Characterization of 150 wheat cultivars by LC-MS based label free quantitative proteomics unravels possibilities to design wheat better for baking quality and human health

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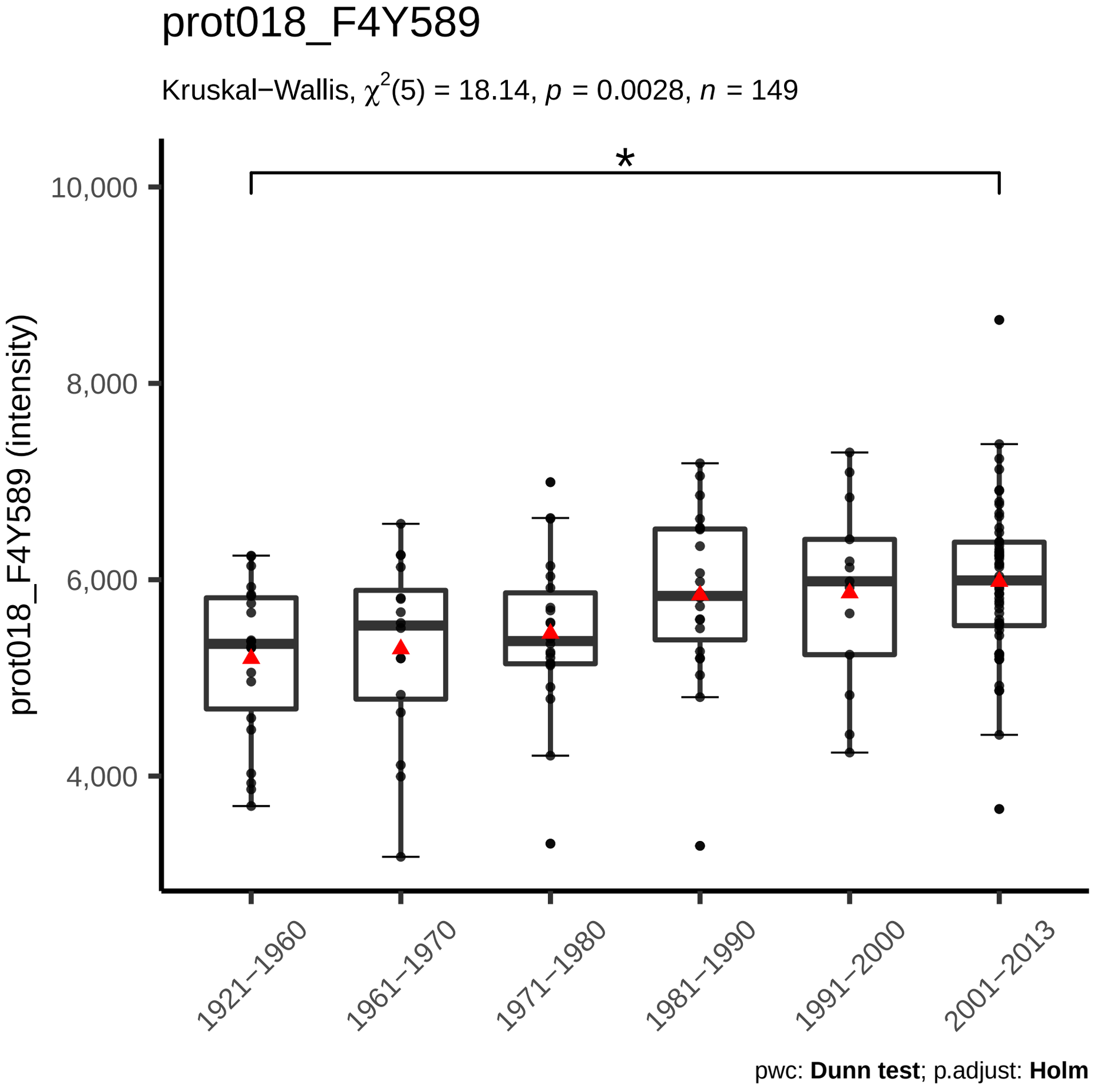
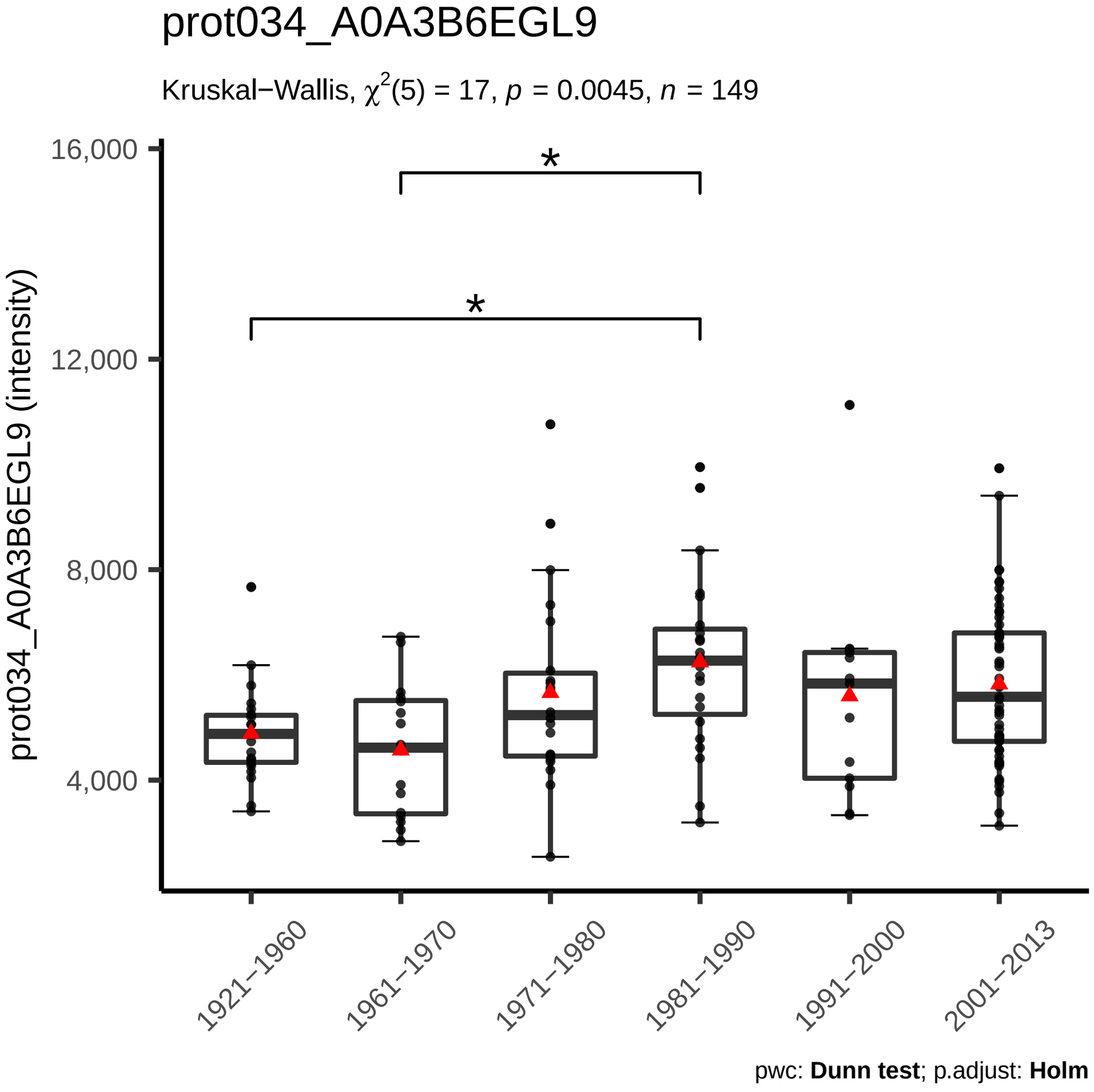
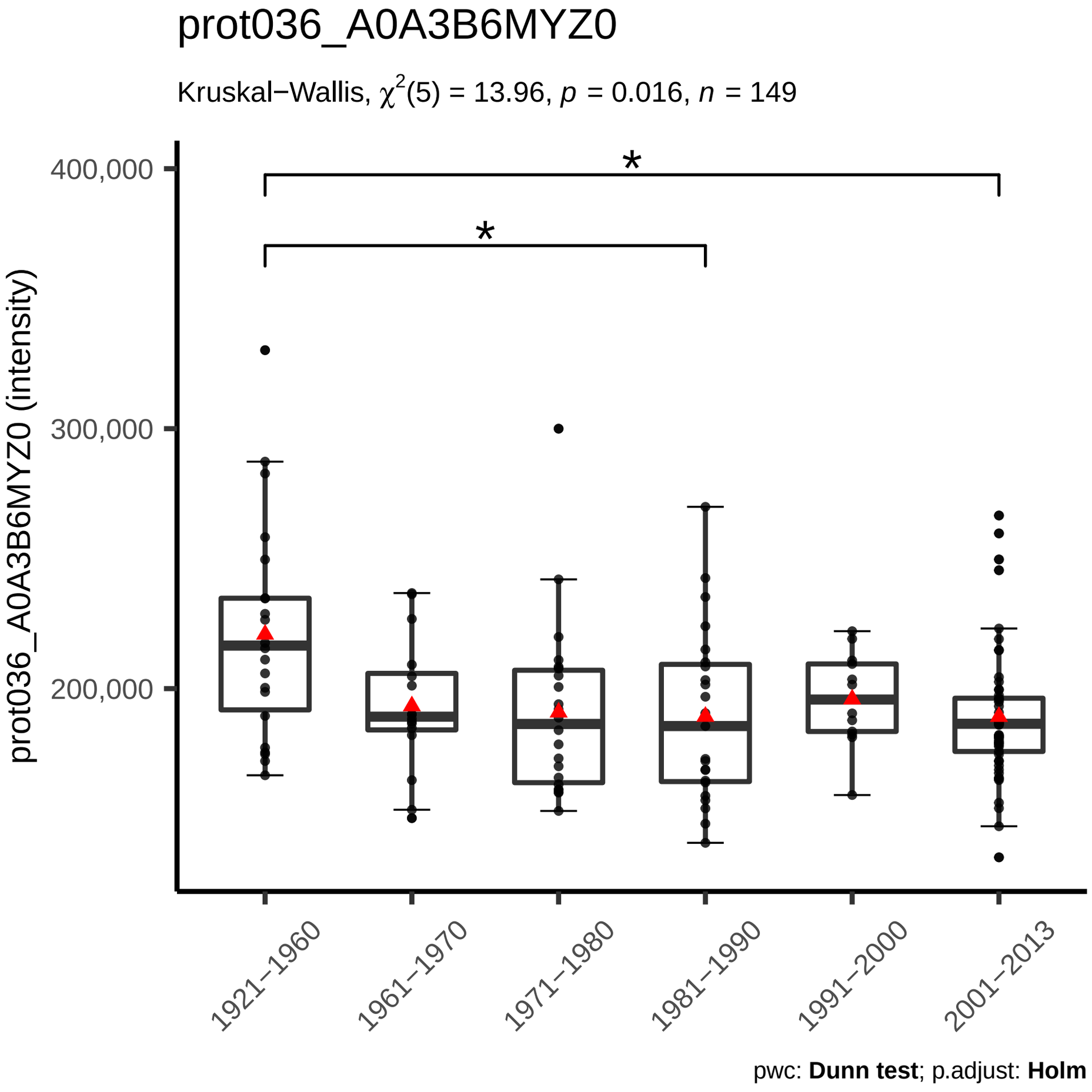
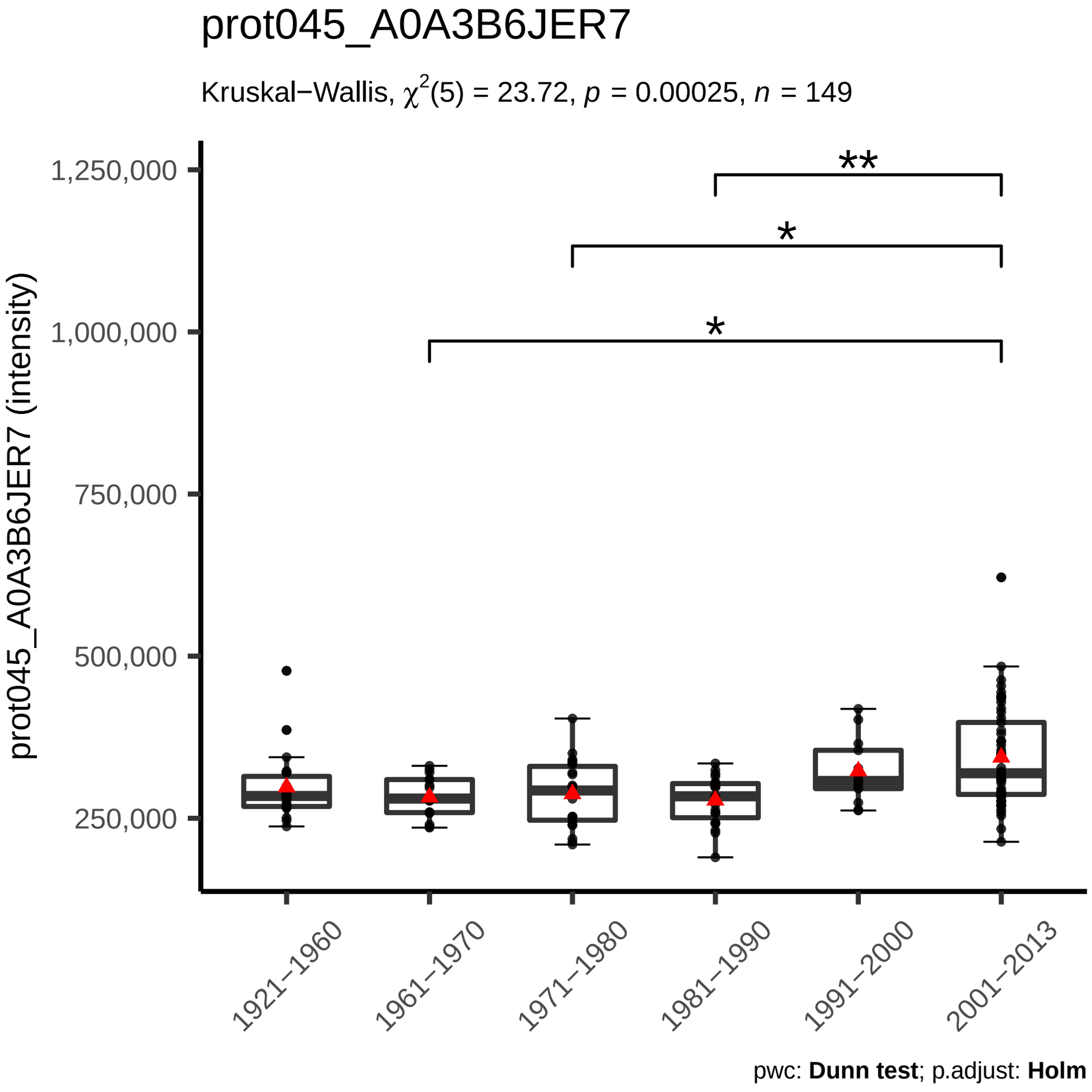
Supplementary Figure S1: Boxplots of proteins that showed temporal trend

