

Curriculum vitae

Stephan C.J. Huijbregts, PhD
Department of Clinical Child and Adolescent Studies
Leiden University
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Personal

Date of birth: 16-2-1971 (Bergen op Zoom, The Netherlands)
Marital status: married with Ymke Huijbregts-Kegels
Children: Lucas (1999) and Sarah (2004)

Master's ('Doctoraal')

University/College of Higher Education: Leiden University
Date (dd/mm/yy): 31/08/1995
Main subject: Cognitive and Experimental Psychology

Doctorate

University/College of Higher Education: Vrije Universiteit Amsterdam, Dept. of
Clinical Neuropsychology
Date (dd/mm/yy): 30/05/2002
Supervisor ('Promotor'): Prof. Joseph A. Sergeant; co-promotores: Dr. Ir. Leo M.J. de
Sonneville, Dr. Robert Licht, and Dr. Francjan van Spronsen
Title of thesis: Attention and Information Processing in Early and Continuously
Treated Phenylketonuria

Work experience

2006-present:	Assistant professor (1.0 fte, tenured term), Clinical Child and Adolescent studies <i>Leiden University</i>
2010-present:	Senior Researcher, Leiden Institute for Brain and Cognition (LIBC) <i>Leiden University Medical Center</i>
2005-2008:	Honorary Research Fellow <i>Southampton University Hospitals Trust (UK)</i>
2004-2006:	Assistant professor (1.0 fte, tenured term), School of Psychology, Developmental Brain-Behaviour Unit <i>University of Southampton (UK)</i>
2003-2004:	Post-doctoral researcher (1.0 fte, fixed term), Research Unit on Children's Psychosocial Maladjustment <i>University of Montreal (Canada)</i>
2002:	Post-doctoral researcher (1.0 fte, fixed term), Department of Neurology <i>Vrije Universiteit Medical Center, Amsterdam</i>
1997-2002:	PhD-student (1.0 fte, fixed term), Department of Clinical Neuropsychology <i>Vrije Universiteit Amsterdam</i>

- 1995-1996: Research Assistant (1.0 fte, fixed term), Department of Neurology, *University Medical Center Rotterdam* and Department of Cognitive and Experimental Psychology, *University of Oxford (UK)*
- 1995: M.A. in Cognitive and Experimental Psychology
Leiden University

(Co-)supervision of PhD-students:

- Iris Rowbotham (University of Southampton): Friendship in children with Neurofibromatosis Type 1: An exploratory study of deficit and possible underlying causes (graduation: 31-7-2012)
- Merel Griffith-Lendering (Leiden University): Cannabis use, cognition and behavior (graduation: 28-3-2013)
- Neely-Anne Davidse (Leiden University): Links between executive functions and early literacy and numeracy (graduation: 25-6-2014)
- Rianne Jahja (University Medical Center Groningen): Executive and social functioning in adolescents and young adults with PKU: A follow-up study after 10 years (projected graduation 2016)
- Jill Suurland (Leiden University): “A Good Start: Early intervention to prevent offspring psychopathology and antisocial behavior” (projected graduation 2016)
- Hanneke Smaling (Leiden University): “A Good Start: Early intervention to prevent offspring psychopathology and antisocial behavior” (projected graduation 2016)
- Malou Noten (Leiden University): “A Good Start: Early intervention to prevent offspring psychopathology and antisocial behavior” (projected graduation 2018)
- Dide van Adrichem (Leiden University): “A Good Start: Early intervention to prevent offspring psychopathology and antisocial behavior” (projected graduation 2019)
- Wiggert van Ginkel (University Medical Center Groningen, MD-PhD): “Understanding brain dysfunction in Tyrosinemia Type 1” (projected graduation 2020)

Academic activities

Teaching and mentoring

Qualifications/Registrations

- Basic Teaching Qualification Higher Education, Leiden University
- Coaching PhD-students, Aletta Wubben -foundation, Leiden University
- Postgraduate Certificate in Academic Practice in Higher Education, University of Southampton, United Kingdom
- Training programme for PhD-candidates at the Graduate Research Institute for Experimental Psychology (1997-2002)

