

1. GENERAL

Name: Posthuma
First name: Danielle
Date of birth: January, 17, 1972
Nationality: Dutch
Marital Status: Living together, three children (1997, 2003, 2007)

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2. EDUCATION

2002 PhD Psychology, Cum Laude
(Vrije Universiteit Amsterdam, The Netherlands).
Thesis Title: *Genetic Variation and Cognitive Ability*.

1996 MSc. Psychonomics, with honours
(University of Amsterdam, The Netherlands)

1996 MSc. Clinical Psychology, with honours
(University of Amsterdam, The Netherlands)

1996 MSc. Medical Anthropology
(University of Amsterdam, The Netherlands)

3. PROFESSIONAL POSITIONS

01/2011 – present Full Professor, tenured, Fenna Diemer Lindeboom chair - Center for Neurogenomics and Cognitive Research, section Functional Genomics, VU, Amsterdam, The Netherlands

01/2011– present Associate Professor, tenured, Erasmus University Rotterdam, Child and Adolescent Psychiatry, Rotterdam, The Netherlands

02/2008 – present Associate Professor, tenured, Department of Clinical Genetics, section Medical Genomics, VU Medical Centre, Amsterdam, The Netherlands

02/2010 – 01/2011 Associate Professor, tenured, Center for Neurogenomics and Cognitive Research, section Functional Genomics, VU, Amsterdam, The Netherlands

07/2006 – 01/2010 Associate Professor, tenured, Department of Biological Psychology, VU Amsterdam, The Netherlands

07/2003 – 07/2006 Assistant Professor, tenured, Department of Biological Psychology, VU Amsterdam, The Netherlands.

05/2002 – 07/2003 Post doc, fixed term, Department of Biological Psychology, VU Amsterdam, The Netherlands.

11/1996 – 05/2002 Fixed term PhD student, Dept of Biological Psychology, VU Amsterdam, The Netherlands. (0.8 fte from May 1998-May 2002),

4. PROFESSIONAL HONORS

2010 Listed in national list of **400 most succesful women under 38**

2009 **VU-ERC starting grant bonus** (for meeting the quality thresholds of ERC but not receiving funds due to budgetary reasons)

2009 Listed in national list of **400 most succesful women under 38**, presented by the Dutch Secretary of State of Science and Education, Sharon Dijksma

2008 Listed in national list of **400 most succesful women under 38**, presented by the Dutch Minister of Science and Education, Prof R Plasterk

2006	ASPASIA award (NWO) excellent women in science
2005	NWO-VIDI-Innovational Research Incentives Scheme (Vernieuwingsimpuls)
2005	JL Fuller & JP Scott Memorial Award for Early Career Outstanding Scientific Accomplishments (Behavior Genetics Association)
2005	Member of the 'Jonge Akademie' (since 2005), of the Royal Dutch Academy of Sciences (KNAW)
1999	Thompson Award for Outstanding Student Presentation (Behavior Genetics Association)

5. RESEARCH SUPPORT

Ongoing:

2010-2015	<i>Identification of synaptic gene networks in complex brain disorders using a Bayesian framework.</i> (NWO-Complexity 440k€, role: CI)
2010-2015	<i>Towards an integrative theory of the genetically mediated neural substrates of ADHD.</i> (NWO-NIHC, 500k€, role: PI)
2010-2011	<i>Developing novel methods for dealing with multiple testing and multiple phenotypes in a GWAS era.</i> (VU/VUMC Neuroscience Campus Amsterdam, 60k€, role: PI; one year postdoc position)
2010-2011	<i>Synaptic gene networks in low cognitive ability.</i> (VU/VUMC Neuroscience Campus Amsterdam, 49k€, role: co-PI; one year of a PhD project)
2010-2011	<i>Genetics of cognitive trajectories in ADHD.</i> (VU/VUMC Neuroscience Campus Amsterdam, 42k€, role: PI; grant for one year postdoc position 0.8 fte)
2009-2011	<i>Statistical algorithms for incorporation of dynamic properties of gene-networks in genetic association tests: application to human phenotype data.</i> (VU/VUMC Neuroscience Campus Amsterdam, 90k€, role: co-PI; 1,5 year postdoc position)
2009-2011	<i>Synaptic gene networks in mental retardation.</i> (VU/VUMC Neuroscience Campus Amsterdam, 21k€, role: co-PI; grant to obtain GWA arrays on MR sample)
2009-2011	<i>Presynaptic gene networks for ADHD and other common childhood disorders – I. DNA isolation.</i> (VU/VUMC Neuroscience Campus Amsterdam, 37k€, role: co-PI)n (DNA isolation of clinical ADHD sample)
2009-2011	<i>The interplay between genes and environment in cognition.</i> (VU/VUMC Neuroscience Campus Amsterdam, 25k€, PI Posthuma; (DNA isolation of cognition sample)
2009 – 2013	<i>Imaging Genetics of Intelligence: towards a neurobiological understanding of intelligence</i> (NWO – Open Competition, 207k€ (PI Posthuma)
2009 – 2010	VU-ERC Starting Grant 60k€ (for meeting the quality thresholds of ERC but not receiving funds due to budgetary reasons)
2008 – 2012	<i>Presynaptic gene networks for ADHD, anxiety disorders and other common psychiatric disorders in children and youth.</i> Sophia Stichting (CI, 234 k€)
2007 – 2012	Presynaptic gene networks in cognitive ability and attention problems. ZonMW - NWO (40-00812-98-07-032), 675k€, PI Cornelisse, role:CI, subproject 200k€)
2006 – 2010	An integrated genomic approach to finding functional variants for human attention, memory and cognition (CNCR 108.000€, PI Posthuma)
2006 – 2010	European Twin Study Network on Schizophrenia – EUTwinsS (FP6-HRM 035987. 1.8 M€ PI Nenadic, Role: CI, subproject 200k€)
2005 – 2010	Finding Genes Through the Environment NWO - MaGW Vernieuwingsimpuls (452-05-318)– VIDI (600k€, PI Posthuma) 2005-2009

