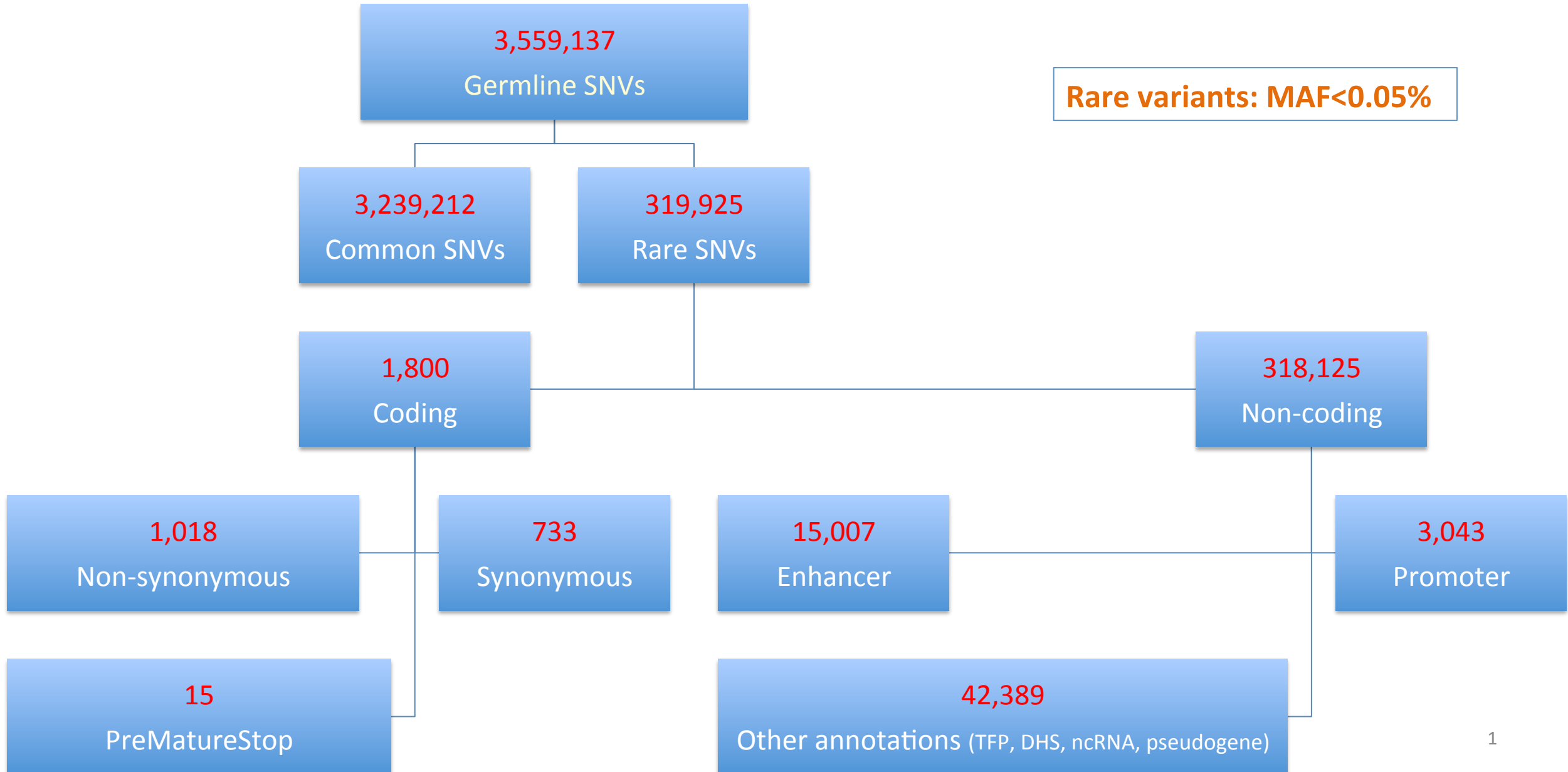
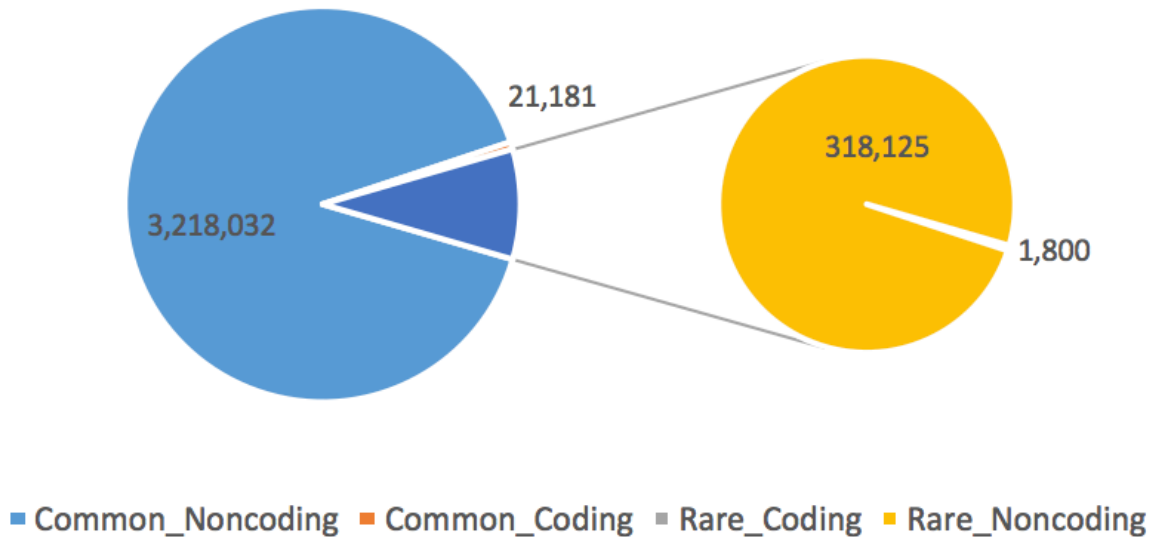


