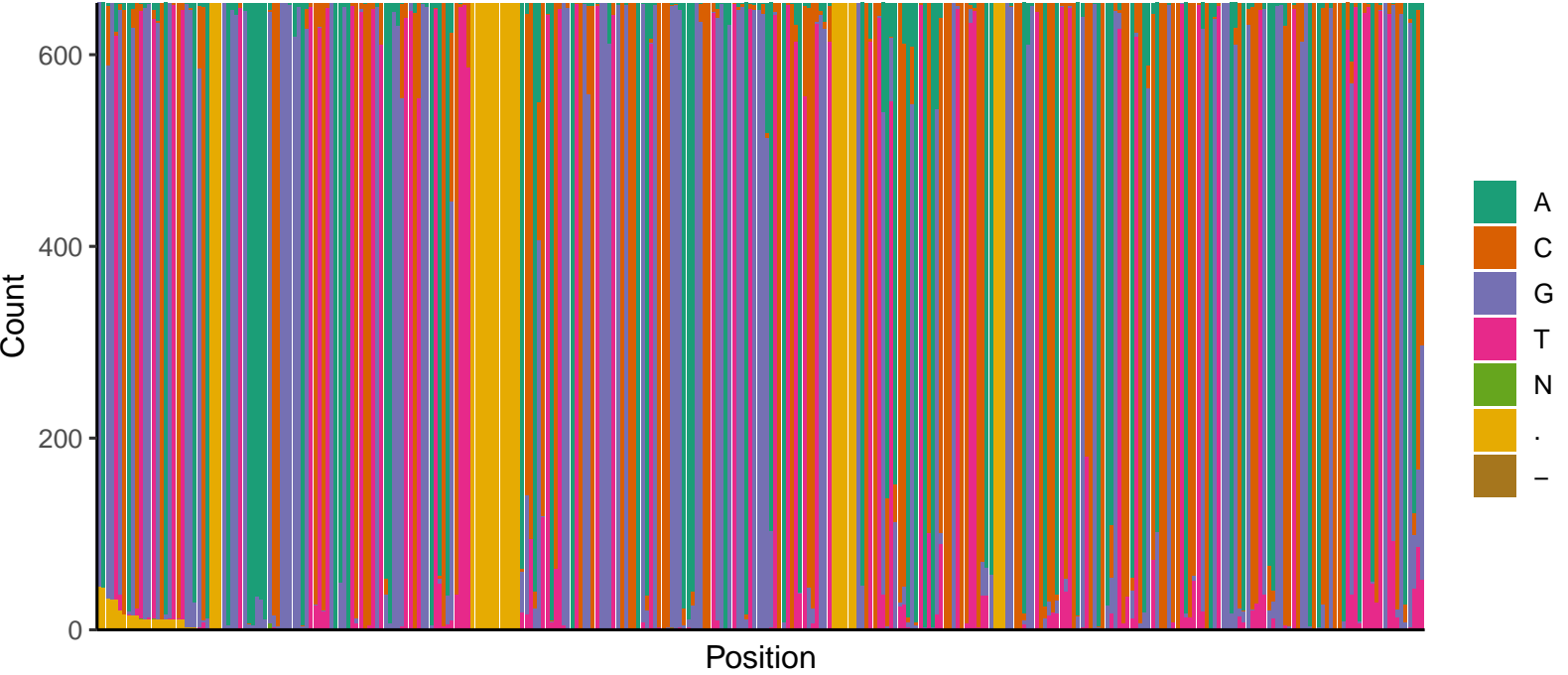


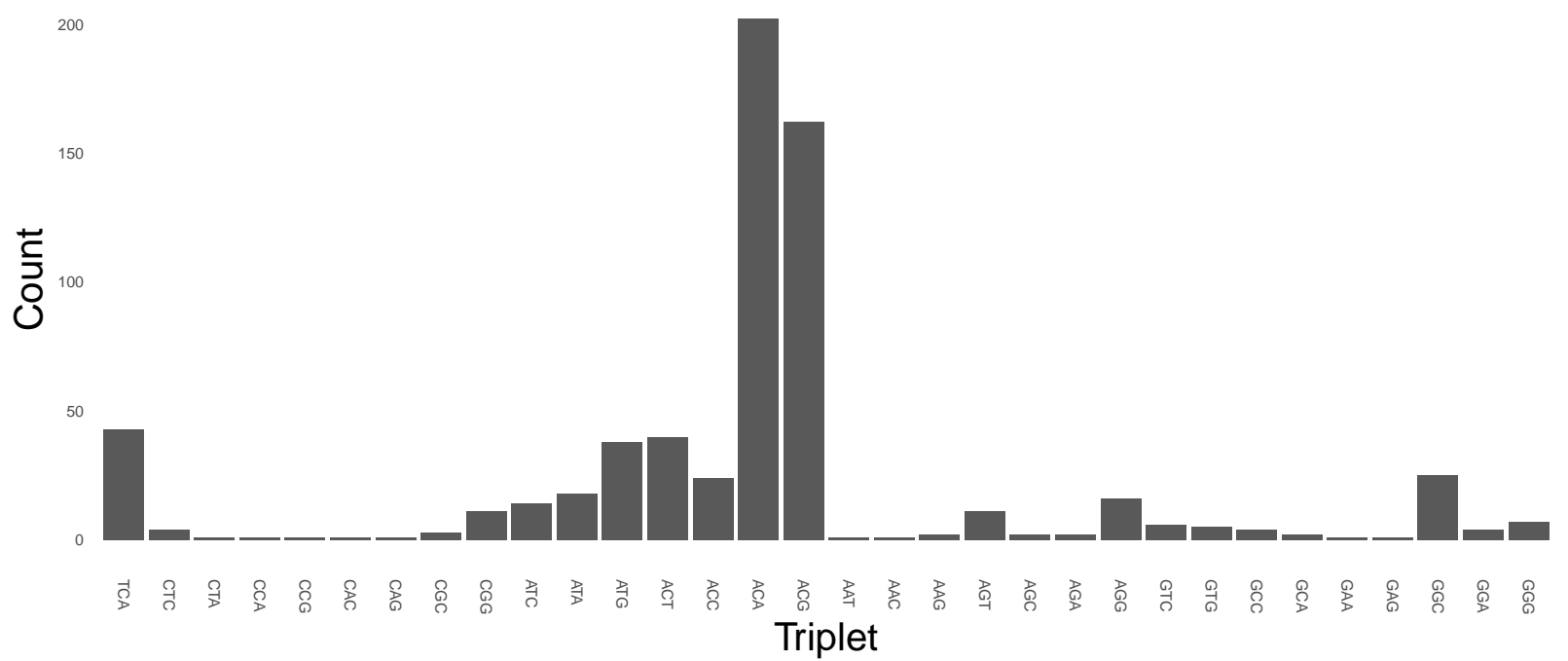
Gene IGHV5-51*01_C45G



Gene IGHV5-51*01_C45G

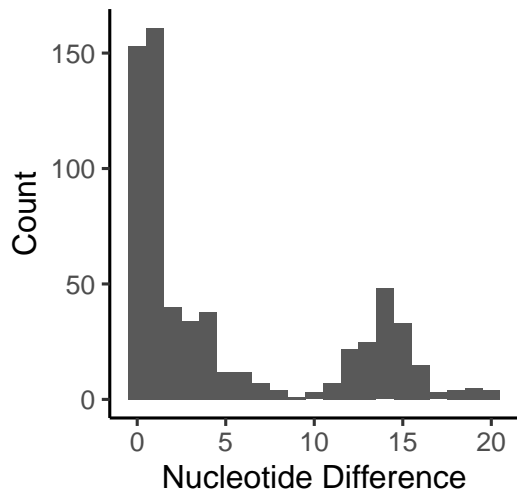


IGHV5-51*01_C45G- Final 3 nucleotides as a triplet



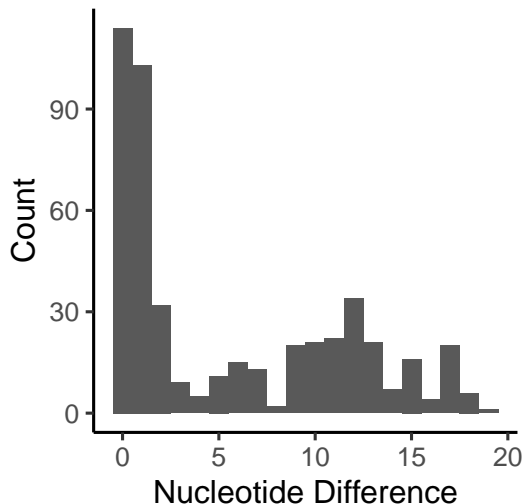
IGHV1-2*02

743 sequences assigned
153 (20.6%) exact matches, in which:
120 unique CDR3
6 unique J



