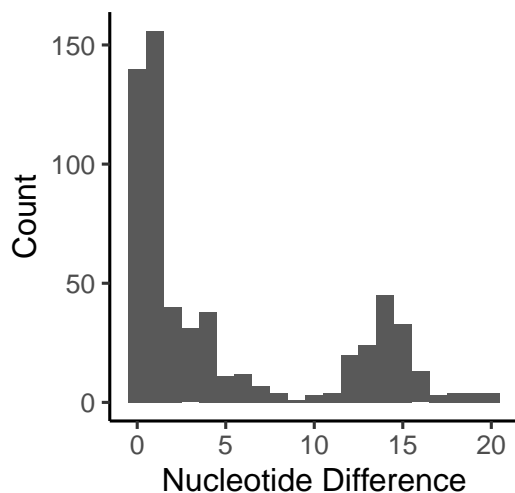


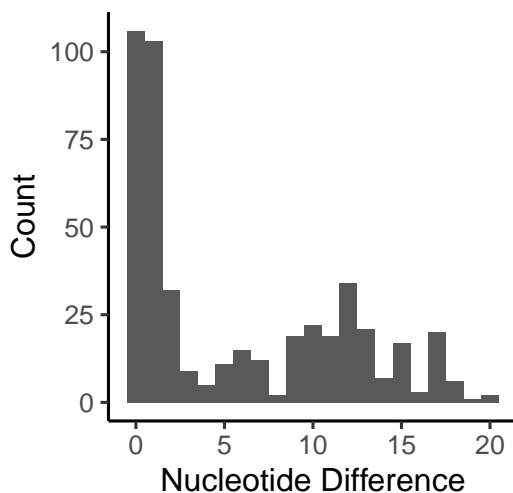
IGHV1-2*02

705 sequences assigned
140 (19.9%) exact matches, in which:
110 unique CDR3
6 unique J



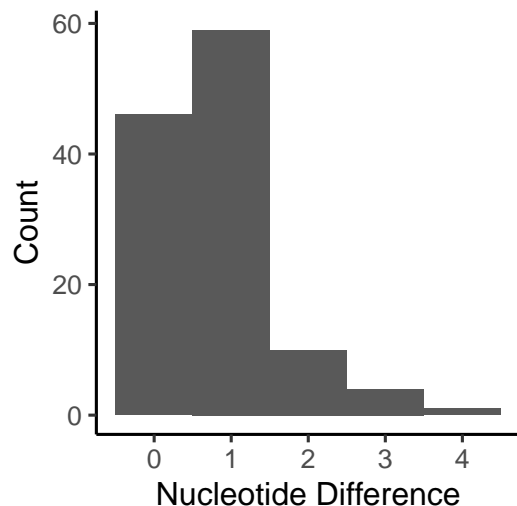
IGHV1-8*01

491 sequences assigned
106 (21.6%) exact matches, in which:
77 unique CDR3
6 unique J



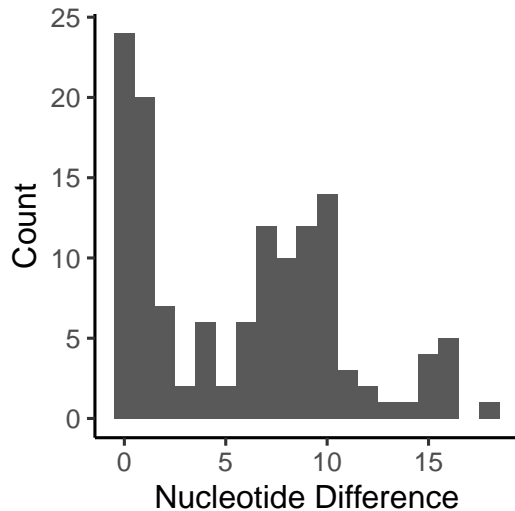
IGHV1-24*01

120 sequences assigned
46 (38.3%) exact matches, in which:
39 unique CDR3
6 unique J



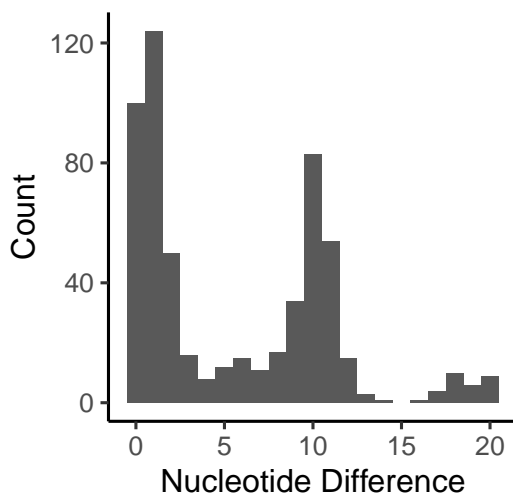
IGHV1-2*04

132 sequences assigned
24 (18.2%) exact matches, in which:
19 unique CDR3
5 unique J



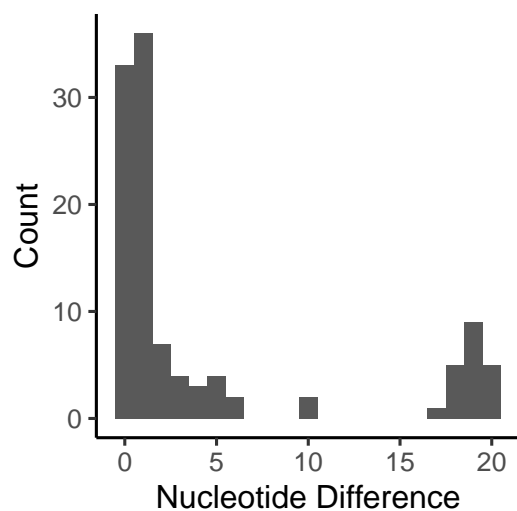
IGHV1-18*01

618 sequences assigned
100 (16.2%) exact matches, in which:
79 unique CDR3
5 unique J



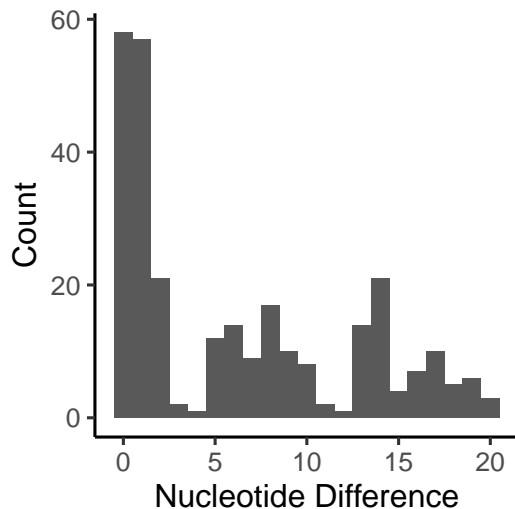
IGHV1-46*01

113 sequences assigned
33 (29.2%) exact matches, in which:
23 unique CDR3
5 unique J



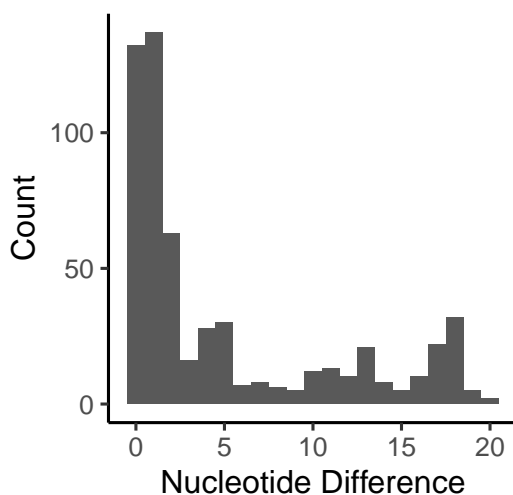
IGHV1-3*01

312 sequences assigned
58 (18.6%) exact matches, in which:
48 unique CDR3
6 unique J