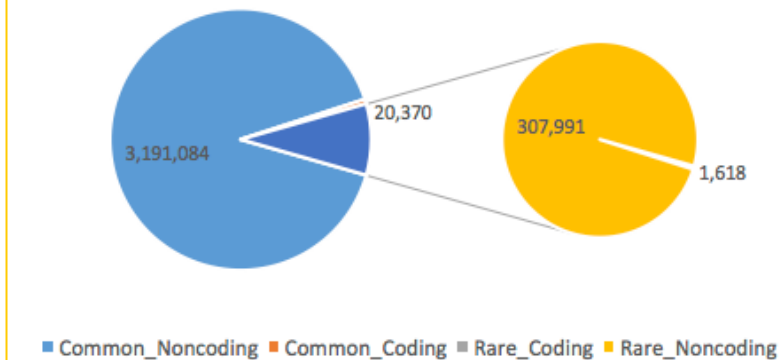
Individual Z Overview



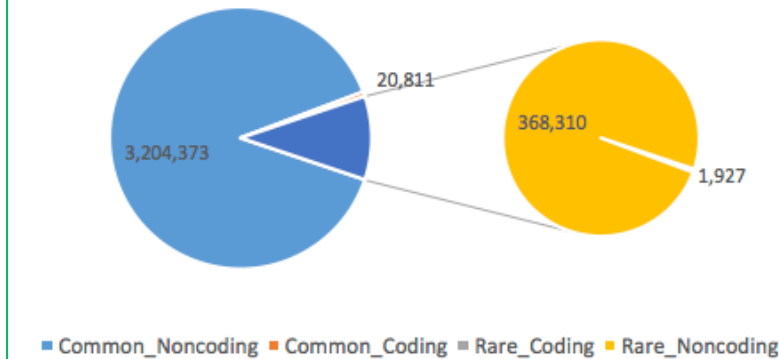
SNVs of Individual Z



SNVs of Individual S



SNVs of Individual NA



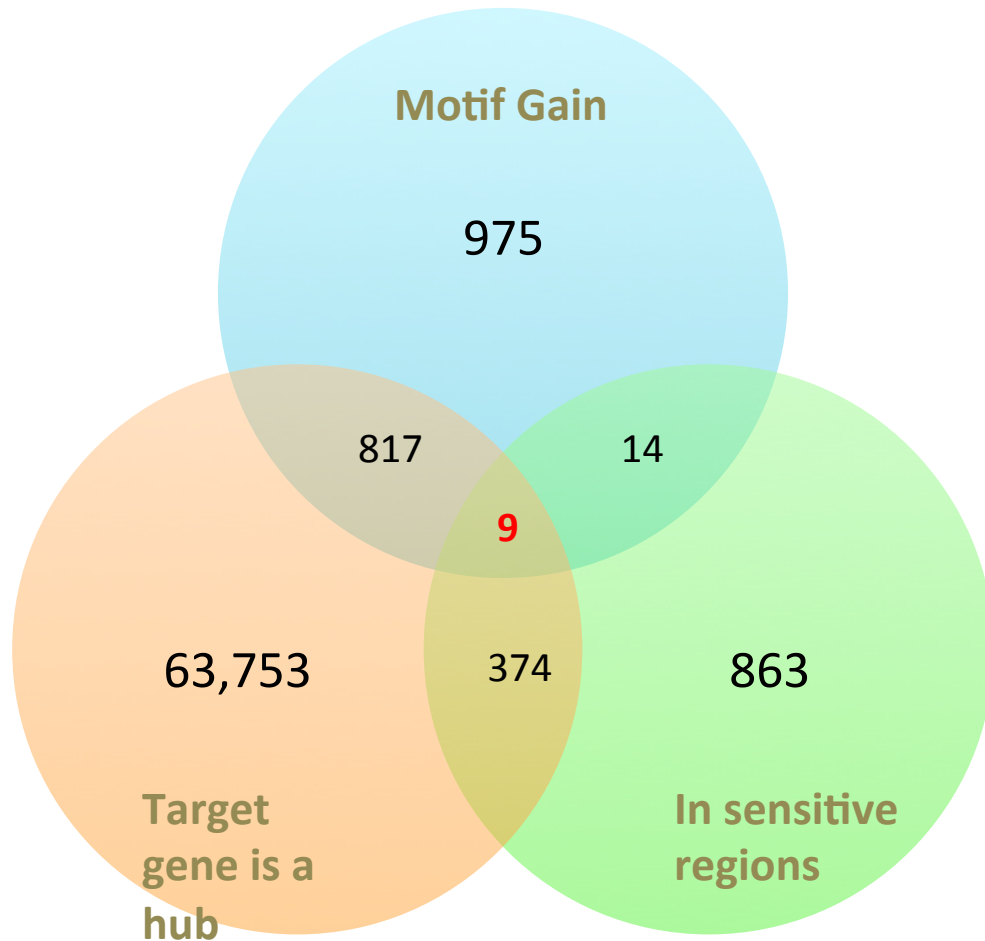
Annotations for rare noncoding variants

	Subject Z	Subject S	Subject N
Promoter	3,043	2,473	3,038
Enhancer	15,007	14,186	15,190
Other noncoding annotation*	42,389	40,048	44,510

* TFP, DHS, ncRNA, pseudogene

Annotation of Rare Noncoding Variants

- 9 variants -> **11** target genes



Gene Name	Variant Location	Function Annotation
RPL10	(Promoter&UTR)	[cancer]
PDE4DIP	(Distal&Intron)	[cancer]
ZNF595	(Intron&Promoter)	
GADD45G	(Promoter)	[DNA_repair]
CCND2	(Distal)	[actionable][cancer]
ACAP3	(Intron)	
VANGL2	(Promoter)	
SEC22B	(Distal)	
RNU1-9	(Distal)	
PARP11	(Distal)	
PUSL1	(Promoter)	

Subjects	Original SNPs	Overlap with 1714 Schizophrenia SNPs	Number of coding overlap SNPs (target gene)	Number of noncoding overlap SNPs
Z	3559138	828	7("CNPPD1" "DNAH1" "ITIH3" "GPR98" "GABBR2" "ADAMTSL3" "CENPM")	821
S	3521063	774	8("SLC39A8" "GPR98" "KDM4C" "DNAH1" "ITIH3" "ADAMTSL3" "DNAJA3" "GABBR2")	766
NA	3595421	793	6("KDM4C" "CNPPD1" "DNAH1" "ADAMTSL3" "DNAJA3" "GABBR2")	787

Subjects	Original SNPs	Overlap with 43 Bipolar disorder SNPs	Number of coding overlap SNPs (target gene)	Number of noncoding overlap SNPs
Z	3559138	15	1 ("SYNE1")	14
S	3521063	15	1("SYNE1")	14
NA	3595421	11	1("SYNE1")	10