Extremely shy & genetically close : investigating neurobiological endophenotypes of social anxiety disorder

Bas, J.M.

Part 5

Appendices

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Contributing authors

Prof. Gerhard Andersson, PhD.

Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden; Department of Behavioural Sciences and Learning, Psychology, Linköping University, Linköping, Sweden.

Prof. Jennifer U. Blackford, PhD.

Department of Psychiatry and Behavioral Sciences, Vanderbilt University Medical Center, Nashville, TN, United States of America; Research Service, Research and Development, Department of Veterans Affairs Medical Center, Nashville, TN, United States of America.

Karina S. Blair, PhD.

National Institute of Mental Health, National Institutes of Health, Department of Health and Human Services, Bethesda, MD, United States of America; *Present: Center for Neurobehavioral Research, Boys Town National Research Hospital, Boys Town, NE, United States of America.*

Prof. Carl-Johan Boraxbekk, PhD.

Umeå Centre for Functional Brain Imaging (UFBI), Umeå University, Umeå, Sweden; Danish Research Centre for Magnetic Resonance (DRCMR), Centre for Functional and Diagnostic Imaging and Research, Copenhagen University Hospital Hvidovre, Denmark.

Annette B. Brühl, PhD.

Behavioural and Clinical Neuroscience Institute, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom; Department of Psychiatry, Psychotherapy, and Psychosomatics, Psychiatric Hospital, University of Zurich, Zurich, Switzerland.

Prof. Per Carlbring, PhD.

Department of Psychology, Stockholm University, Stockholm, Sweden.

Henk R. Cremers, PhD.

Department of Clinical Psychology, University of Amsterdam, Amsterdam, The Netherlands.

Jonas Engman, MSc.

Department of Psychology, Uppsala University, Uppsala, Sweden.

Jean-Paul Fouche, PhD.

Department of Psychiatry and Mental Health, University of Cape Town, Observatory, Cape Town, South Africa.

Prof. Mats Fredrikson, PhD.

Department of Psychology, Uppsala University, Uppsala, Sweden; Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden.

Andreas Frick, PhD.

Department of Psychology, Uppsala University, Uppsala, Sweden; Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden.

Prof. Tomas Furmark, PhD.

Department of Psychology, Uppsala University, Uppsala, Sweden.

Anita Harrewijn, PhD.

Developmental and Educational Psychology, Institute of Psychology, Leiden University, Leiden, The Netherlands; Leiden Institute for Brain and Cognition, Leiden University, Leiden, The Netherlands. *Present: Department of Human Development and Quantitative Methodology, University of Maryland, College Park, United States of America; Emotion and Development Branch, National Institutes of Mental Health, Bethesda, United States of America.*

Coenraad J. Hattingh, PhD.

Department of Psychiatry and Mental Health, University of Cape Town, Observatory, Cape Town, South Africa.

Prof. Jeanine J. Houwing-Duistermaat, PhD.

Department of Statistics, University of Leeds, Leeds, United Kingdom.

Heide Klumpp, PhD.

Departments of Psychiatry and Psychology, University of Illinois at Chicago, Chicago, IL, United States of America.

Tanja Kreuk, MSc.

Developmental and Educational Psychology, Institute of Psychology, Leiden University, Leiden, The Netherlands.

Prof. Christine Lochner, PhD.

SU/UCT MRC Unit on Anxiety & Stress Disorders, South Africa; Department of Psychiatry, Stellenbosch University, Tygerberg, South Africa.

Kristoffer N.T. Månsson, PhD.

Department of Psychology, Stockholm University, Stockholm, Sweden; Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden.

Melle J.W. van der Molen, PhD.

Developmental and Educational Psychology, Institute of Psychology, Leiden University, Leiden, The Netherlands; Leiden Institute for Brain and Cognition, Leiden University, Leiden, The Netherlands.

J. Nienke Pannekoek, PhD.

Neuropsychopharmacology Unit, Centre for Psychiatry, Division of Brain Sciences, Imperial College London, United Kingdom; *Present: MRC Unit on Risk & Resilience in Mental Disorders, Stellenbosch University, Stellenbosch, South Africa.*

Jutta Peterburs, PhD.

Institute of Medical Psychology and Systems Neuroscience, University of Münster, Münster, Germany; *Present: Department of Biological Psychology, Institute for Experimental Psychology, Heinrich-Heine- University, Düsseldorf, Germany.*

Prof. K. Luan Phan, PhD.

Departments of Psychiatry, Psychology and Anatomy and Cell Biology, and the Graduate Program in Neuroscience, University of Illinois at Chicago, Chicago, IL, United States of America.

