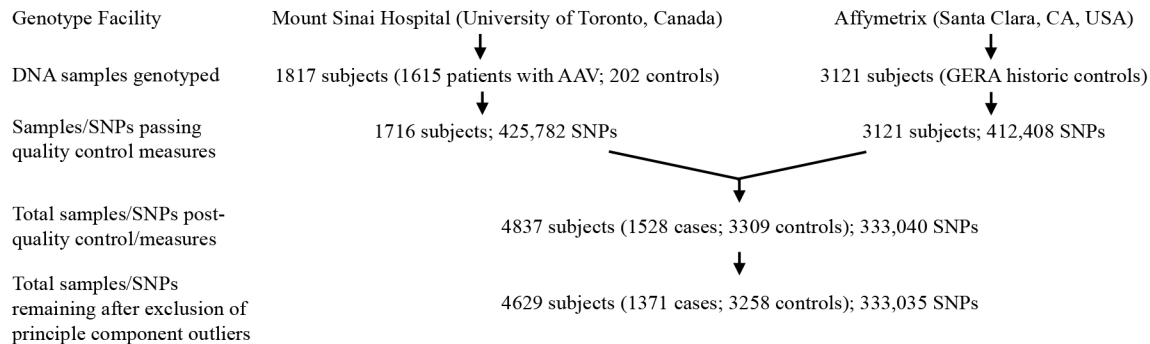


## A. Quality Control



## B. Study Design

### Genome-wide Association Screening

4629 subjects:

1371 patients with AAV

3258 controls

377 from WGGER

184 from WGGER

668 from VCRC

3074 GERA historic controls

326 from UNC Kidney Centre