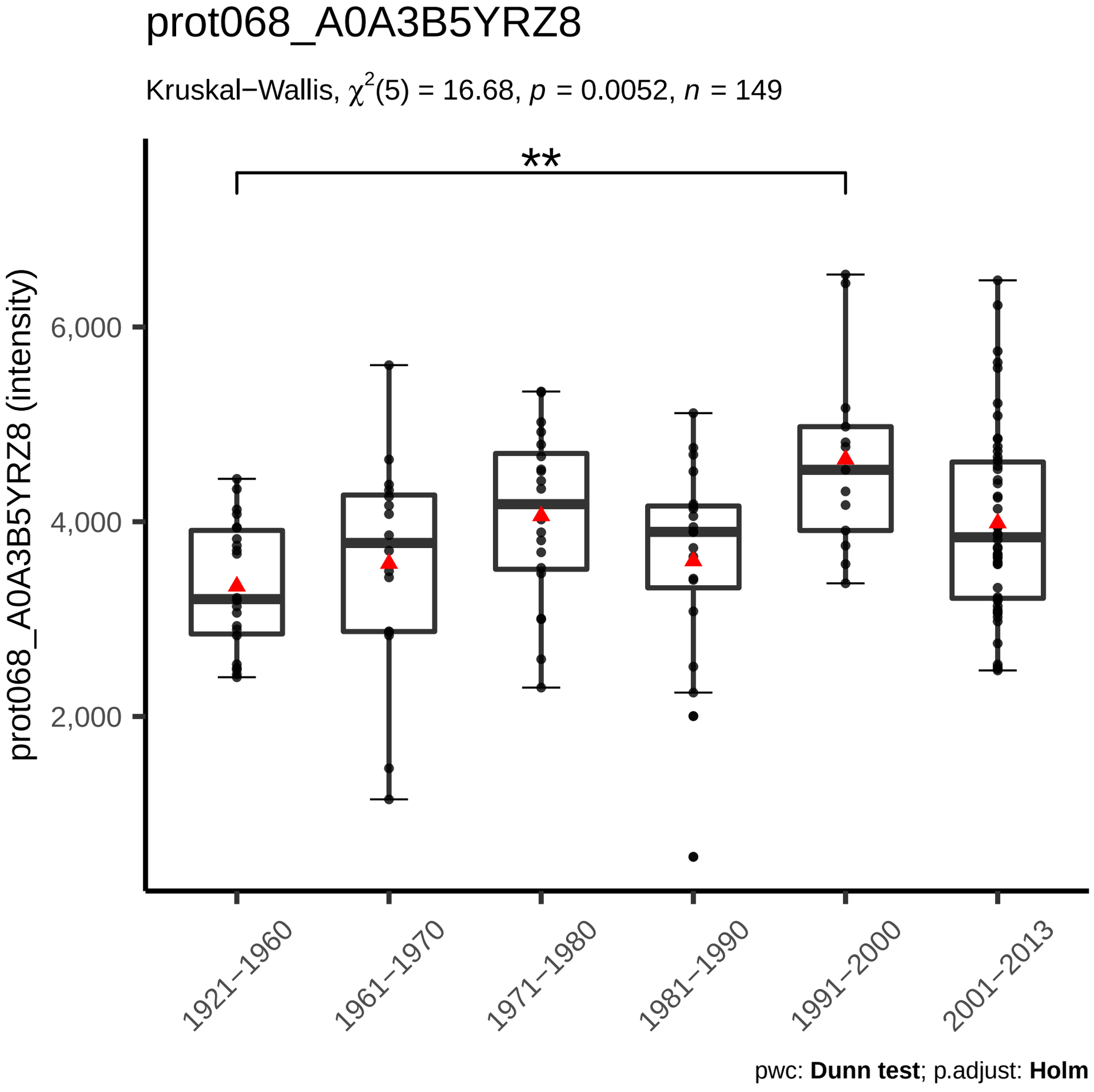
According to Dunn's test, *, **, and *** indicate significant pairwise differences at adjusted *p* value of < 0.05, < 0.01 and < 0.001, respectively. Lines for non-significant pairwise differences are not shown. Group means are denoted by red triangles. For each protein, the UniProt accession is appended to the internal protein number after "_".