Completed:

2008 – 2009	<i>An integrated approach towards understanding attention dysfunction in ADHD patients.</i> (NWO – Brain and Cognition, Joint Forces, 10k€, PI Posthuma)
2008 – 2009	<i>Epigenetic Determinants of Memory.</i> (NWO – Brain and Cognition, Joint Forces, 10k€, CI)
2009 – 2010	Visiting Professorship from KNAW (for Prof dr P Visscher, QIMR Australia 9k€)
2006 – 2009	Cluster computing in genetic linkage studies on human complex traits. NWO Medium Investment grant 480-05-003, (238k€, PI Posthuma) 2006-2008.
2007 – 2009	<i>The 2008 Summerschool on Integrating Imaging and Genetics in Cognitive Research.</i> (NWO Cognition Programme: Integratiesubsidie NWO. 20,000€ PI)
2007 – 2008	<i>Presynaptic mechanisms in cognitive ability</i> (NWO-Cognition Pilot, 50,000€ CI)
2006 – 2007	Advanced Study Initiative: Integrating Imaging and Genetics in Cognitive Research (NWO-Cognition ASI- 051-04-123, 37.825€ - PI de Geus, role: Co-PI), 2006-2007

2006	Expert Meeting on structural equation modeling for gene finding and genetic epidemiology. (460-06-021 Netherlands Organization for Scientific Research (NWO), ISW fund, 9000€, PI's Neale, Posthuma, 2006).
2005 – 2006	Determining genetic heterogeneity for attention and memory across a Dutch and Australian sample (NCF National computing Facilities Foundation (NCF)/ Netherlands Organization for Scientific Research (NWO), SG-217-05217, 170000 PNU, PI Posthuma, 2005–2006)
2002 – 2007	Genes for Attention Disorders (Centre for Neurogenomics and Cognition Research, Vrije Universiteit, Attention program, project 6, 140.000€ (PI Gerards, Witter, Boomsma, 2002–2007, role: CI)
2004 – 2005	Mapping Genes for Attention and Memory (Large Apparatus Committee of the Faculty of Psychology and Education, 18000 €, PI Posthuma, 2004–2005).
2004 – 2005	Finding Genes for Cardiovascular Disease. (NCF National computing Facilities Foundation (NCF)/Netherlands Organization for Scientific Research (NWO), 20000 PNU, PI Posthuma, 2004–2005) Computing time and access to supercomputing facilities at SARA.
2004 – 2005	Finding Genes for Attention and Memory. (National computing Facilities Foundation (NCF)/ Netherlands Organization for Scientific Research (NWO), 20000 PNU, PI Posthuma, 2004–2005) Computing time and access to supercomputing facilities at SARA.
2005	Third Workshop on Methodology for Behavior Genetics and Genetic Epidemiology: Multivariate Modelling of Genetic data, 6000€, PI Posthuma. Workshop grant EPOS research school
2004	Expert Meeting on structural equation modeling for gene finding and genetic epidemiology. (460-04-033 Netherlands Organization for Scientific Research (NWO), ISW fund, 9000€, PI's Boomsma, Posthuma, 2004).
2004	Mapping Genes for Attention and Memory. (Van Coeverden Adriani Stichting, €2300, PI Posthuma, 2004). SNP-typing of two candidate genes.
2003 – 2004	Mapping Genes for Attention and Memory (Large Apparatus Committee of the Faculty of Psychology and Education, 18000€, PI Posthuma, 2003–2004).