Catrien G. Reichart, PhD.

Curium, Leiden University Medical Center, Leiden, The Netherlands.

Prof. Karin Roelofs, PhD.

Behavioural Science Institute, Radboud University, Nijmegen, The Netherlands; Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, The Netherlands.

Prof. P. Eline Slagboom, PhD.

Section of Molecular Epidemiology, Department of Medical Statistics and Bioinformatics, Leiden University Medical Center, Leiden, The Netherlands.

Prof. Thomas Straube, PhD.

Institute of Medical Psychology and Systems Neuroscience, University of Münster, Münster, Germany.

Renaud L.M. Tissier, PhD.

Developmental and Educational Psychology, Institute of Psychology, Leiden University, Leiden, The Netherlands; *Present: Department of Epidemiology and Biostatistics, Vrije Universiteit Medical Center, Amsterdam, The Netherlands.*

Marie-José van Tol, PhD.

Department of Neuroscience, University Medical Center Groningen, University of Groningen, Groningen, The Netherlands.

Prof. Dick J. Veltman, PhD.

Department of Psychiatry, Neuroscience Campus Amsterdam, VU University Medical Center, Amsterdam, The Netherlands.

Irene M. Van Vliet, PhD.

Department of Psychiatry, Leiden University Medical Center, Leiden, The Netherlands.

Henk van Steenbergen, PhD.

Cognitive Psychology, Institute of Psychology, Leiden University, Leiden, The Netherlands; Leiden Institute for Brain and Cognition, Leiden University, Leiden, The Netherlands.

Prof. Dan J. Stein, PhD.

Department of Psychiatry and Mental Health, University of Cape Town, Observatory, Cape Town, South Africa.

Prof. Nic J.A. van der Wee, PhD.

Department of Psychiatry, Leiden University Medical Center, Leiden, The Netherlands; Leiden Institute for Brain and Cognition, Leiden University, Leiden, The Netherlands.

Prof. P. Michiel Westenberg, PhD.

Developmental and Educational Psychology, Institute of Psychology, Leiden University, Leiden, The Netherlands; Leiden Institute for Brain and Cognition, Leiden University, Leiden, The Netherlands.

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Chapter 10

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Curriculum vitae

Janna Marie Bas-Hoogendam was born on November 21, 1985 in Gouda, The Netherlands. In 2003, she graduated from Gymnasium Camphusianum in Gorinchem (cum laude / with honours) and started studying Medicine at the Erasmus Medical Center, Rotterdam. After finishing the Bachelor's phase (cum laude / with honours, 2004), she continued with the Master's phase of this study. During several research internships at the department of Psychiatry of the Erasmus Medical Center, she got acquainted with brain research and became more and more enthusiastic about the possibilities of neuroimaging, especially in relation to psychopathology. She wrote a review on the effect of antipsychotics on the blood-oxygen-level-dependent (BOLD) signal (published in revised form in *Current Pharmaceutical Design*) and decided to focus on brain research after her graduation. She was admitted to the prestige research master Neuroscience and Cognition at Utrecht University (2007). As part of this master, she completed an internship involving the combination of functional Magnetic Resonance Imaging (fMRI) and repetitive Transcranial Magnetic Stimulation (rTMS) at the Psychiatry department of the University Medical Center (UMC) Utrecht, and an internship concerning a magneto-encephalogram experiment in patients with Parkinson's disease and obsessive-compulsive disorder at the VU Medical Center in Amsterdam. In addition, she wrote a master's thesis on the physiological basis of the effects of rTMS on the brain, with a focus on synaptic plasticity (published as a review in *Brain Stimulation*).

She obtained her master's degree (cum laude / with honours) in 2009 and started working as a research assistant at the Psychiatry department of the UMC Utrecht on the BRain Imaging, Development & Genetics (BRIDGE) project. In this project, she investigated the structural and functional brain development of children (10 - 16 years of age) who were genetically at high risk for the development of schizophrenia and bipolar disorder. In 2012, she moved to the United Kingdom to work as a Marie Curie Early Stage Researcher at the Cognitive Neuroimaging Laboratory of the University of Birmingham within the Adaptive Brain Computations research program, a training network funded by the European Union.

In 2013, Janna Marie Bas-Hoogendam started her PhD project at the unit Developmental and Educational Psychology of the Institute of Psychology (Leiden University) and the department of Psychiatry of the Leiden University Medical Center (LUMC). This PhD project, embedded within the Leiden Family Lab study on Social Anxiety Disorder (LFLSAD) and supervised by prof. dr. P. Michiel Westenberg, prof. dr. Nic. J. A. van der Wee and dr. Henk van Steenbergen, aimed to determine endophenotypes of social anxiety disorder using structural and functional MRI. The results of this study are included in this thesis.

