



Supplementary Figure 1

Study design and quantile-quantile plots for the discovery meta-analysis

(a) Study flowchart summarizing the discovery cohorts (stage 1) and the replication cohorts (stage 2) with final numbers of individuals after phenotype and genotype quality control analyses; **(b)** QQ-plot for the genome-wide discovery meta-analysis (N=1,195) of serum Gd-IgA1 levels without adjustment for serum total IgA levels and **(c)** after adjustment for serum total IgA levels. All signals with $P < 5 \times 10^{-4}$ (horizontal line) from both analyses were prioritized for follow-up in replication cohorts (stage 2). Lambda: genomic inflation factor.