

Summary IMpACT TC February 8 2018

Present: Toni, Alejandro, Barbara, Jan, Henrik, Bru, Claiton, Alysa, Andreas, Nina, and Angelien

Agenda IMpACT:

1. Update To-do-list
2. Update projects
 - a. Epigenetics of ADHD (Tetyana)
 - b. Progress IMPACT ADHD GWASMA (Marta)
3. New plans
 - a. What should we plan in terms of downstream analyses for the IMpACT GWASMA?
 - b. What are the latest insights from the population register and twin data?
 - c. UK Biobank – what can we do with those data for ADHD?
4. IMpACT Meeting 2018 (Henrik)
5. Other points

1. Update To-do-list:

	What	Who	Deadline
1	Ideas for the combined PGC and iPSYCH meta-analysis. Follow-up plan	Marta	Next meeting
2	Collection of available IMpACT data. Claiton has sent the proposal for pharmacogenetic studies in adults with ADHD. The proposal will send to the hands-on persons to check the data set of their country.	Angelien	Done
3	Annual IMpACT meeting on 2-4 May 2018 Orebro Doodle	Angelien	Done

2. Update projects

2a. Epigenetics of ADHD (Update Tetyana by mail):

They were fortunate to receive funding to do epigenetics studies in psychiatric disorders (schizophrenia, ADHD and bipolar). This year, they are focusing on recruitment and epigenotyping. They will start the analyses in 2019. Tetyana has contacted sites for sample collection as discussed during our 10 year anniversary IMpACT meeting. At this moment, they are discussing the sample selection criteria.

2b. Progress IMPACT ADHD GWASMA (Update Marta by mail):

They will distribute an update of the ADHD GWASMA as soon as possible. The Spanish group are also submitting a paper on the overlap on ADHD and cannabis use from consortium data, which can be included as output for the CoCA project.

3. New plans

a. What should we plan in terms of downstream analyses for the IMpACT GWASMA.

- There are no genome-wide significant hits. Can we extend the sample size?
- Sweden: Genotyping Twins, focus on symptoms data
- Norway: Hunt Study, 17000 people, few hundred cases could be added. Summary statistics from Norway and Sweden could be added to IMpACT GWAS.
- The Danish cohort will also be extended.
- If there are people who have adult samples maybe they can be genotyped by the Broad Institute. They are using now another chip, the GSA Global Screening Array. This one has

a GWAS backbone that is intended to capture variations world-wide, that means, was not designed based only on European samples.

Nina has discussed with a couple of people last year and they seem convinced that this chip is far superior than the PsychChip, giving a better coverage genome-wide and it is also more affordable.

- At the WCPG, Barbara saw a poster on internet-based collection of materials for seasonal depression. They collected 3000 samples in one year. They also obtained their informed consent for genetic studies online.
- Link polygenic risk scores to population registers. We have information about the use of ADHD medication / methylphenidate treatment. Expand our internet-based testing for other test batteries or..... Food for thought and discussion at the IMpACT meeting in May.

2b.What are the latest insights from the population register and twin data?

Sweden: Collection of 20000 twins, collected in 2005. 15000 will be genotyped. On this moment they are between 20-40 years old, this could be followed up. PRS, do they predict treatment response? Link to the old-age-disease.

Norway : Collaborating between CoCA, Eat2beNice, and across Scandinavian countries.

2c.UK Biobank – what can we do with those data for ADHD?

- Spain is exploring the possibilities.
- USA: Do we have to take the same measures across the different disorders?
- Nijmegen: getting data from the UK Biobank and are receiving more data.
- Barbara: UK Biobank is now exploring ways for re-contacting the participants and we all should lobby for ADHD-related questions in the questionnaire.

4.IMpACT Meeting 2018

The meeting will take place from the 2nd until the 4th of May in Örebro, Sweden. The venue for the meeting is an old castle. There will be funding available to cover costs related to hotel and flights. At Wednesday, only a welcome dinner is planned. On Thursday, the meeting will run from 9 am until 6 pm. It will be packed with meetings/presentations and discussions; the focus should be on new ideas for projects and on grant opportunities across the sites. Friday from 9 am until 12 noon will be for presentations and discussions. Alejandro suggested to organize a brainstorm session with the focus on what we could do as a group.

Until now, 19 people have confirmed to participate the meeting. Let Angelien know if you have more people in your group who would like to participate. The deadline for registration is the end of February.

	What	Who	Deadline
1	Ideas for the combined PGC and iPSYCH meta-analysis. Follow-up plan	Marta	Next meeting
	IMpACT GWASMA, Food for thought	All	Next meeting
2	Uk-Biobank Lobby for ADHD questionnaires.	All	Next meeting
3	Annual IMpACT meeting on 2-4 May 2018 Orebro. Let Angelien know if junior researchers would like to join the meeting.	Angelien	End of February