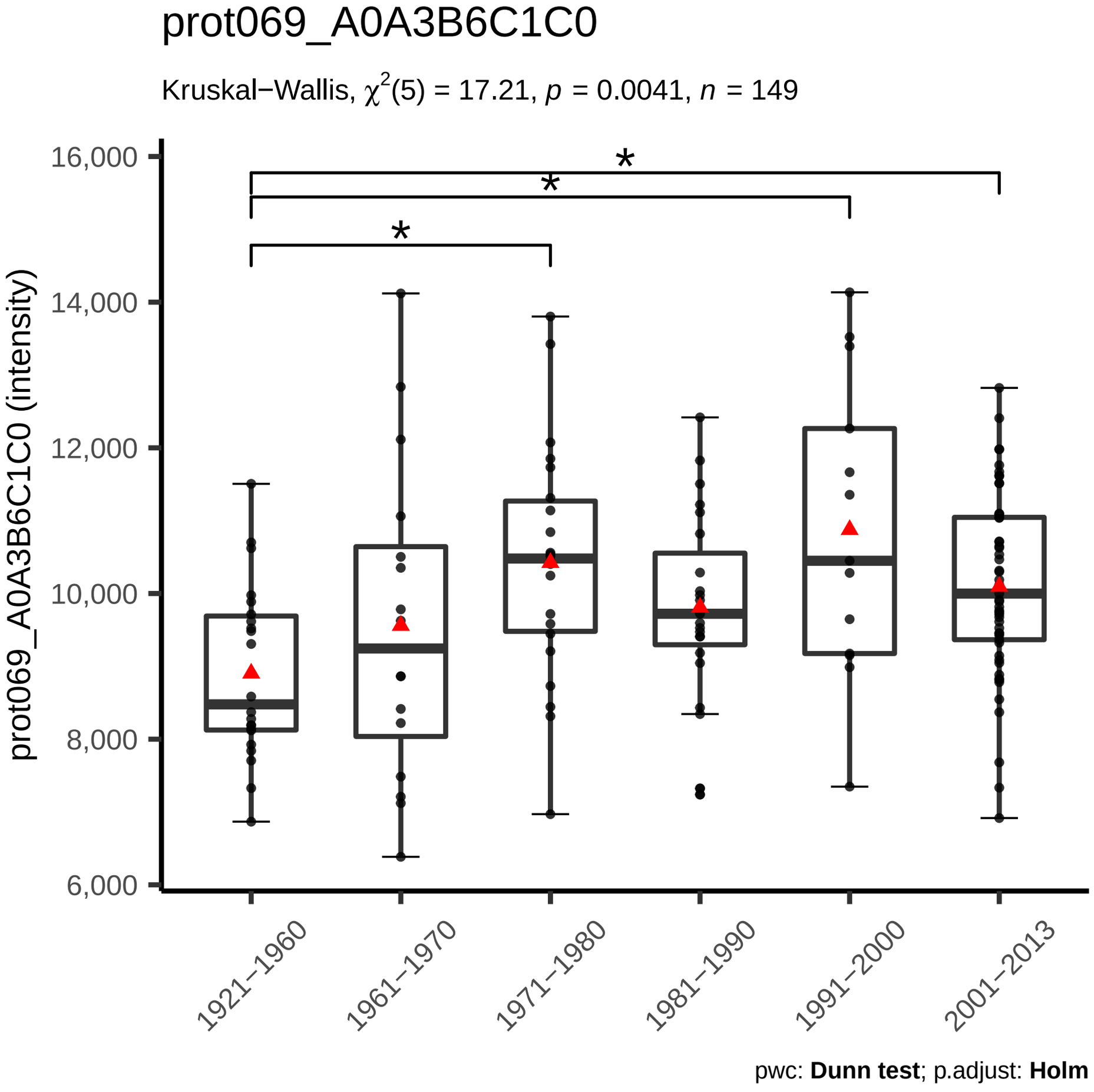

prot018_F4Y589
Kruskal−Wallis, $\chi^2(5) = 18.14$, $p = 0.0028$, $n = 149$
*
10,000
8,000
6,000
4,000
prot018_F4Y589 (intensity)
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**

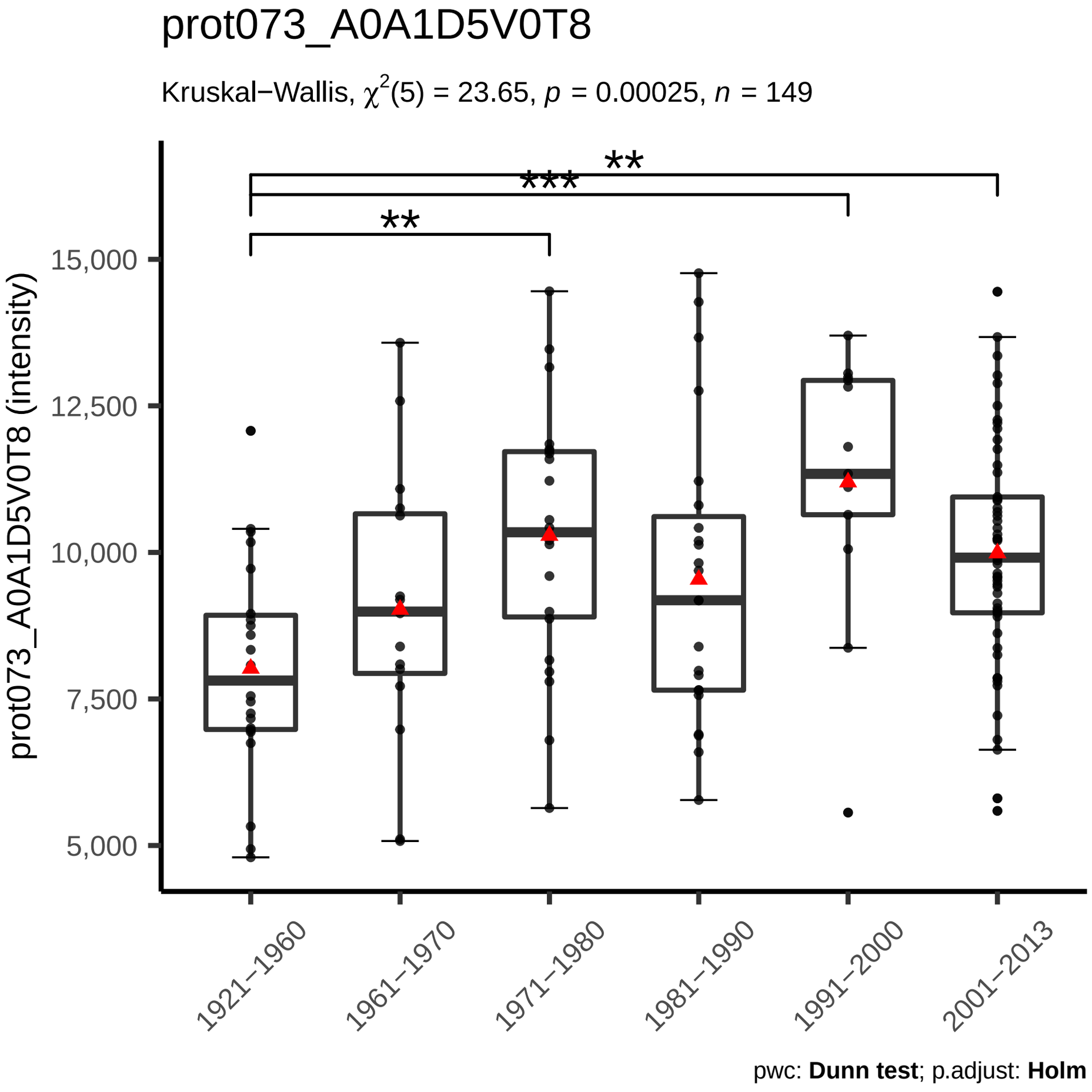

prot034_A0A3B6EGL9
Kruskal−Wallis, $\chi^2(5) = 17$, $p = 0.0045$, $n = 149$
prot034_A0A3B6EGL9 (intensity)
16,000
12,000
8,000
4,000
*
*
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**

