

# **N/S/Z 'omes:**

SNVs associated with allele-specific expression

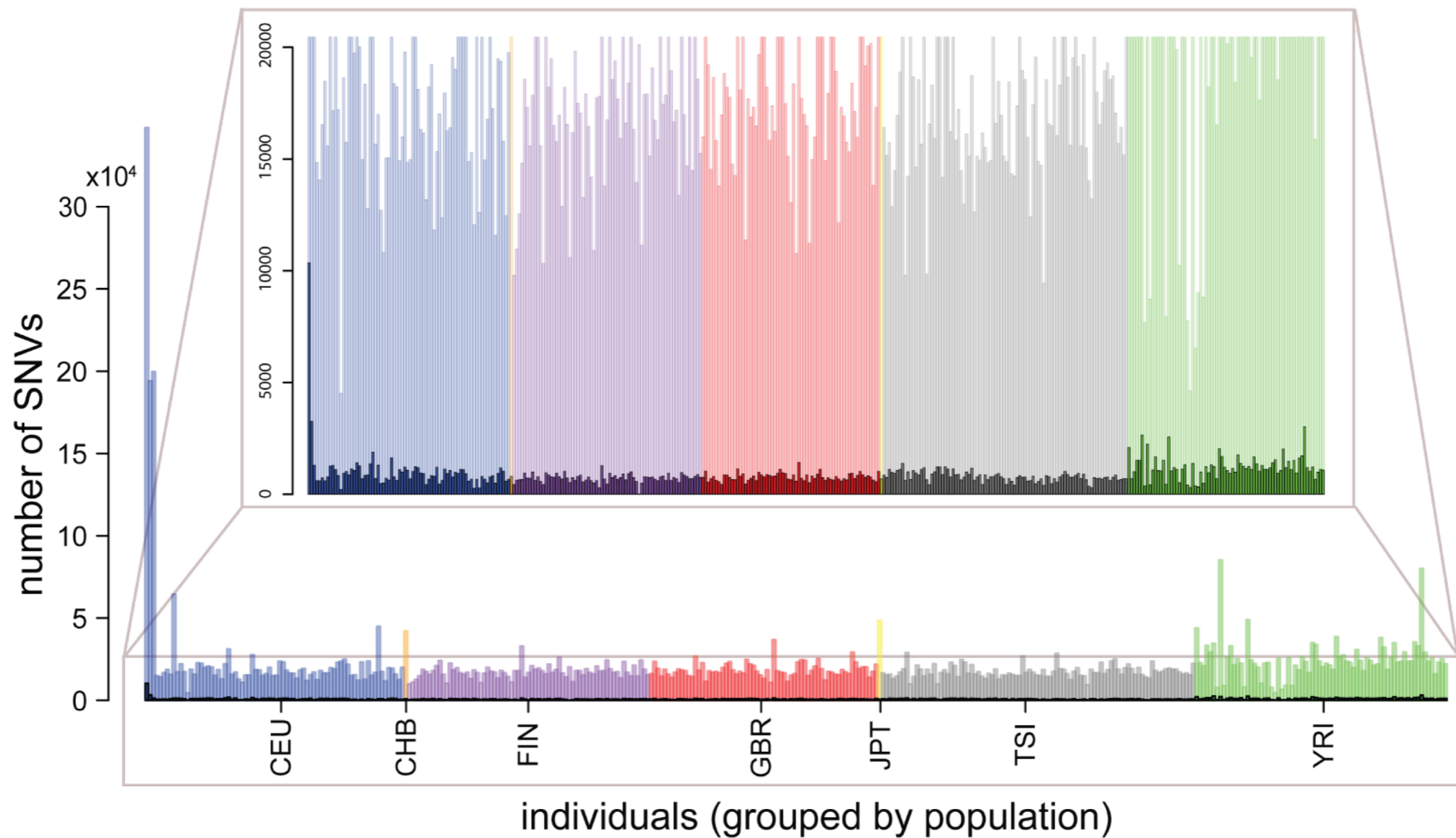
TG, JC, JR  
Feb. 17, 2016

