

Supplementary material

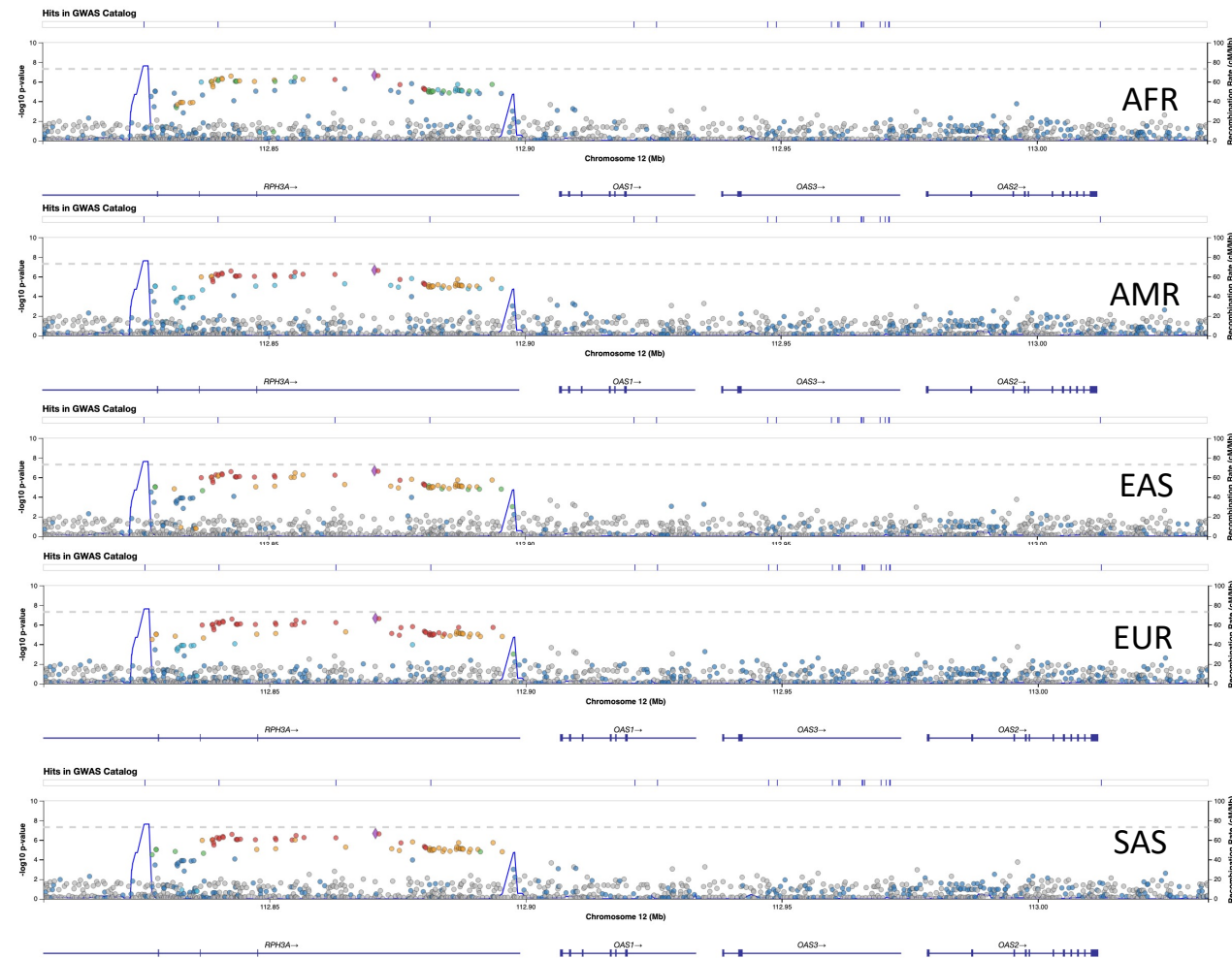
Plasma metabolomic signatures for copy number variants and COVID-19 risk loci in Northern Finland Populations

Tisham De^{1,2,3}, Lachlan Coin^{3,4}, Jethro Herberg³, Michael R Johnson⁵, Marjo-Riitta Järvelin^{6,7,8,9,10}