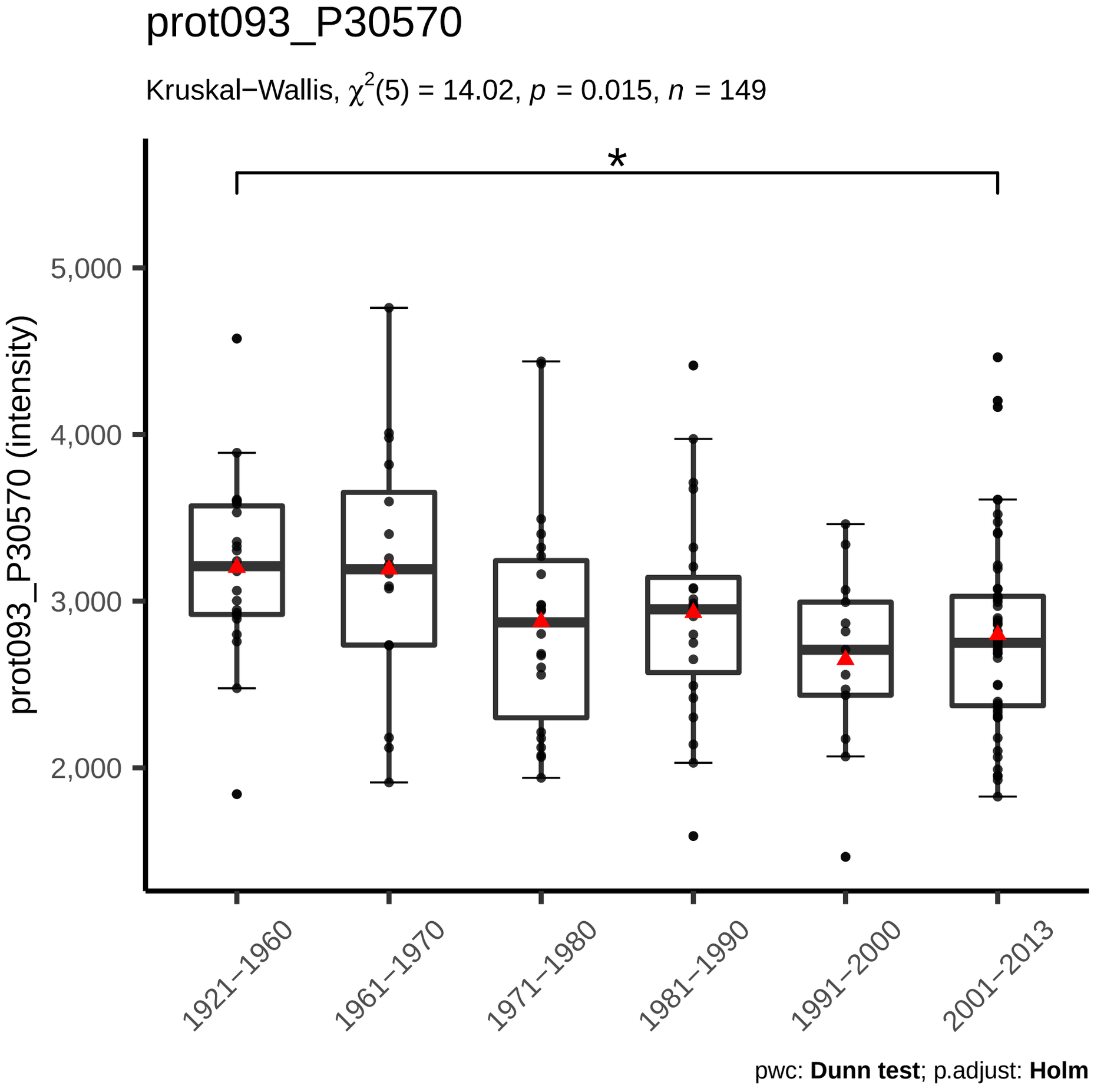

prot036_A0A3B6MYZ0
Kruskal−Wallis, $\chi^2(5) = 13.96$, $p = 0.016$, $n = 149$
prot036_A0A3B6MYZ0 (intensity)
400,000
300,000
200,000
*
*
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**

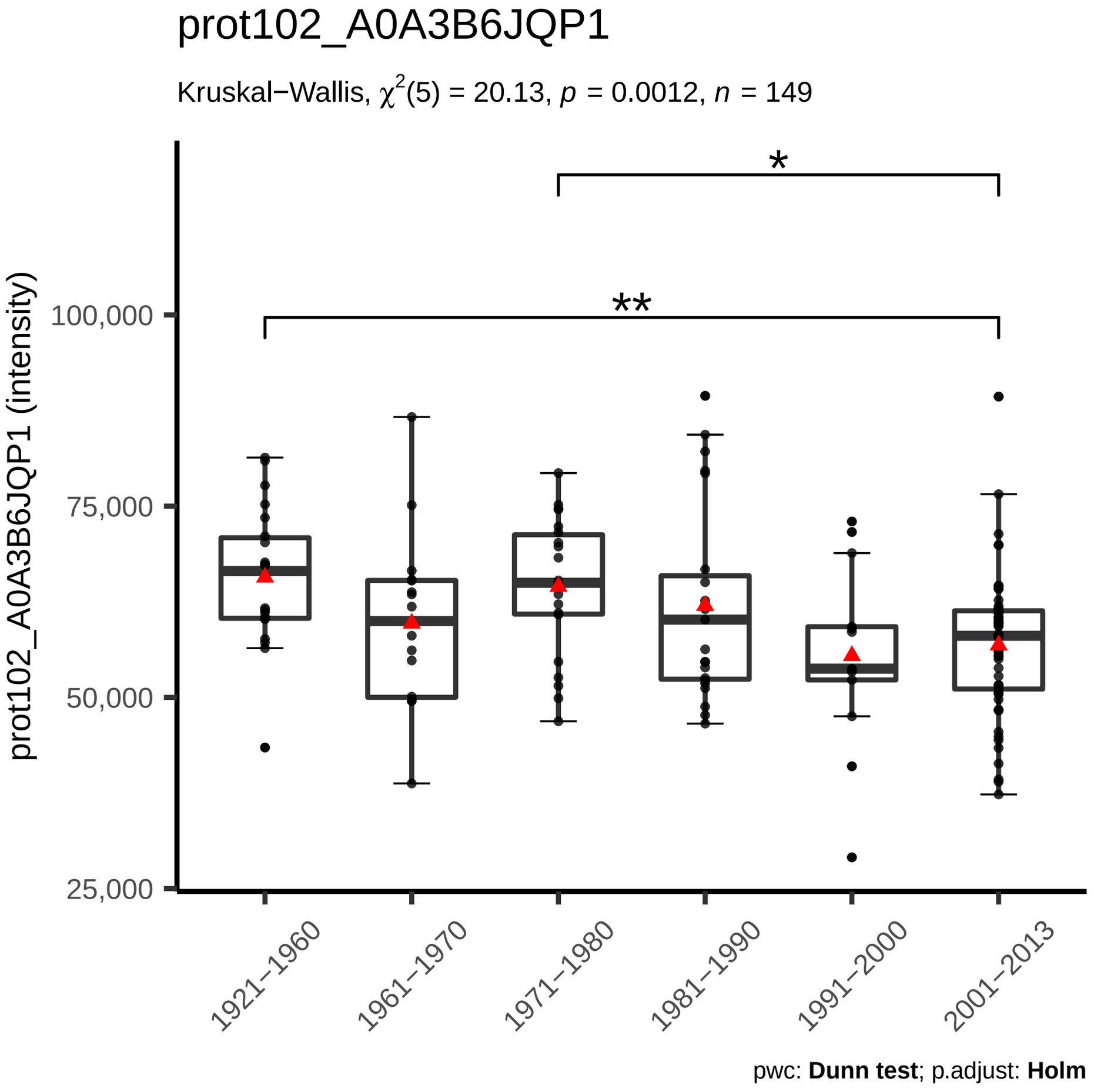

prot045_A0A3B6JER7
Kruskal−Wallis, $\chi^2(5) = 23.72$, $p = 0.00025$, $n = 149$
prot045_A0A3B6JER7 (intensity)
1,250,000
1,000,000
750,000
500,000
250,000
**
*
*
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**