2015-present: Developmental Clinical Neuroscience (continuation of

	Neurodevelopmental Assessment and Treatment for Research Masters & Masters Applied Neurosciences): (Curriculum development, coordination, and lecturing)
2007-2015:	Neurodevelopmental Assessment and Treatment, Research Master's course (Curriculum development, coordination, and lecturing)
2007-present:	Clinical Assessment and Treatment, Master's specialization - Neuroscience (Curriculum development and lecturing)
2008-present:	Supervision of Research Master's theses (plus coordination for Dept. of Clinical Child and Adolescent Studies - Neurodevelopmental Disorders).
2006-present:	Supervision of Master's theses (plus coordination for Dept. of Clinical Child and Adolescent Studies - Neurodevelopmental Disorders). Prize: best 2008 Master's thesis, awarded by the Dutch Neuropsychological Society to P.S. Barneveld for <i>Executive functioning in 6-to-10-year-old children born with Intrauterine Growth Restriction and influence of COMT-gene polymorphism.</i>
2006-present:	Bachelor-project supervision (plus coordination for Dept. of Clinical Child and Adolescent Studies - Neurodevelopmental Disorders)
2008-2011:	Developmental Psychopathology in Adolescence, Research Master's course (Curriculum development, coordination, and lecturing)
2007-2009:	Pervasive Cognitive and Emotional Disorders, Research Master's course (Lecturing)
2006-2007:	Clinical and Psychometric Assessment, Bachelor's third year course (Lecturing)
2004-2006:	Research Methods and Data Analysis III, Bachelor's second year course (University of Southampton) (Curriculum development, coordination, and lecturing)
2004-2006:	Clinical Neuroscience, Bachelor's third year (University of Southampton) (Curriculum development, coordination, and lecturing)
2004-2006:	Thinking psychologically, Bachelor's first year (University of Southampton) (Mentoring)
2005-2006:	Supervision Bachelor's and Master's theses (University of Southampton)
2004-2006:	Second-year tutor (Bachelor's Mentoring) (University of Southampton)
2001-2002:	Supervision of Master's theses (Vrije Universiteit Amsterdam)

Total number of finished thesis supervisions: approximately 175 Master's- and Research Master's theses; approximately 100 Bachelor's theses

Other teaching Hormones & Behavior, postgraduate education in Clinical Neuropsychology (RINO, Utrecht, 2014) (Curriculum development, lecturing)

Author PKU E-learning module: Neurocognitive Outcomes, Chapter 1:

“Neurocognitive assessments in PKU and pattern of cognitive dysfunction”; and Chapter 2: “Associations between phenylalanine levels and cognitive outcomes in treated PKU”. For: PKU Academy (2012).

Management and Administration

- 2013-present: Member of Executive Committee of The Society for the Study of Behavioural Phenotypes (SSBP)
- 2014-present: Member of Executive Committee of Netherlands Organization for Scientific Research (NWO), NIHC Baby Brain & Cognition-network.
- 2010-present: Coordination (with Prof. Dr. Hanna Swaab, Prof. Dr. Stephanie van Goozen, and Dr. Kristiaan van der Heijden) of FES/Safe Brain Innovative Project: Mother-Infant Neurodevelopment Study (MINDS-Leiden) (“Een Goed Begin: vroege preventie van antisociaal gedrag”)
- 2008-2011: Coordination of Leiden Satellite’s activities for Curious Minds Program
- 2006-present: Member of Departmental and Institutional Board, Education and Child Studies, Leiden University
- 2006-2013: Coordination of Master’s and Bachelor’s theses for section Neurodevelopmental Disorders, Clinical Child and Adolescent Studies, Leiden University
- 2006-present: Coordination of Research Master, Developmental Psychopathology, Education and Child Studies, Leiden University; specifically courses Neurodevelopmental Assessment and Treatment and Developmental Psychopathology in Adolescence
- 2004-2006: Member of Undergraduate Program Board, School of Psychology, University of Southampton (UK)
- 2004-2006: Coordination of Research Methods and Data Analysis III and Clinical Neuroscience, University of Southampton (UK)

Symposium and workshop (co-)organization

City of Leiden Congress Ambassador (2014-2019)

Symposium: Perinatal risk factors for abnormal cognitive and social development, Leiden 2015, sponsored by NWO (The Netherlands Organisation for Scientific Research) NIHC Baby Brain & Cognition Network

Symposium: Regulatory mechanisms and their neural substrates in aggression and antisocial behavior, Amsterdam 2013, International Neuropsychological Society

Workshop: Executive functioning in Phenylketonuria, Istanbul 2013, Sero Symposia International Foundation

Symposium: A Good Start, with societal partners, Leiden 2012; Leiden University

Symposium: Executive functioning in children and adolescents with psychopathology, Leiden 2012; Stadsgehoorzaal (in honor of Dr. Ir. Leo de Sonnevillè's retirement)

