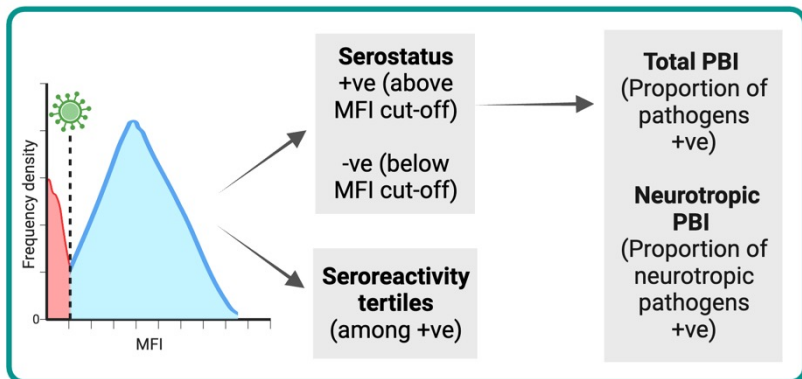


Antigen seroreactivity values for 17 pathogens in three population-based studies: MRC NSHD, SABRE, and UKB



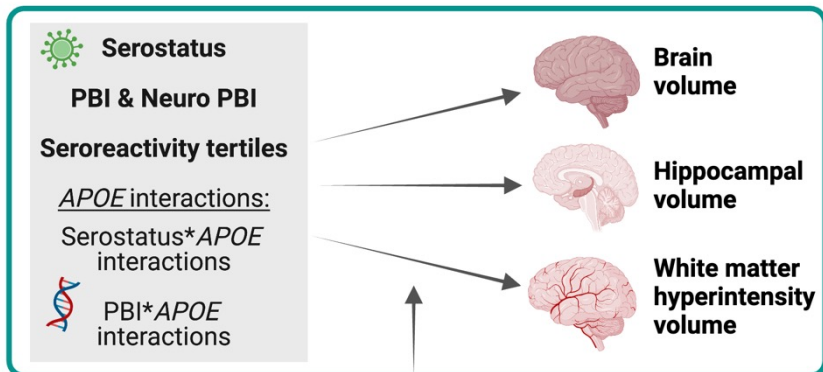
- Herpesviruses
- Human Papillomaviruses
- Human Polyomaviruses
- Bacteria/Protozoa

Step 1: Derive serology measures.



Step 2: Per-study analyses.

Test associations of serology measures with imaging outcomes, as well as interactions by *APOE* e2 and e4 genotype.



Model 1: Technical covariates (including total intracranial volume)

Model 2: Model 1 + age + sex (+ ethnicity for SABRE & UKB)

Model 3: Model 2 + alcohol intake + educational attainment + socioeconomic position + BMI + smoking

APOE interactions: Models 1-3 + 10 genetic principal components.

Step 3: Meta-analyse findings using random-effects models.
(Main analyses total N=2632; *APOE* interactions total N=1810).