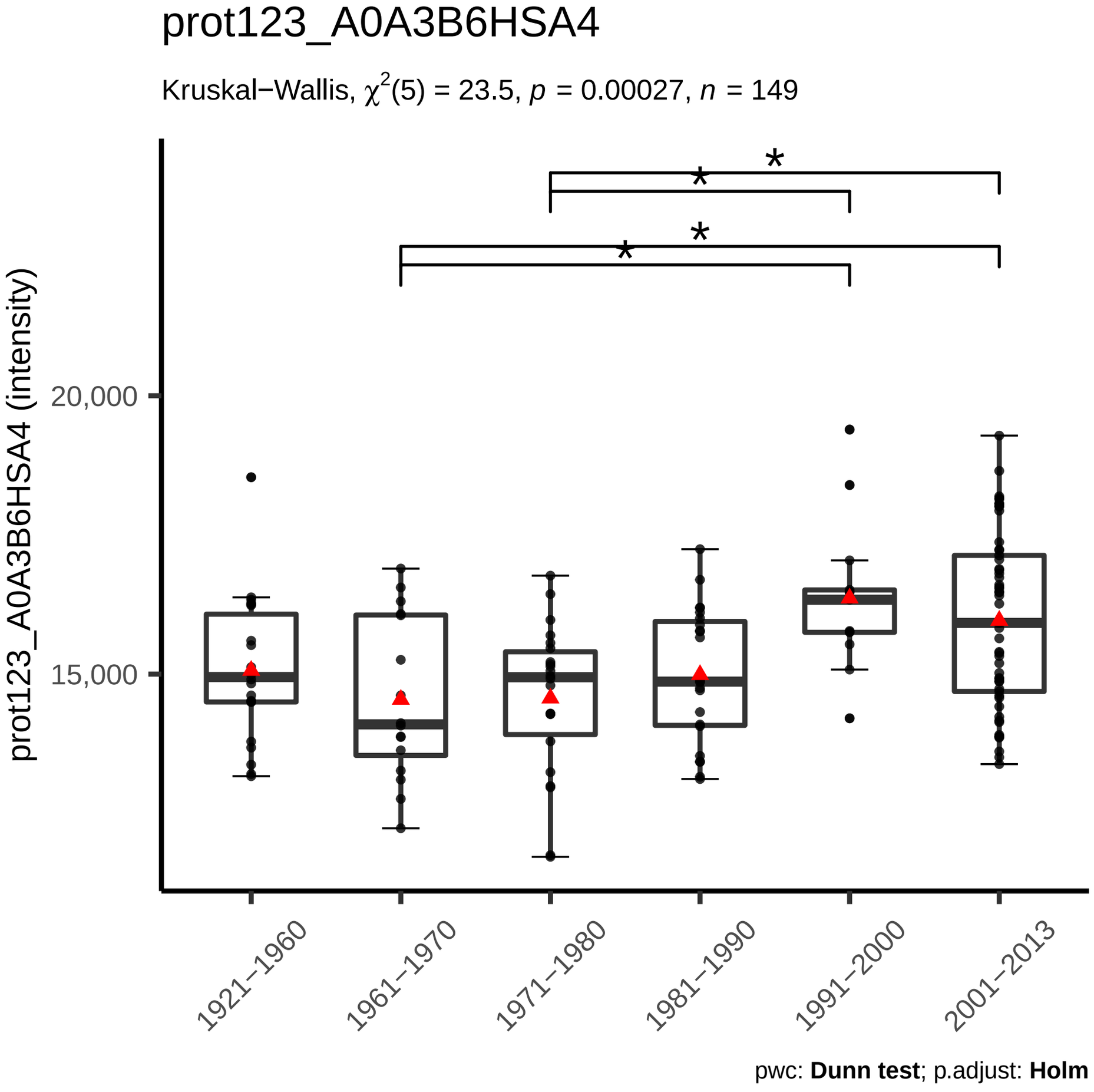

prot068_A0A3B5YRZ8
Kruskal−Wallis, $\chi^2(5) = 16.68$, $p = 0.0052$, $n = 149$
**
prot068_A0A3B5YRZ8 (intensity)
6,000
4,000
2,000
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**

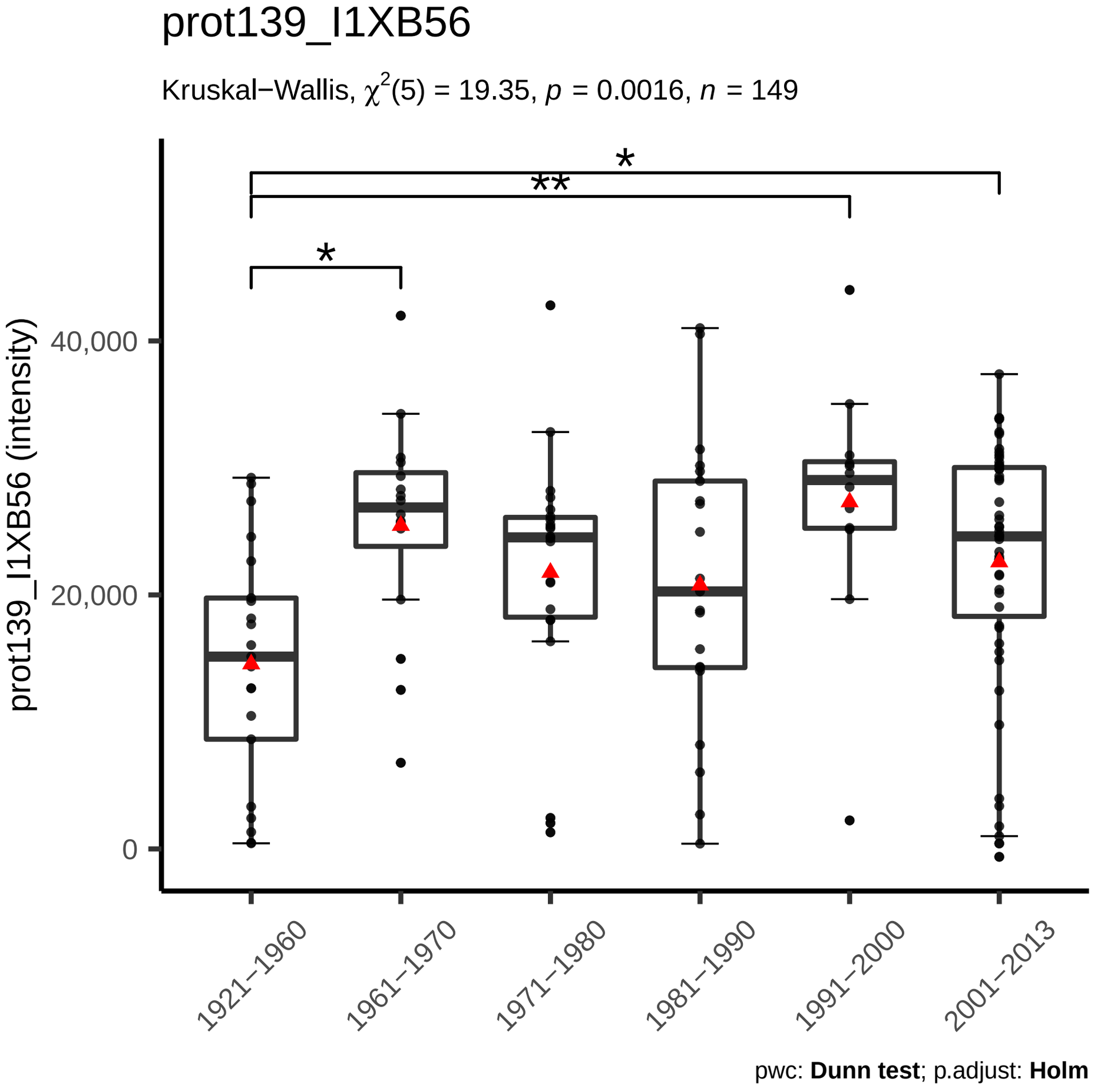

prot069_A0A3B6C1C0
Kruskal−Wallis, $\chi^2(5) = 17.21$, $p = 0.0041$, $n = 149$
prot069_A0A3B6C1C0 (intensity)
16,000
14,000
12,000
10,000
8,000
6,000
*
*
*
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**