Workshop: Living with Phenylketonuria, Warsaw 2011, European Society for Phenylketonuria

Symposium: Neuroanatomical, neurobiological, behavioral, and cognitive correlates of prenatal tobacco exposure: An integrative approach, Montreal 2011, Society for Research in Child Development Biennial Meeting

Symposium: Structural Brain Development, Southampton 2006, School of Psychology, University of Southampton

Symposium: PKU: Brain-Behavior Sequelae, Amsterdam 2002, sponsored by Nutricia Nederland BV

Research schools and professional associations

Full membership:

- Institute for the Study of Education and Human Development (ISED)
- Dutch Society for Neuropsychology (Nederlandse Vereniging voor Neuropsychologie, NVN)
- International Neuropsychological Society (INS)
- Society for Research in Child Development (SRCD)
- Society for the Study of Behavioral Phenotypes (SSBP)
- Senior Researcher at the Leiden Institute for Brain and Cognition (LIBC); member of hotspots LIBC-Junior and LIBC-Social
- Nationaal Initiatief Hersenen & Cognitie (NIHC): Baby Brain & Cognition Network (Executive Committee)

Research Collaborations

- Prof. Dr. Serge Rombouts (Leiden University Medical Center, Leiden Institute for Brain and Cognition), Prof. Dr. Mark van Buchem (Leiden University Medical Center, Radiology), Dr. Ilya Veer (Charité-Universitätsmedizin, Berlin, Leiden Institute for Brain and Cognition), Dutch Neurofibromatosis Society: Structural and functional brain connectivity in relation to cognitive and social functioning in Neurofibromatosis Type 1.
- Prof. Dr. Edmund Sonuga-Barke (University of Southampton, UK; Ghent University, Belgium), Prof. Dr. Anna Jansen (University Hospital Brussels, Belgium), (Dr. Iris Rowbotham (Open University, UK). Social and social-cognitive functioning in adolescents with Neurofibromatosis Type 1.
- Prof. Dr. Claartje Levelt (Leiden University), Dr Szilvia Biro (Leiden University), Prof. Dr. Judit Gervain (Paris Descartes), Dr. Sarah Lloyd-Fox (Birkbeck, University of London), Dr. Alex Cristia (Max Planck Institute for

Psycholinguistics, Nijmegen), and the European NIRS Network. Infant studies in social cognition and language development with Near-Infrared Spectroscopy.

- Prof. Dr. Dale Hay (Cardiff University, UK), Prof. Dr. Stephanie van Goozen (Cardiff University, UK), Dr. Maaïke Cima (Radboud University Nijmegen), Prof. Dr. Arne Popma (Leiden University and De Bascule, Amsterdam): Stress, cognition, and aggression.
- Child and Adolescent Mental Health Institutions Curium (Leiden), Jutters (The Hague), GGZ Rivierduinen (Gouda), Entrea (Nijmegen, Doetinchem), Mediant (Enschede), and Lindenhout (Arnhem, Ede-Wageningen): Cognition-based interventions for instrumental and affective aggression.
- Prof. Dr. Jean Séguin, Prof. Dr. Michel Boivin, Prof. Dr. Richard Tremblay (University of Montreal), Prof. Dr. Philip David Zelazo (University of Michigan), Prof. Dr. Tomas Paus (University of Toronto): Cognitive and behavioral effects of prenatal tobacco exposure.
- Prof. Dr. Francjan van Spronsen (University Medical Center Groningen), David Abeln (Dutch PKU Society), Prof. Dr. Jaap van der Meere (Groningen University); Prof. Dr. Eddy van der Zee (University Medical Center Groningen): Cognition, neurobiology, and treatment of Phenylketonuria and Tyrosinemia Type 1.
- Dr. Erik Boot, Prof. Dr. Carla Hollak, Dr. Annet Bosch, Prof. Dr. J. Booij, Dr. N. Abeling, Dr. A. Nederveen (all Academic Medical Center, University of Amsterdam): Phenylketonuria: dopamine transmission and relationship with phenylalanine levels and cognitive performance in adults – a pilot study