In addition to the data collection and analysis of the LFLSAD project, she was involved in the Netherlands Study of Depression and Anxiety (NESDA) and worked on a study on the neurobiological effects of cortisol on the brain, a collaboration between the departments of Psychiatry and Endocrinology (LUMC). Furthermore, Janna Marie was part-time

employed as a Junior staff-member at the Netherlands Organization for Scientific Research (NWO), the Hague (2015), and she was actively involved in teaching: she supervised Bachelor's and Master's theses, was coordinator and working group leader of Clinical Child and Adolescent Psychology and a mentor of first year's students of the International Bachelor in Psychology. She obtained her University Teaching Qualification in 2017.

Furthermore, Janna Marie Bas-Hoogendam is a coordinator of the ENIGMA-ANXIETY working group (since 2016) and associate faculty member of F1000prime (since 2017). Currently, Janna Marie is appointed as a researcher at the unit Developmental and Educational Psychology of the Institute of Psychology (Leiden University) and the department of Psychiatry (LUMC).

Janna Marie is married to Matthijs Bas and they have two sons: David (2016) and Manuel (2018).

Curriculum vitae (*Nederlands*)

Janna Marie Bas-Hoogendam is geboren op 21 November 1985 in Gouda. In 2003 behaalde ze haar diploma aan het Gymnasium Camphusianum in Gorinchem (*cum laude*) en in datzelfde jaar startte ze met de opleiding Geneeskunde aan het Erasmus Medisch Centrum, Rotterdam. Na het afronden van de propedeutische fase (*cum laude*, 2004), zette ze haar studie voort met de doctoraal fase van de opleiding. Tijdens meerdere onderzoeksstages bij de afdeling Psychiatrie van het Erasmus MC maakte ze kennis met hersenonderzoek, en werd daarbij steeds enthousiaster over de mogelijkheden van beeldvormende technieken om inzicht te krijgen in de neurobiologische basis van psychopathologie. Ze schreef een overzichtsartikel over het effect van antipsychotica op hersenactiviteit (in herziene vorm gepubliceerd in het wetenschappelijke tijdscrift *Current Pharmaceutical Design*) en besloot om zich na het afronden van haar doctoraal te richten op het doen van wetenschappelijk onderzoek naar het brein. Ze werd geselecteerd voor de prestige researchmaster Neuroscience and Cognition aan de Universiteit Utrecht (2007). Tijdens deze master rondde Janna Marie twee stages af. In de eerste stage, die plaatsvond op de afdeling Psychiatrie van het Universitair Medisch Centrum (UMC) Utrecht werkte ze mee aan een project waarin functionele Magnetische Resonantie Imaging (fMRI) gecombineerd werd met repetitieve Transcraniële Magnetische Stimulatie (rTMS); tijdens de tweede stage hield ze zich bezig met een magneto-encefalografie in patiënten met de ziekte van Parkinson en patiënten met een obsessieve-compulsieve dwangstoornis (VU Medisch Centrum, Amsterdam). Daarnaast schreef ze haar master scriptie over de fysiologische basis van de effecten van rTMS op het brein, waarbij ze zich met name richtte op synaptische plasticiteit. Deze scriptie werd in 2010 in het blad *Brain Stimulation* gepubliceerd.

Na het behalen van haar masterdiploma (*cum laude*) in 2009 werkte Janna Marie een aantal jaar als onderzoeksassistent op de afdeling psychiatrie van het UMC Utrecht aan het *BRain Imaging, Development & Genetics* (BRIDGE) onderzoek. In dit project onderzocht ze de structurele en functionele ontwikkeling van de hersenen in kinderen (10 - 16 jaar oud) die een hoog genetisch risico hadden voor het ontwikkelen van schizofrenie of een bipolaire stoornis. In 2012 verhuisde ze naar het Verenigd Koninkijk om daar als een *Marie Curie Early Stage Researcher* te werken bij het *Cognitive Neuroimaging Laboratory* van de Universiteit van Birmingham, in het kader van het *Adaptive Brain Computations* onderzoeksprogramma (financieel mogelijk gemaakt door de Europese Unie).