### Independent replication

Genotyped 9 top-scoring SNPs in 7 gene regions identified in GWAS.

2080 subjects:

615 patients with AAV

1465 controls from Toronto

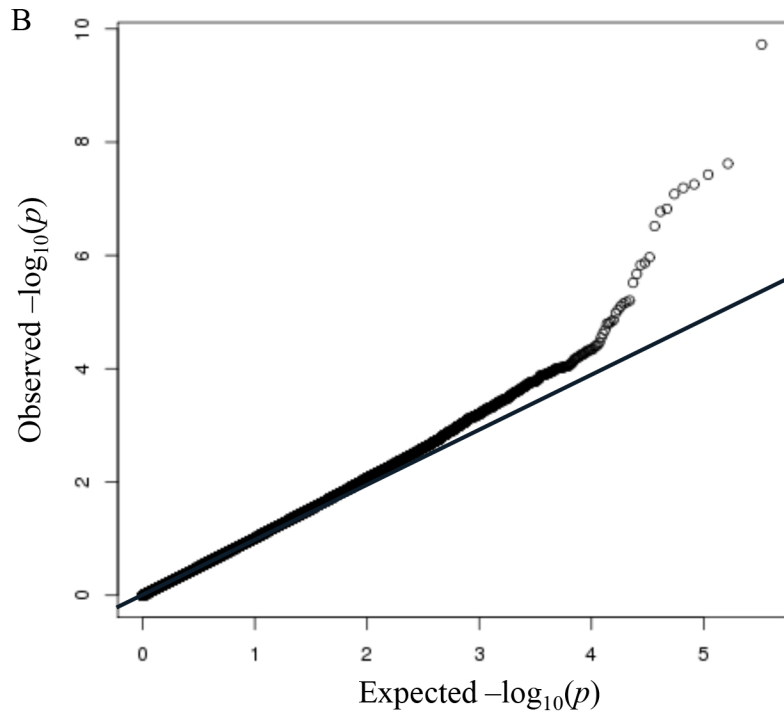
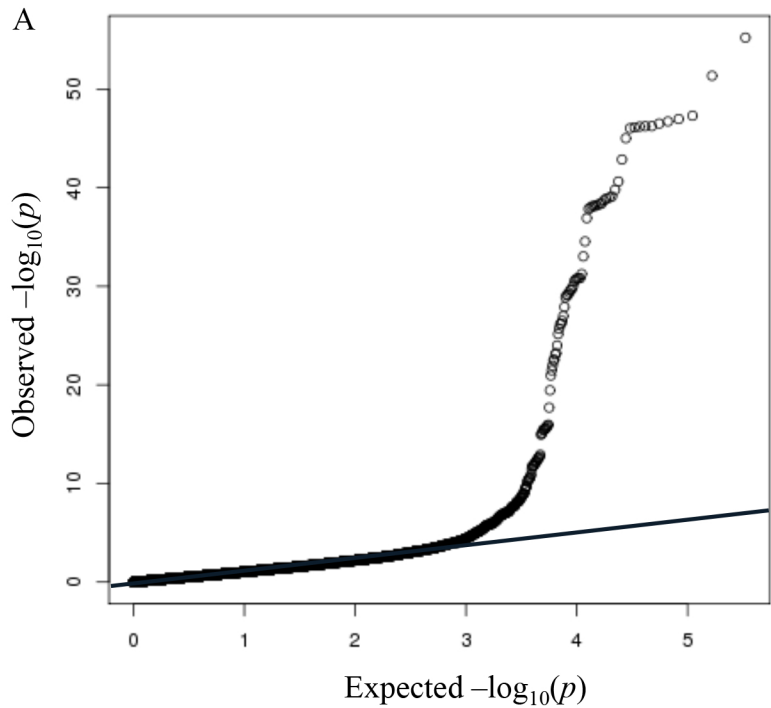
501 from Toronto