Reviewer

Ad hoc reviewer for: *Neuropsychology, Journal of Child Psychology and Psychiatry, Journal of the International Neuropsychological Society, Pediatrics, Journal of Abnormal Child Psychology, Child Development, Infant and Child Development, Developmental Neuropsychology, Canadian Journal of Criminology and Criminal Justice, Psychiatry Research, Social Development, Journal of Affective Disorders, Acta Paediatrica, Developmental Psychology, Psychoneuroendocrinology, Developmental Medicine and Child Neurology, Journal of Intellectual Disability Research, Psychological Medicine, Biological Psychiatry, Brain Imaging and Behavior, Drug and Alcohol Dependence, Journal of Neurodevelopmental Disorders, American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, American Journal of Medical Genetics Part A, Developmental Psychobiology, Journal of Clinical and Experimental Neuropsychology, BMC Psychiatry*

Editorial Board: *Social Development*

Reviewer for: The Netherlands Organization for Health Research and Development (ZonMW), 2008-present

International Society for the Study of Behavioural Development, 2012 Biennial Meeting (Edmonton, Alberta, Canada)

Piet Vroon Popular-science Prize 2009-2012

Society for the Study of Behavioural Phenotypes, 2014: 17th SSBP International Research Symposium: Developmental Trajectories of Behavioural Phenotypes (New York, USA) (member of Scientific Committee)

Society for the Study of Behavioural Phenotypes, 2015: 18th SSBP International Research Symposium: Behavioural Phenotypes from Bench to Bedside: Translation of Basic Science to Clinical Practice (London, UK) (member of Scientific Committee & Chair of session *Gene Dosage Effects on Cognition and Behavior*)

Exam committee PhD's

Lisa Kate Mundy. "Infant attention, motor activity and cardiac activity and the effects of prenatal smoke exposure." School of Psychology, Cardiff University, UK. Supervisor: Prof. Dr. Stephanie van Goozen. Viva: 15-12-2009.

Regina Stoutjesdijk. "Children with emotional and behavioral disorders in special education: Placement, progress, and family functioning." Clinical Child and Adolescent Studies, Leiden University, The Netherlands. Supervisor: Prof. Dr. Evert Scholte. PhD-defense: 16-1-2014.

Elske Hidding. "Neurocognitive mechanisms and vulnerability to autism and ADHD symptoms in the 22q11.2 deletion syndrome." Clinical Child and Adolescent Studies, Leiden University, The Netherlands. Supervisors: Prof. Dr. Hanna Swaab, Dr. Leo de Sonneville, Dr. Jacob Vorstman. PhD-defense: 10-6-2015.

Marcia Goddard. "X marks the Spot. Structural and functional brain mapping in a genetically defined group at high risk of autism symptoms (47, XXY), and a comparison with idiopathic autism spectrum disorder." Clinical Child and Adolescent Studies, Leiden University, and Leiden Institute for Brain and Cognition, The Netherlands. Supervisors: Prof. Dr. Hanna Swaab, Prof. Dr. Serge Rombouts. PhD-defense: 11-11-2015.

Consultancy/Advisory Boards

Consultant for Merck Serono S.A., Geneva, Switzerland (2010-2014). “The effects of sapropterin dihydrochloride on executive function in Phenylketonuria”.

Consultant for Nutricia Research, Utrecht, The Netherlands (2013). “The PKU Neuroprotection-project”.

Member of Medical Advisory Board (2011-present). Dutch Neurofibromatosis Association.

Member of Advisory Board “Health care standards for Neurofibromatosis Type 1” (2013-2014).

Member of Advisory Board for Development of European Guidelines for Treatment of Phenylketonuria (2012-present). European Society for PKU.

Scholarships and prizes

Grants:

- 2015-2020: University Medical Center Groningen: MD/PhD-grant for Wiggert van Ginkel (project: “Understanding brain dysfunction in Tyrosinemia Type 1”). (with Prof. Dr. F.J. van Spronsen and Prof. Dr. E.A. van der Zee).
- 2015-2016: Academic Assistantships for Dide van Adrichem (2014), Merel van Vliet (2014), Nienke Bouw (2015) and Ruth Zandvliet (2016) (project: “A Good Start: Early intervention to prevent offspring psychopathology and antisocial behavior”)
- 2014-2016: Dutch Neurofibromatosis Association (Neurofibromatose Vereniging Nederland): Cognitive and social functioning of individuals with NF1 (consolidation grant). (PI, collaborators: Prof. Dr. S.A. Rombouts, Dr. I.M. Veer, Dr. M. Loitfelder, Dr. I. Rowbotham, Dr. M. Acosta, and Prof. Dr. M.A. van Buchem) (€10.000)
- 2014-2015: Erwin Schrödinger Fellowship-grant for Dr. Marisa Loitfelder, (post-doc grant). Structural and functional brain connectivity in Neurofibromatosis Type 1: Associations with executive and social functioning. (co-PI with Prof. Dr. S. A. Rombouts) (€50.000)
- 2013-2016: Leiden University Fund/Gratama Foundation (Leids Universiteits Fonds/Gratama Stichting): Prenatal Tobacco Exposure, Regional Brain Development, and Social Cognition: A Study with Near-Infrared Spectroscopy (co-PI with Dr. S. Biro and Prof. Dr. C. Levelt) (€25.000)