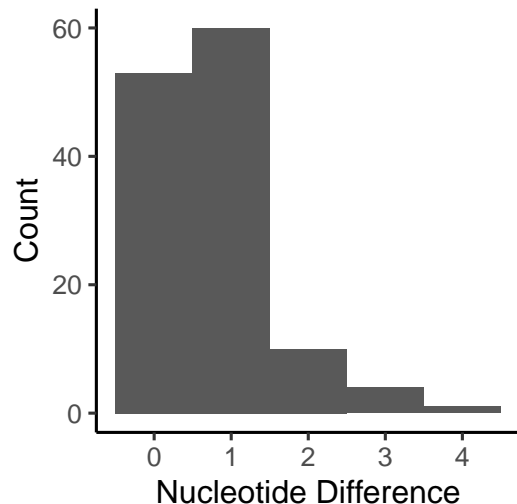
IGHV1-8*01

502 sequences assigned
114 (22.7%) exact matches, in which:
82 unique CDR3
6 unique J



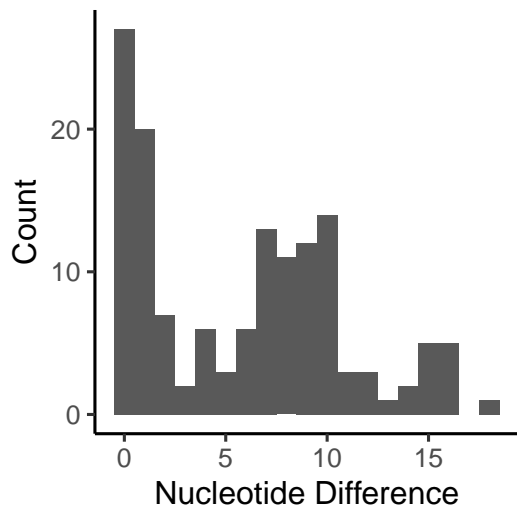
IGHV1-24*01

128 sequences assigned
53 (41.4%) exact matches, in which:
44 unique CDR3
6 unique J



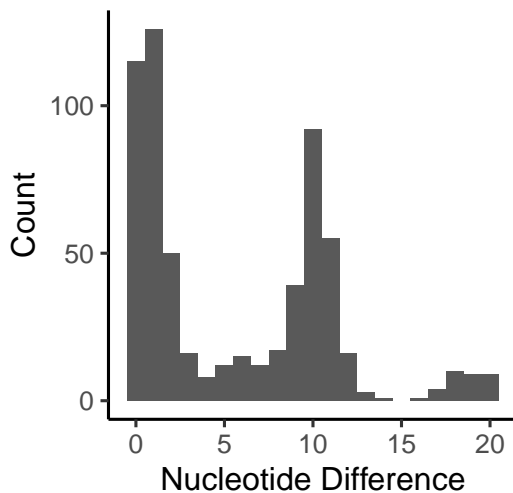
IGHV1-2*04

141 sequences assigned
27 (19.1%) exact matches, in which:
20 unique CDR3
5 unique J



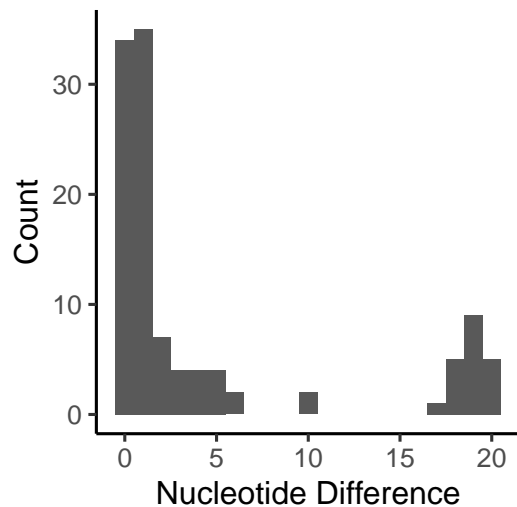
IGHV1-18*01

656 sequences assigned
115 (17.5%) exact matches, in which:
85 unique CDR3
5 unique J



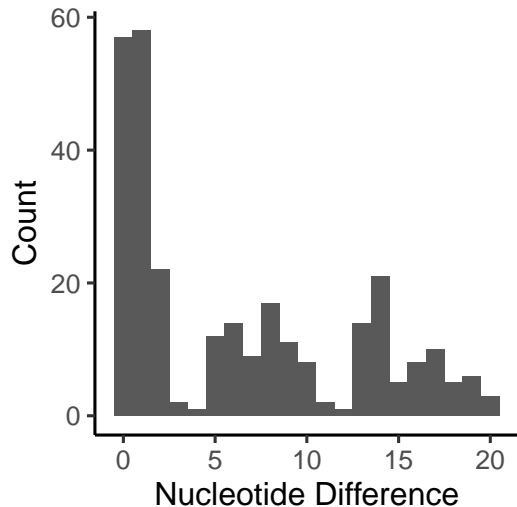
IGHV1-46*01

114 sequences assigned
34 (29.8%) exact matches, in which:
23 unique CDR3
5 unique J



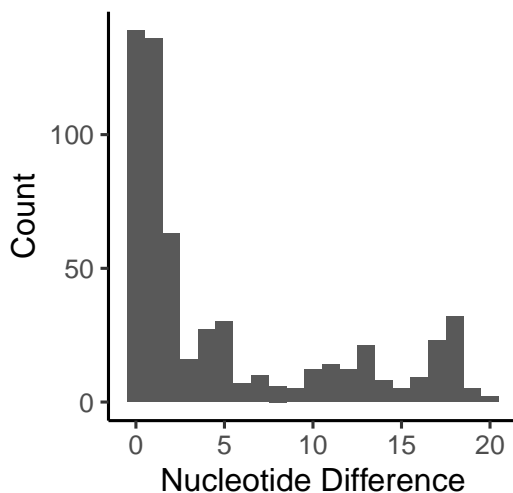
IGHV1-3*01

318 sequences assigned
57 (17.9%) exact matches, in which:
49 unique CDR3
6 unique J



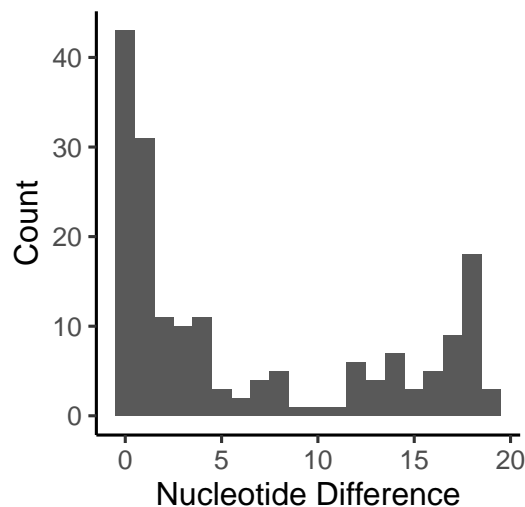
IGHV1-18*04

607 sequences assigned
139 (22.9%) exact matches, in which:
104 unique CDR3
6 unique J



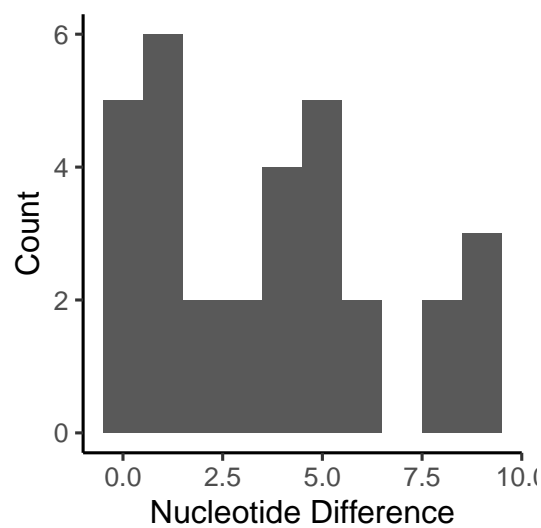
IGHV1-46*03

178 sequences assigned
43 (24.2%) exact matches, in which:
30 unique CDR3
5 unique J