6. TEACHING

2008 – present	Faculty member <i>Neuroscience-I</i> Biomedical Science bachelor
2003 – present	Faculty member, Post Initial Professional Education Course <i>Genetic Epidemiology</i>
2003 – present	Faculty member, Workshop <i>Methodology of Genetic Epidemiology</i> , the Netherlands
2002 – present	Faculty member, International Workshop on Methodology of Twin and Family Studies, Boulder, Colorado
2008 – 2010	Faculty member <i>Genes and Behavior</i> , Bachelor Psychology
2007 – 2010	Faculty member Honours Course <i>Behavior Genetics</i>
2003 – 2010	Coordinator <i>Structural Equation Modelling in Genetics</i> (since 2006 <i>Statistical Genetics for Gene Finding</i>), MSc Neuroscience, VU
2003	<i>Introduction to Mx</i> , PhD students' course
2002 – 2010	Coordinator <i>Behavior Genetics</i> , MSc Neuroscience, VU
2006 – 2008	Faculty member, Bachelor Biology, VU, Course ' <i>Genomics</i> '
2005 – 2007	Faculty member, Bachelor Genomics, VU, Course ' <i>Genomics</i> '
2001	<i>Quantitative Genetics</i> , MSc, VU

7. SUPERVISION

Postdoc

2010– present	dr J Min
2010 – present	dr JC Polderman
2005 – present	dr S van der Sluis (received Veni in 2008)
2008 – 2009	dr D Ruano

PhD students

2010 – present	I Chavarria (co-promotor)
2009 – present	ES Lips (co-promotor)
2008 – present	G Beunders (co-promotor)

2007 – present	TS Rizzi (co-promotor)
2006 – 2010	AAE Vinkhuyzen (co-promotor)
2003 – 2007	MF Gosso (co-promotor)
2003 – 2007	DJA Smit (co-promotor) (received Veni in 2008)
2004 – 2007	JC Polderman (co-promotor)
2001 – 2005	N Kupper (consultant)
2002 – 2004	JH Stubbe (consultant)
2000 – 2004	JM Vink (consultant) (received Veni in 2006)
1999 – 2004	M Beekman (consultant)

Bachelor student: MIM Hoogenboom (2008)

Master students: M de Lange (1997); M Bartels (1997); M Hoff-Timmering (1997); R van Emden (1997); AS Groot (1998); V Leers (1998), H Pas (1999); A van der Waal (2000); J Langendonk (2000); S Thijs (2000); JC Polderman (2001); JAJ Vermeulen (2001); C Smit (2001); S Ozcelik (2005); L Claessen (2006); B Altink (2007); N Statia (2008); E Lips (2008); E Vreijisen (2008) ; F Vreijisen (2008)

Research Assistants

2009 – present	M Grannetia
2008 – present	M Hoogenboom
2008 – 2009	M Grit
2008 – 2009	Ö Uysal
2000 – 2002	N van Hulzen
2000 – 2002	S de Ruiter
2000 – 2001	G Meijer
1998 – 2001	J Hebly

8. ACADEMIC COLLABORATIONS

International Visit:

Feb 2001 – June 2001 Visiting PhD student, at the Virginia Institute of Psychiatric and Behavioral Genetics, Richmond, VA, USA

Annual visits (2001–) in March as a faculty member of the International Workshop on Methodology of Twin and Family Studies, Boulder, US.

Current international collaborations:

2006 – present	Department of Genetics, UNC School of Medicine, US (Prof Pat Sullivan)
1996 – present	Queensland Institute of Medical Research, Australia (Profs NG Martin/P Visscher). Cognition/statistical modelling
1996 – present	Depts of Psychiatry & Human Genetics Virginia Commonwealth University, USA. (Prof dr M Neale). Statistical modeling

Current cross-institutional national collaborations:

2008 – present	Sophia Child Hospital. Child Psychiatry (Prof F Verhulst)
2008 – present	F.C. Donders Centre for Cognitive Neuroimaging, Radboud University Nijmegen (G Fernandez/P Hagoort). Functional brain imaging analysis
1997 – present	Faculty of Psychology, University of Amsterdam (dr CV Dolan), statistical Methodology, (dr S Scholte, dr R Rouw), cognition
1996 – present	Rudolf Magnus Institute of Neuroscience, University Medical Centre Utrecht (dr HE Hulshoff Pol, dr H Schnack, dr S Durston). Structural Neuroimaging

9. ACADEMIC ORGANIZATIONAL ACTIVITIES

2009	Organizer expert meeting: Towards an integrative theory of ADHD: Current state of the art and future perspectives. KNAW – Amsterdam, April 17, 2009
2008	Organizer and host: Mini-symposium: GWA studies and beyond, VU, 31/10/2008
2008	Co-organizer and host, Anniversary Workshop Statistical Genetics, Aug 11-15, Leuven Belgium
2007	Organizer and member of the Scientific Committee of the 4-day meeting <i>Integrating Imaging and Genetics in Cognitive Research</i> , May 8-11, 2007, Royal Academy of Arts and Sciences, Amsterdam, The Netherlands (see http://www.imaginggenetics.org)

2006	Organizer and scientific director of the 4 th international expert meeting and workshop on <i>Methodology for Gene Finding and Genetic Epidemiology</i> , Egmond aan Zee, The Netherlands, Sept 11-15, 2006.
2006	Amsterdam, Royal Dutch Academy of Sciences (KNAW), Cognition: From Molecules to Mind, March 29., 2006 Symposium.
2005	Organizer and scientific director of the 3 rd international expert meeting and workshop on <i>Methodology for Gene Finding and Genetic Epidemiology</i> , Egmond aan Zee, The Netherlands, Oct 10-14, 2005.
2005	Chair of the Dutch 'Scientific Cognition Program' conference of the Netherlands Scientific Organization (NWO), Dec, 14, 2005.
2004	Chair and organizer of symposium on <i>Linkage Strategies and Successes</i> at the 34 th annual meeting of the Behavior Genetics Association, Aix-en-Provence, France, 2004
2004	Organizer of the international expert meeting and workshop on <i>Methodology for Gene Finding and Genetic Epidemiology</i> , Egmond aan Zee, The Netherlands, Oct 4-8, 2004.