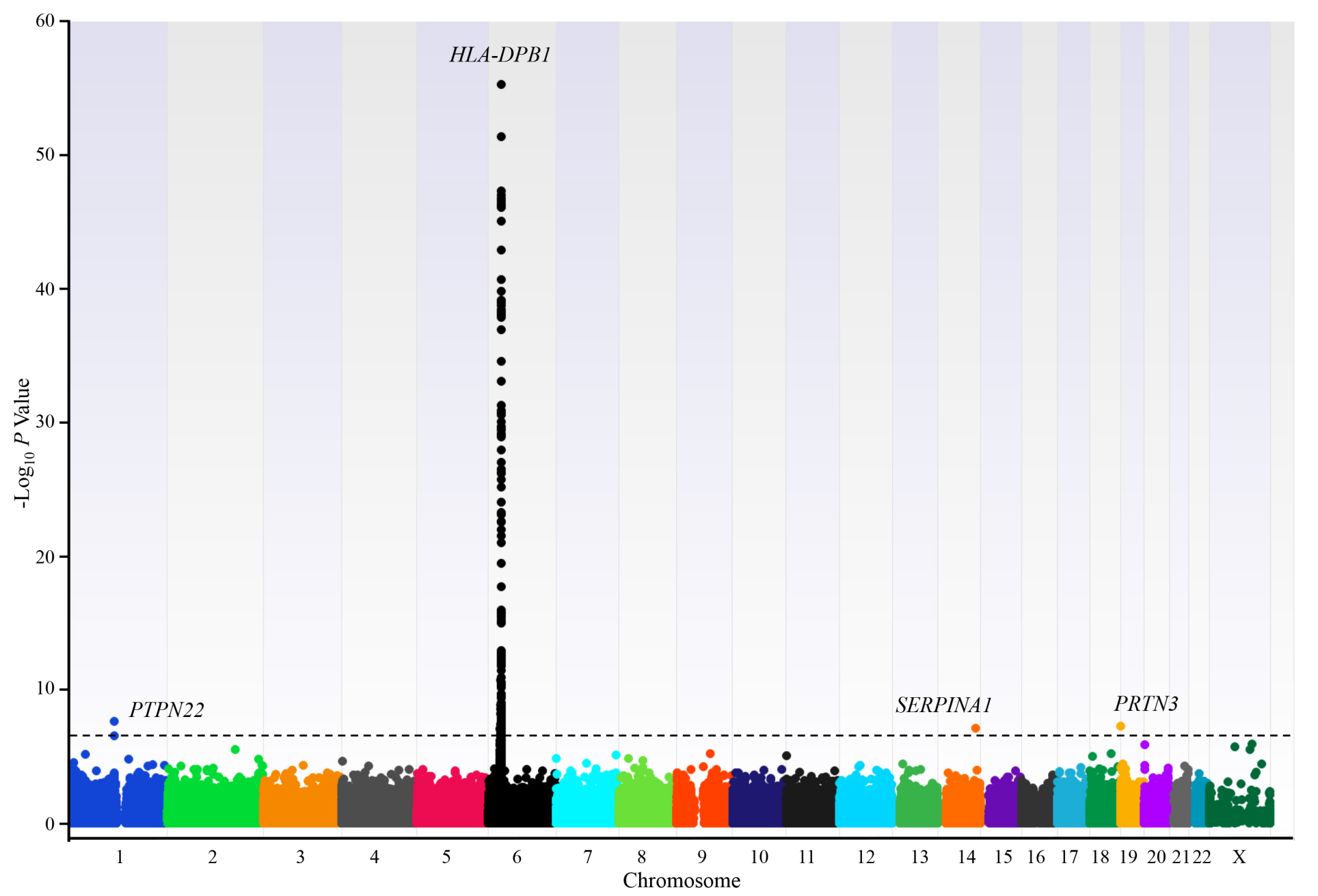
114 from VCRC

### Meta analysis of the combined GWAS and replication data sets

1986 patients with AAV (1371 + 615)

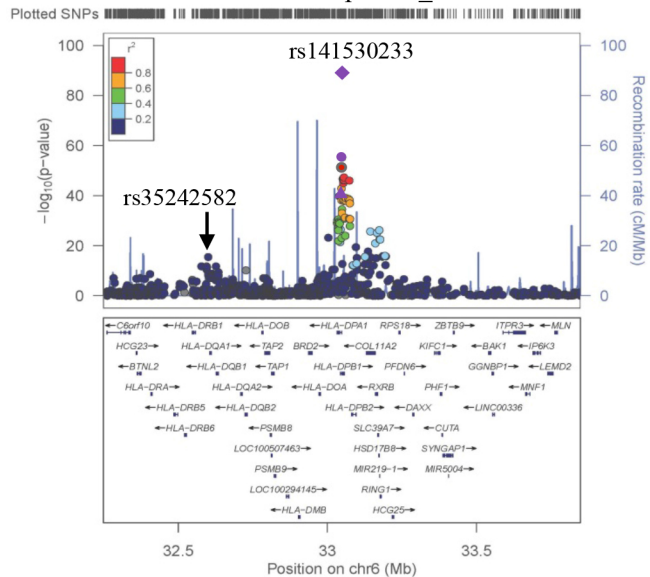
4723 controls (1649 from WGGER and Toronto; 3074 historic controls)