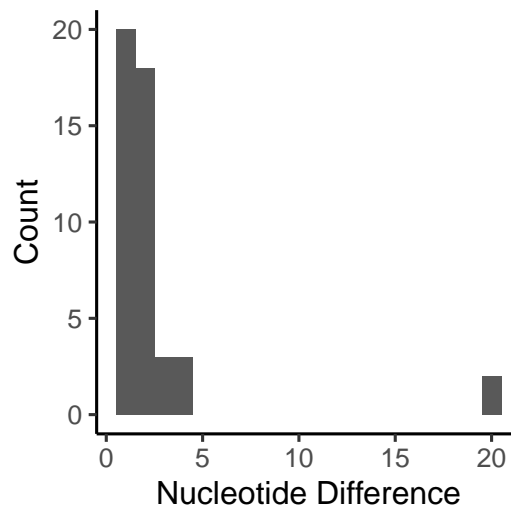
IGHV1-58*02

31 sequences assigned
5 (16.1%) exact matches, in which:
3 unique CDR3
2 unique J



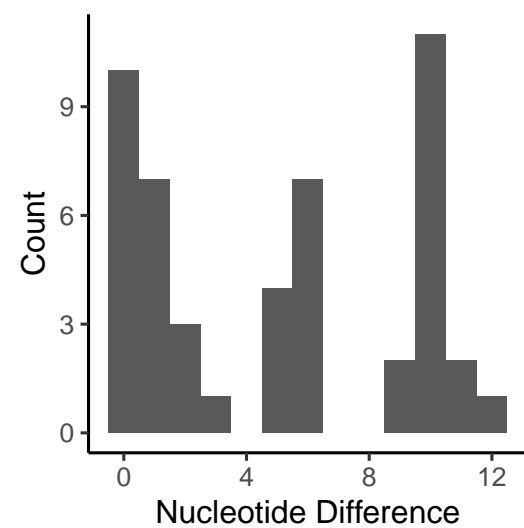
IGHV1-69*08

84 sequences assigned
No exact matches.



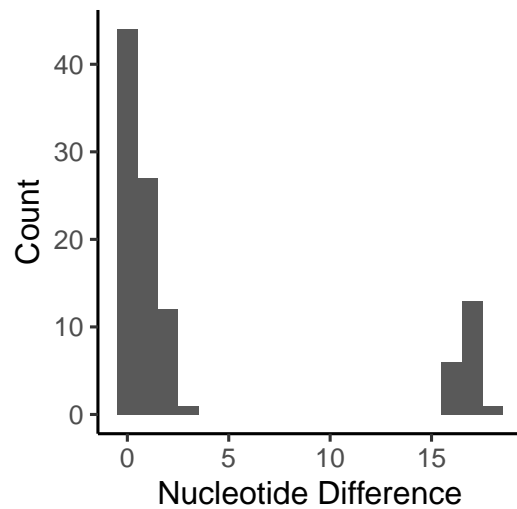
IGHV2-26*01

48 sequences assigned
10 (20.8%) exact matches, in which:
8 unique CDR3
3 unique J



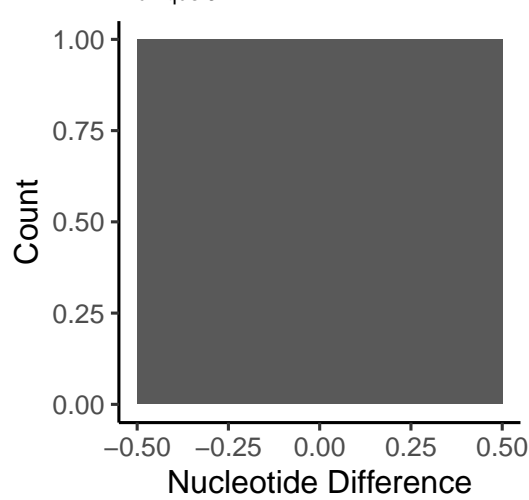
IGHV1-69*02

105 sequences assigned
44 (41.9%) exact matches, in which:
36 unique CDR3
6 unique J



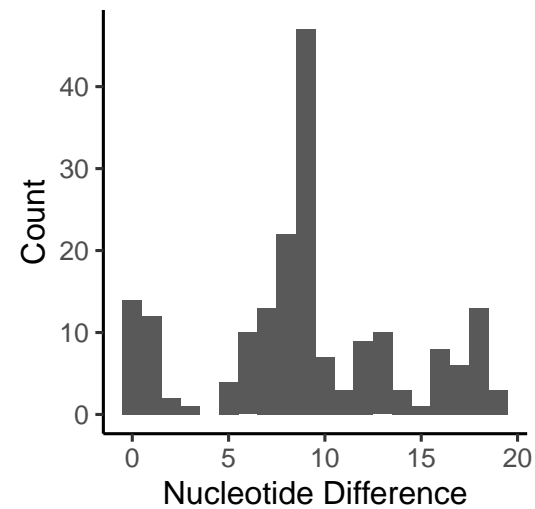
IGHV1-69D*01

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



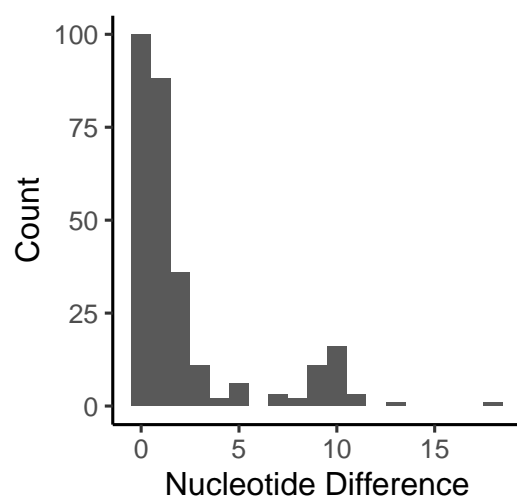
IGHV2-70*15

191 sequences assigned
14 (7.3%) exact matches, in which:
14 unique CDR3
4 unique J



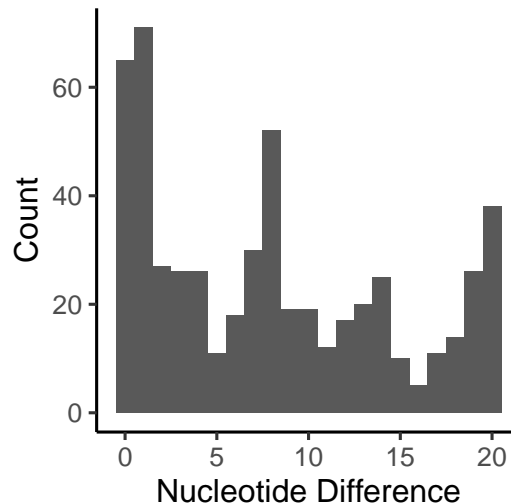
IGHV1-69*04

281 sequences assigned
100 (35.6%) exact matches, in which:
83 unique CDR3
5 unique J



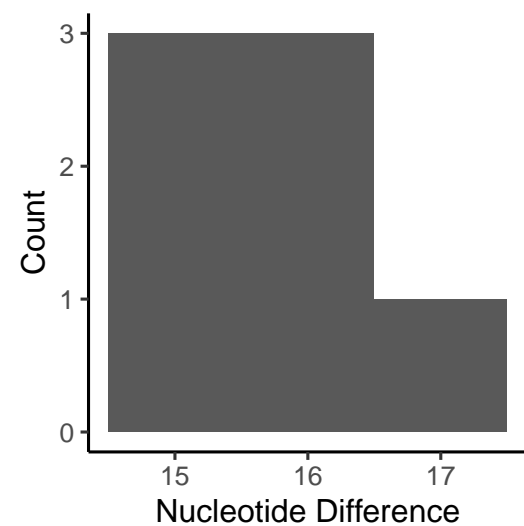
IGHV2-5*02

582 sequences assigned
65 (11.2%) exact matches, in which:
55 unique CDR3
5 unique J



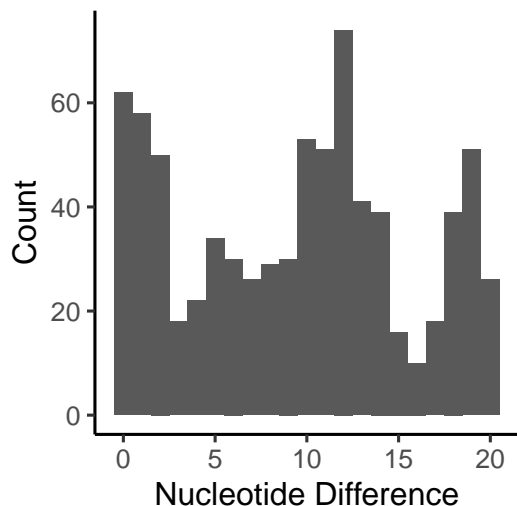
IGHV2-70D*04

7 sequences assigned
No exact matches.



