Summary statistics of GWAS meta-analyses of FH and FHR-4 levels

Laura Lorés-Motta, Valentina Cipriani, January 20th 2020

The data repository consists of four files of summary statistics from the two-cohort (Cambridge and EUGENDA) GWAS meta-analyses of FH and FHR-4 levels:

1. **METAANALYSIS_FH_ALL-adjAMD.txt**
   Summary statistics of the two-cohort GWAS meta-analysis on ln(FH) levels including late AMD patients and controls. The single-cohort GWASs were performed using linear regression models adjusted for sex, age, batch effects, the first two genetic principal components and AMD status.

2. **METAANALYSIS_FH_controls.txt**
   Summary statistics of the two-cohort GWAS meta-analysis on ln(FH) levels including only controls. The single-cohort GWASs were performed using linear regression models adjusted for sex, age, batch effects and the first two genetic principal components.

3. **METAANALYSIS_FHR4_ALL-adjAMD.txt**
   Summary statistics of the two-cohort GWAS meta-analysis on ln(FHR4) levels including late AMD patients and controls. The single-cohort GWASs were performed using linear regression models adjusted for sex, age, batch effects, the first two genetic principal components and AMD status.

4. **METAANALYSIS_FHR4_controls.txt**

   Summary statistics of the two-cohort GWAS meta-analysis on ln(FHR4) levels including only controls. The single-cohort GWASs were performed using linear regression models adjusted for sex, age, batch effects and the first two genetic principal components.

The single-cohort GWASs were carried out using EPACTS software available at http://genome.sph.umich.edu/wiki/EPACTS; effect size estimates and standard errors of single variants seen in both cohorts were subsequently combined in a fixed-effect meta-analysis using METAL software available at http://csg.sph.umich.edu/abecasis/metal/download/.

Reference:

Valentina Cipriani, Laura Lorés-Motta, Fan He, Dina Fathalla, Viranga Tilakaratna, Selina McHarg, Nadhim Bayatti, Ilhan E. Acar, Carel B. Hoyng, Sascha Fauser, Anthony T. Moore, John R.W. Yates, Eiko K. de Jong, B. Paul Morgan, Anneke I. den Hollander, Paul N. Bishop, Simon J. Clark. **"*Increased circulating levels of Factor H-Related Protein 4 are strongly associated with age-related macular degeneration*"**, *Nat Commun*, 2020