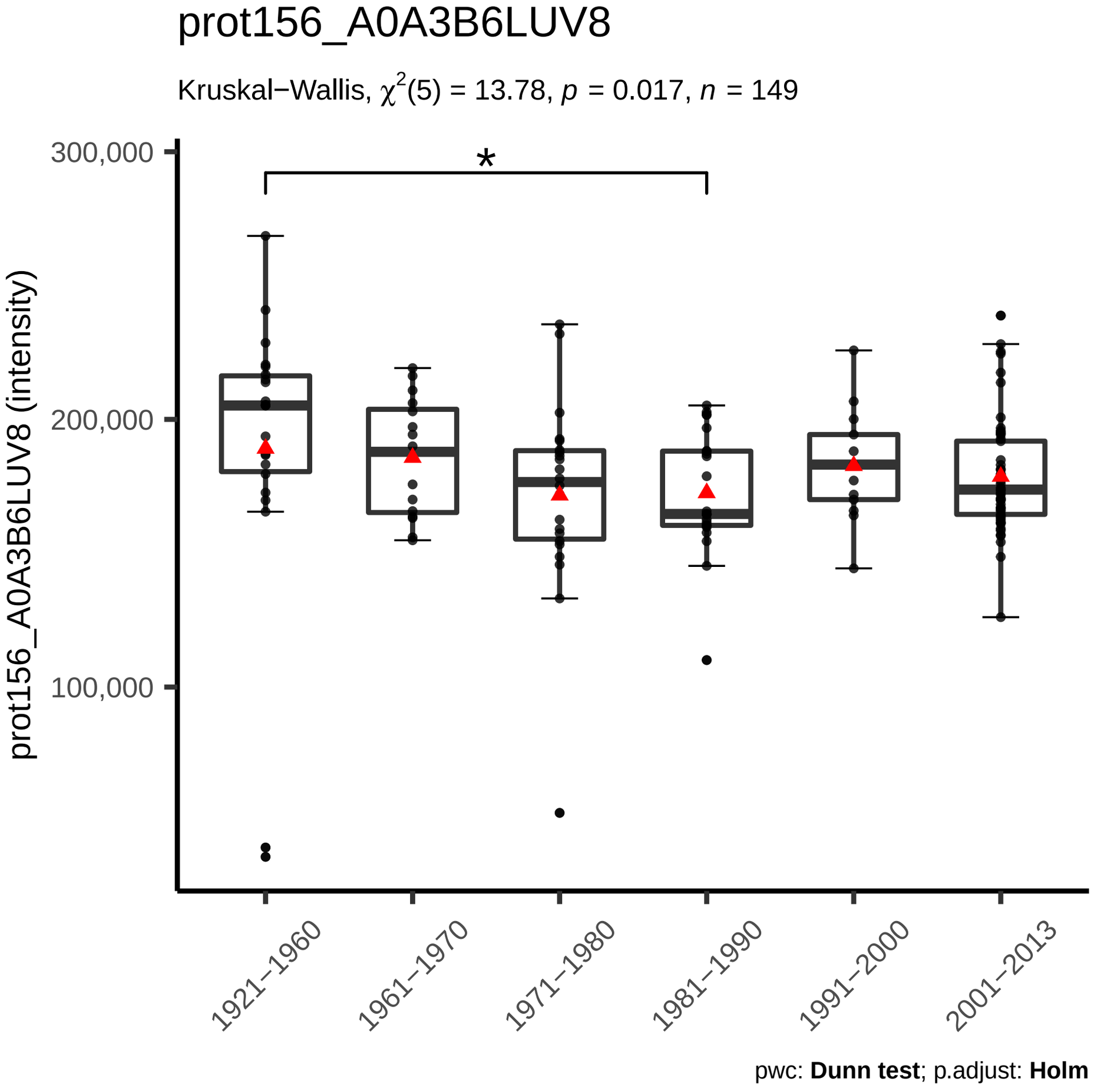

prot073_A0A1D5V0T8
Kruskal−Wallis, $\chi^2(5) = 23.65$, $p = 0.00025$, $n = 149$
**
***
**
prot073_A0A1D5V0T8 (intensity)
15,000
12,500
10,000
7,500
5,000
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**

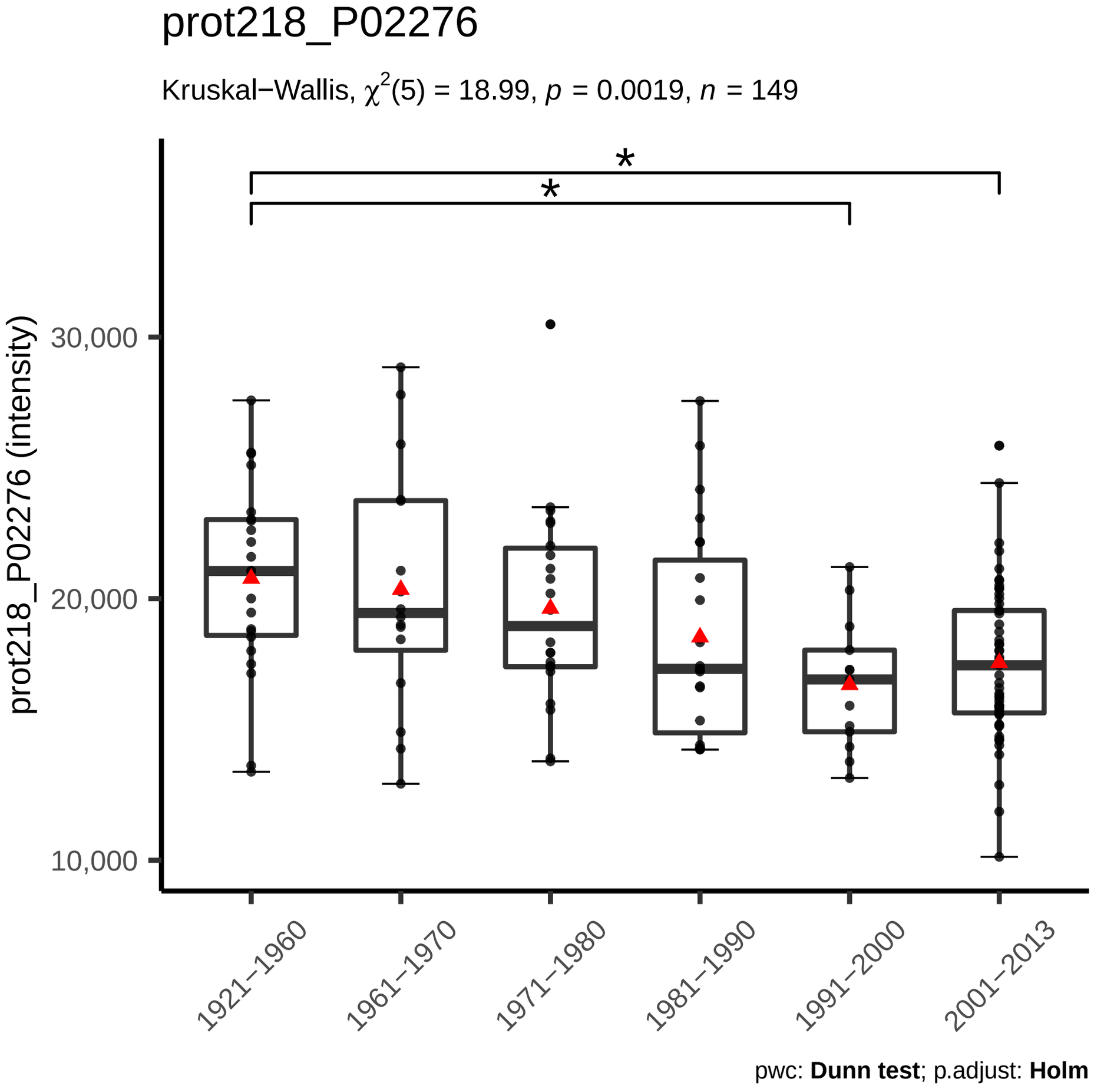

prot093_P30570
Kruskal−Wallis, $\chi^2(5) = 14.02$, $p = 0.015$, $n = 149$
*
prot093_P30570 (intensity)
5,000
4,000
3,000
2,000
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**

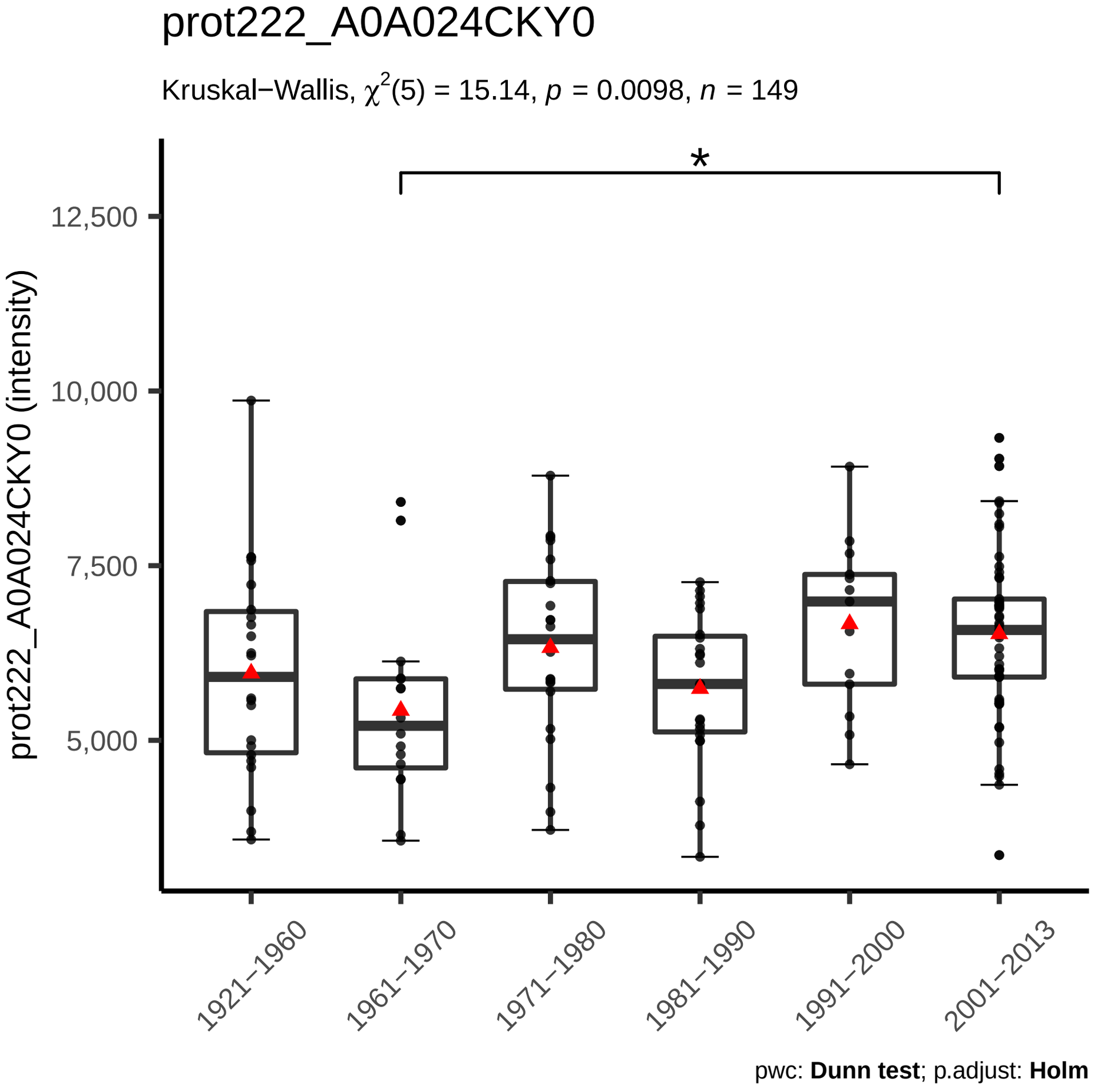

prot102_A0A3B6JQP1
Kruskal−Wallis, $\chi^2(5) = 20.13$, $p = 0.0012$, $n = 149$
*
**
prot102_A0A3B6JQP1 (intensity)
100,000
75,000
50,000
25,000
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**