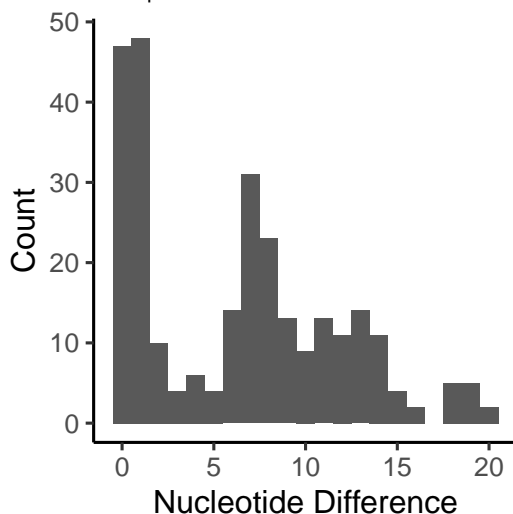
IGHV3-7*01

926 sequences assigned
62 (6.7%) exact matches, in which:
48 unique CDR3
6 unique J



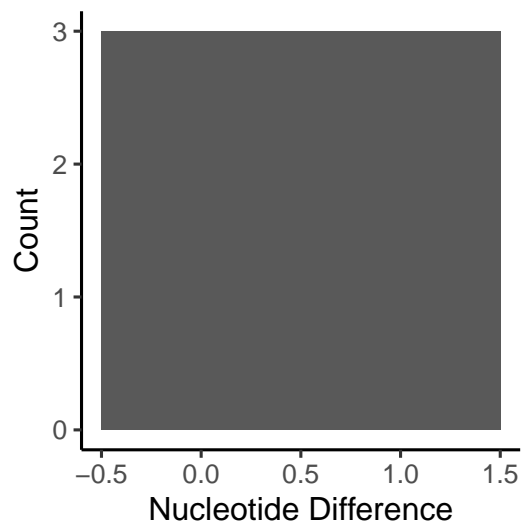
IGHV3-11*01

295 sequences assigned
47 (15.9%) exact matches, in which:
36 unique CDR3
4 unique J



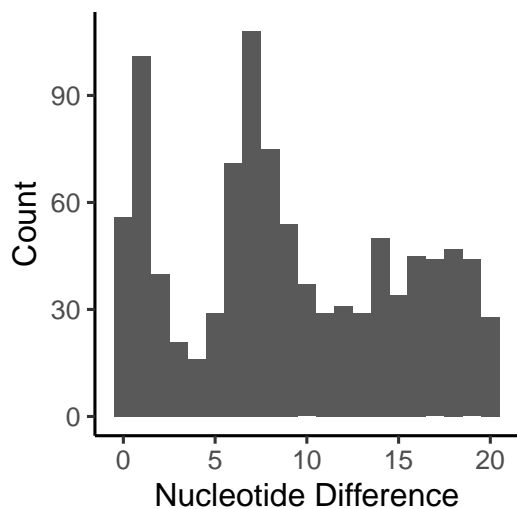
IGHV3-13*05

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



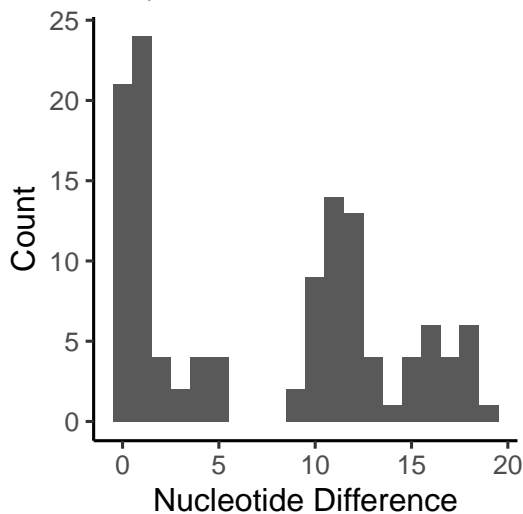
IGHV3-7*03

1215 sequences assigned
56 (4.6%) exact matches, in which:
42 unique CDR3
5 unique J



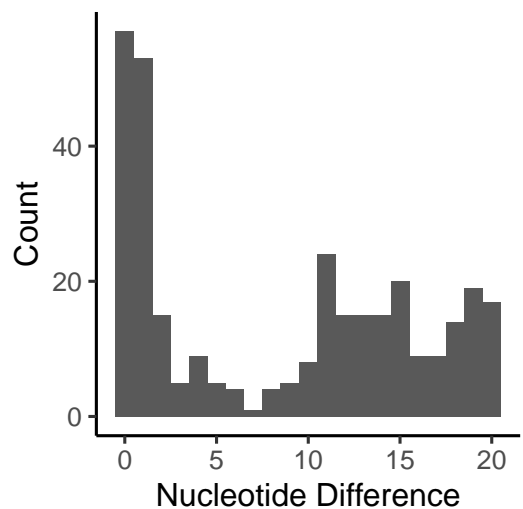
IGHV3-11*06

123 sequences assigned
21 (17.1%) exact matches, in which:
20 unique CDR3
5 unique J



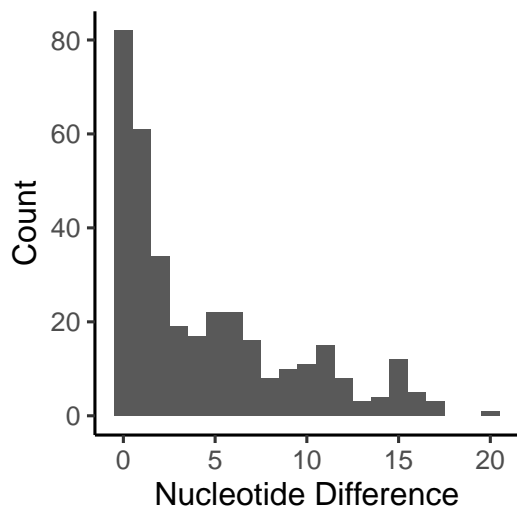
IGHV3-15*01

365 sequences assigned
57 (15.6%) exact matches, in which:
51 unique CDR3
5 unique J



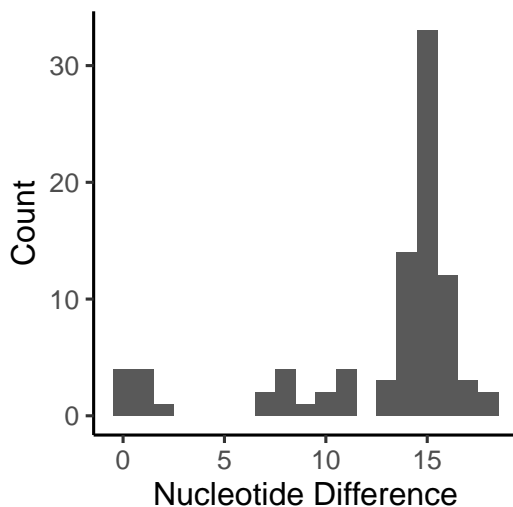
IGHV3-9*01

357 sequences assigned
82 (23%) exact matches, in which:
70 unique CDR3
5 unique J



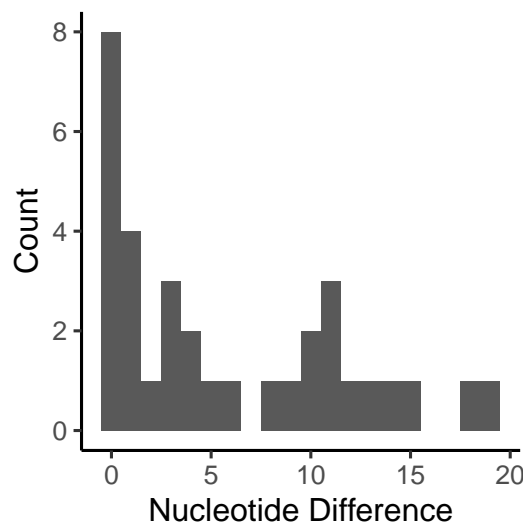
IGHV3-13*01

96 sequences assigned
4 (4.2%) exact matches, in which:
3 unique CDR3
2 unique J



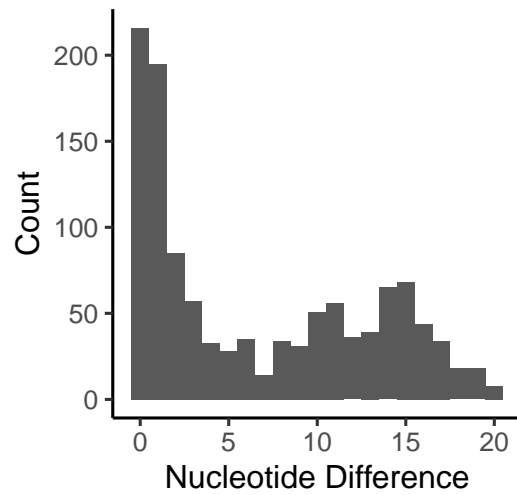
IGHV3-20*01

34 sequences assigned
8 (23.5%) exact matches, in which:
7 unique CDR3
4 unique J



