**P1** Xavier Estivill, Fundació Centre de Regulació Genòmica (CRG), Spain

**1.** *Description of legal entity and its main tasks, and how this matches the tasks in the proposal*

2. *CV(s) of persons who will be primarily responsible for carrying out the proposed research and/or innovation activities*

3. *up to 5 relevant publications and/or products, services (including widely-used datasets or software), or other achievements relevant to the  call content*

4. *up to 5 relevant previous projects or activities, connected to the subject of this proposal*

5. *description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work*

**P2** Eske M Derks, UvA, The Netherlands

**1.** *Description of legal entity and its main tasks, and how this matches the tasks in the proposal*

The AMC Department of Psychiatry (APC) is renowned for clinical, genetic, and neurobiological research into obsessive compulsive and anxiety disorders. Each year, XX patients diagnosed with OCD are enrolled in treatment. Several pharmacological trials in OCD have been conducted. Deep brain stimulation (DBS) for psychiatric disorders is implemented for OCD and depression, and its mechanisms are studied. Our research group has a track record in functional and structural MRI in psychiatric disorders like OCD, and major depression, and in translational research projects in OCD (DBS in humans, combined with MRI and EEG studies; DBS in rats including microdialysis and fast-scan cyclic voltammetry).The APC research is characterized by a translational approach, making use of phenomenology, neuroimaging, neurogenetics and animal models. Genetic research focuses on the development and application of novel statistical approaches with the aim of identifying genetic variants involved in complex traits. Genetic studies of OCD, anxiety disorders, addiction, and schizophrenia are being performed under the lead of Prof. Eske Derks, Professor of Genetics in Psychiatry. Prof. Damiaan Denys is Professor and Chair of the Department of Psychiatry at the University of Amsterdam, and heads the OCD treatment clinic and research program. Dr. Nienke Vulink is Psychiatrist and head of the department of anxiety disorders at the APC.

2. *CV(s) of persons who will be primarily responsible for carrying out the proposed research and/or innovation activities*

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3. *up to 5 relevant publications and/or products, services (including widely-used datasets or software), or other achievements relevant to the  call content*

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2. [Stewart SE](http://www.ncbi.nlm.nih.gov/pubmed?term=Stewart%20SE%5BAuthor%5D&cauthor=true&cauthor_uid=22889921), [Yu D](http://www.ncbi.nlm.nih.gov/pubmed?term=Yu%20D%5BAuthor%5D&cauthor=true&cauthor_uid=22889921), [Scharf JM](http://www.ncbi.nlm.nih.gov/pubmed?term=Scharf%20JM%5BAuthor%5D&cauthor=true&cauthor_uid=22889921), et al. Genome-wide association study of obsessive-compulsive disorder. [*Mol Psychiatry.*](http://www.ncbi.nlm.nih.gov/pubmed/22889921) 2013;18(7):843. IF 13.668
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5. Vulink NCC, Denys D, Fluitman SBAHA, Meinardi JCM, Westenberg HGM (2009). Quetiapine augments the effect of citalopram in non-refractory Obsessive-Compulsive Disorder: A randomized, double-blind, placebo-controlled study of 76 patients. J Clin Psychiatry 70(7), 1001-1008.

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1. Prof. Dr. Eske Derks is currently actively involved in the International OCD Foundation Genetics Collaborative (**IOCDF**-**GC**). This consortium has published the first Genome Wide Association analysis on Obsessive Compulsive disorder. Derks is leading a genetic analysis aiming to identify genetic variants associated with the age of onset of OCD.

2. Prof. Dr. Damiaan Denys plays a leading role in the DBS treatment of psychiatric disorders; worldwide about 20% (40/200) of the OCD patients undergoing DBS surgery have been treated in this centre. Denys has received several grants which aim to identify the functional brain pathways that are moderated by DBS treatment. Furthermore, genetic studies in collaboration with Prof. Dr. Derks aim to identify genetic risk variants which predict efficacy of DBS.

3. Prof. Dr. Denys is one of the Principal Investigators in a Dutch national study aiming to collect post mortem brains of psychiatric patients. The title of this project is “Brain Matters: Development of the Netherlands Psychiatric Tissue program (NPTP)”. As part of this project, post mortem brains will be collected in 55 OCD patients.

4. Prof. Dr. Derks currently leads the study “TRacing genetics of Alcoholism and Comorbid disorders in Extended pedigrees”. The primary focus of this study is on detecting genetic variants involved in alcoholism. Many of the statistical techniques developed in this study will be relevant for the current proposal.

5. *description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work*

The research will be performed at the Division of Psychiatry at the Academic Medical Center (AMC). The expertise of Prof. Dr. Eske Derks is in statistical genetics of complex psychiatric traits. The AMC Brain Imaging Center (BIC; <http://www.lebic-amc.nl>) has state-of-the-art neuroimaging facilities including research dedicated 3T Philips MR scanners, and is partner of the Royal Netherlands Academy of Arts and Sciences (KNAW) Spinoza Centre for Neuroimaging (<http://www.spinozacentre.nl>). Over 1000 patients and healthy individuals participate in AMC neuroimaging research per year. The BIC offers world-leading expertise in neuroimaging analysis, high performance computing on the Dutch e-science grid, and an excellent training program for PhD students.

 **What about genetics, will be performedat CGR? Does not need to be included here?**

**P3** Maria del Pino Alonso, IDIBELL, Spain

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5. *description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work*

**P4** Danielle Cath, UU, The Netherlands

**1.** *Description of legal entity and its main tasks, and how this matches the tasks in the proposal*

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**P5** Iiris Hovatta, UH, Finland

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**P6** Javier Terriente, ZeCli, Spain

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**P7** Eletheria Zegnini, WTSI, UK

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