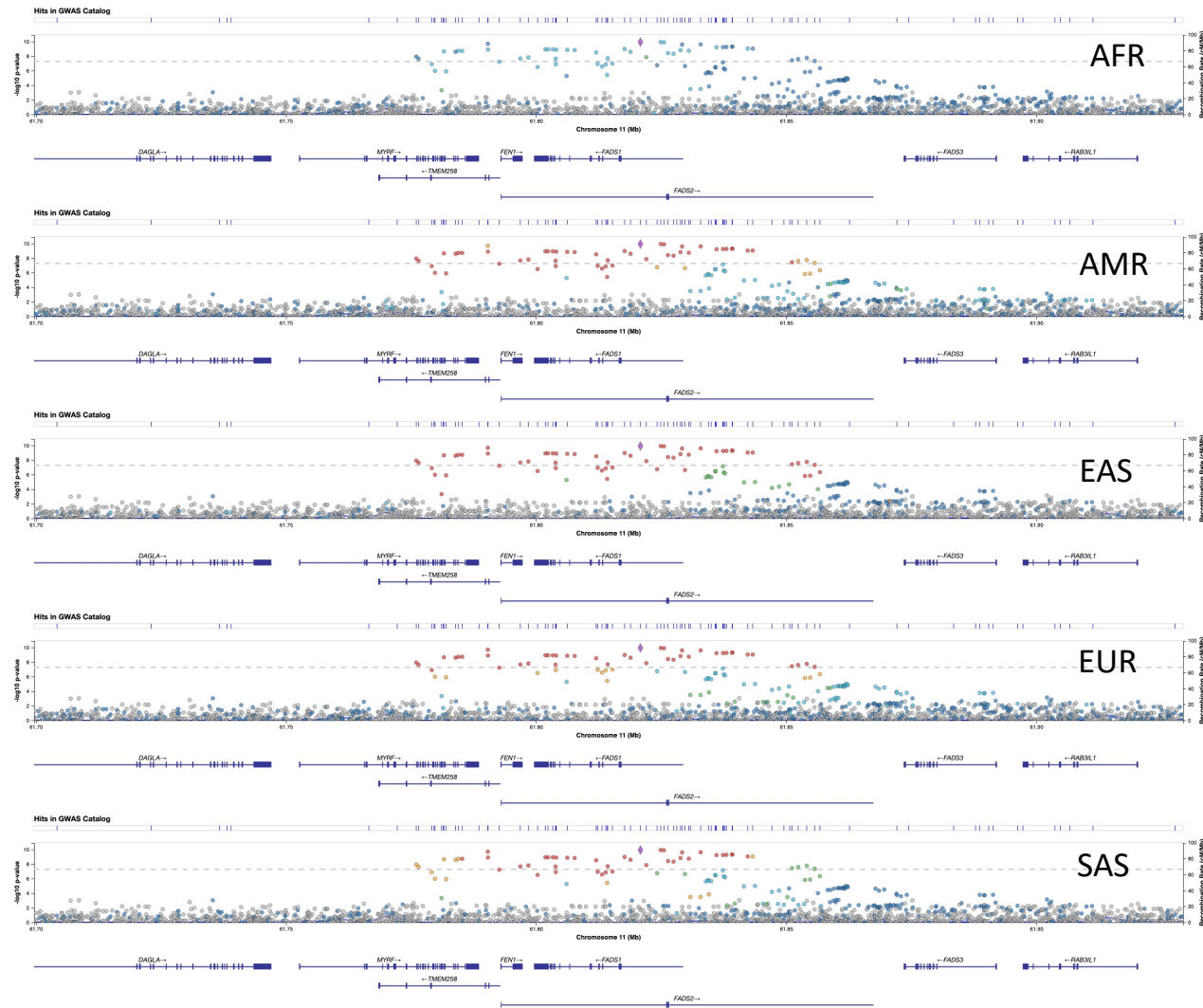
- 1. Department of Epidemiology and Biostatistics, School of Public Health, Imperial College, London, UK**
- 2. Department of Genomics of Common Diseases, Imperial College London, UK**
- 3. Department of Infectious Disease, Imperial College London, UK**
- 4. Department of Microbiology and Immunology, University of Melbourne at The Peter Doherty, Institute for Infection and Immunity, Melbourne, Australia**
- 5. Department of Brain Sciences, Imperial College London, UK**
- 6. Centre for Life Course Health Research, Faculty of Medicine, University of Oulu, Oulu, Finland**
- 7. Unit of Primary Health Care and Medical Research Center, Oulu University Hospital, Oulu, Finland**
- 8. Department of Epidemiology and Biostatistics, Medical Research Council–Public Health England**
- 9. Centre for Environment and Health, Imperial College London, London, UK**
- 10. Biocenter Oulu, University of Oulu, Oulu, Finland**