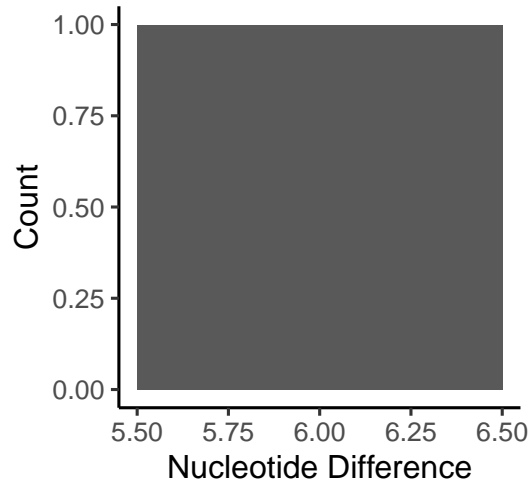
IGHV3-21*01

1446 sequences assigned
216 (14.9%) exact matches, in which:
174 unique CDR3
6 unique J



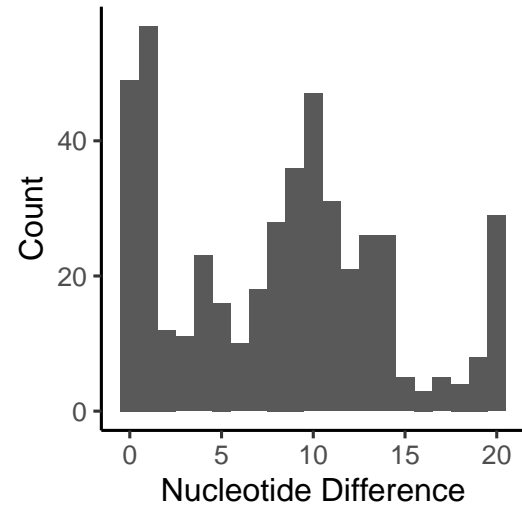
IGHV3-38-3*01

1 sequences assigned
No exact matches.



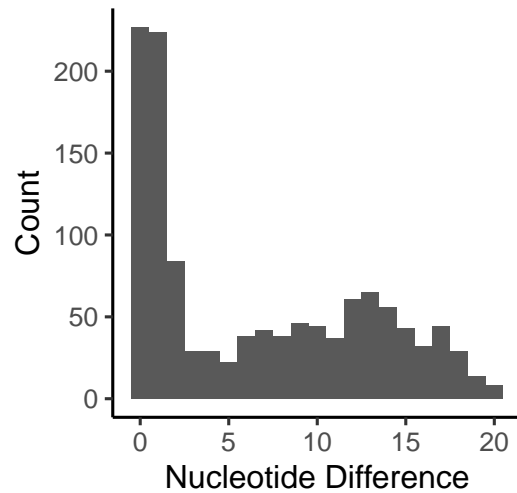
IGHV3-48*01

526 sequences assigned
49 (9.3%) exact matches, in which:
34 unique CDR3
4 unique J



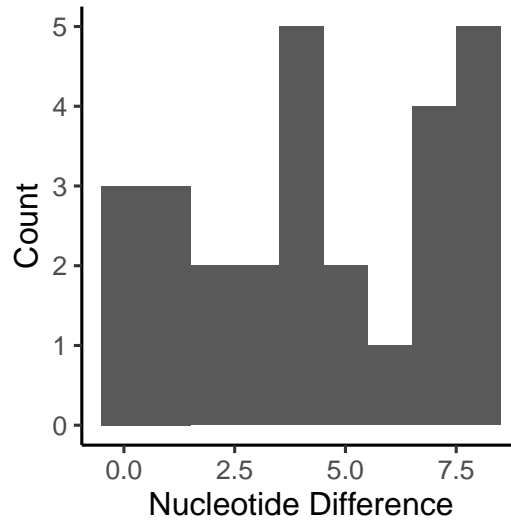
IGHV3-30-3*01

1296 sequences assigned
227 (17.5%) exact matches, in which:
175 unique CDR3
6 unique J



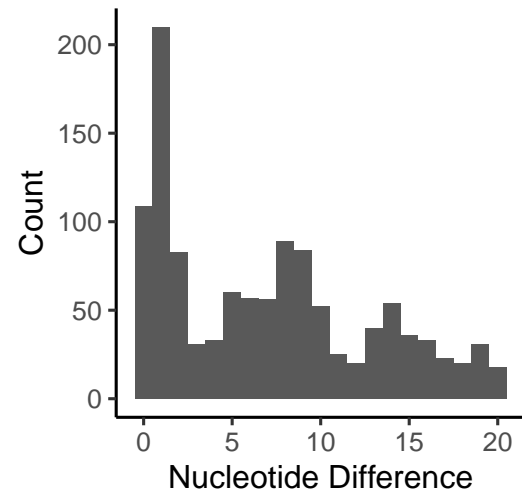
IGHV3-43*01

67 sequences assigned
3 (4.5%) exact matches, in which:
2 unique CDR3
2 unique J



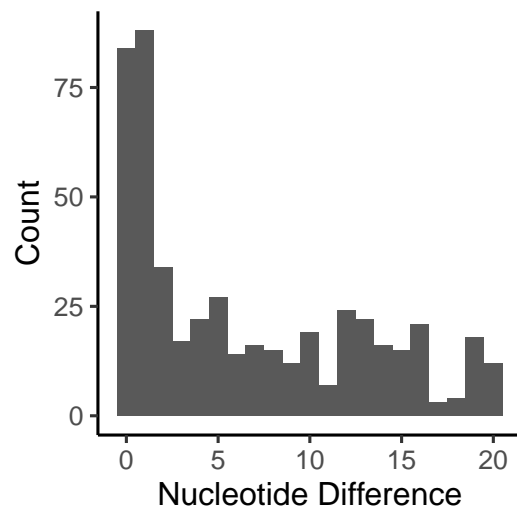
IGHV3-48*03

1222 sequences assigned
109 (8.9%) exact matches, in which:
79 unique CDR3
4 unique J



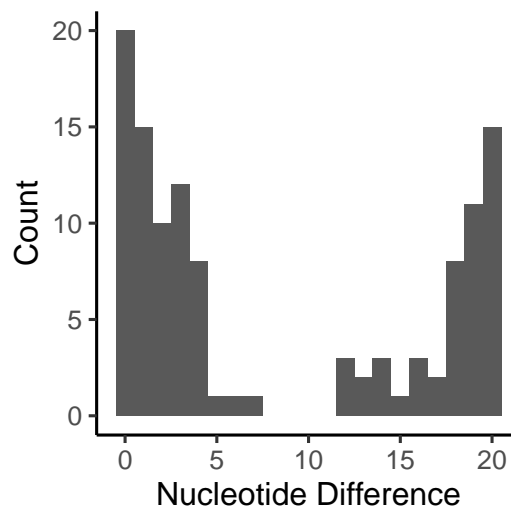
IGHV3-33*01

528 sequences assigned
84 (15.9%) exact matches, in which:
53 unique CDR3
5 unique J



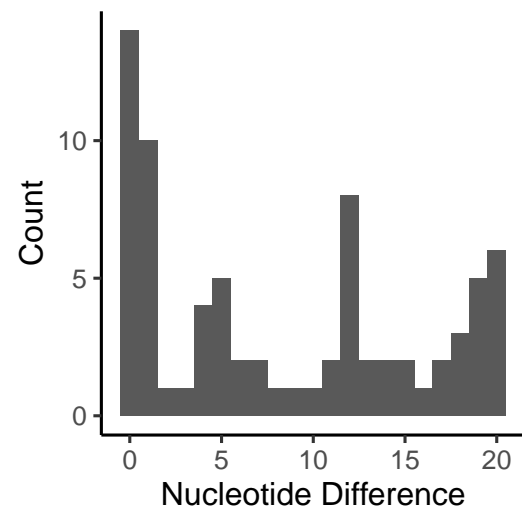
IGHV3-43*02

122 sequences assigned
20 (16.4%) exact matches, in which:
18 unique CDR3
4 unique J