10. BOARD MEMBERSHIP

2010 – present	Member of the granting and evaluation committee ZonMW TOP grants - NWO (Netherlands Scientific Organization)
2008 – present	Co-chair (together with Prof M de Gunst) of <i>Integrative Analysis and Modeling</i> platform of Neuroscience Campus Amsterdam
2008 – present	Member University Evaluation Committee, selected and installed by the Rector Magnificus, advisory board to VU Executive Board
2008 – present	Member Research School Accreditation committee, Royal Dutch Academy of Sciences (KNAW)
2006 – present	Scientific Director <i>Genetic Cluster Computer</i> (http://www.geneticcluster.org)
2006 – present	Member of the Board of Research and Ethics – Faculty of Psychology and Education, VU Amsterdam
2006 – present	Associate Editor <i>Behavior Genetics</i>
2005 – present	Editorial board member, <i>Twin Research-Human Genetics</i>
2005 – present	Board member Granting Committee Program 'Cognition' – NWO (Netherlands Scientific Organization)
2008 – 2010	Chairman Curriculum Committee (Onderwijscommissie), Master of Neuroscience
2008	Guest Editor <i>Biological Psychology</i>
2006 – 2009	Board Member of the Executive committee of the international Behavioral Genetics Association
2006	Member of the preliminary foresight committee (voor-verkeningscommissie) Cognitive Science of the Royal Dutch Academy of Sciences (KNAW)
2006 – 2007	Member of the Scientific Advisory Board of <i>Aware</i> , a bi-monthly Dutch popular Science Magazine
2005 – 2006	Guest Editor <i>Behavior Genetics</i>
2005 – 2006	Member of the Granting Committee for Large Research Facilities at the Faculty of Psychology and Education, VU Amsterdam
2004 – 2007	Board Member Curriculum Committee (Onderwijscommissie), Master of Neuroscience
2004 – 2006	Board member Curriculum and Mobility Committee, GenomEUtwin, FP6 EU project
1997 – 1998	Board Member Curriculum Committee (Onderwijscommissie), EPOS Research School

11. REVIEWER ACTIVITIES

Reviewer for several international journals:

American Journal of Human Genetics; American Journal of Medical Genetics – B: Neuropsychiatric Genetics, American Journal of Psychiatry, Annals of Medicine, Archives of General Psychiatry, Behavioral Brain Sciences, Behavior Genetics, Biological Psychiatry, Bioinformatics, Biological Psychology, BMC Medical Genetics, Clinical Neurophysiology, European Journal of Human Genetics, Human Brain Mapping, Human Genetics, Human Molecular Genetics, Journal of Medical Genetics, Neurology, Neuropsychologia, Neuroscience Letters, Perceptual and Motor Skills Psychological Reports, Plos One, Plos Genetics, Psychophysiology, Twin Research and Human Genetics.

Grants review:

Wellcome Trust, UK; Royal Dutch Academy of Sciences, Netherlands Scientific Organization, Austrian Science Fund, HRB Ireland

PhD Committee: M Bartels (2003) VU University Amsterdam; M Wainwright (2006) Queensland University, Australia, EM Byrne (2010) Queensland University, Australia

12. PAST AND CURRENT MEMBERSHIPS

American Association for the Advancement of Sciences (AAAS), American Society of Human Genetics (ASHG), Behavior Genetics Association (BGA), International Society for Twin Studies (ISTS), GeNeYous, EPOS Research School, DJA-KNAW, American Society of Human Genetics, Dutch Neurofederation.

13. OTHER

- Development and maintenance of archive of scripts for structural equation modelling using Mx software (<http://www.psy.vu.nl/mxbib>) for the analysis of genetic data.
- Webmaster for several other websites: <http://www.bga.org> ; <http://www.geneticcluster.org> ; <http://www.imaginggenetics.org> ; <http://www.genemapping.org> ; <http://www.nescog.nl>

14. POPULAR MEDIA

Selected items:

- 2010 NCRV TvGids 'Pavlov', nov 2010
- 2010 TV, Teleac Scienceflash 19-08-2010, on ScienceLive Project in Science Center Nemo
- 2010 National newspaper 'Het Parool', 07-08-2010, Interview, ScienceLive Project Science Center Nemo
- 2010 Kennislink, 04-08-2010, on ScienceLive Project in Science Center Nemo
- 2010 National Newspaper 'Spits', 06-08-2010, on Genes and Intelligence
- 2010 Radio 1 'De praktijk', 13-08-2010, on ScienceLive Project in Science Center Nemo
- 2010 Radio interview 'extra edition' Amsterdam Radio on *Intelligence and Genes*, August 5, 2010
- 2010 Interview national newspaper Volkskrant 'de Verdieping' on *Freedom*. April 2010
- 2010 Interview for Dutch book 'Wat Cognitiewetenschappers bezielt' ('*What drives cognition scientists?*') onder redactie van P Hagoort en J van Benthem, The Netherlands Scientific Organisation (NWO), The Hague.
- 2009 Panel member opening 'Darwin' year at Radio 1, 'Hoe?zo!' January 3, 2009.
- 2009 Popular Magazine *VIVA*, on succesfull Dutch women, category 'smart'
- 2008 Popular Magazine *VIVA*, on succesfull Dutch women, category 'smart'
- 2007 Interview with Bruce Bower from Science News on Breastfeeding and IQ
- 2006 Invited speaker at Life-discussion table, September 16 on *Heritability and success*. Amsterdam, Discovery'06 event
- 2003 Research discussed in Matt Ridley's popular science book *Nature via Nurture*
- 2003 Interview for ScienceNews article, feb 8 on *Essence of g: scientists search for the biology of smarts - general factor used to determine intelligence level*.
- 2002-present Research discussed at various blogs (e.g. <http://www.dana.org/> ; <http://dienekes.blogspot.com/> ; <http://feministphilosophers.wordpress.com/> ; <http://johnhawks.net/>)
- 2002 Frontpage National Newspaper Volkskrant
- 2002 Article on heritability of intelligence in 'Natuur en Techniek'
- 2002 SBS 6 - 8'o clock news, June 2002
- 2002 Provided various interviews for a.o. Radio Wereldomroep, Radio Noord Holland, Parool, Gooi- en Eemlander, Talent

15. PUBLICATIONS (SINCE 1999)

Refereed International Papers:	Total: 112	First: 20	Senior: 21
Refereed Dutch publications:	Total: 2	First: 2	Senior: 0
Book chapters:	Total: 12	First: 8	Senior: 3
Edited Books:	Total: 1	First: 0	Senior: 1
Total	Total: 127	First: 30	Senior: 25

H-Index=31; Total citations=2997 (dd. 15-6-2010, based on Google Scholar); 5 of the top 10 highly cited papers as first-author; 17 publications in journals with IF>10.

Abstracts (not listed): > 70 abstracts published since 1999 in international journals including *Behavior Genetics*, *Journal of Psychophysiology*, *Psychophysiology*, *Psychosomatic Medicine*, *Twin Research*, *Journal of Medical Genetics*.

Published papers, in chronological order: (IF = Impact Factor)