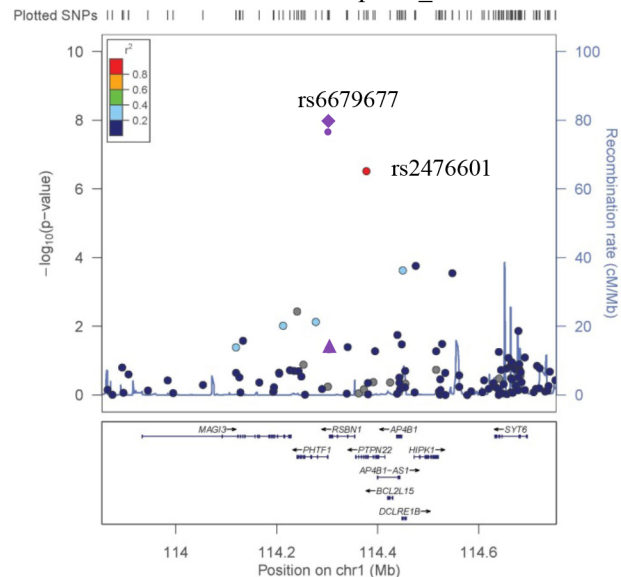
# HLA-DP and DQ regions

6p21.32\_rs141530233



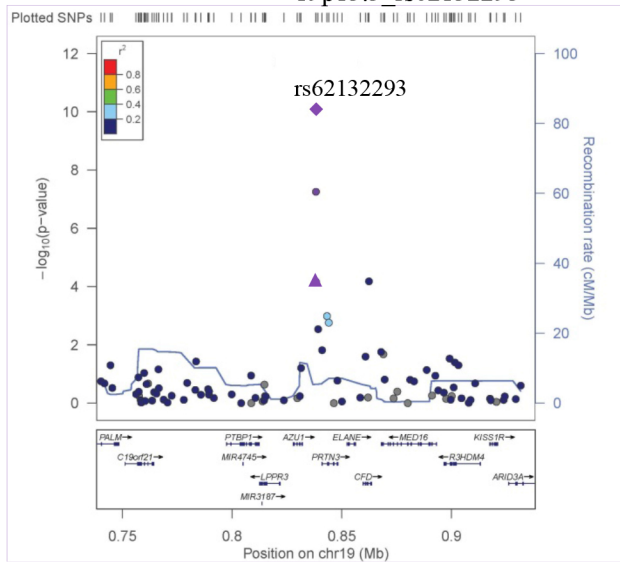
# PTPN22

1p13.2\_rs6679677



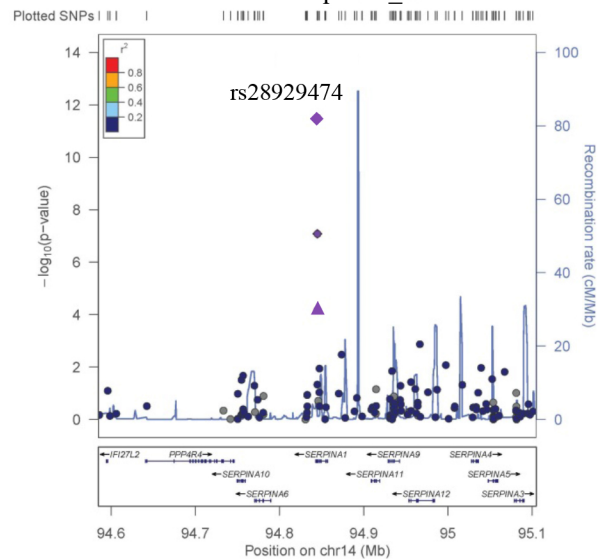
# PRTN3

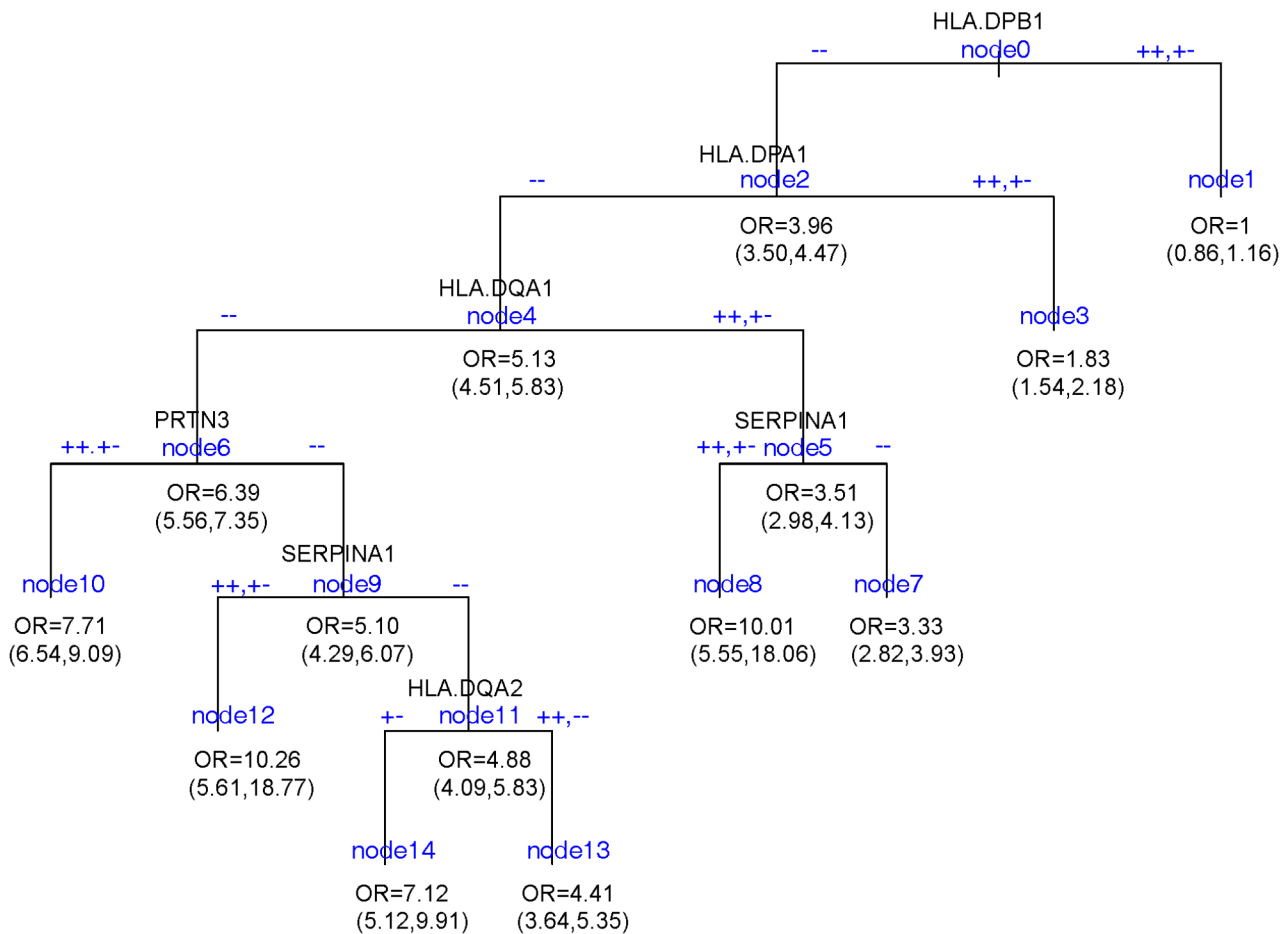
19p13.3\_rs62132293