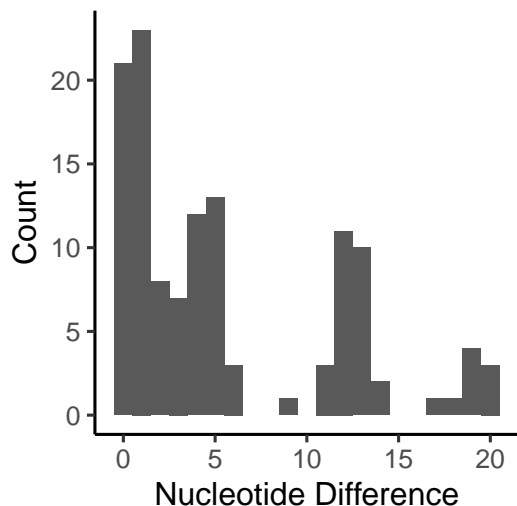
IGHV3-49*03

112 sequences assigned
14 (12.5%) exact matches, in which:
13 unique CDR3
3 unique J



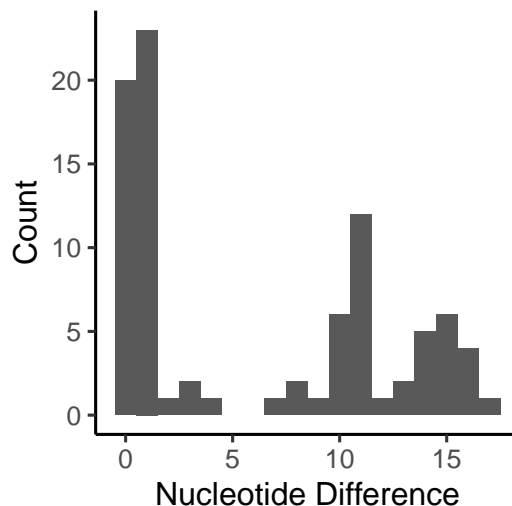
IGHV3-49*04

153 sequences assigned
21 (13.7%) exact matches, in which:
20 unique CDR3
5 unique J



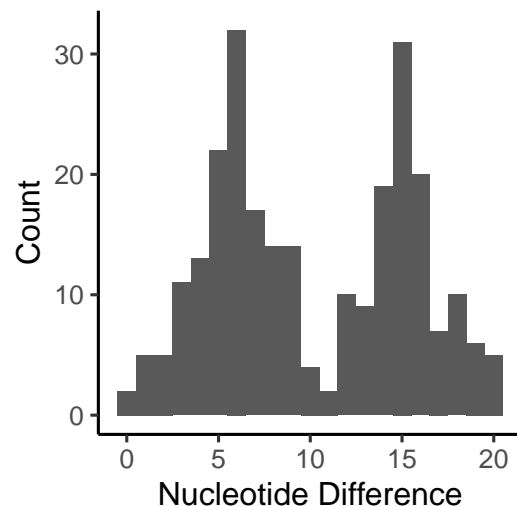
IGHV3-64*01

90 sequences assigned
20 (22.2%) exact matches, in which:
12 unique CDR3
3 unique J



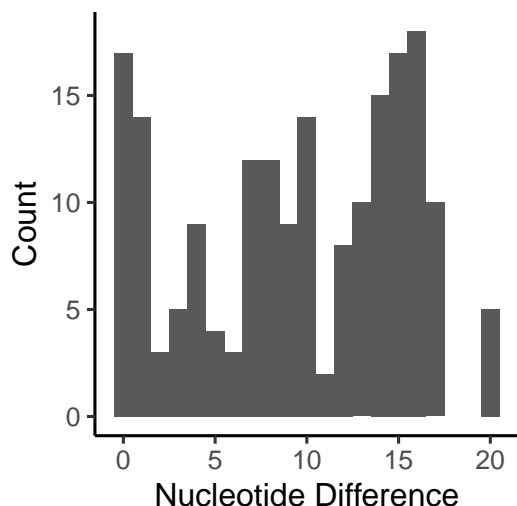
IGHV3-72*01

302 sequences assigned
2 (0.7%) exact matches, in which:
2 unique CDR3
1 unique J



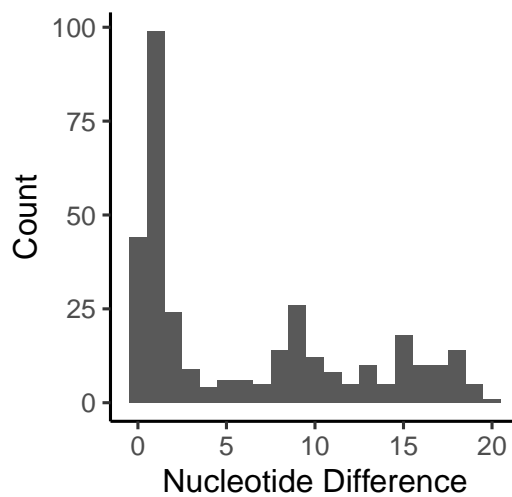
IGHV3-53*02

264 sequences assigned
17 (6.4%) exact matches, in which:
16 unique CDR3
5 unique J



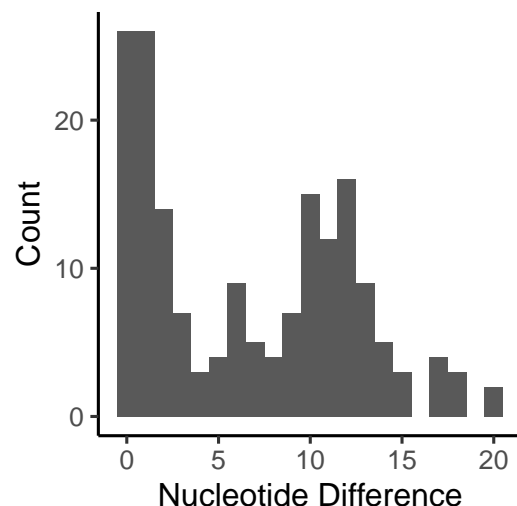
IGHV3-66*01

339 sequences assigned
44 (13%) exact matches, in which:
33 unique CDR3
5 unique J



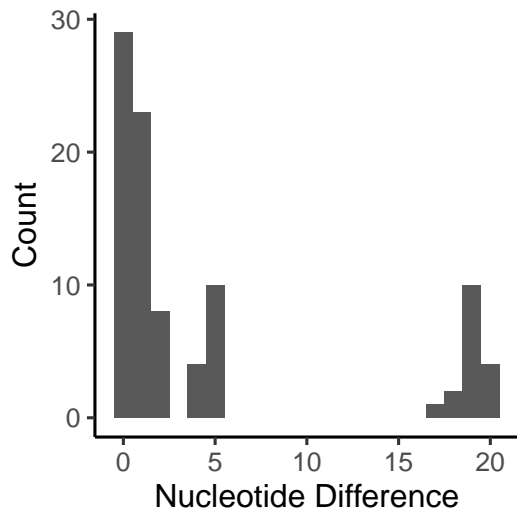
IGHV3-73*01

230 sequences assigned
26 (11.3%) exact matches, in which:
22 unique CDR3
4 unique J



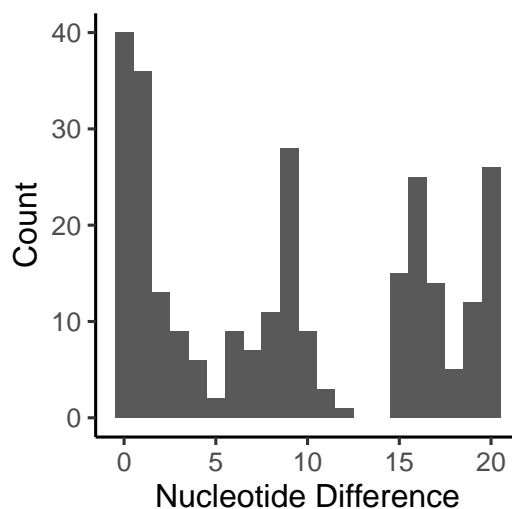
IGHV3-53*04

93 sequences assigned
29 (31.2%) exact matches, in which:
23 unique CDR3
4 unique J