- = shared first authorship

2010

- Bosker FJ, Hartman CA, Nolte IM, Prins BP, Posthuma D, van Veen T, Willemsen G, de Rijk R, de Geus EJ, Hoogendijk WJ, Sullivan PF, Penninx BW, Boomsma DI, Snieder H, Nolen WA. Poor replication of candidate genes for major depressive disorder using genome-wide association data. ***Mol Psychiat***, in press (IF15.0)
- Brans R, Kahn R, Schnack H, van Baal C, Posthuma D, van Haren N, Lepage C, Lerch J, Collins L, Evans A, Boomsma D, Hulshoff Pol H. Brain plasticity and intellectual ability are influenced by shared genes. ***J Neurosc***, in press (IF7.5)
- Colzato LS, Waszack F, Nieuwenhuis S, Posthuma D, Hommel B The flexible mind is associated with Catechol-O-methyltransferase Val158Met polymorphism: Evidence from switching between tasks, ***Neuropsychologia***. 2010 Apr 29 (IF 4.1)
- Dupuis et al (incl D Posthuma). Novel genetic loci implicated in fasting glucose homeostasis and their impact on type 2 diabetes risk. ***Nat Genet***, 2010 Feb;42(2):105-16 (IF30.3)
- Haworth C.M.A., Wright M.J., Luciano M., Martin N.G., de Geus E.J.C., van Beijsterveldt C.E.M., Bartels M., Posthuma D., Boomsma D.I., Davis O.S.P., Kovas Y., Corley R.P., DeFries J.C., Hewitt J.K., Olson R.K., Rhea S.A, Wadsworth S.J., Iacono W.G., McGue M., Thompson L.A., Hart S.A., Petrill S.A., Lubinski D, & Plomin R. The heritability of general cognitive ability increases linearly from childhood to young adulthood. ***Mol Psychiat***, 2010, 5, 1112–1120 (IF15.0)
- Hoekstra RA, Vinkhuyzen AAE, Wheelwright S, Bartels M, Boomsma DI, Baron-Cohen S, Posthuma D, van der Sluis S. Brief report: the construction and validation of an abridged version of the Autism-spectrum quotient (AQ-short), ***J Autism Dev Disord***. 2010, PMID: 20697795 (IF3.1)
- Liu Y, Blackwood DH, Caesar S, de Geus EJ, Farmer A, Ferreira MA, Ferrier IN, Fraser C, Gordon-Smith K, Green EK, Grozeva D, Gurling HM, Hamshere ML, Heutink P, Holmans PA, Hoogendijk WJ, Hottenga JJ, Jones L, Jones IR, Kirov G, Lin D, McGuffin P, Moskvina V, Nolen WA, Perlis RH, Posthuma D, Scolnick EM, Smit AB, Smit JH, Smoller JW, St Clair D, van Dyck R, Verhage M, Willemsen G, Young AH, Zandbelt T, Boomsma DI, Craddock N, O'Donovan MC, Owen MJ, Penninx BW, Purcell S, Sklar P, Sullivan PF. Meta-Analysis of Genome-Wide Association Data of Bipolar Disorder and Major Depressive Disorder. ***Molecular Psychiatry***, 2010 Mar 30. (IF 15.0)
- Rizzi T, Arias-Vasquez A, Rommelse N, Kuntsi J, Asherson P, Banaschewski T, and Posthuma D. The ATXN1 and TRIM31 genes are related to intelligence but only in an ADHD background: Evidence from a large collaborative study totaling 4963 subjects ***AJMG-B***, in press
- Ruano D, Abecasis GR, Glaser B, Lips ES, de Jong APH, Evans DM, Davey Smith G, Timpson NJ, Smit AB, Heutink P, Verhage M, Posthuma D. Functional gene-group analysis reveals a role of synaptic heterotrimeric G-proteins in cognitive ability. ***Am J Hum Genet***, 2010;86(2):113-25. (IF10.2)
- Segrè AV; DIAGRAM Consortium; MAGIC investigators, Groop L, Mootha VK, Daly MJ, Altshuler D. Common inherited variation in mitochondrial genes is not enriched for associations with type 2 diabetes or related glycemic traits. ***PLoS Genet***. 2010;6(8). (IF 9.5)
- Smit DJA, Boersma M, van Beijsterveldt CEM, Posthuma D, Boomsma DI, Stam CJ, de Geus EJC. Endophenotypes in a dynamically connected brain. ***Behav Genet***, 10.1007/s10519-009-9330-8. Online Jan 28, 2010, (IF3.3)
- Tobacco and Genetics Consortium (incl. D Posthuma). Genome-wide meta-analyses identify multiple loci associated with smoking behavior. ***Nat Genet***. 2010 May;42(5):441-7 (IF30.3)
- van der Sluis S, Vinkhuyzen AAE, Boomsma DI, Posthuma D. Sex differences in adults' motivation to achieve. ***Intelligence***, in press
- van der Sluis S, Verhage M, Posthuma D, Dolan CV. Phenotypic complexity, poor phenotypic resolution, and measurement bias contribute to the missing heritability problem in genetic association studies, ***Plos One***, in press
- Vinkhuyzen AAE, van der Sluis S, Boomsma DI, de Geus EJC, Posthuma D. Individual Differences in the Sternberg Paradigm. ***Behav Genet***, in press, (IF3.3)

- Vinkhuyzen AAE, van der Sluis S, Boomsma DI, de Geus EJC, Posthuma D Genetic Influences on Environmental Factors. **Genes, Brain, Behav**, In press (IF3.9)
 - Vinkhuyzen AAE, van der Sluis S, Posthuma D Life Events Moderate Variation in General IQ in Adults, **Mol Psychiat**, available online Feb 16, 2010 (IF15.0)
 - Visscher PM & Posthuma D. Statistical Power to Detect Genetic Loci Affecting Environmental Sensitivity. **Behavior Genetics**, 2010 Apr 29. (IF3.3)
- 2009
- Bochdanovitz et al (incl D Posthuma). Joint re-analysis of twenty-nine correlated SNPs supports the role of PCLO/Piccolo as a causal risk factor for major depressive disorder, **Mol Psychiat**, 2009;14(7):650-2 (IF15.0)
 - Bochdanovits Z, Gosso MF, van den Berg L, Rizzu P, Polderman TJC, Pardo LM, de Geus EJC, Boomsma DI, Heutink P, Posthuma D. A functional non-synonymous polymorphism under positive evolutionary selection in the beta-2 adrenergic receptor explains phenotypic differences in intelligence among humans. **Behav Genet**, 2009;39(1):15-23. (IF3.3)
 - De Moor MHM, Liu Y, Boomsma DI, Li J, Drees BM, Hamilton JJ, Hottenga JJ, Levy S, Liu X, Pei Y, Papiasian CJ, Posthuma D, Recker RR, Sullivan PF, Wang L, Willemsen G, Yan H, Jin T, De Geus EJ, Deng H. Genome-wide association study of leisure-time exercise behavior in Dutch and American adults. **Medicine & Science in Sports & Exercise**, 2009 Sep 2. [Epub ahead of print] (IF2.9)
 - Haworth CM, Wright MJ, Martin NW, Martin NG, Boomsma DI, Bartels M, Posthuma D, Davis OS, Brant AM, Corley RP, Hewitt JK, Iacono WG, McGue M, Thompson LA, Hart SA, Petrill SA, Lubinski D, Plomin R.A twin study of the genetics of high cognitive ability selected from 11,000 twin pairs in six studies from four countries. **Behav Genet**. (doi: 10.1007/s10519-009-9262-3). (IF3.3)
 - Jonker MA, Bhulai A, Boomsma DI, Ligthart RS, Posthuma D & van der Vaart A.. (2008). Gamma frailty model for linkage analysis with application to interval censored migraine data. **Biostatistics**, 2009;10(1):187-200 (IF3.0)
 - Polderman TJ, de Geus EJ, Hoekstra RA, Bartels M, van Leeuwen M, Verhulst FC, Posthuma D, Boomsma DI. Attention problems, inhibitory control, and intelligence index overlapping genetic factors: A study in 9-, 12-, and 18-year-old twins. **Neuropsychology**. 2009;23(3):381-91 (IF3.1)
 - Pardo L, Bochdanovits Z, de Geus E, Hottenga JJ, Sullivan P, Posthuma D, Penninx BWJH, Boomsma D, Heutink P. Global similarity with local differences in linkage disequilibrium between the Dutch and HapMap CEU populations. **Eur J Hum Genet**, 2009;17(6):802-10. (IF3.9)
 - Posthuma D, de Koning DJ, Dolan CV, Goddard ME, Visscher PM. A note on permutation tests for genetic association analysis of quantitative traits when variances are heterogeneous, **Genet Epidemiol**, 2009;33(8):710-6. (IF5.2)
 - Smit DJ, Posthuma D, Boomsma DI, De Geus EJ. Phenotypic and genetic correlations between evoked EEG/ERP measures during the response anticipation period of a delayed response task. **Psychophysiology**. 2009;46(2):344-56. (IF3.3)
 - Sullivan et al., (including Posthuma D) Genomewide Association for Major Depressive Disorder: A possible role for the presynaptic protein Piccolo. **Mol Psychiat**. 2009;14(4):359-75. (IF15.0)
 - The Psychiatric GWAS Consortium. A framework for interpreting genomewide association studies of psychiatric disorders. **Mol Psychiat**, 2009;14(1):10-7 (IF15.0)
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National (refereed) journals

