**Minutes from AFGen call on April 27, 2016**

**Attending:**

|  |  |
| --- | --- |
| **AGES** |  |
| **AFNET/KORA** |  |
| **ARIC** | Alvaro |
| **CHS** | Susan, Nona |
| **WGHS** | Dan, Christina |
| **FHS** | Emelia, Honghuang, FHS |
| **Gutenberg** |  |
| **HABC** |  |
| **Ship** |  |
| **Cleveland Clinic** |  |
| **WHI** |  |
| **Luric** |  |
| **Malmo** |  |
| **MESA** | Henry |
| **Rotterdam** |  |
| **MGH** | Ingrid, Steve, Carolina, Patrick |
| **Prevend** |  |
| **Prosper** |  |
| **Vanderbilt** | Ben |
| **Korean AF network** |  |
| **Generation Scotland** |  |
| **Beat-AF** | Sebastien |
| **BioMe** |  |
| **ULSAM/Epihealth/ Pivus/Twingene** |  |
| **FINCAVAS** |  |
| **Heinz Nixdorf** |  |
| **DDCHS** |  |
| **Sao Paulo** |  |
| **Munich WTCC stroke** |  |
| **Metastroke** |  |
| **Geisinger** |  |
| **UCL** |  |
| **Mayo** |  |
| **PR interval** |  |
| **Estonia Biobank** | Tonu Esku |

**Agenda**

**New business**

* Copenhagen City Studies Introduction – Christina
  + 3 studies;
    - Copenhagen City Heart Study: 1970’s-1990’s
    - General population studies:
      * 2000-2010 – 100,000 individuals
      * 2010-2013 – 20,000 individuals
    - Genetic data available, but uncertain which genotyping chip
    - PIs: Børge Nordestgaard, Stig Bojesen, Christina Ellervik
    - Christina will compile a table summarizing phenotypes and genotyping chip available for each study
* MR clinical risk factors for AF – Steve
  + Waiting for completion of 1000G results
* MR alcohol and AF - Dan
  + The Copenhagen City Heart Study recently published a paper on MR for alcohol and AF (”Alcohol consumption and risk of atrial fibrillation: Observational and genetic estimates of association.” PMID: 27071860); very similar to the project proposed in AFGen. Jorge, Christine, and Dan are currently evaluating whether there are additional analyses to be done on the topic.
* MR thyroid free T4 level and AF – Christina/Christine
  + Studies that have shown interest in participating: MDCS, LURIC, MESA, Prevend, WGHS, ARIC, and Copenhagen City studies
  + FHS, CHS, GENAF also interested
  + **Still hoping to add new studies!**
  + **Please contact Christina Ellervik (**[**ellervik@gmail.com**](mailto:ellervik@gmail.com)**) for questions or participation**

**Old business**

* AF WGS initial analysis - Honghuang/Steve
  + Working on how to approach analysis of non-coding regions and conserve power; currently exploring functional annotations within associated AF loci
  + Have now annotated all variants in TOPMed for analyses
  + Expecting freeze 3 soon, probably not the final freeze, but may contain all individuals in our project
  + Honghuang working on QC steps
  + Will present more QC data when we have more results – hopefully within 4-6 weeks
* 1000G AF meta / Exome chip - Ingrid/Kathy/Carolina
  + Working on conditional analysis and manuscript
* Broad AF project - Steve/Patrick
  + Analyses underway
* PWI GWAS – Ingrid/Patrick/Jared
  + Rejected by EHJ – submitting to PLOS Genetics
  + Accepted for ”Best poster presentation” at ESC in Rome, August 2016
* AF genetic prediction paper - Steve
  + Submitted

**Next call:** May 11, 2016