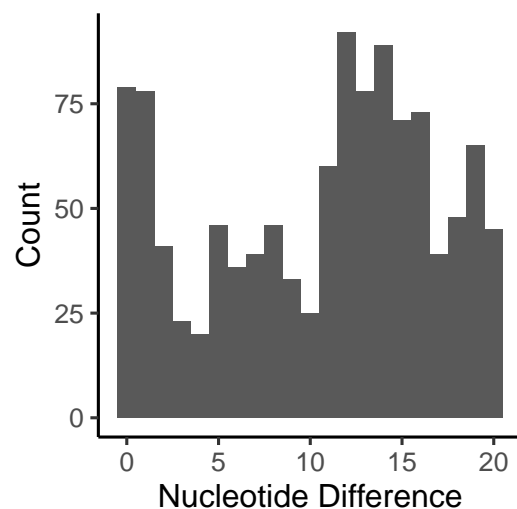
IGHV3-66*02

308 sequences assigned
40 (13%) exact matches, in which:
34 unique CDR3
4 unique J



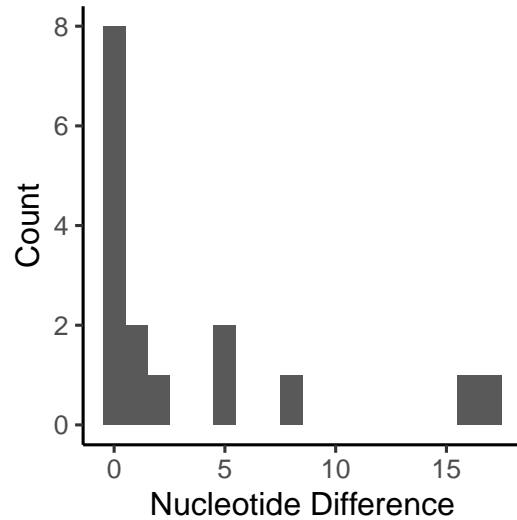
IGHV3-74*01

1430 sequences assigned
79 (5.5%) exact matches, in which:
65 unique CDR3
4 unique J



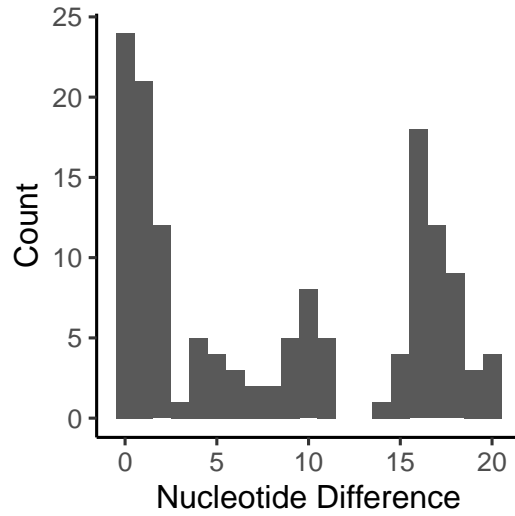
IGHV3-43D*03

16 sequences assigned
8 (50%) exact matches, in which:
8 unique CDR3
3 unique J



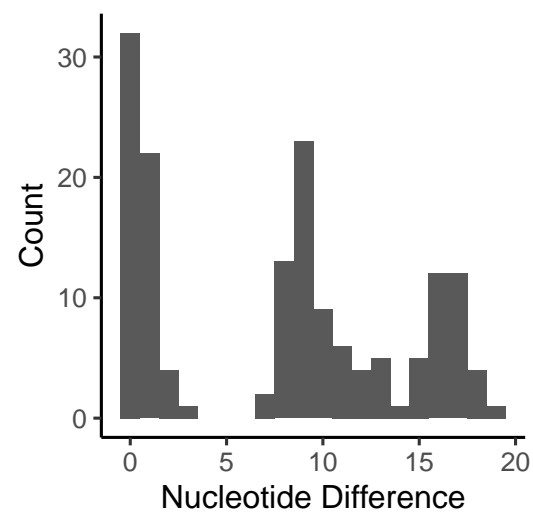
IGHV4-4*07

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



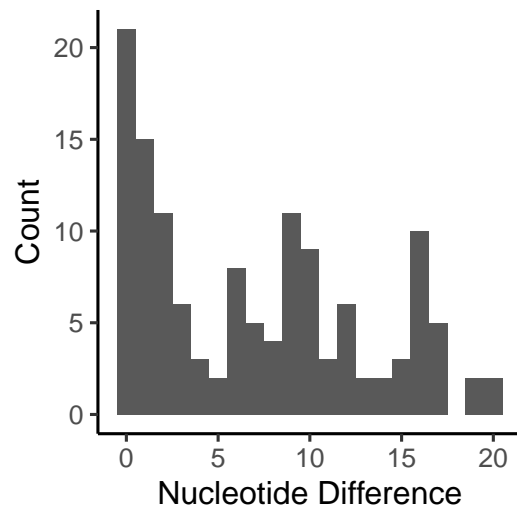
IGHV4-31*03

156 sequences assigned
32 (20.5%) exact matches, in which:
24 unique CDR3
6 unique J



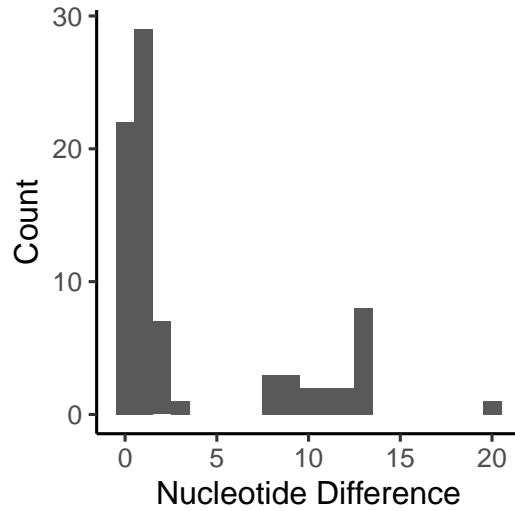
IGHV3-64D*06

175 sequences assigned
21 (12%) exact matches, in which:
20 unique CDR3
4 unique J



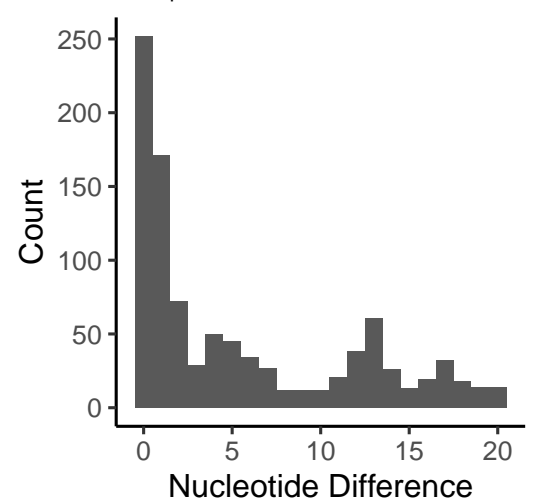
IGHV4-30-2*01

152 sequences assigned
22 (14.5%) exact matches, in which:
18 unique CDR3
5 unique J



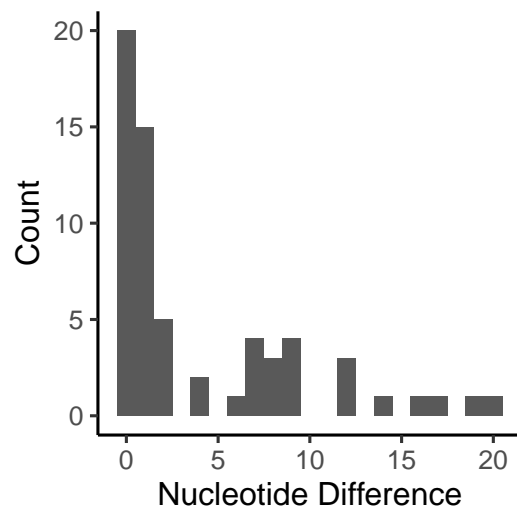
IGHV4-34*01

1075 sequences assigned
252 (23.4%) exact matches, in which:
188 unique CDR3
6 unique J



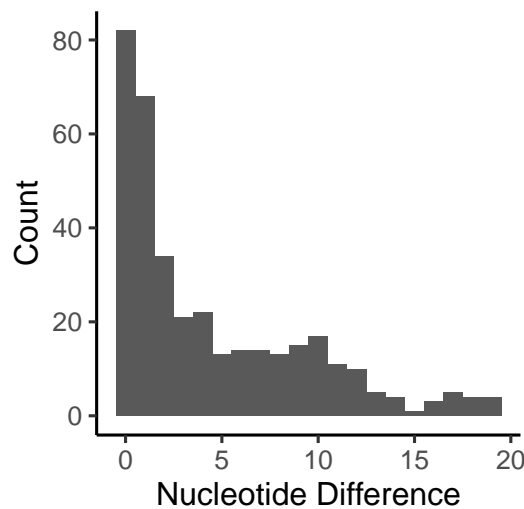
IGHV4-4*02

89 sequences assigned
20 (22.5%) exact matches, in which:
18 unique CDR3
5 unique J