# SERPINA1

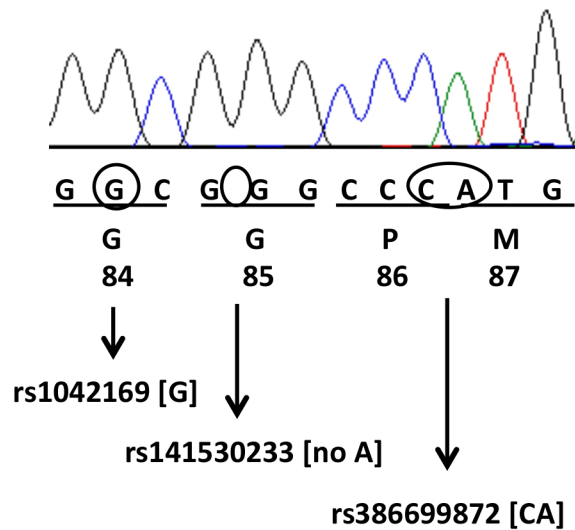
14q32.13\_rs28929474





Node	N. Cases	N. Controls
0	Parent Node	
1	416	2418
2	1570	2305
3	257	818
4	1313	1487
5	392	649
6	921	838
7	361	631
8	31	18
9	372	424
10	549	414
11	342	407
12	30	17
13	255	336
14	87	71

## Risk haplotype



## Protective haplotype