- Posthuma D. (2003) Erfelijkheid en intelligentie. (2003), **Neuropraxis**, 7(3), 83-88 (Dutch).
- Posthuma D, Lange, A. (1999). Positieve zelfverbalisatie bij opgenomen patienten; een pilot-onderzoek. **Directieve Therapie**, 3. 134-145. (in Dutch)

Books, or contributions to books

- 2010 Vinkhuyzen AAE, van der Sluis S, Posthuma D. Behavior Genetics. In: Integrative Clinical Psychology, Psychiatry, and Behavioral Medicine: Perspectives, Practices, and Research, Ed. Roland A. Carlstedt
- 2009 Nelis A & Posthuma D. *Zoek de verschillen ... Over intelligentie, erfelijkheid en tweelingenonderzoek. in: de Maakbare Mens, onder redactie van Koops, Nelis, Sieburgh, Luty. Center for Society and Genomics, Nijmegen (in Dutch)*
- 2009 Posthuma D. Multivariate Genetic Analysis. In: Handbook of Behavior Genetics. Yong Kyu Kim, Ed. Springer, 2009
- 2009 Posthuma D, de Geus EJC, Deary IJ. The genetics of intelligence. In: The Genetics of Cognitive Neuroscience. *Terry Goldberg & Daniel Weinberger, Eds.* MITT Press.
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- 2008 Posthuma D, & de Geus E. (2008). The Genetics of Information Processing Speed in Humans. In: J DeLuca and J Kalmar (Eds.). Processing Speed in Clinical Populations, Taylor and Francis, pp. 79-100
- 2007 van der Sluis S, and Posthuma D. Single Locus Association Models. In: *Dissection of complex trait variation through linkage and association.* Editors: M Ferreira, B Neale, SE Medland, D Posthuma. Taylor & Francis, UK, pp. 323-354
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 - 2005 Boomsma D, Willemsen G, De Geus E, Kupper N, Posthuma D, IJzerman R, Heijmans B, Slagboom E, Beem L, Dolan C (2005). Twins and the fetal origins hypothesis: An application to growth data. In: *Hormones and the Brain*, C. Kordon, R.C. Gaillard, Y. Christen (Eds.), 29-46, Springer.
 - 2002 Posthuma D, Bartels M, Boomsma DI. (2002). De gedragsgenetische benadering van veroudering. In: Schroots, J.J.F. (Red.) *Handboek psychologie van de volwassen ontwikkeling en veroudering*. Assen: Van Gorcum. (Dutch) p.137-155.
 - 2002 Posthuma D, de Geus EJC, Boomsma DI. (2002). Genetic contributions to anatomical, behavioural, and neurophysiological indices and cognition. In: R. Plomin, J.C. deFries, I.C. Craig, & P. McGuffin (Eds.). *Behavioral genetics in the postgenomic era*. Washington, DC. APA Books. 2002. p.141-162.