- 2011-2015: Leiden Institute for Brain and Cognition (LIBC), Interdisciplinary start-up projects within Research Profile Area *Brain Function and Dysfunction over the Lifespan*: Prenatal Tobacco Exposure and Infant Cognition: A Study with Near-Infrared Spectroscopy (PI, co-applicants: Dr. C. Levelt and Dr. S. Biro) (€50.000)+ €16.000 (from Education and Child Studies, Leiden University)
- 2011-2016: St. Joris Foundation. Clouds over Tyrosinemia type I: Outcome can be improved. (co-PI with Prof. Dr. F.J. van Spronsen) (€30.000)
- 2011-2014: NutsOhra Research Funding and Dutch Phenylketonuria Association: Executive function in adolescents and young adults with PKU: A follow-up study after 10 years. (co-PI with Prof. Dr. F.J. van Spronsen, collaborators: Dr. Ir. L.M.J. De Sonnevile, Prof. Dr. J.J. Van Der Meere) (€150.000) (PhD-grant for Rianne Jahja)
- 2009-2012: Dutch Neurofibromatosis Association (Neurofibromatose Vereniging Nederland): Structural and functional connectivity in relation to cognitive and social functioning of children and adolescents with Neurofibromatosis Type I (PI, collaborators: Prof. Dr. M.A. van Buchem, Prof. Dr. S.A.R.B. Rombouts, I.M. Veer) (€10.000)
- 2008-2011: Leiden University Fund/Gratama Foundation (Leids Universiteits Fonds/Gratama Stichting): Stress and problem behavior in children of mothers who smoked during pregnancy (PI, collaborators: Prof. Dr. S.H.M. van Goozen and Dr. M. Tops) (€22.500)
- 2008-2011: Curious Minds (Talentenkracht): Adaptive function, social cognition and academic achievement in school starters (PI: Prof. Dr. H. Swaab-Barneveld) (€400.000)
- 2004-2006: HOPE Medical Research - Innovation Fund (UK): Effects of chronic and acute inflammation on cognition and behavior of school-aged children with asthma (co-PI with Prof. Dr. J.O. Warner) (£10.000)
- 2005-2009: Economic and Social Research Council (ESRC) (UK): Neurocognitive and psychosocial aspects of Neurofibromatosis Type I (co-PI with Prof. Dr. E.J.S. Sonuga-Barke) (PhD-grant for Iris Rowbotham)

Prize:

Winner of the Teva/Aventis Young Investigator Award for Multiple Sclerosis Research (2004). Awarded at European Charcot Foundation Symposium, Taormina, Sicily, Italy