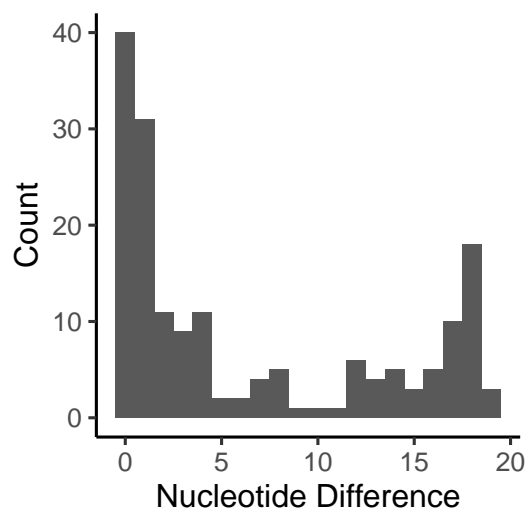
IGHV1-18*04

597 sequences assigned
132 (22.1%) exact matches, in which:
100 unique CDR3
6 unique J



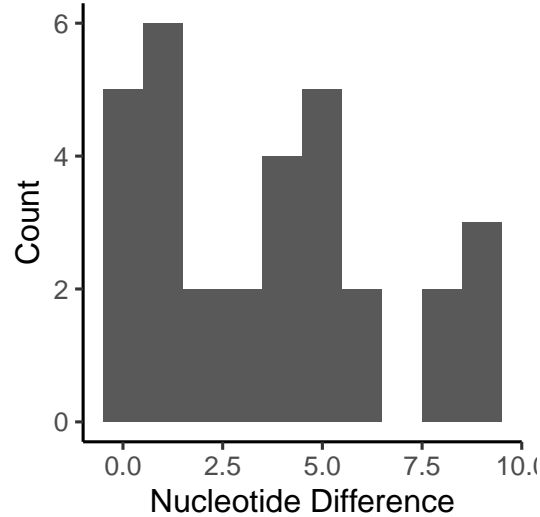
IGHV1-46*03

172 sequences assigned
40 (23.3%) exact matches, in which:
28 unique CDR3
5 unique J



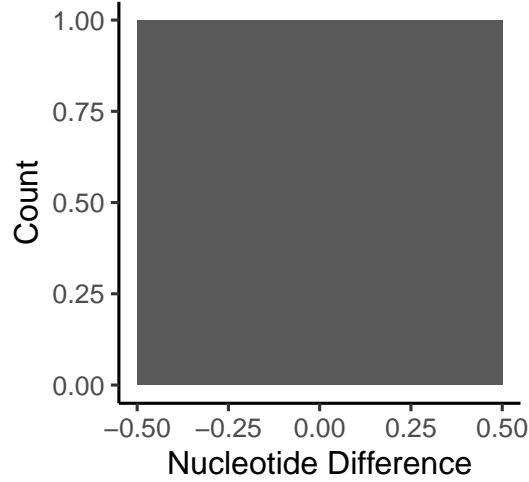
IGHV1-58*02

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



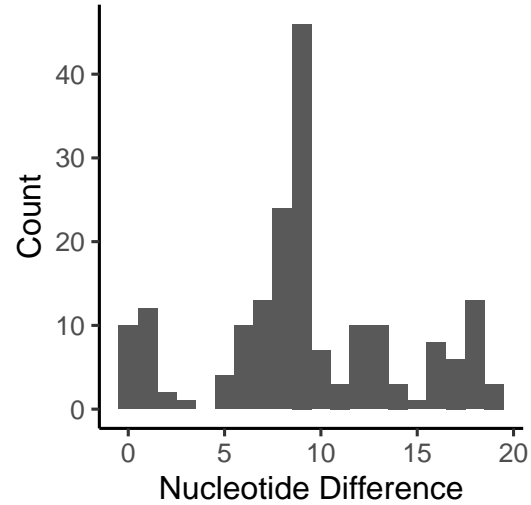
IGHV1-69D*01

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



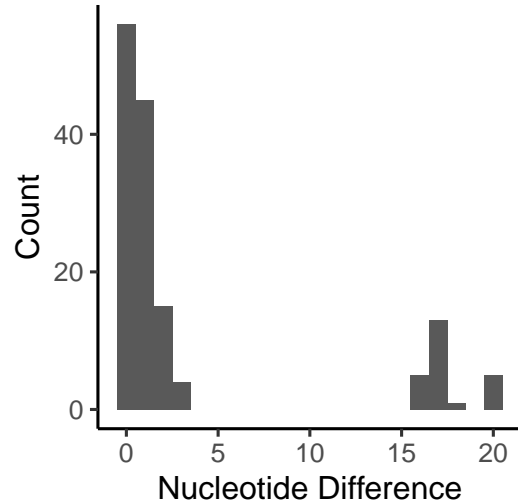
IGHV2-70*15

189 sequences assigned
10 (5.3%) exact matches, in which:
10 unique CDR3
4 unique J



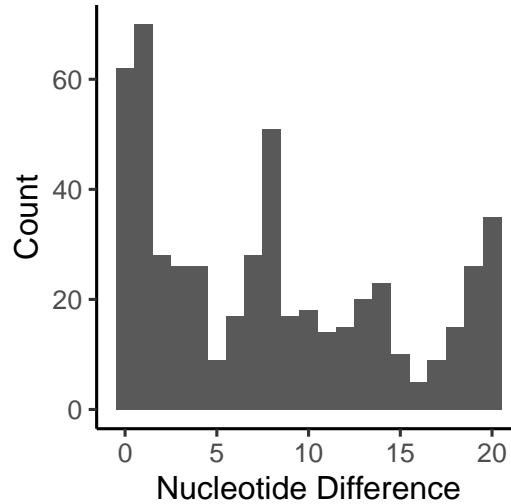
IGHV1-69*02

178 sequences assigned
56 (31.5%) exact matches, in which:
47 unique CDR3
6 unique J



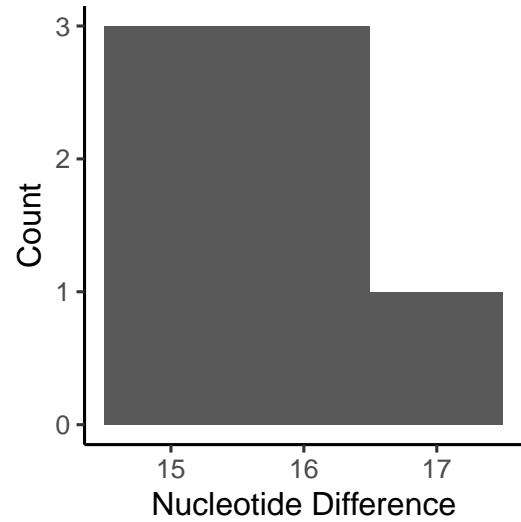
IGHV2-5*02

564 sequences assigned
62 (11%) exact matches, in which:
52 unique CDR3
5 unique J



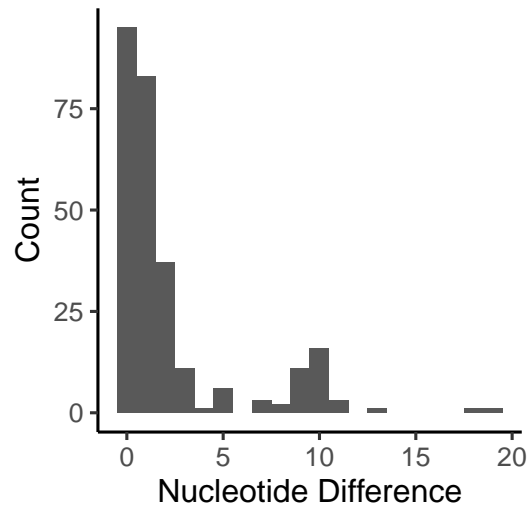
IGHV2-70D*04

7 sequences assigned
No exact matches.