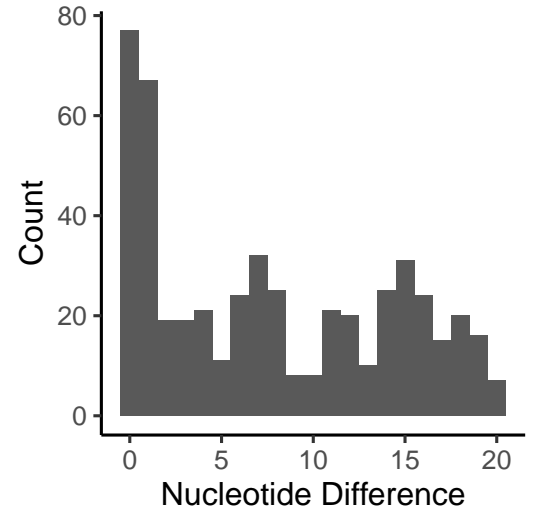
IGHV4-30-4*01

371 sequences assigned
82 (22.1%) exact matches, in which:
66 unique CDR3
4 unique J



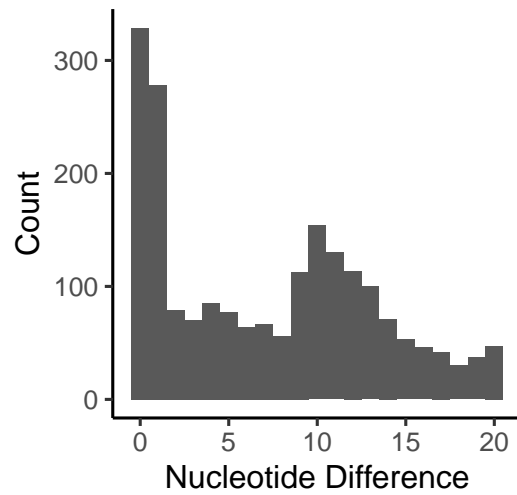
IGHV4-38-2*02

668 sequences assigned
77 (11.5%) exact matches, in which:
63 unique CDR3
6 unique J



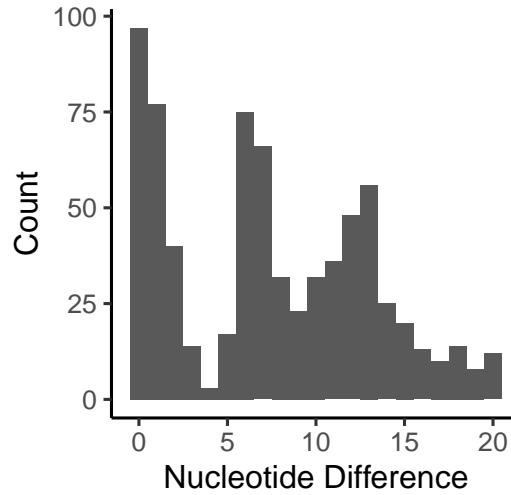
IGHV4–39*01

2296 sequences assigned
329 (14.3%) exact matches, in which:
300 unique CDR3
6 unique J



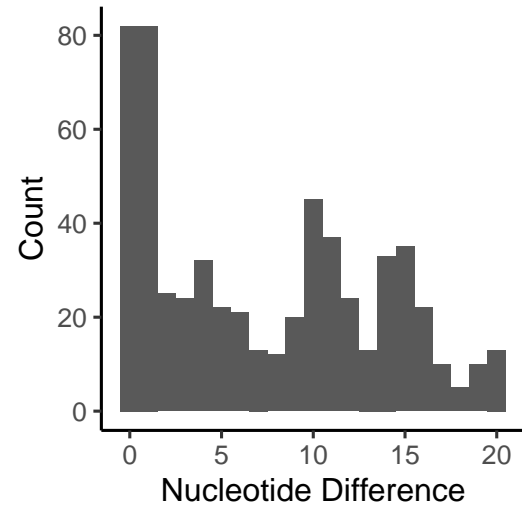
IGHV4–61*02

732 sequences assigned
97 (13.3%) exact matches, in which:
67 unique CDR3
6 unique J



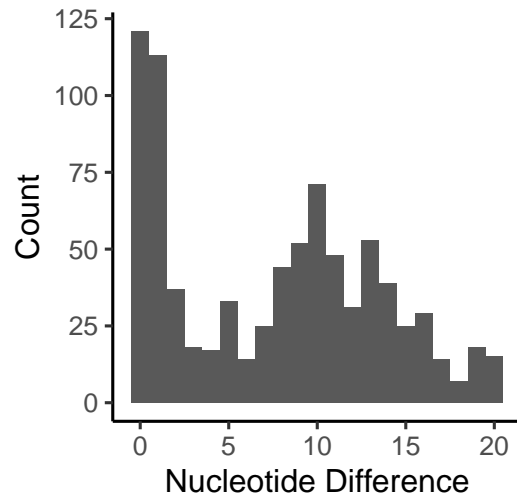
IGHV5–51*01_C45G

654 sequences assigned
82 (12.5%) exact matches, in which:
73 unique CDR3
5 unique J



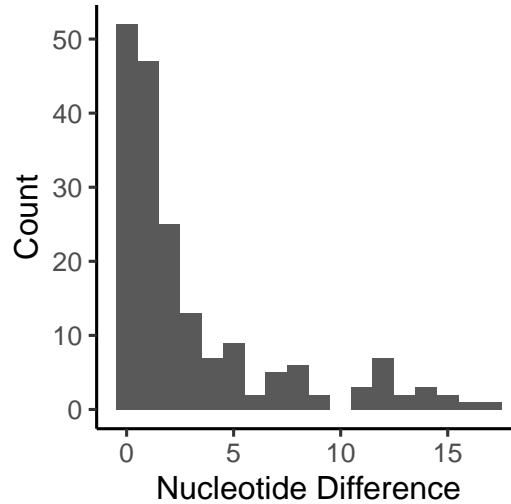
IGHV4–59*01

847 sequences assigned
121 (14.3%) exact matches, in which:
94 unique CDR3
6 unique J



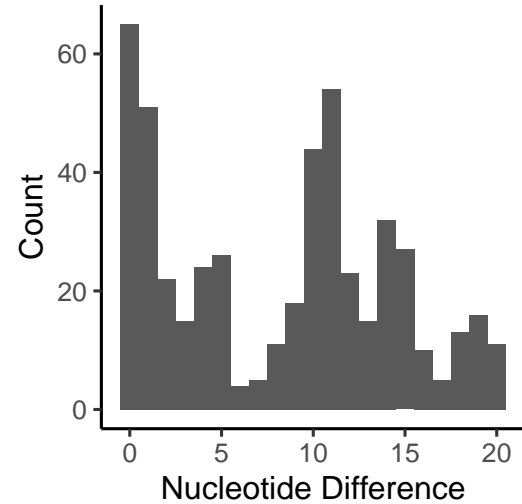
IGHV5–10–1*03

187 sequences assigned
52 (27.8%) exact matches, in which:
47 unique CDR3
5 unique J



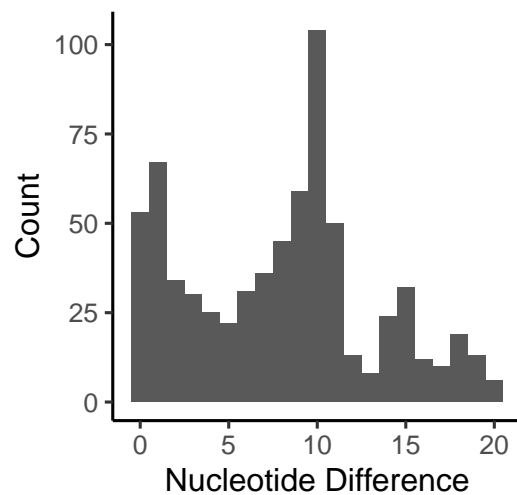
IGHV6–1*01

510 sequences assigned
65 (12.7%) exact matches, in which:
46 unique CDR3
6 unique J



IGHV4–59*08

750 sequences assigned
53 (7.1%) exact matches, in which:
38 unique CDR3
5 unique J



IGHV5–51*01

341 sequences assigned
71 (20.8%) exact matches, in which:
58 unique CDR3
5 unique J