List of publications

- Smaling, H. J. A., **Huijbregts, S. C. J.**, Suurland, J., Van der Heijden, K. B., Mesman, J., Van Goozen, S. H. M., & Swaab, H. (2016). Prenatal reflective functioning and maternal interactive behavior during free play, the Still-Face Paradigm, and two teaching tasks. *Infancy*, *in press*. (IF 2.8)
- Suurland, J., Van der Heijden, K. B., Smaling, H. J. A., **Huijbregts, S. C. J.**, Van Goozen, S. H. M., & Swaab, H. (2016). Maternal risk status predicts autonomic nervous system reactivity and recovery in infants. *Development and Psychopathology*, *in press*. (IF 5.0)
- Huijbregts, S.C.J.**, Loitfelder, M., Rombouts, S.A., Swaab, H., Verbist, B.M., Arkink, E.B., Van Buchem, M.A. & Veer, I.M. (2015). Cerebral volumetric abnormalities in Neurofibromatosis Type 1: Associations with parent-ratings of social and attention problems, executive dysfunction and autistic mannerisms. *Journal of Neurodevelopmental Disorders*, *7*, 32. (IF 3.7)
- Suurland, J., Van der Heijden, K.B., **Huijbregts, S.C.J.**, Smaling, H.J.A., De Sonnevile, L.M.J., Van Goozen, S.H.M., & Swaab, H. (2015). Parental perceptions of aggressive behavior in preschoolers: inhibitory control moderates the association with negative emotionality. *Child Development*, *Epub ahead of print* (DOI: 10.1111/cdev.12455). (IF 4.8)
- Loitfelder, M., **Huijbregts, S.C.J.**, Veer, I.M., Swaab, H.S., Van Buchem, M.A., Schmidt, R., & Rombouts, S.A. (2015). Functional connectivity changes and executive and social problems in Neurofibromatosis Type 1. *Brain Connectivity*, *5*, 312-320.
- Smaling, H. J. A., **Huijbregts, S. C. J.**, Suurland, J., Van der Heijden, K. B., Van Goozen, S. H. M., & Swaab, H. (2015). Prenatal Reflective Functioning in primiparous women with a high-risk profile. *Infant Mental Health Journal*, *36*, 251-261. (IF 1.1)
- Liemburg, G.B., Jahja, R., De Sonnevile, L.M.J., Van der Meere, J.J., Bosch, A.M., Hollak, C.E.M., Estela Rubio-Gozalbo, M., Brouwers, M.C.G.J., Hofstede, F.C., De Vries, M.C., Janssen, M.C.H., Van der Ploeg, A.T., Langendonk, J.G., Van Spronsen, F.J., & **Huijbregts, S.C.J.** (2015). Is BRIEF a useful instrument in day to day care of patients with Phenylketonuria? *Molecular Genetics and Metabolism*, *114*, 425-430. (IF 3.5)
- Huijbregts, S.C.J.**, Griffith-Lendering, M.F.H., Vollebergh, W.A.M., & Swaab-Barneveld, H. (2014). Neurocognitive moderation of associations between cannabis use and psychoneuroticism. *Journal of Clinical and Experimental Neuropsychology*, *36*, 794-805. (IF 2.5).
- Jahja, R., **Huijbregts, S.C.J.**, De Sonnevile, L.M.J., Van der Meere, J.J., & Van Spronsen, F.J. (2014). Neurocognitive evidence for revision of treatment targets and guidelines for Phenylketonuria. *Journal of Pediatrics*, *164*, 895-

899. (IF 4.0).

Jahja, R., **Huijbregts, S.**, De Sonnevile, L., Van der Meere, J., Bosch, A., Hollak, C., Rubio-Gozalbo, E., Brouwers, M., Hofstede, F., De Vries, M., Janssen, M., Van der Ploeg, A., Langendonk, J., & Van Spronsen, F. (2013). Mental health and social functioning in early-treated Phenylketonuria: The PKU-COBESO study. *Molecular Genetics and Metabolism*, *110*, S57-S61. (IF 3.5).

Huijbregts, S.C.J., Gassió, R., & Campistol, J. (2013). Executive functioning in context: Relevance for treatment and monitoring of Phenylketonuria. *Molecular Genetics and Metabolism*, *110*, S25-S30. (IF 3.5).

Griffith-Lendering, M.F.H., Wigman, J.T.W., Prince van Leeuwen, A., **Huijbregts, S.C.J.**, Huizink, A.C., Ormel, J., Verhulst, F.C., van Os, J., Swaab, H., & Vollebergh, W.A.M. (2013). Cannabis use and vulnerability for psychosis in early adolescence: a TRAILS Study. *Addiction*, *108*, 733-740. (IF 4.3).
(Shortlisted for European Monitoring Centre for Drugs and Drug Addiction (EMCDDA) Scientific Paper Award)

Huijbregts, S.C.J. (2012). Cognitive-behavioral Phenotype or Comorbid Disorder? The Case of Attention-Deficit/Hyperactivity Disorder in Neurofibromatosis Type 1. *Developmental Medicine & Child Neurology*, *54*, 873-874. (IF 3.0).

Griffith-Lendering, M.F.H., **Huijbregts, S.C.J.**, Vollebergh, W.A.M., & Swaab, H. (2012). Motivational and cognitive inhibitory control in recreational cannabis users. *Journal of Clinical and Experimental Neuropsychology*, *34*, 688-697 (IF 2.5).

Van Spronsen, F.J., **Huijbregts, S.C.J.**, Bosch, A.M., & Leuzzi, V. (2011). Cognitive, neurophysiological, neurological and psychosocial outcomes in early-treated PKU-patients: A start towards standardized outcome measurement across development. *Molecular Genetics and Metabolism*, *104*, S45-S51 (IF 3.5).