In 2013 begon Janna Marie Bas-Hoogendam met haar promotieonderzoek bij de afdeling Ontwikkelings- en onderwijspsychologie (Instituut Psychologie, Universiteit Leiden) en de afdeling Psychiatrie (Leiden Universitair Medisch Centrum, LUMC), onder begeleiding van prof. dr. P. Michiel Westenberg, prof. dr. Nic. J. A. van der Wee en dr. Henk van Steenbergen. Het project was onderdeel van de Leidse Familiestudie naar Sociale Angststoornis (LFLSAD) en was erop gericht om endofenotypes van sociale angststoornis vast te stellen

met behulp van structurele en functionele MRI. De resultaten van het onderzoek zijn in dit proefschrift beschreven.

Naast het verzamelen en analyseren van de onderzoeksgegevens van de LFLSAD was Janna Marie betrokken bij de Nederlandse Studie naar Depressie en Angst (NESDA), en werkte ze aan een onderzoek naar de neurobiologische effecten van cortisol op het brein, een samenwerking tussen de afdelingen Psychiatrie en Endocrinologie van het LUMC. Verder werkte ze parttime als Junior Beleidsmedewerker bij de Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO; Den Haag; 2015) en vervulde ze diverse onderwijstaken. Ze begeleidde studenten bij het schrijven van hun bachelor- en masterscripties, was coördinator en werkgroepdocent van het vak *Clinical Child and Adolescent Psychology* en mentor van eerstejaarsstudenten van de *International Bachelor in Psychology*. Ze behaalde haar Basiskwalificatie Onderwijs in 2017.

Verder is Janna Marie sinds 2016 coördinator van de ENIGMA-ANXIETY werkgroep en *associate faculty member* van de website F1000prime (sinds 2017). Momenteel is Janna Marie werkzaam als onderzoeker bij de afdeling Ontwikkelings- en onderwijspsychologie (Instituut Psychologie, Universiteit Leiden) en de afdeling Psychiatrie (LUMC).

Janna Marie is getrouwd met Matthijs Bas en samen hebben ze twee zoons: David (2016) en Manuel (2018).

List of publications

Papers in peer-reviewed journals

Janna Marie Bas-Hoogendam, Henk van Steenbergen, Jennifer U. Blackford, Renaud L.M. Tissier, Nic. J.A. van der Wee, P. Michiel Westenberg (2019b). Impaired neural habituation to neutral faces in families genetically enriched for Social Anxiety Disorder. *Depression & Anxiety* (available online, in press).

Janna Marie Bas-Hoogendam, Henk van Steenbergen, Renaud L.M. Tissier, Nic. J.A. van der Wee, P. Michiel Westenberg (2019a). Altered neurobiological processing of unintentional social norm violations: a multiplex, multigenerational fMRI study on social anxiety endophenotypes. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging* (available online, in press).

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Laura S. van Velzen, Marie-José van Tol, Martijn P. van den Heuvel, **Janna Marie Bas-Hoogendam**, Nic J. A. van der Wee, Dick J. Veltman, Brenda W. J. H. Penninx, Lianne Schmaal (in revision). Multimodal graph theoretical brain networks and the 9-year cumulative disease load of depression and anxiety.

Book chapters

Janna Marie Bas-Hoogendam, Eline F. Roelofs, P. Michiel Westenberg, Nic J. A. van der Wee. Pathogenesis of SAD; chapter in 'The American Psychiatric Association Textbook of Anxiety, Trauma and OCD related Disorders', edited by Naomi Simon, Eric Hollander, Barbara O. Rothbaum, and Dan J. Stein (2019, in press).

Dick J. Veltman, **Janna Marie Bas-Hoogendam**, Nic J. A. van der Wee en Odile A. van den Heuvel. Het angstige brein: beeldvormend onderzoek; hoofdstuk in 'Handboek angst- en

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Conference abstracts *(selection)*

Janna Marie Bas-Hoogendam, Henk van Steenbergen, Nic J.A. van der Wee, P. Michiel Westenberg (2019). Neuroimaging results from the Leiden Family Lab study on Social Anxiety Disorder: a multiplex, multigenerational endophenotype study. *Journal of Neural Transmission* (in press).

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Patients with social anxiety disorder (SAD) are 'extremely shy': they are afraid of a negative evaluation and avoid social situations as much as possible, with negative influences on their lives. SAD runs in families: being 'genetically close' to a patient with SAD substantially increases the risk to develop the disorder.

The studies summarized in this thesis aim to broaden our knowledge of this genetic vulnerability to SAD. Using MRI scans from the unique Leiden Family Lab study on Social Anxiety Disorder, we demonstrate that alterations in the structure and function of the brain are genetically linked to the disorder. These results offer novel insights in the neurobiological pathways leading to SAD.