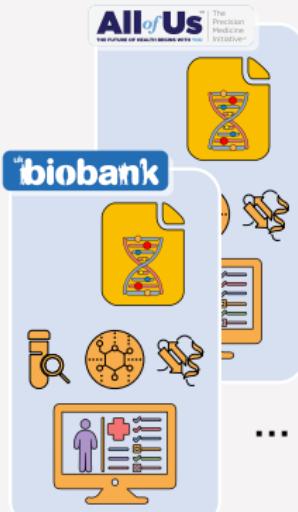


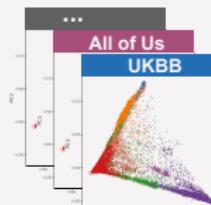
Input



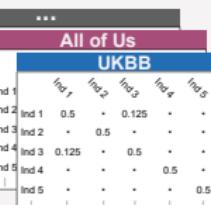
Data Preparation



Annotation of Choice



Ancestry PCs

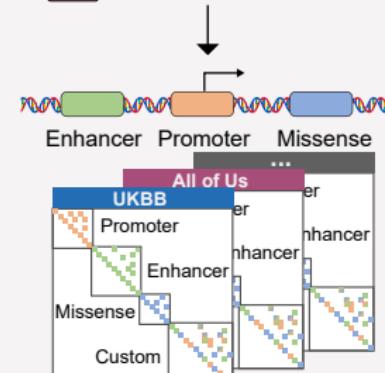


Sparse GRM

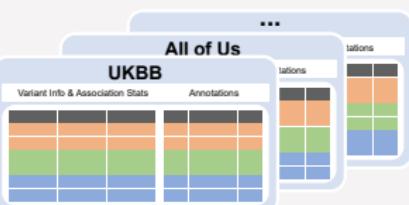
Summary Statistics Generation



MetaSTAARlite



Sparse LD Matrices



Variant-Level Summary Statistics

Meta-Analysis

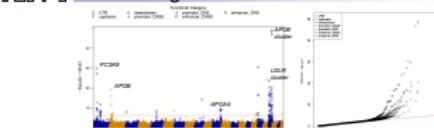


MetaSTAARlite

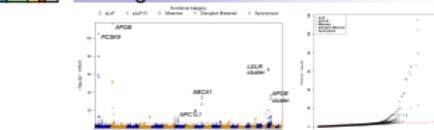
Functional-Informed Meta-Analysis

Gene	Mask	$P_{\text{MetaSTAAR-O}}$
Gene 1	Enhancer	2.46E-18
Gene 1	Promoter	3.87E-17
Gene 1	Missense	5.24E-02
...
Gene m	Custom	1.02E-09

Noncoding



Coding



Analytical Follow-up

Significant Variant Sets, Conditional Analysis

Gene	Mask	$P_{\text{MetaSTAAR-O}}$
Gene 1	Enhancer	7.86E-09
Gene 1	Promoter	4.56E-08
...
Gene m	Custom	6.86E-08

Annotation(s) Driving the Associations

Gene	Mask	Annotation	P
Gene 1	Enhancer	MAF	8.02E-07
Gene 1	Enhancer	aPC-Epi	6.03E-10
...
Gene 1	Enhancer	LINSIGHT	7.23E-09
...

Variants Upweighted by These Annotations