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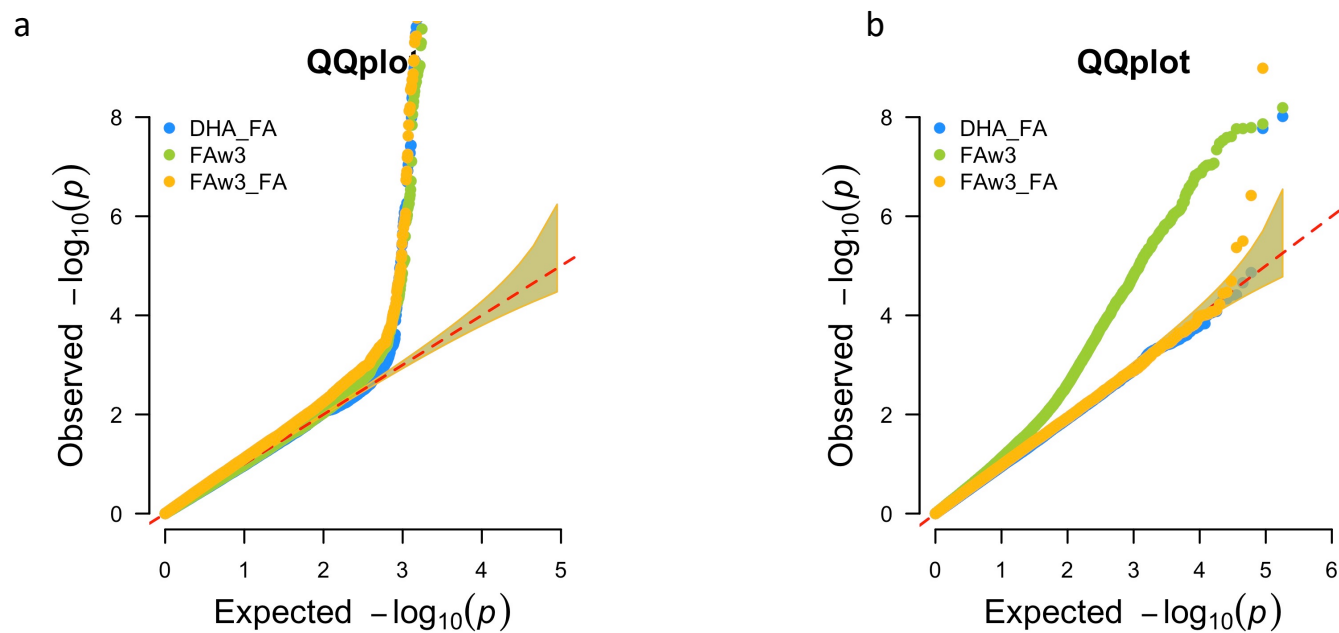
- 1) Supplementary figures**
- 2) Supplementary table legends**
- 3) Data sources and urls**



Supplementary figure 1. LD in OAS1. Linkage disequilibrium plot stratified by ancestry for OAS1 gene cluster in Topmed Phewas database for UK biobank (url <https://pheweb.org/UKB-TOPMed/>).



Supplementary figure 2. LD in FADS1/FADS2. Linkage disequilibrium plot stratified by ancestry for FADS1/FADS2 gene cluster in Topmed Phewas database.



Supplementary figure 3. Inflation factors. Genomic inflation factors for the top three metabolites associated with CNVs in a) NFBC 1986 b) NFBC 1966

Supplementary table legends

Supplementary table 1. Descriptions of the tables in the multi omic MySQL database for metabolomic signatures

Supplementary table 2. Annotations for the NFBC metabolomic lipid names and categories

Supplementary table 3. CNV genotype association results and inflation factors

Supplementary table 4. Annotations for UK biobank COVID-19 GWAS study names

Supplementary table 5. Genome wide signature comparison of OAS1, LZTFL1, ACSL1 and NFIX

Supplementary table 6. COVID-19 gene descriptions and hallmarks

Data sources and urls

1. COVID 19 GWAS results from GRASP database: (Ref [https://www.cell.com/hgg-advances/fulltext/S2666-2477\(22\)00011-2](https://www.cell.com/hgg-advances/fulltext/S2666-2477(22)00011-2))
<https://grasp.nhlbi.nih.gov/Covid19GWASResults.aspx>
2. Gene cards: <https://www.genecards.org/>
3. NFBC cohort details: <https://www.oulu.fi/en/university/faculties-and-units/faculty-medicine/northern-finland-birth-cohorts-and-arctic-biobank/northern-finland-birth-cohorts>
4. Nightingale metabolomics platform: <https://nightingalehealth.com/technology>