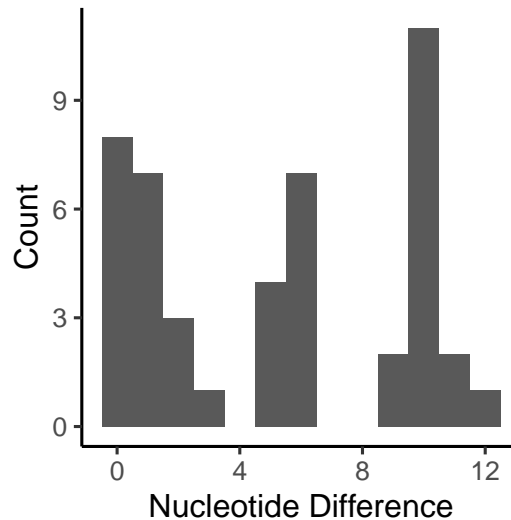
IGHV1-69*04

273 sequences assigned
95 (34.8%) exact matches, in which:
80 unique CDR3
5 unique J



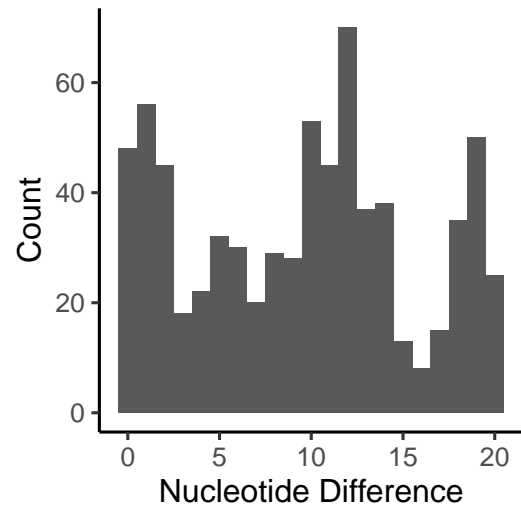
IGHV2-26*01

46 sequences assigned
8 (17.4%) exact matches, in which:
6 unique CDR3
3 unique J



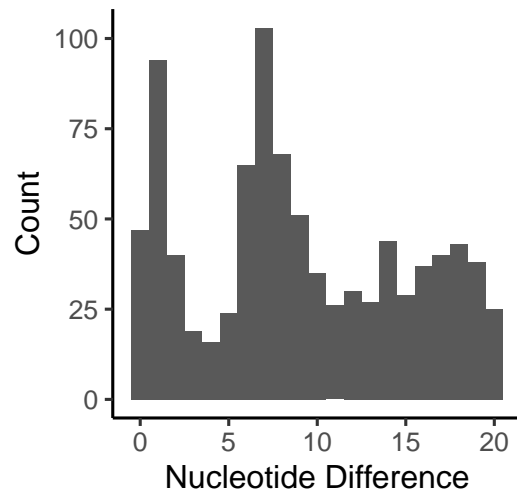
IGHV3-7*01

852 sequences assigned
48 (5.6%) exact matches, in which:
40 unique CDR3
6 unique J



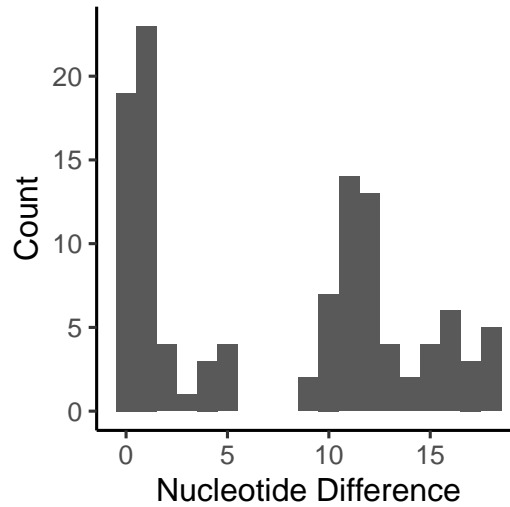
IGHV3-7*03

1138 sequences assigned
47 (4.1%) exact matches, in which:
36 unique CDR3
5 unique J



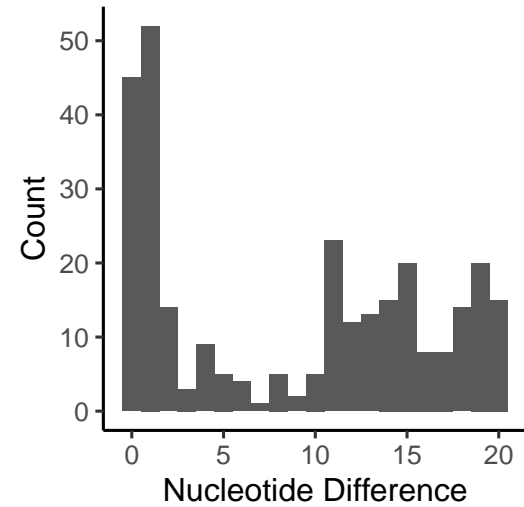
IGHV3-11*06

114 sequences assigned
19 (16.7%) exact matches, in which:
18 unique CDR3
5 unique J



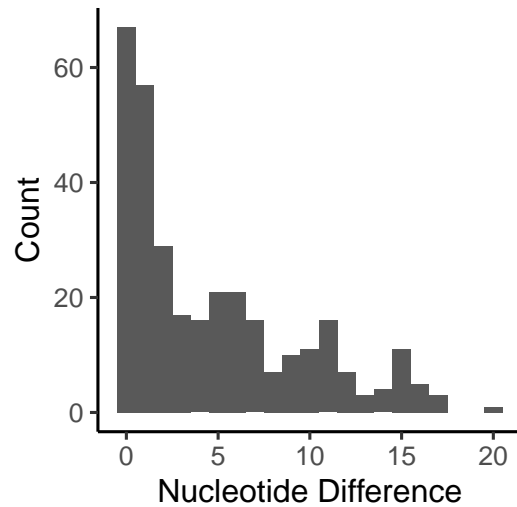
IGHV3-15*01

327 sequences assigned
45 (13.8%) exact matches, in which:
43 unique CDR3
4 unique J



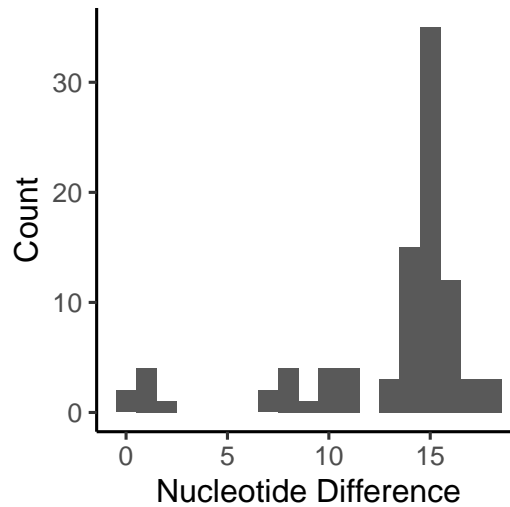
IGHV3-9*01

324 sequences assigned
67 (20.7%) exact matches, in which:
60 unique CDR3
5 unique J



