

Minutes of the meeting of the collaborative on adult ADHD genetics, New York, 10-10-2007

Present: Steve Faraone, Jan Haavik, Bru Cormand, Monica Bayes, Marta Ribases, Phil Asherson, Barbara Franke (minutes)

- ✓ Phil Asherson from the IoP in London wishes to be part of the group, although he has not yet samples available. The group agrees with his participation.
- ✓ Timeline for replication of GWAS is February 2008. With all GWAS initiatives in children currently going on, we will then be able to make a better choice in which genes/SNP to select.
- ✓ We will probably need about 500 ng of DNA (Picogreen-verified) for 96 SNPs. Every group has this material available without performing a whole genome amplification.
- ✓ We will build a database containing phenotypic information and demographics on the samples. Barbara will send around a proposal for the database. As exclusion criteria we will only state mental retardation and a non-Caucasian ethnicity.
- ✓ For the controls, we will exclude individuals with ADHD and match according to gender.
- ✓ The source of DNA for the material from Spain is blood, for Norway this is Oragene (saliva), for the Netherlands it is partly blood and partly Oragene. We will need to add the source of DNA to the database, as well as the 'age' of the material since isolation.
- ✓ For the replication of the GWAS we need to choose a genotyping firm. We could use Prevention Genetics, but current experiences are less positive than earlier ones. There might also be possibilities in Norway (Massarray) and Spain (Illumina/Massarray). We will get quotes from all of them (plus information regarding timing and possibilities/pricing of DNA-banking) and decide on the basis of this information.
- ✓ Apart from the GWAS replication we will also use our group for smaller (replication) projects, that can be initiated by everyone of the group. For this we will use a short form that is send in to the steering committee and is decided by this group. When agreed, the different partners will send the required amount of DNA to the partner having put in the request, for analysis at his/her centre. This partner/centre will be the PI of this particular project.
- ✓ For the GWAS replication, the Dutch group (Barbara) will be the PI. Data will be analysed in Nijmegen, possibly in parallel by (one of) the other groups.
- ✓ Spain has performed a genomic control analysis (with 48 SNPs in SNPlex assay) to ensure that their cases and controls are from the same population. We have to talk to statisticians to see if this is also necessary for the samples from the other groups. Given the relative homogeneity of the Norwegian and the Dutch populations, we might not need to do this. It is likely that there will be differences between the samples from the different countries, but this can be taken into account in the statistical analysis.
- ✓ As soon as the contract has been signed, every group will prepare a list of polymorphisms that have been analysed in their sample. These lists will be shared among the group. For some of the polymorphisms we might decide to pool the data for more significance, or to increase the power to exclude a variant and prepare a publication from these data.
- ✓ A point that needs attention is the numbers of authors to be included in publications by our group. This will be discussed at a later stage.
- ✓ Another group, that of Klaus-Peter Lesch in Würzburg (Germany), seems to have collected a large sample of adult ADHD patients for genetic studies. The group of Lesch has approached the Spanish group for collaboration. It might be useful to get them on board in our collaborative to further increase the power of our studies. Barbara will contact them.
- ✓ We decide that the collaboration of our groups will not be exclusive and that the individual groups can also decide to collaborate with others.

| Action point | Who needs to take action | Deadline |
|--|--|----------------------------|
| Send around contract for signing | Barbara and legal department Nijmegen | A.s.a.p. |
| Get quotes from genotyping firms | Barbara Jan Monica/Bru | A.s.a.p. |
| Send around proposal for database | Barbara | A.s.a.p. |
| Send around form for project proposals | Barbara | Completed (see attachment) |
| Ask statisticians if genomic control is needed | All groups | A.s.a.p. |
| Send around paper in press and poster | Jan | A.s.a.p. |
| Contact group of Klaus-Peter Lesch for possible inclusion in the collaboration | Barbara | A.s.a.p. |
| Prepare list of polymorphisms and share with other groups | All groups | After signing of contract |
| Prepare database with phenotypic information and demographics | All groups | After signing of contract |

Proposal for analysis of Collaborative adult ADHD genetics project dataset

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| Proposed Authors(s): |
| Title of proposed paper: |
| Background to proposal: |
| Scientific question(s) (specific hypotheses) being addressed: |
| Method (specific analyses being proposed): |