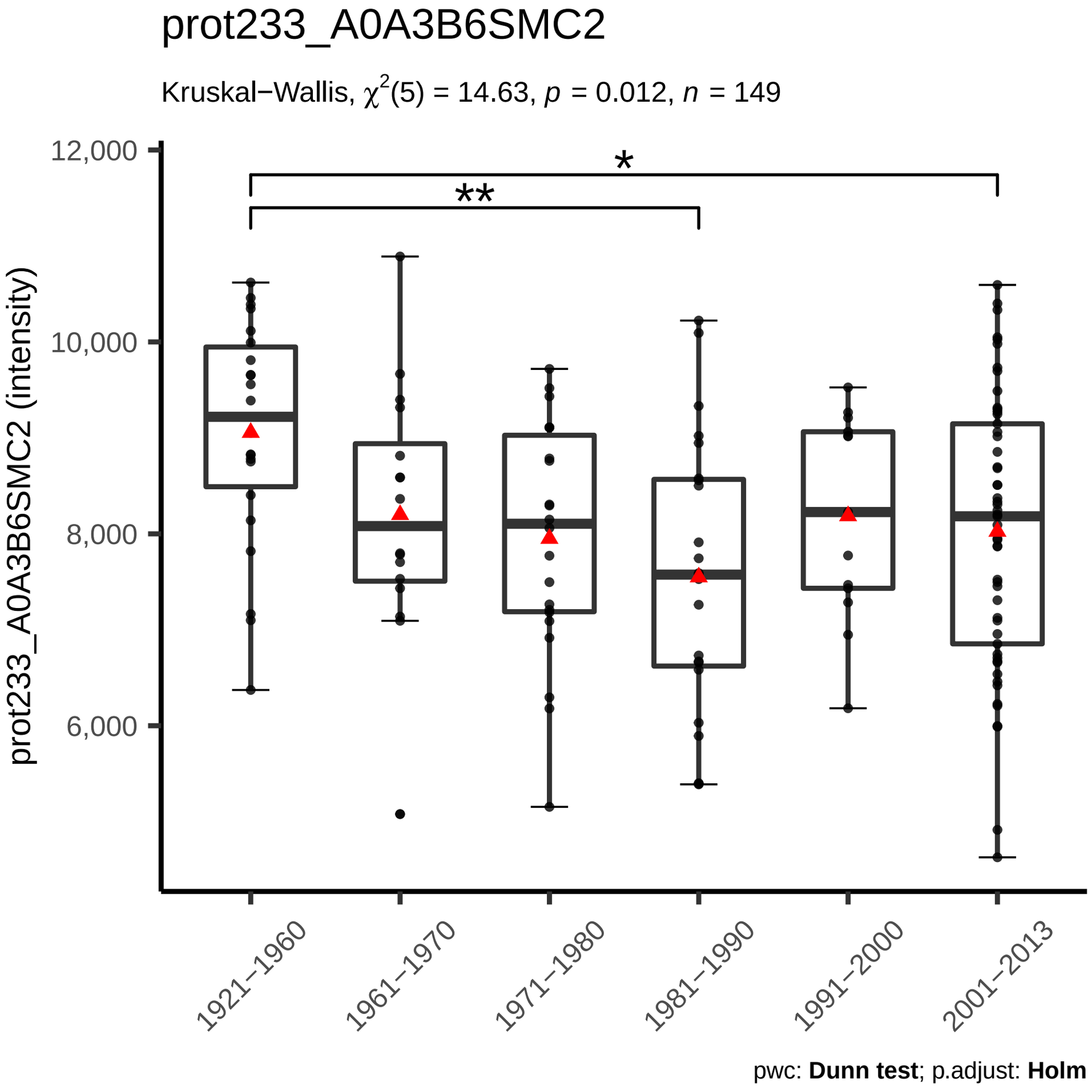

prot123_A0A3B6HSA4
Kruskal−Wallis, $\chi^2(5) = 23.5$, $p = 0.00027$, $n = 149$
prot123_A0A3B6HSA4 (intensity)
20,000
15,000
*
*
*
*
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**

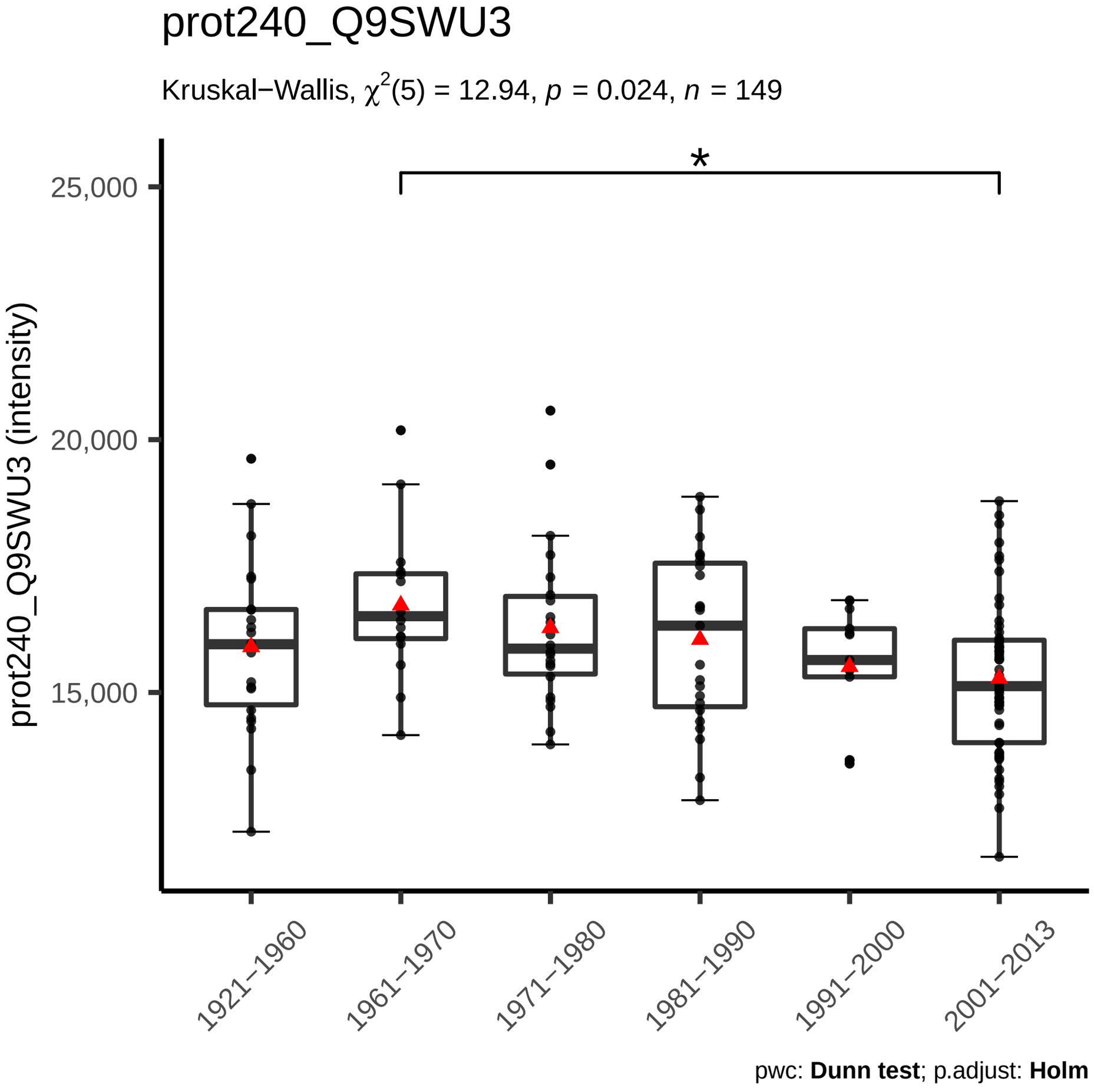

prot139_I1XB56
Kruskal−Wallis, $\chi^2(5) = 19.35$, $p = 0.0016$, $n = 149$
prot139_I1XB56 (intensity)
40,000
20,000
0
*
**
*
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**