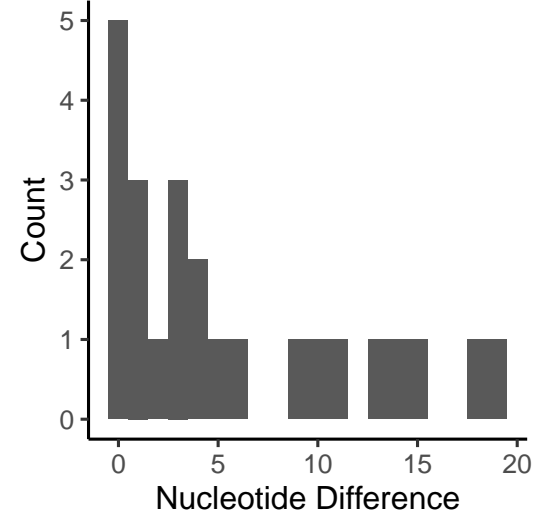
IGHV3-13*01

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



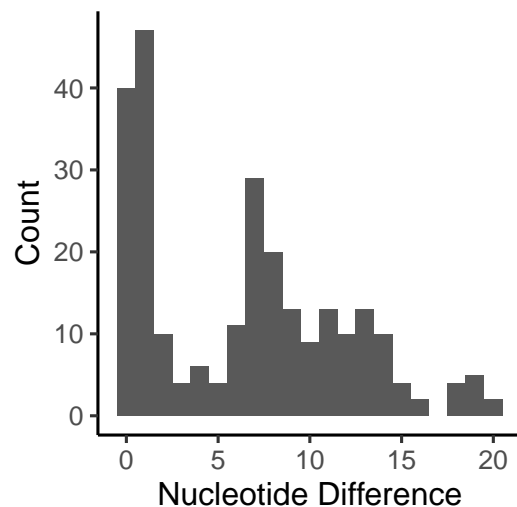
IGHV3-20*01

24 sequences assigned
5 (20.8%) exact matches, in which:
5 unique CDR3
3 unique J



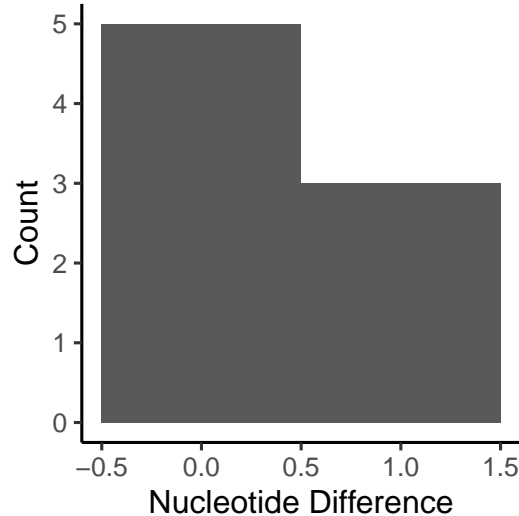
IGHV3-11*01

274 sequences assigned
40 (14.6%) exact matches, in which:
35 unique CDR3
4 unique J



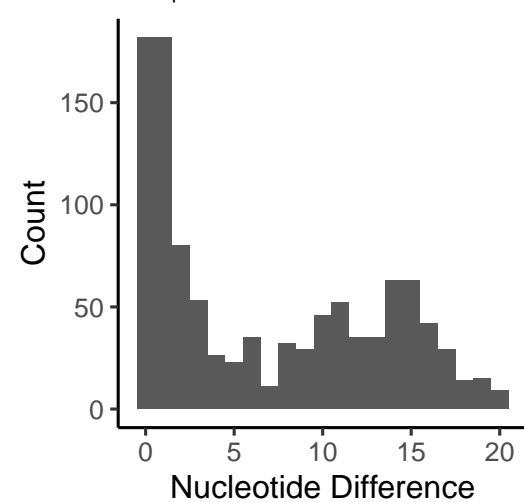
IGHV3-13*05

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



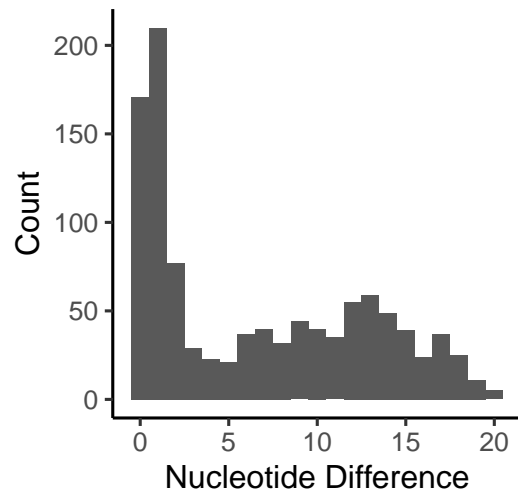
IGHV3-21*01

1326 sequences assigned
182 (13.7%) exact matches, in which:
153 unique CDR3
6 unique J



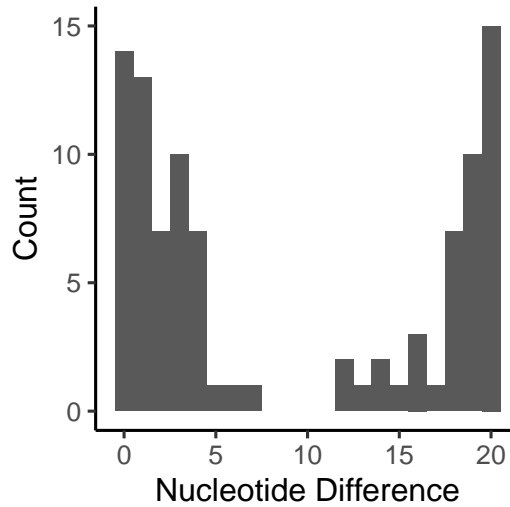
IGHV3-30-3*01

1138 sequences assigned
171 (15%) exact matches, in which:
144 unique CDR3
6 unique J



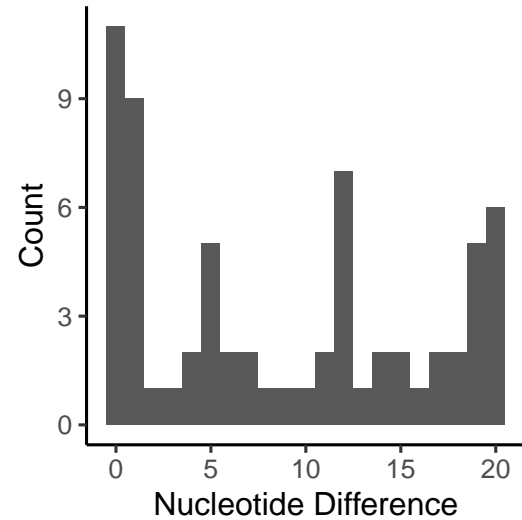
IGHV3-43*02

102 sequences assigned
14 (13.7%) exact matches, in which:
13 unique CDR3
3 unique J



