

## **AMENDMENT FOR DISTRIBUTION 5.0—OBSESSIVE-COMPULSIVE DISORDER NIMH HUMAN GENETICS INITIATIVE DISTRIBUTION AGREEMENT**

NOW, THEREFORE, it is mutually agreed that the National Institute of Mental Health (NIMH) Human Genetics Initiative Distribution Agreement signed by NIMH, the center for Genetic Studies, and \_\_\_\_\_ as the Receiving Institution is amended to include the following text in paragraph 14 under the section, Acknowledgement for Obsessive-Compulsive Disorder Sample Biomaterials and Clinical Data:

Biomaterials and phenotypic data were obtained from the following projects that participated in the NIMH Obsessive-Compulsive Disorder Genetics Initiative:

**Study 16** – The OCD Collaborative Genetics Study (OCGS) is an ongoing collaboration among investigators at six sites in the United States and was funded by NIMH Grant Number 2R01MH050214-05A2. The study includes the following collaborative centers: Johns Hopkins University, Gerald Nestadt, M.B.B.Ch., M.P.H. (Principal Investigator); Brown University, Benjamin Greenberg, M.D., Ph.D.; Columbia University, Abby Fyer, M.D.; Harvard/Massachusetts General Hospital, Scott Rauch, M.D.; National Institute of Mental Health (NIMH), Dennis Murphy, M.D.; and University of California at Los Angeles (UCLA), James McCracken, M.D.

**Study 66** – The OCD Collaborative Genetics Association Study (OCGAS) is a collaborative research study including investigators at six sites in the United States and was funded by NIMH Grants, R01 MH071507, R01 MH079494, R01 MH079487, R01 MH079489, R01, and R01 MH079494. The study includes the following collaborative centers: Johns Hopkins University [Gerald Nestadt, MB.BCh., M.P.H. (PI), Joseph Bienvenu, M.D., Ph.D., Bernadette Cullen, MB.BCh., Fernando Goes, M.D., Marco Grados, M.D., M.P.H., Kung-Yee Liang, Ph.D., Brion Maher, Ph.D., Graham Redgrave, M.D., Mark Riddle, M.D., Jack Samuels, Ph.D., Yin Yao, Ph.D. (NIMH)]; Brown University/Butler Hospital [Benjamin D. Greenberg, M.D., Ph.D. (PI); Nicole McLaughlin, Ph.D.; Steven A. Rasmussen, M.D.; Sarah Garnaat, Ph.D.]; Columbia University [Abby Fyer, M.D. (PI), Lindsey Kupferman, Ph.D.]; Harvard/Massachusetts General Hospital [Dan Geller, M.D. (PI), Evelyn Stewart, M.D., David Pauls, Ph.D.]; National Institute of Mental Health (NIMH) [Dennis Murphy, M.D. (PI)]; University of California at Los Angeles (UCLA) [James McCracken, M.D. (PI), John C. Piacentini, Ph.D.]; and University of Southern California [James Knowles, M.D., Ph.D. (PI)]. Analytic work was also conducted at Harvard University [Christoph Lange, Ph.D., Manuel Mattheisen, M.D., Ph.D.].

**Study 93 (Compulsive Hoarding)** – The collection of data and blood for genetic studies was supported by NIMH grant R21 MH087748 to Carol A. Mathews, M.D. Co-investigators included Daniel Mathalon, M.D., Ph.D., R. Scott Mackin, Ph.D., and Kevin Delucchi, Ph.D., all from University of California San Francisco.

**Study 110** - Data and biomaterials for NIMH study (2011P000875) were collected as part of the study entitled, D-cycloserine Augmentation of Cognitive Behavioral Therapy (CBT) for Pediatric Obsessive-compulsive Disorder (OCD), supported by NIMH grants [1R01MH093402; 1R01MH093381]. The principal investigator(s) is/are Dr. Daniel Geller and Dr. Eric Storch, from the Harvard Medical School and the Baylor College of Medicine, respectively. The ClinicalTrials.gov identifier are NCT01404208 and NCT01411774.

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**Study 119** - Data and biomaterials for NIMH 119 were collected as part of a study entitled "Attaining and Maintaining Wellness in OCD" that examined whether cognitive behavioral therapy can enable patients with obsessive compulsive disorder (OCD) to discontinue from serotonin reuptake inhibitors and which OCD patients were most likely to benefit from this treatment strategy. This study was supported by NIMH (R01 MH04536 [PI: Dr. Helen Blair Simpson] and R01 MH MH45404 [PI: Dr. Edna Foa] as well as by the New York State Office of Mental Health. The ClinicalTrials.gov identifier is NCT01686087.

**Study 134 (Trichotillomania)** – This study was performed using data from the Genetics Study of Trichotillomania (PI: Nancy Keuthen, Ph.D.) funded by the Trichotillomania Learning Center and the Family Study of Trichotillomania (PIs: Nancy Keuthen, Ph.D.; David Pauls, Ph.D.) funded by the Greater Kansas City Foundation. Both of these studies were conducted at Massachusetts General Hospital, Boston, MA.

**Study 138** - Identification of rare variants of OCD is a collaborative research study including investigators at Johns Hopkins University and Columbia University, and funded by NIMH Grant R01MH097993. The study included the following coinvestigators: Gerald Nestadt, MB, BCh, MPH (Principal Investigator); Fernando Goes, MD; Marco Grados, MD, MPH; Brion Maher, PhD; Paul Nestadt, MD; Jack Samuels, PhD; David Goldstein, PhD; and Matt Halvorsen, PhD. The investigators thank the study managers and clinical interviewers for their efforts in participant recruitment and clinical assessments. We also are indebted to the participating families for their contribution of time and effort in support of the study.

**Study 152** - Data and biomaterials for NIMH Study 152 were collected as part of Control and Reward Circuits as Targets for Repetitive Thoughts and Behaviors, a project that used different brain imaging methods to investigate how dysfunction in brain circuits underlying cognitive control and reward processing might contribute to pathological repetitive thoughts and behaviors, using obsessive-compulsive disorder (OCD) as a model system. This study was supported by NIMH grant(s) [R01MH104648-01 and R01MH104648-01S1] and by the New York State Office of Mental Health. The principal investigators are Drs. Rachel Marsh and Helen Blair Simpson from Columbia University & the New York State Psychiatric Institute. The ClinicalTrials.gov identifier is NCT02221518.

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**DATED SIGNATURES**

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Principal Investigator, **PLEASE PRINT**

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Signature and **Date**, Principal Investigator

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Signature and **Date**, Receiving Institution's Authorized Representative

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Signature and **Date**, NIMH Repository & Genomics Resource's Authorized Representative, Rutgers University

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Signature and **Date**, NIMH's Authorized Representative