# AlleleDB



alleledb.gersteinlab.org

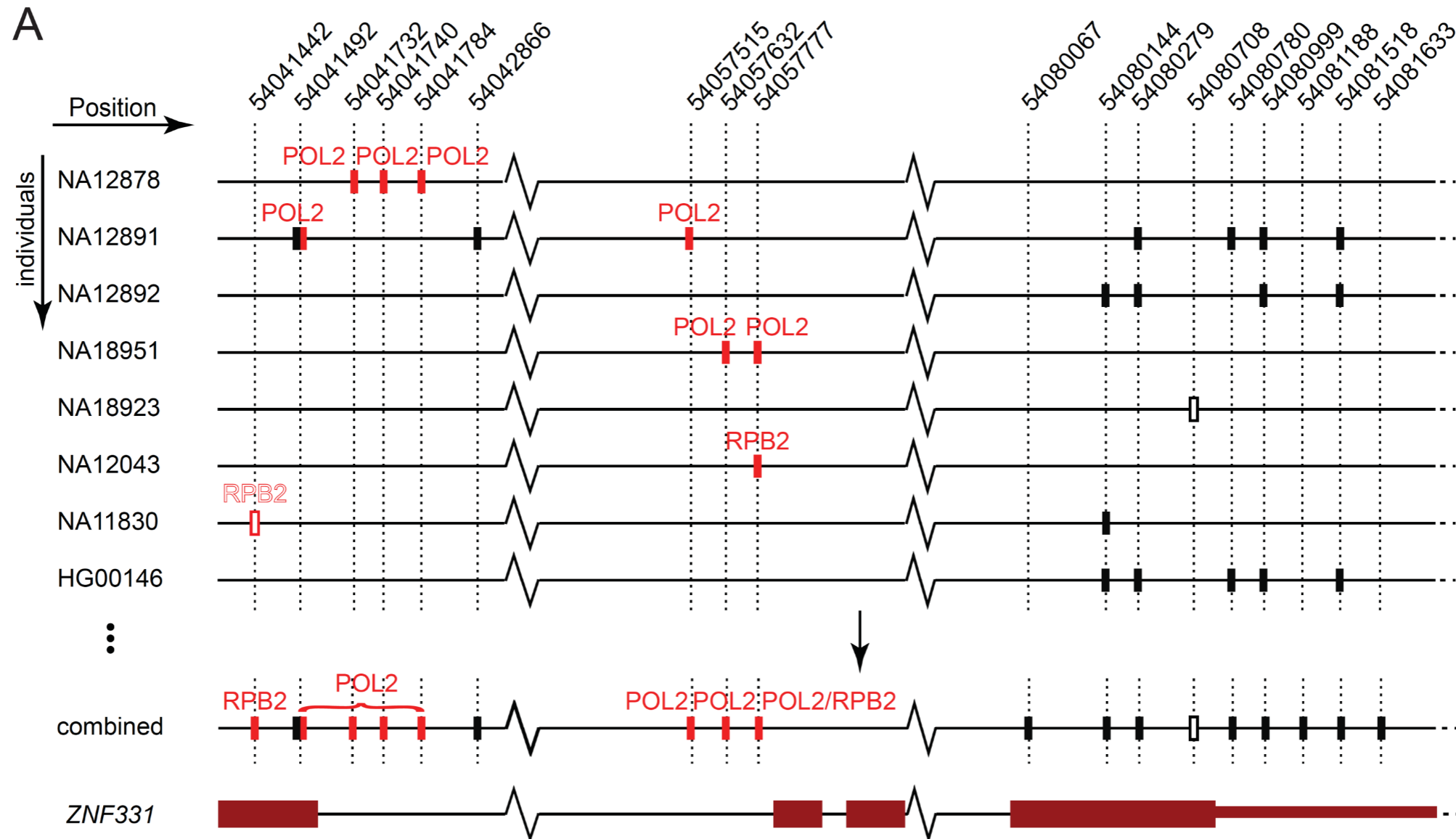
**632,126** ASE/nonASE-annotated SNVs across **383** individuals