De Sonnevile, L.M.J., **Huijbregts, S.C.J.**, Licht, R., Sergeant, J.A., & Van Spronsen, F.J. (2011). Pre-attentive processing in children with early and continuously-treated PKU. Effects of concurrent Phe level and lifetime dietary control. *Journal of Inherited Metabolic Disease*, *34*, 953-962. (IF 4.1).

Griffith-Lendering, M.F.H., **Huijbregts, S.C.J.**, Huizink, A.C., Ormel, J., Verhulst, F.C., Vollebergh, W.A.M., & Swaab, H. (2011). Social skills as precursors of cannabis use in young adolescents: A TRAILS-study. *Journal of Clinical Child and Adolescent Psychology*, *40*, 706-714. (IF3.4)

Huijbregts, S.C.J., Van Berkel, S.R., Swaab-Barneveld, H.S., & Van Goozen, S.H.M. (2011). Neurobiological and behavioral stress reactivity in children prenatally exposed to tobacco. *Psychoneuroendocrinology*, *36*, 913-918. (IF 5.6)

Huijbregts, S.C.J. & De Sonnevile, L.M.J. (2011). Does cognitive impairment explain behavioural and social problems of children with Neurofibromatosis

Type 1? *Behavior Genetics*, 41, 430-436. (IF 3.3)

Griffith-Lendering, M.F.H., **Huijbregts, S.C.J.**, Mooijaart, A., Vollebergh, W.A.M., & Swaab, H. (2011). Cannabis use and development of externalizing and internalizing behavior problems in early adolescence: A TRAILS-study. *Drug and Alcohol Dependence*, 116, 11-17. (IF 3.6)

Davidse, N.J., de Jong, M.T., Bus, A.G., **Huijbregts, S.C.J.**, & Swaab, H. (2011). Cognitive and environmental predictors of early literacy skills. *Reading and Writing*, 24, 395-412. (IF 1.0)

Huijbregts, S.C.J., Jahja, R., De Sonnevile, L.M.J., De Breij, S. & Swaab-Barneveld, H. (2010). Social information processing in children and adolescents with Neurofibromatosis Type 1. *Developmental Medicine & Child Neurology*, 52, 620-625. (IF 3.0)

Huijbregts, S.C.J., Swaab-Barneveld, H., & De Sonnevile, L.M.J. (2010). Cognitive and motor control in Neurofibromatosis Type I: Influence of maturation and hyperactivity-inattention. *Developmental Neuropsychology*, 35, 737-751. (IF 2.3)

De Sonnevile, L.M.J., **Huijbregts, S.C.J.**, Van Spronsen, F.J., Verkerk, P.H., Sergeant, J.A., & Licht, R. (2010). Event-related potential correlates of selective processing in early-and continuously treated PKU: Effects of concurrent Phe level and dietary control. *Molecular Genetics and Metabolism*, 99, S10-S17. (IF 3.5)

Christ, S.E., **Huijbregts, S.C.J.**, De Sonnevile, L.M.J., & White, D.A. (2010). Executive function in early-treated Phenylketonuria: Profile and underlying mechanisms. *Molecular Genetics and Metabolism*, 99, S22-S32. (IF 3.5)

Rowbotham, I., Pit-ten Cate, I.M., Sonuga-Barke, E.J.S., & **Huijbregts, S.C.J.** (2009). Cognitive control in adolescents with Neurofibromatosis Type 1. *Neuropsychology*, 23, 50-60. (IF 3.8)

Huijbregts, S.C.J., Séguin, J.R., Zoccolillo, M., Boivin, M., & Tremblay, R.E. (2008). Role of maternal prenatal smoking and parental antisocial behavior in preschool physical aggression. *Development and Psychopathology*, 20, 437-453. (IF 5.5)

Huijbregts, S.C.J., Warren, A.J., De Sonnevile, L.M.J., & Swaab-Barneveld, H. (2008). Hot and Cool Forms of Inhibitory Control and Externalizing Behavior in Children of Mothers who Smoked during Pregnancy: An exploratory study. *Journal of Abnormal Child Psychology*, 36, 323-333. (IF 3.2)

Huijbregts, S.C.J., Séguin, J.R., Zoccolillo, M., Boivin, M., & Tremblay, R.E. (2007). Associations of maternal prenatal smoking with early childhood physical aggression, hyperactivity-impulsivity, and their co-occurrence. *Journal of Abnormal Child Psychology*, 35, 203-215. (IF 3.2)

Huijbregts, S. C. J., Séguin, J. R., Zelazo, P. D., Parent, S., Japel, C., & Tremblay, R.