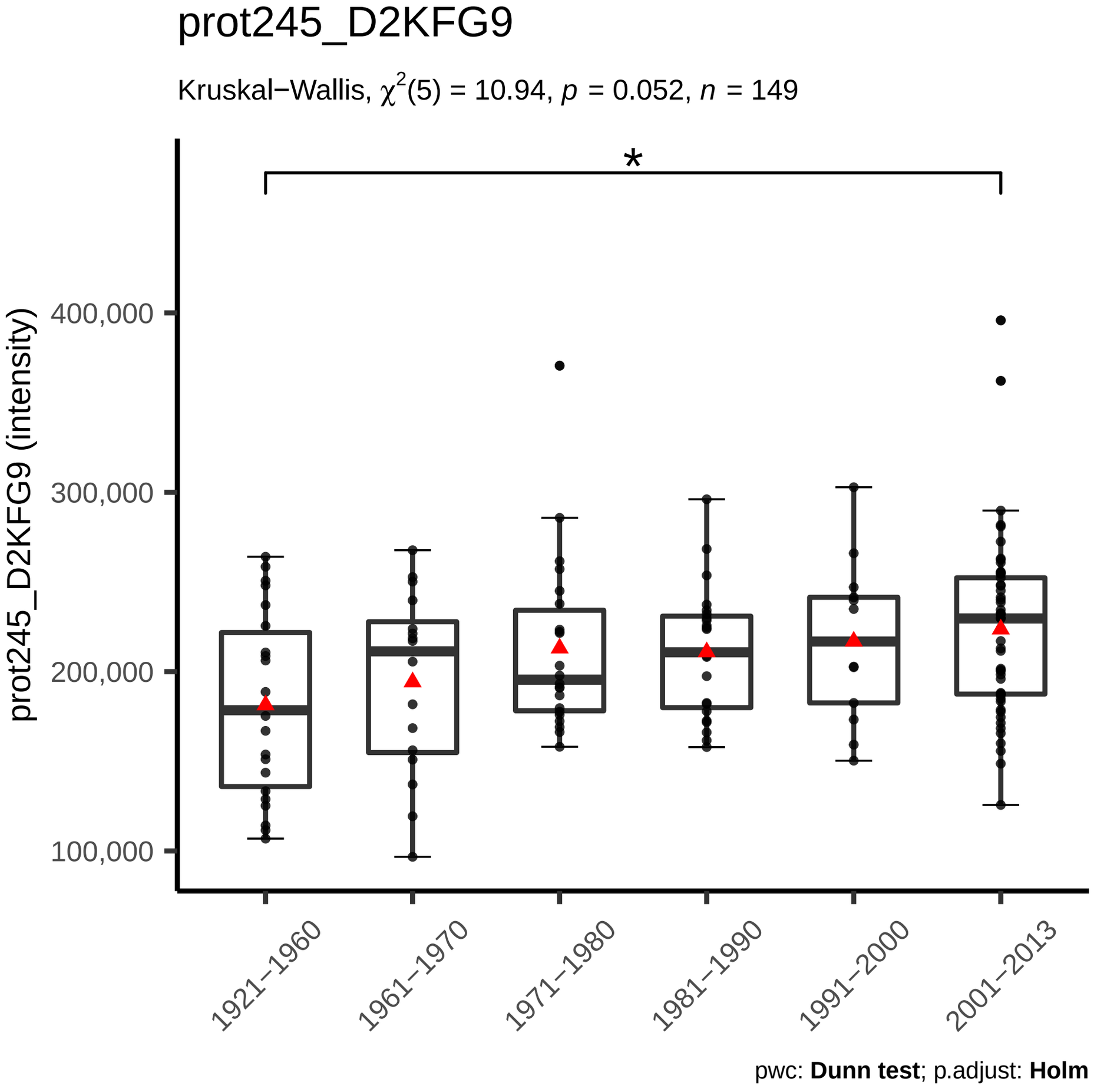

prot156_A0A3B6LUV8
Kruskal−Wallis, $\chi^2(5) = 13.78$, $p = 0.017$, $n = 149$
*
300,000
200,000
100,000
prot156_A0A3B6LUV8 (intensity)
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**

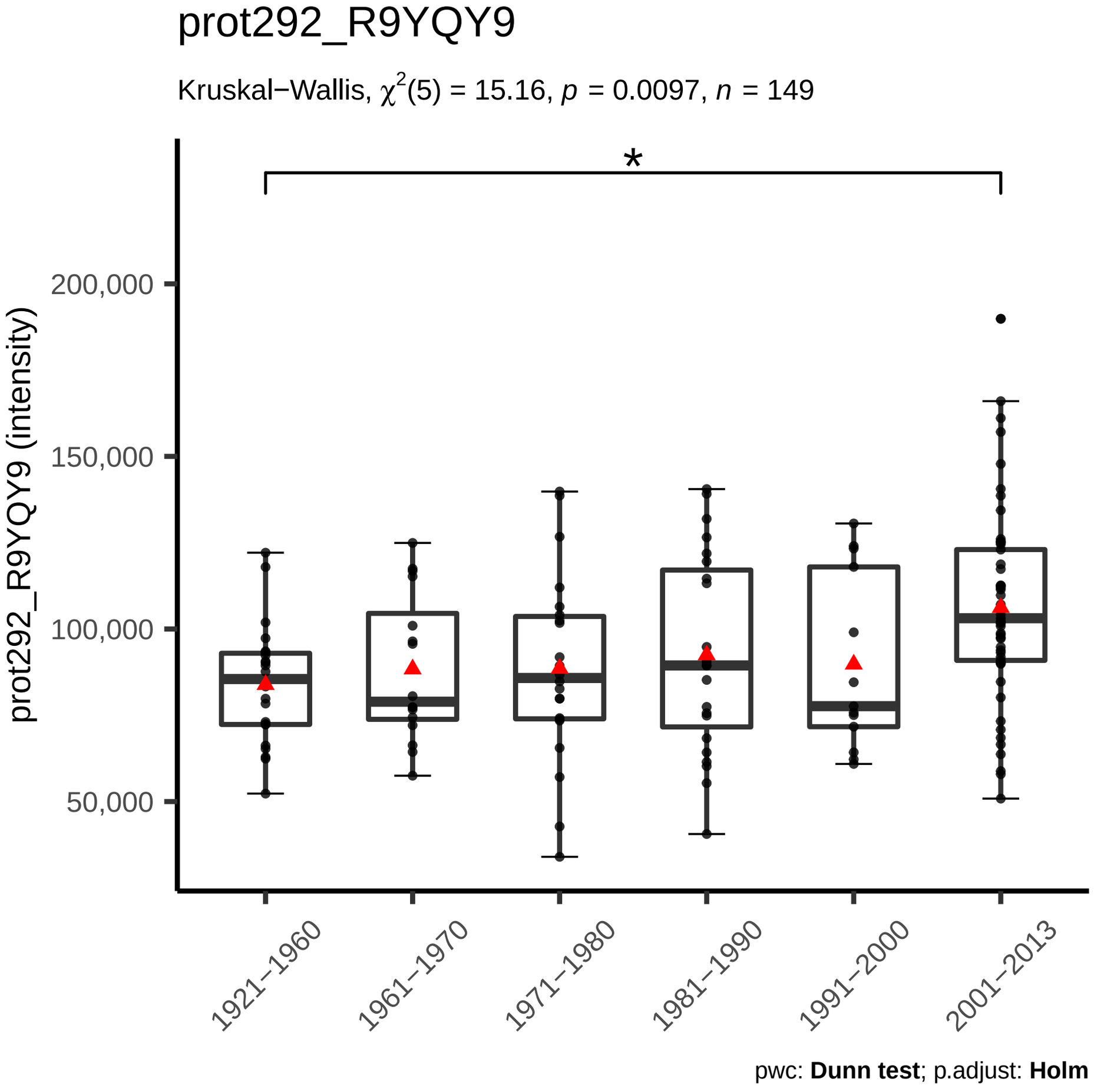

prot218_P02276
Kruskal−Wallis, $\chi^2(5) = 18.99$, $p = 0.0019$, $n = 149$
*
*
prot218_P02276 (intensity)
30,000
20,000
10,000
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**


prot222_A0A024CKY0
Kruskal−Wallis, $\chi^2(5) = 15.14$, $p = 0.0098$, $n = 149$
*
12,500
10,000
7,500
5,000
prot222_A0A024CKY0 (intensity)
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**


prot233_A0A3B6SMC2
Kruskal−Wallis, $\chi^2(5) = 14.63$, $p = 0.012$, $n = 149$
prot233_A0A3B6SMC2 (intensity)
12,000
10,000
8,000
6,000
*
**
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**


prot240_Q9SWU3
Kruskal−Wallis, $\chi^2(5) = 12.94$, $p = 0.024$, $n = 149$
*
25,000
20,000
15,000
prot240_Q9SWU3 (intensity)
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**


prot245_D2KFG9
Kruskal−Wallis, $\chi^2(5) = 10.94$, $p = 0.052$, $n = 149$
*
prot245_D2KFG9 (intensity)
400,000
300,000
200,000
100,000
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**


prot292_R9YQY9
Kruskal−Wallis, $\chi^2(5) = 15.16$, $p = 0.0097$, $n = 149$
*
prot292_R9YQY9 (intensity)
200,000
150,000
100,000
50,000
1921−1960
1961−1970
1971−1980
1981−1990
1991−2000
2001−2013
pwc: **Dunn test**; p.adjust: **Holm**