# AlleleDB



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Legend: + -

	TF	TF
ASB	— —	— —
ASE	—+—	—-—

**342,500** ASE/nonASE-annotated SNVs across **380** individuals after removing the NA12878-NA12891-NA12892 trio

**40,078** (/3,595,421) *N*, **38,999** (/3,521,063) *S*, and **40,304** (/3,559,138) *Z* HetSNPs in AlleleDB

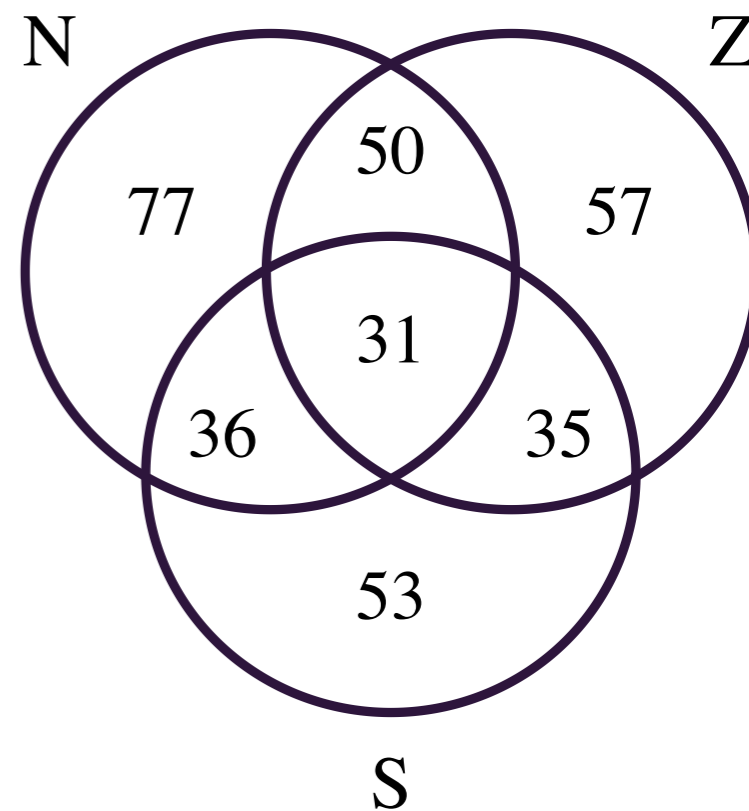
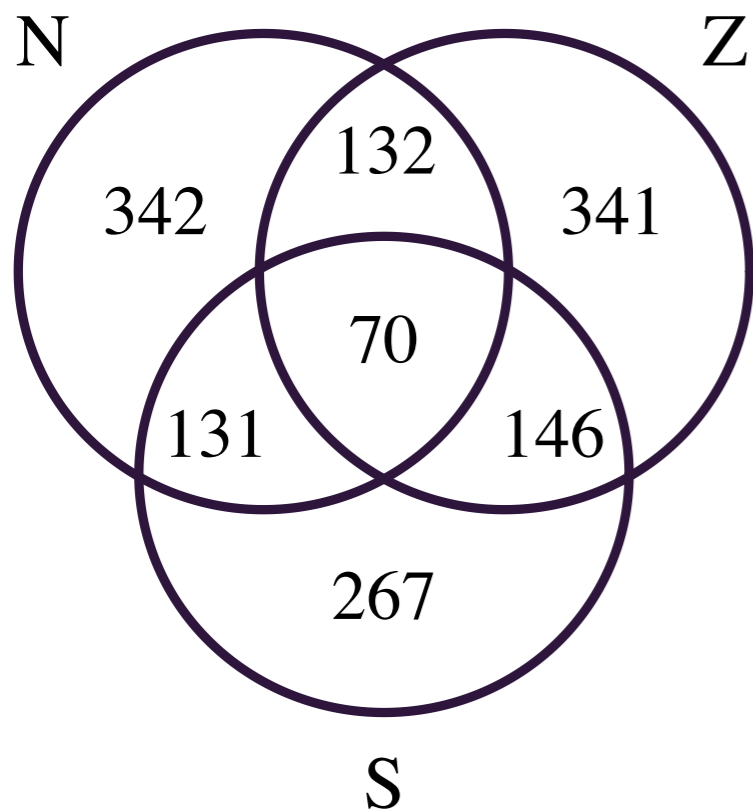
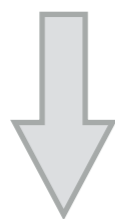
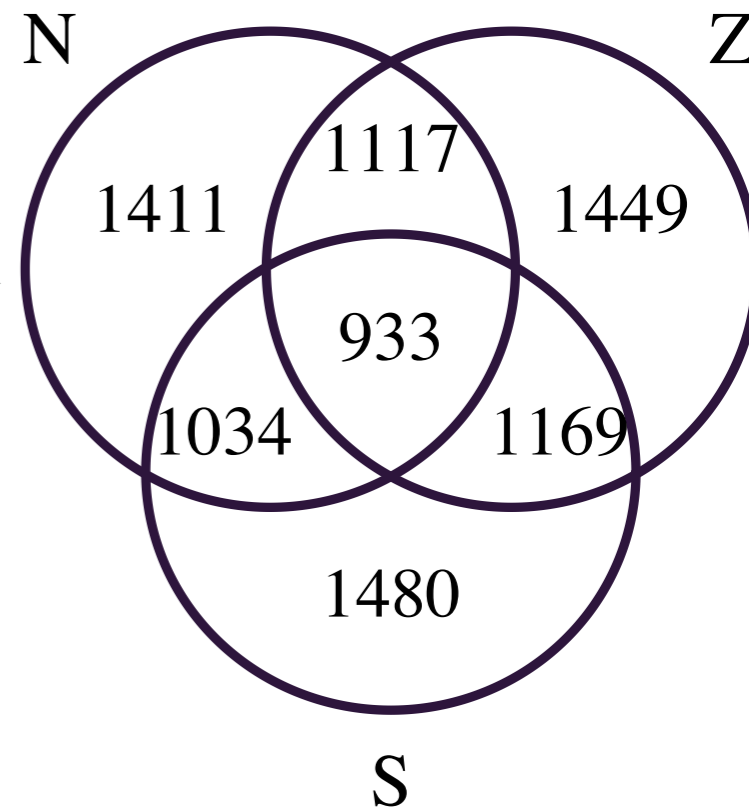
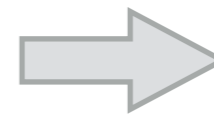
**Number of N/S/Z HetSNPs matching HetSNPs in AlleleDB individuals**