Edited Books:

- 2007 *Statistical Genetics: Gene Mapping Through Linkage and Association*. (2007) Eds. Neale, Ferreira, Medland, Posthuma. Taylor and Francis, London, UK. (ISBN 9780415410403)

Other

- 2006 Voorstudie verkenning Cognitie. Gielen S, Posthuma D, Murre J, Wijnen F, Hilberdink K. Intern rapport In opdracht van de KNAW en de commissie Cognitiewetenschappen KNAW. (in Dutch)

16. INVITED LECTURES – (SELECTION)

- 2010 Keynote lecture: *Genetic foundations of human intelligence*. 2010 Conference on Genetics and Neurobiology of Mental Retardation, Sept 29 - Oct 2, 2010, Erlangen, Germany.
- 2010 *Functional genetic pathways and their role in psychopathology*, Rotterdam, Symposium on 'Neuroimaging, genetics and endophenotypes; Sept 2, 2010
- 2010 *Cluster computing in human genetics*. SARA computing centre Amsterdam, Annual LISA user's day. 18/05/2010
- 2010 *Gene Finding for complex traits: synaptic mechanisms in cognition*. Netherlands Institute for Neurosciences Lecture Series. 14/04/2010
- 2010 *Functional gene networks for complex traits: synaptic mechanisms in cognition* UMCG seminar Series, Groningen. 08/04/2010
- 2010 *Multivariate Genetic Modelling*, The 2010 International Workshop on Statistical Genetics and Methodology of Twin and Family Studies, March 1-5, Boulder, CA, USA
- 2010 *Synaptic Mechanisms in Complex Traits*. Systems Biology Meeting, 19-02-2010, Amsterdam
- 2010 *Genes, Environment and Intelligence*. Annual Meeting of *Determinants of Executive Function & Dysfunction* - An NIMH Funded Interdisciplinary Behavioral Science Center, 14&15-01-2010, Boulder, Colorado, US
- 2009 *Biological pathways underlying individual differences in cognitive ability*. Wintercongres NVP, Egmond aan Zee, 18/12/2009, Amsterdam, The Netherlands
- 2009 *Functional synaptic gene groups and complex traits: application to cognition*. EUSYNAPSE meeting Gottingen, Germany, 13/11/2009
- 2009 *The search for genes with the Genetic Cluster Computer*. VU Supercomputing symposium, 17/09/2009, Amsterdam, The Netherlands
- 2009 *Functional Gene Networks*, The 2009 International Workshop on Statistical Genetics and Methodology of Twin and Family Studies, March 2-6, Boulder, CA, USA
- 2009 *Genetic Imputation*, The 2009 International Workshop on Statistical Genetics and Methodology of Twin and Family Studies, March 2-6, Boulder, CA, USA
- 2008 *Key Concepts and methods in genetics*, Max Planck Institute Nijmegen, MPI Colloquium series, November 25
- 2008 *Individual Differences in Neuroscience*, UvA Amsterdam, October 17
- 2008 *Presynaptic gene networks in intelligence*, Leuven, August 15
- 2008 *Genetics of Cognition*, Leids Institute of Brain and Cognition, April
- 2007 *FC Donders, Nijmegen Colloquium*

2006 Amsterdam, VU University, Symposium VU-society, December 21
2006 Almere, Opening Ceremony AlmereGrid, September, 27
2006 Amsterdam, Discovery'06 event, Life-discussion table, September 16
2006 Amsterdam, Royal Dutch Academy of Sciences (KNAW), Symposium on Cognition: From Molecules to Mind, March 29
2006 Rotterdam, Sophia Child Hospital, Colloquium, May 3
2006 Leiden, Leiden University, Seminar on Evolution, April 5
2006 Boulder, Colorado The 19th International Workshop on Methodology of Twin and Family Studies, March 6-10
2005 The Hague, Netherlands Scientific Organization, Cognition day, December 14
2005 Hollywood, USA, 35th Annual Meeting of the Behavior Genetics Association. July 01
2005 Boulder, Colorado. The 18th International Workshop on Methodology of Twin and Family Studies, March 7-11
2004 Amsterdam, VU University, CNCR Attention and Memory Projects meeting, January 29.
2004 Leiden, Statistical Core Meeting, GenomEUtwin, May 21
2004 Amsterdam, Statistics for Genetics Meeting, May 18
2004 Doorwerth, 3rd Dutch Endo-Neuro-Psycho Meeting, June 1
2004 Boulder, Colorado. The 17th International Workshop on Methodology of Twin and Family Studies, March 1-5
2004 Rome, GenomEUtwin meeting, December 14
2003 Amsterdam, VU University Amsterdam, Facultair Colloquium, October 08
2002 Washington DC, USA, 42nd Annual Meeting Society for Psychophysiological Research (SPR), October 3
2002 Boulder, Colorado. The 15th International Workshop on Methodology of Twin and Family Studies, March 4-8
2002 Amsterdam, EPOS research school, April 26
2002 Doorwerth, First Dutch Endo-Neuro_Psycho Meeting, June 07
2001 Cambridge, 31st Annual Meeting of the Behavior Genetics Association, July 09
2000 Amsterdam, FEPS, May 26
1999 Vancouver, 29th Annual Meeting of the Behavior Genetics Association, July 04