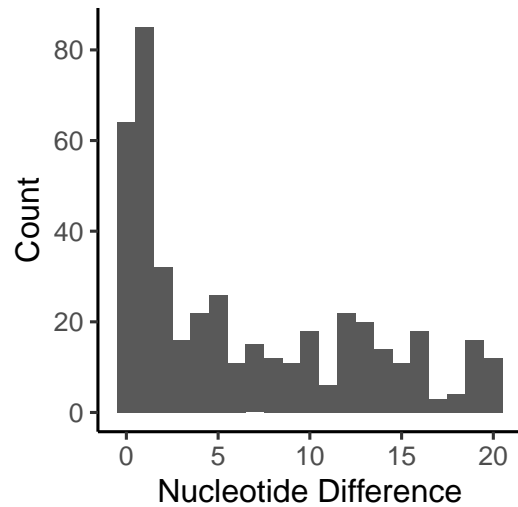
IGHV3-49*03

99 sequences assigned
11 (11.1%) exact matches, in which:
11 unique CDR3
3 unique J



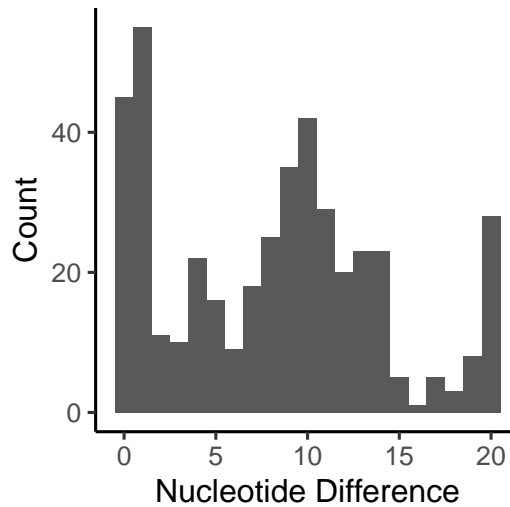
IGHV3-33*01

474 sequences assigned
64 (13.5%) exact matches, in which:
45 unique CDR3
4 unique J



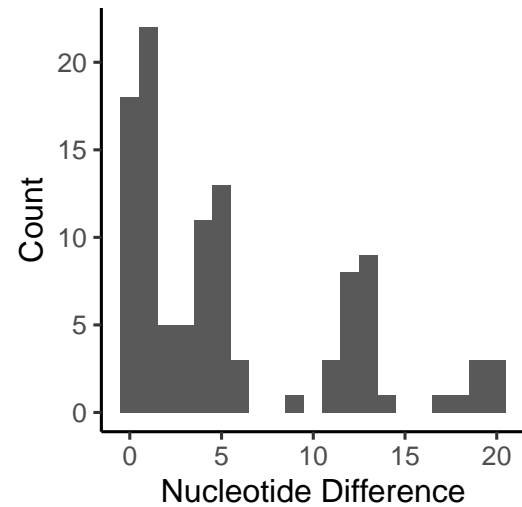
IGHV3-48*01

487 sequences assigned
45 (9.2%) exact matches, in which:
34 unique CDR3
4 unique J



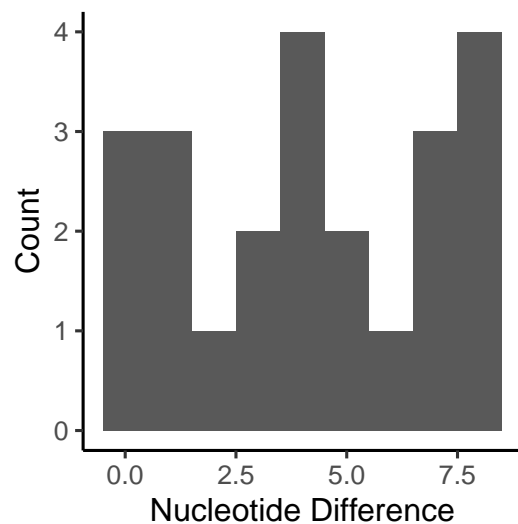
IGHV3-49*04

134 sequences assigned
18 (13.4%) exact matches, in which:
17 unique CDR3
5 unique J



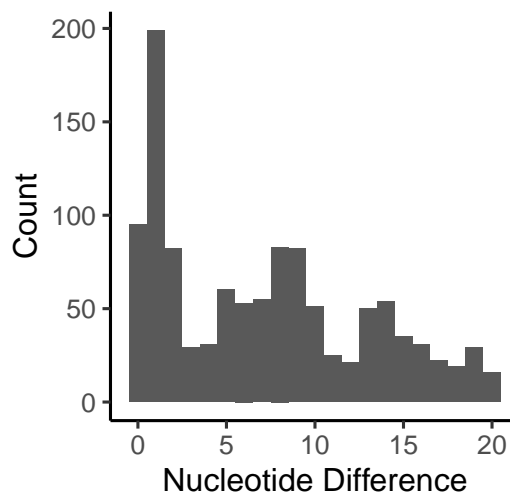
IGHV3-43*01

48 sequences assigned
3 (6.2%) exact matches, in which:
2 unique CDR3
2 unique J



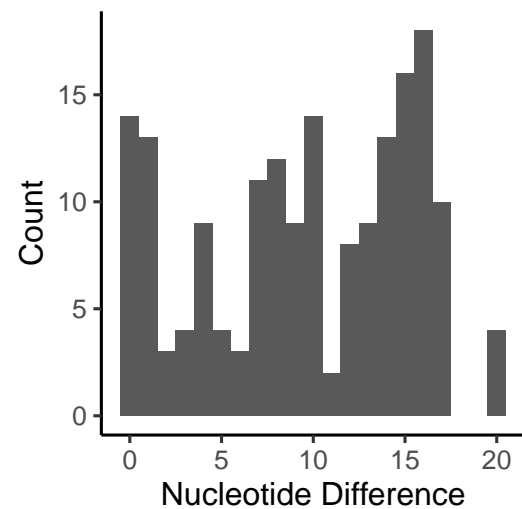
IGHV3-48*03

1175 sequences assigned
95 (8.1%) exact matches, in which:
72 unique CDR3
4 unique J



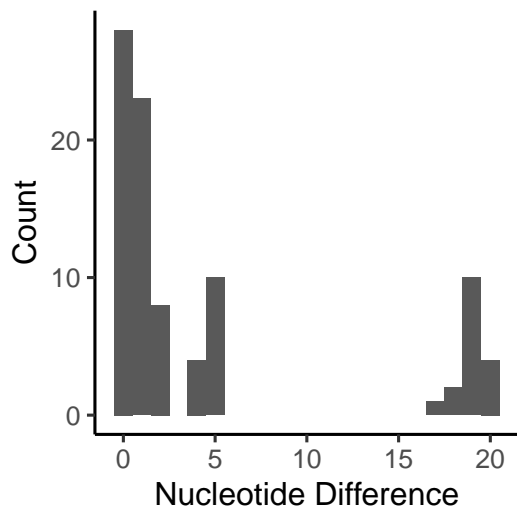
IGHV3-53*02

244 sequences assigned
14 (5.7%) exact matches, in which:
13 unique CDR3
5 unique J



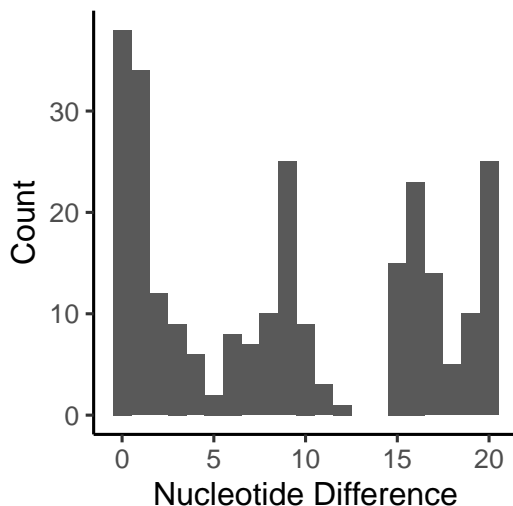
IGHV3-53*04

92 sequences assigned
28 (30.4%) exact matches, in which:
22 unique CDR3
4 unique J