*columns:* total count of individuals with the HetSNP accessible,

*rows:* fraction of individuals in which the HetSNP is associated with ASE.

	1	2-4	5-19	20-99	100-380
[0.00, 0.05)	9956/9710/10149	7082/6835/6839	5566/5412/5624	7809/7819/8012	4495/4616/4668
[0.05, 0.25)	0/0/0	0/0/0	971/959/992	936/771/863	239/210/201
[0.25, 0.75)	0/0/0	602/554/613	356/324/376	306/259/300	82/68/72
[0.75, 0.95)	0/0/0	23/16/22	61/62/82	77/66/64	24/34/20
[0.95, 1.00]	675/614/689	245/221/250	133/119/126	246/175/169	194/155/173

	1	2-4	5-19	20-99	100-380
[0.00, 0.05]	9956/9710/10149	7082/6835/6839	5566/5412/5624	7809/7819/8012	4495/4616/4668
[0.05, 0.25]	0/0/0	0/0/0	971/959/992	936/771/863	239/210/201
[0.25, 0.75]	0/0/0	602/554/613	356/324/376	306/259/300	82/68/72
[0.75, 0.95]	0/0/0	23/16/22	61/62/82	77/66/64	24/34/20
[0.95, 1.00]	675/614/689	245/221/250	133/119/126	246/175/169	194/155/173



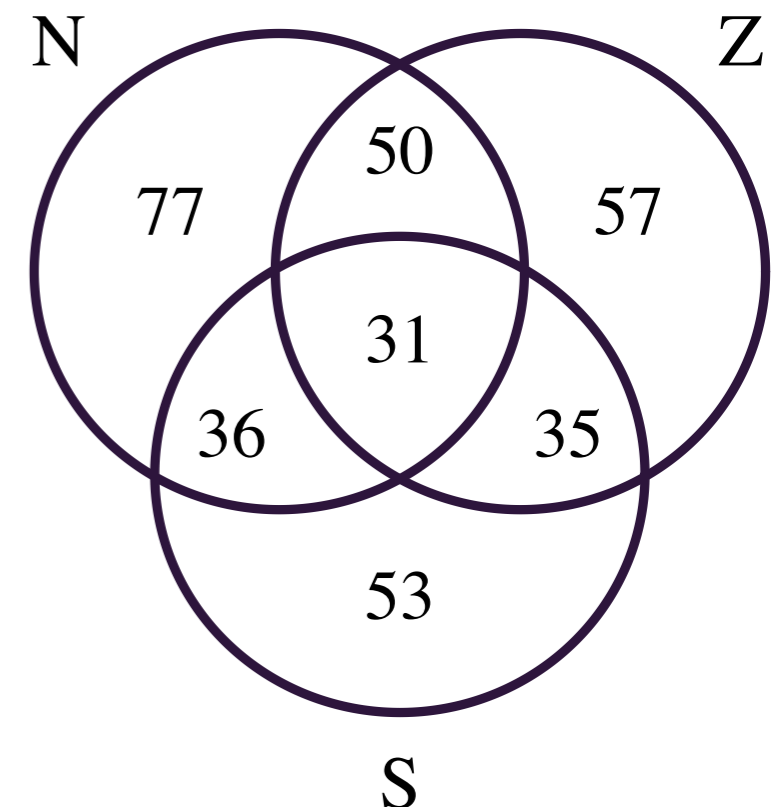
# Genes

**N only:** NEGR1, FAM73A, NRXN1, XPC, TRIM59, KCNMB3, ANK2, TBCA, HLA-DQB1, HLA-DPB1, FKBP1C, ASCC3, NPSR1, PEG10, OXR1, MGST1, PPHLN1, SPATA13, FAM189A1, LRRC28, SNX29, RP11-192H23.4, RHOT1, TSPEAR

**S only:** DCAF6, ROBO2, GSK3B, SELT, ANKH, C5orf17, CTD-2260A17.2, ERAP2, HLA-DRB5, COX6A1P2, MAP7, BAIAP2L1, LHFPL3, CPA6, DCAF10, RP11-613M10.9, PFKP, EIF3F, EIF2S3L, POC1B, ANKRD10, CATSPERB, FAM174B, ZNF286A

**Z only:** GIPC2, PPP1R12B, EDARADD, PRKRA, PTPRG, HLA-DRB1, HLA-DQB1, SLC35F1, NMBR, SYPL1, RP11-758M4.1, FSD1L, PDE3A, FNDC3A, C14orf39, AP4E1, ASIC2, ZNF90, SMMDT1

**N∩S∩Z:** PRKACB, FMO4, GRM7, RSRC1, THEGL, CPE, NEURL1B, HLA-DQB1, UBAP1, GUCY1A2, AKAP3, NDUFA9, SCN8A, EEA1, **SNRPN**, **SNURF**, C15orf41, CDH3, RP11-192H23.4



# Z 's personal diploid genome

