

## IMpACT TC on September 14 2017

**Present:** Claiton, Steve, Andreas, Tetyana, Jonna, Bru, Peter, Alejandro, Nina, Barbara, and Angeliën

### Agenda IMpACT:

1. Update To-do-list
2. Project proposal Emma Sprooten (Barbara)
3. Finding opportunities to expand the ADHD persistence/remission and polygenic risk project with other existing samples, update on project idea Nicoletta Adamo (Jonna)
4. Update projects
  - a. Progress adult ADHD GWAS MA, ideas for the combined meta-analysis form PGC and iPSYCH (Marta)
  - b. Follow-up pharmacogenetics project Brazil (Claiton)
  - c. Epigenetics, investigation of epigenetics in psychiatry by looking at methylation patterns (Tetyana)
5. New plans
  - a. CDH13 → final decision, Alejandro
  - b. NEO- neuroticism genes, Andreas
  - c. Other project plans
6. Other points
  - a. Doodle for the traditional IMpACT dinner at WCPG:  
<https://beta.doodle.com/poll/mffb6givgft3qhan> (please also send through to your juniors)

### Update to-do list IMpACT meeting June

	What	Who	Deadline
1	Ideas for the combined PGC and iPSYCH meta-analysis	All	Agenda point 1
2	Collection of available IMpACT data	Claiton	Next meeting

### Summary IMpACT TC

#### 1. To-do-list

Ideas for the combined PGC and iPSYCH meta-analysis:  
PGC proposal from Andreas to add other child adult samples.  
Analysis group Barbara: There is an overlap between ADHD genetics and brain genetics.  
Genetic variants suggesting that there are neurite outgrowth genes in this overlap.

#### 2. Project proposal Emma Sprooten

In this proposal Emma wants to use the data that Marta is currently producing for the analysis of factors influencing the brain in the context of persistence/remission of ADHD. Emma is trying to position this analysis in a way that it doesn't affect the other studies. A number of people have indicated that they would like to participate and they will be part of the working group.

**3. Finding opportunities to expand the ADHD persistence/remission and polygenic risk project with other existing samples, update on project idea Nicoletta Adamo.**

Postponed to a another meeting.

**4a. Progress adult ADHD GWAS MA, ideas for the combined meta-analysis from PGC and iPSYCH**

Including 23andMe data, this is checked with LD regression. Result: no genome-wide significant hit. The correlation between 23andMe and IMpACT GWAS adult is 73%. The correlation between PGC-iPSYCH, and 23andMe is 65%. It is not clear, whether this is a real difference. There is a discussion if including 23andMe data makes sense. The questionnaire item in 23andMe for the ADHD phenotype is have you ever been diagnosed with ADHD. According to Steve, 23andMe may be enriched with adult samples. It is not clear, if the addition of 23andMe data adds something useful.

**4b. Follow-up pharmacogenetic project Brazil (Claiton)**

Interesting for replication of the recent publication by the Brazil group. Claiton will transmit the proposal.

**4c. Epigenetics, investigation of epigenetics in psychiatry by looking at methylation patterns**

Life and Brain offers the Epic array for 185 Euro per sample, if they can get 100.000 samples. They will run the array and perform basic analysis. Barbara will send the link and if you are interested you can contact Life and Brain.

**5. New plans**

**5a. CDH13.** We take the decision that we will stop the project.

**5b. NEO- neuroticism genes.** Heike is working on this project and is in contact with Toni for samples to replicate the top hits. Barbara mentioned that there is a recent publication on a GWAS of personality data. Andreas will have a look.

**6. Other points**

**6a.** Doodle for the traditional IMpACT dinner at WCPG:

<https://beta.doodle.com/poll/mffb6givgft3qhan> (please also send through to your juniors)

**6b.** Isabell Brikell will not be able to present at WCPG. Barbara will ask, if Philip might be able to take over.

**6c.** Other news from Steve: GWAS results of ADHD and BP:

<http://www.sciencedirect.com/science/article/pii/S0006322316329201>

**Action points**

	<b>What</b>	<b>Who</b>	<b>Deadline</b>
1	Life and Brain Epic array 185 per sample. Link will be sent	Barbara	Asap
2	Proposal will be sent for replication study	Claiton	Next meeting