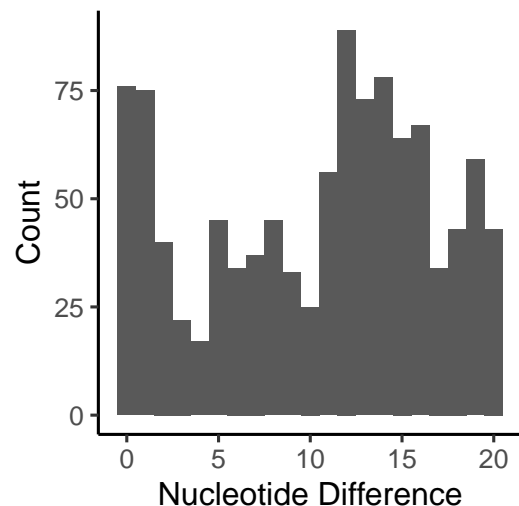
IGHV3-66*02

295 sequences assigned
38 (12.9%) exact matches, in which:
33 unique CDR3
4 unique J



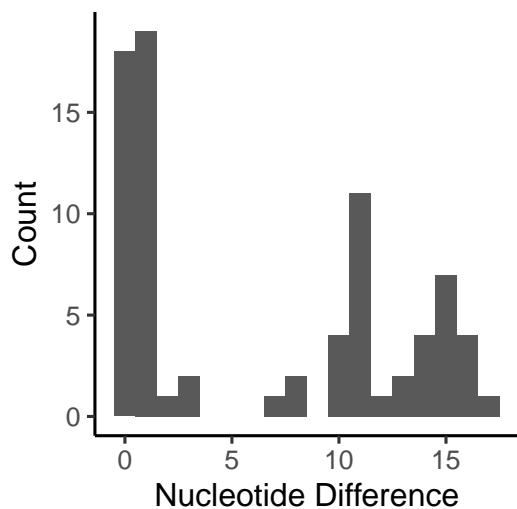
IGHV3-74*01

1346 sequences assigned
76 (5.6%) exact matches, in which:
63 unique CDR3
4 unique J



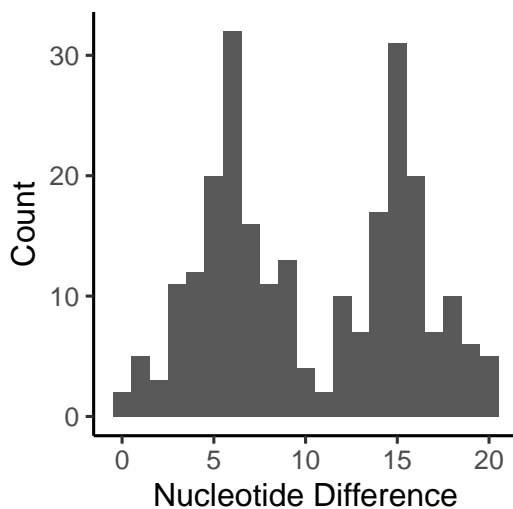
IGHV3-64*01

79 sequences assigned
18 (22.8%) exact matches, in which:
11 unique CDR3
3 unique J



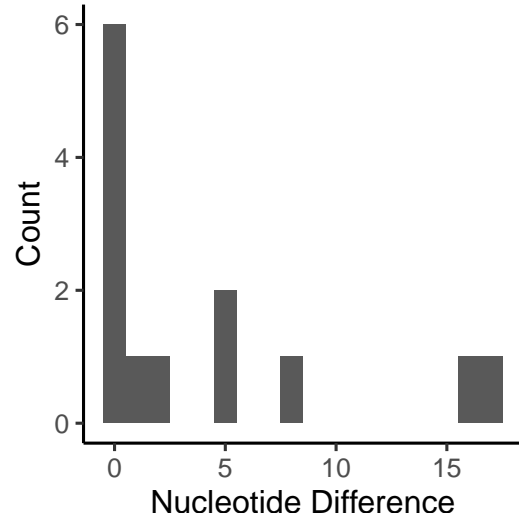
IGHV3-72*01

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



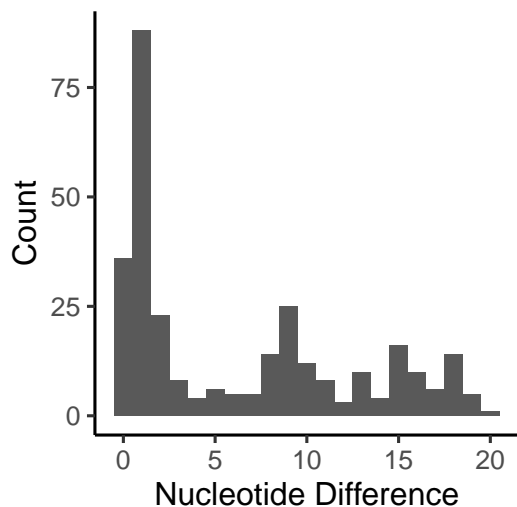
IGHV3-43D*03

13 sequences assigned
6 (46.2%) exact matches, in which:
6 unique CDR3
3 unique J



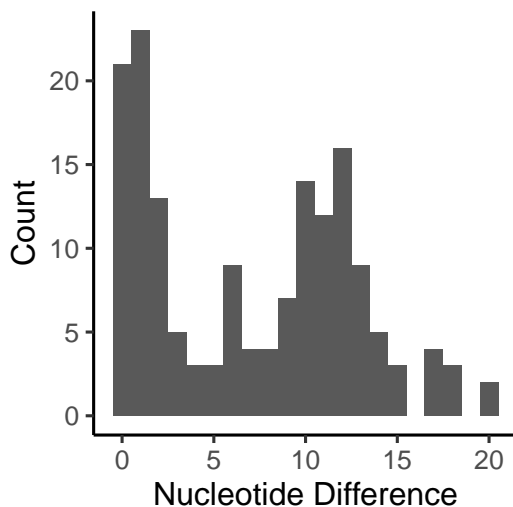
IGHV3-66*01

308 sequences assigned
36 (11.7%) exact matches, in which:
27 unique CDR3
5 unique J



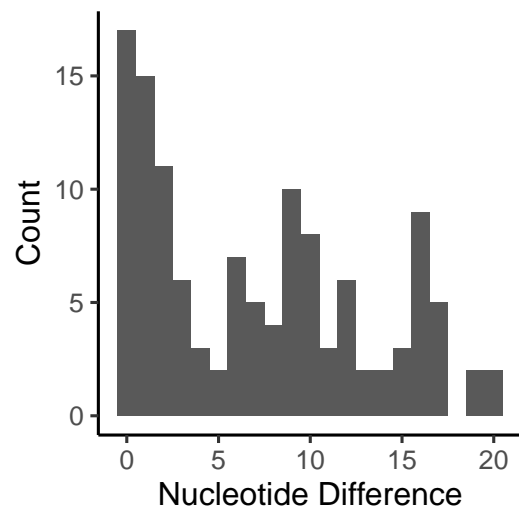
IGHV3-73*01

213 sequences assigned
21 (9.9%) exact matches, in which:
19 unique CDR3
4 unique J



