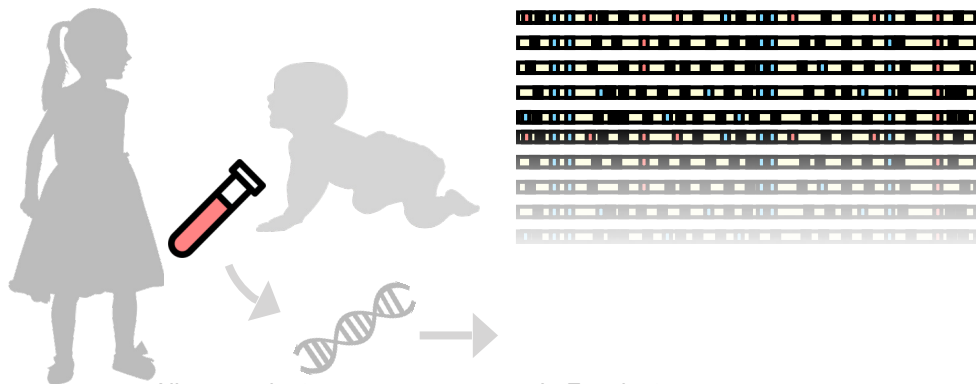
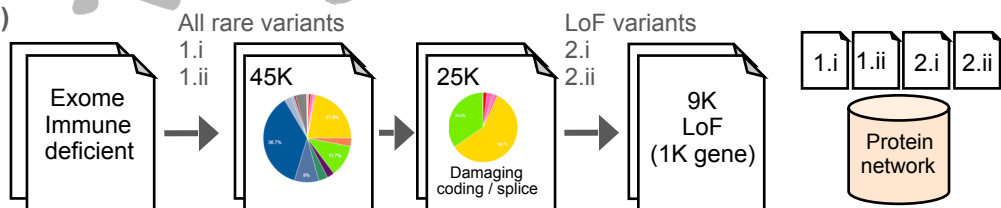


(A)



(B)



(E)

Nets.ratio  $\leftarrow$  (consequence tally)

Source	net n	ratio	ratio2
Case	5 36	0.39	0.78
Control	5 5	0.11	0.22
Case	2 37	0.42	0.76
Control	2 6	0.13	0.24
Case	4 20	0.24	0.52
Control	4 18	0.22	0.48

LoF vs.  
all rare variant

Case vs.  
Control

Source	net ratio2	P-val	rank	(i/m)Q
Case	5 0.78	0.023	1	0.025
Control	5 0.22	-	-	-
Case	2 0.76	0.12	2	0.05
Control	2 0.24	-	-	-
...	4 ...	0.13	3	0.07

Enrichment  
threshold =  $m$

$i$  = rank P-value  
 $m$  = number of test  
 $Q$  = FDR

Benjamini-Hochberg; significance for largest P-value that is less than the critical value  $P < (i/m)Q$

(F)

Test for all  $m < 0.8$

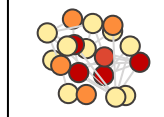
Net 1 0.26	Net 2 0.12	Net 3 0.16
Net 4 0.13	Net 5 0.023	Net 6 0.24
Net 7 0.25	Net 8 0.32	Net 9 ( $m > 0.8$ )

(G)

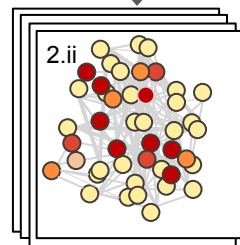
Extract significantly  
enriched networks

Net  
5

2.i Net 5

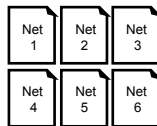
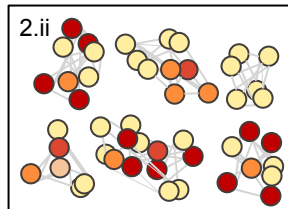


(C)



(D)

MCL inflate



Networks  
 $\leftarrow$   
list [1:30]