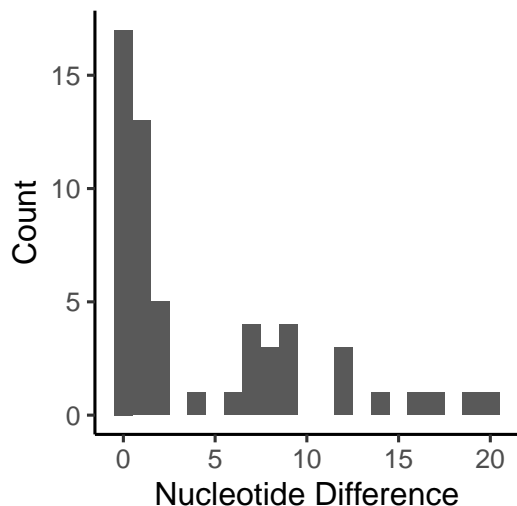
IGHV3-64D*06

166 sequences assigned
17 (10.2%) exact matches, in which:
17 unique CDR3
4 unique J



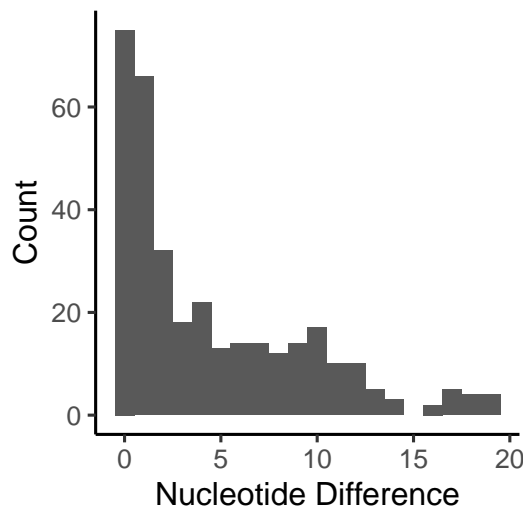
IGHV4-4*02

83 sequences assigned
17 (20.5%) exact matches, in which:
16 unique CDR3
4 unique J



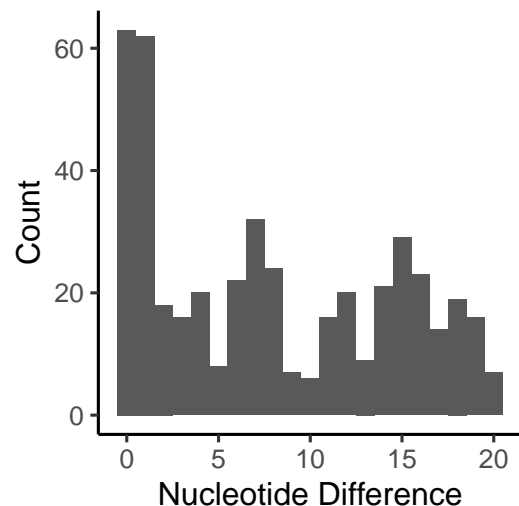
IGHV4-30-4*01

349 sequences assigned
75 (21.5%) exact matches, in which:
62 unique CDR3
4 unique J



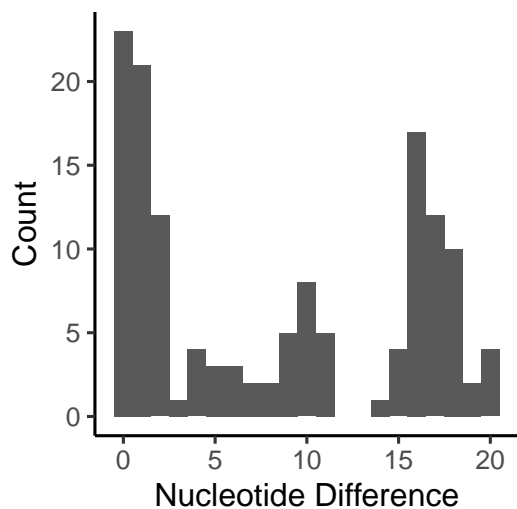
IGHV4-38-2*02

613 sequences assigned
63 (10.3%) exact matches, in which:
55 unique CDR3
6 unique J



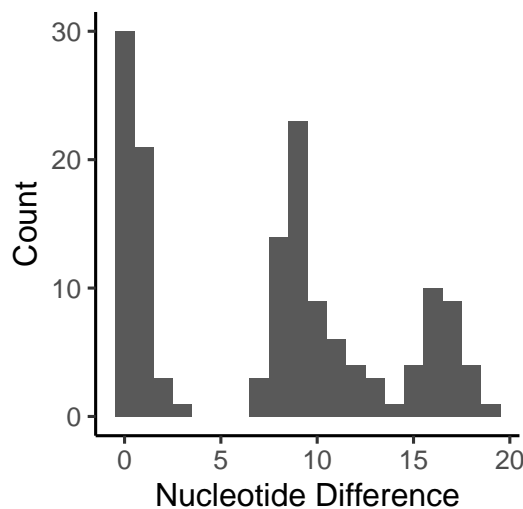
IGHV4-4*07

140 sequences assigned
23 (16.4%) exact matches, in which:
18 unique CDR3
4 unique J



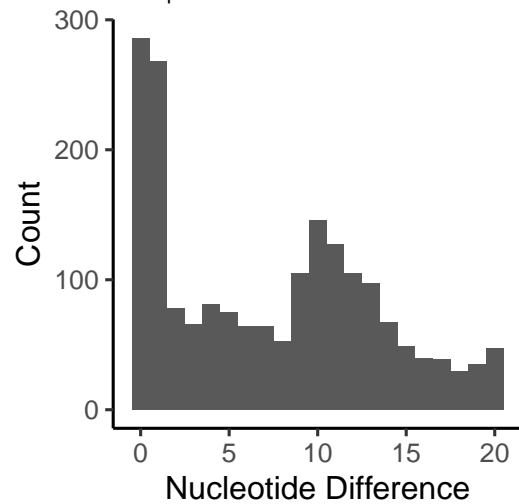
IGHV4-31*03

146 sequences assigned
30 (20.5%) exact matches, in which:
24 unique CDR3
6 unique J



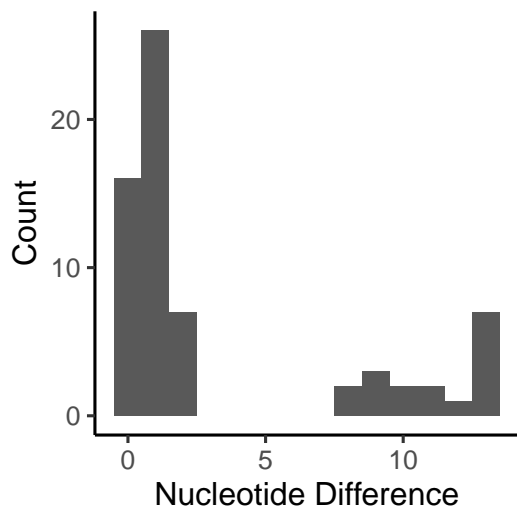
IGHV4-39*01

2159 sequences assigned
286 (13.2%) exact matches, in which:
266 unique CDR3
6 unique J



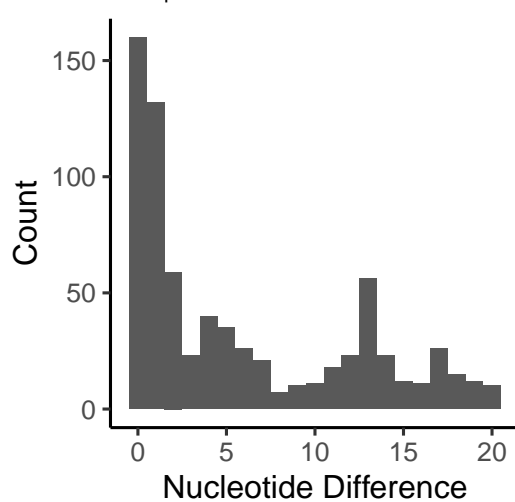
IGHV4-30-2*01

134 sequences assigned
16 (11.9%) exact matches, in which:
16 unique CDR3
5 unique J



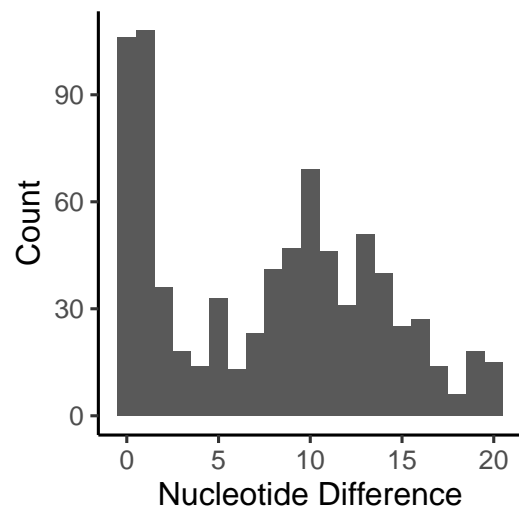
IGHV4-34*01

826 sequences assigned
160 (19.4%) exact matches, in which:
144 unique CDR3
6 unique J



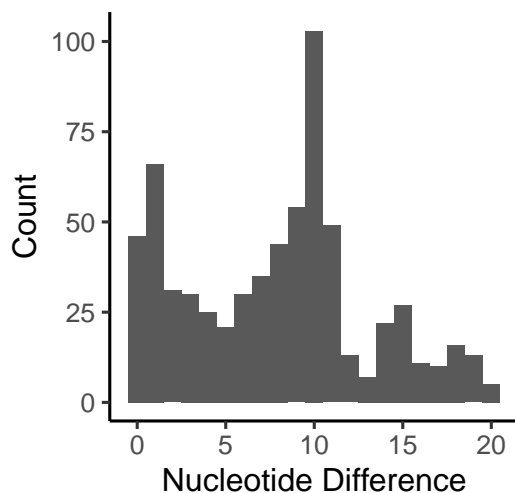
IGHV4-59*01

813 sequences assigned
106 (13%) exact matches, in which:
88 unique CDR3
6 unique J



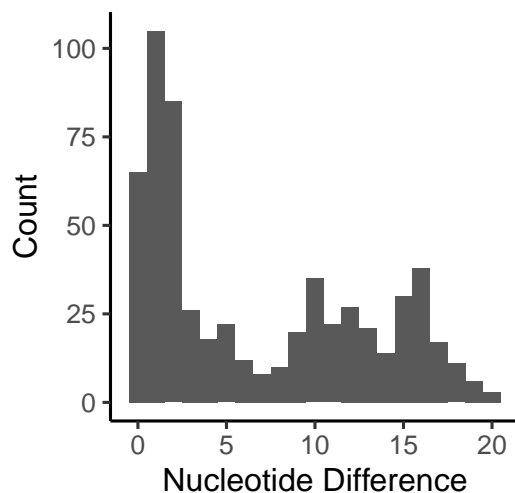
IGHV4–59*08

713 sequences assigned
46 (6.5%) exact matches, in which:
35 unique CDR3
5 unique J



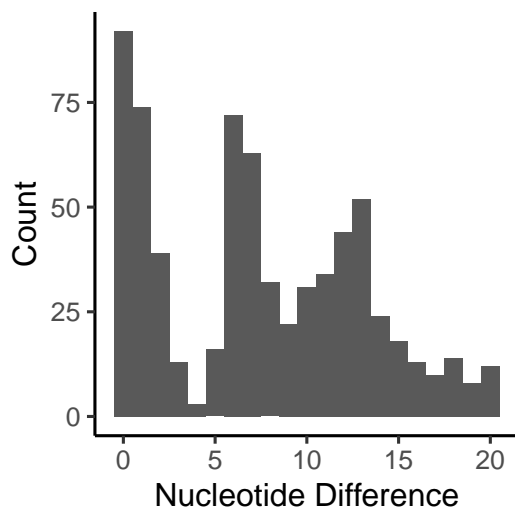
IGHV5–51*01

603 sequences assigned
65 (10.8%) exact matches, in which:
57 unique CDR3
5 unique J



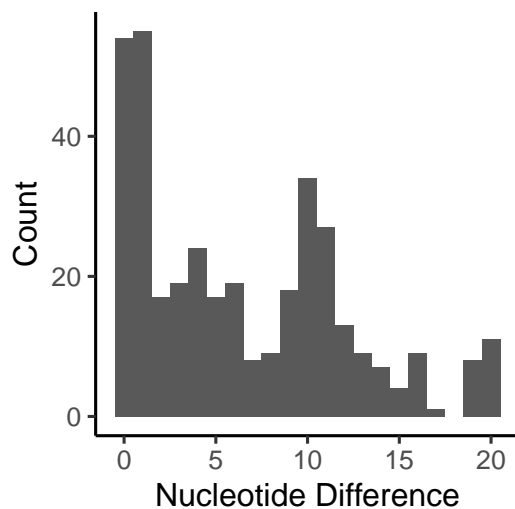
IGHV4–61*02

699 sequences assigned
92 (13.2%) exact matches, in which:
66 unique CDR3
6 unique J



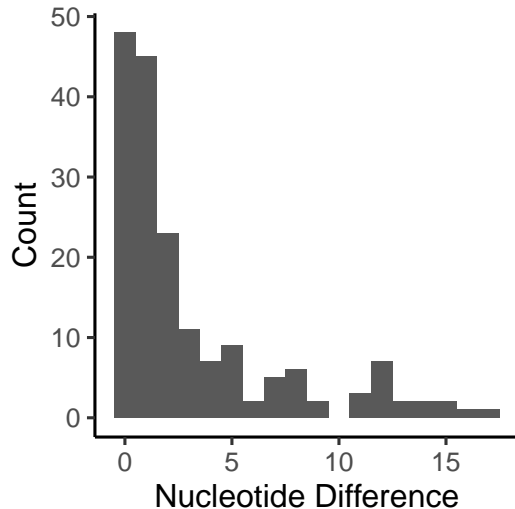
IGHV5–51*03

436 sequences assigned
54 (12.4%) exact matches, in which:
49 unique CDR3
5 unique J



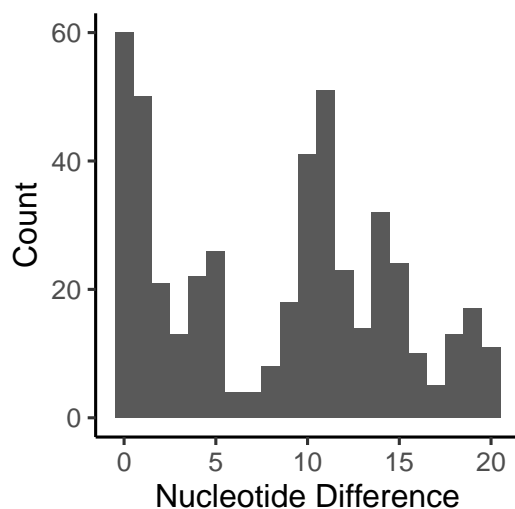
IGHV5–10–1*03

176 sequences assigned
48 (27.3%) exact matches, in which:
43 unique CDR3
5 unique J



IGHV6–1*01

485 sequences assigned
60 (12.4%) exact matches, in which:
45 unique CDR3
6 unique J





Warning – no inferred sequences found.