E. (2006). Interrelations between maternal smoking during pregnancy, birth weight, and sociodemographic factors in the prediction of early cognitive abilities. *Infant and Child Development*, 15, 593-606. (IF 1.2)

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Huijbregts, S.C.J., Kalkers, N.F., De Sonnevile, L.M.J., De Groot, V., Reuling, I.E.W., & Polman, C.H. (2004). Differences in Cognitive Impairment of Relapsing-Remitting, Secondary and Primary Progressive MS. *Neurology*, 63, 335-339. (IF 8.0)

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Huijbregts, S.C.J., De Sonnevile, L.M.J., Van Spronsen, F.J., Berends, I.E., Licht, R., Verkerk, P.H., & Sergeant, J.A. (2003). Motor Function under Lower and Higher Controlled Processing Demands in Early- and Continuously Treated Phenylketonuria. *Neuropsychology*, 17, 369-379. (IF 3.8)

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Huijbregts, S.C.J., De Sonnevile, L.M.J., Licht, R., Van Spronsen, F.J., & Sergeant, J.A. (2002). Short-term Dietary Interventions in Children and Adolescents with Treated Phenylketonuria: Effects on Neuropsychological Outcome of a Well-controlled Population. *Journal of Inherited Metabolic Disease*, 25, 419-430. (IF 4.1)

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- National (refereed) journals/other

Huijbregts, S.C.J. & Swaab, H. (2010). Van exploratie naar inzicht (Building blocks of explorative behavior in 4-to-6-year-old children). *TK-magazine*

Van Breukelen, I.C., **Huijbregts, S.C.J.**, & Terpstra-Steenbergen, N. (2009). Triple P – Positive Parenting Program: For every parent? www.ggzkinderenjeugd.nl

Huijbregts, S.C.J. (2003) Phenylketonurie: de gevolgen van een erfelijke stofwisselingsstoornis voor de cognitieve ontwikkeling (Phenylketonuria: The Impact of an Inherited Metabolic Disorder on Cognitive Development). *Neuropraxis*, 7, 74-78.

- Books, or contributions to books

Huijbregts, S.C.J. (2015). De rol van stress bij zelfregulatie en psychopathologie (The role of stress in self-regulation and psychopathology). *In press*.

Huijbregts, S.C.J. & Tops, M. (2011). Stressregulatie, psychopathologie, en klinische neuropsychologie (Stress regulation, psychopathology, and clinical neuropsychology). In H. Swaab, A. Bouma, J. Hendriksen, & C. König (Eds.), *Klinische kinderneuropsychologie: Ontwikkeling en functie, diagnose en therapie (Clinical child neuropsychology: Development and function, diagnosis and therapy)*. Amsterdam: Boom, pp. 347-362. (*winner of: Best Textbook 2010-2012, Leiden University, Education and Child Studies*)

Papers submitted or in preparation

Van Ginkel, W.G., Jahja, R., **Huijbregts, S.C.J.**, Daly, A., MacDonald, A., McKiernan, P., Goyens, P.J., De Laet, C., Cassiman, D., Eyskens, D., & Van Spronsen, F.J. Neurocognitive outcome in Tyrosinemia Type 1 compared to healthy controls. (*submitted*)

Jahja, R., Van Spronsen, F.J., De Sonnevile, L.M.J., Van der Meere, J.J., Bosch, A.M., Hollak, C.E.M., Rubio-Gozalbo, M.E., Brouwers, M.C.G.J., Hofstede, F.C., De Vries, M.C., Janssen, M.C.H., Van der Ploeg, A.T., Langendonk, J.G., & **Huijbregts, S.C.J.** Social-cognitive functioning and social skills in patients with early and continuously treated Phenylketonuria: A PKU-COBESO study (*submitted*)

Koini, M., Rombouts, S.A., Veer, I.M., Swaab, H.S., Van Buchem, M.A., & **Huijbregts, S.C.J.** White matter microstructure of patients with Neurofibromatosis Type 1 and its relation to inhibitory control. (*submitted*)

Smaling, H.J.A., **Huijbregts, S.C.J.**, Van der Heijden, K.B., Van Goozen, S.H.M., & Swaab, H. Three dimensions of parental reflective functioning: differential associations with children's externalizing behavior and temperament. (*submitted*)

Suurland, J., Van der Heijden, K.B., **Huijbregts, S.C.J.**, Van Goozen, S.H.M. & Swaab, H. (in preparation). Early physical aggression is predicted by interaction between sympathetic and parasympathetic nervous system response

to stress and cumulative risk. (*in preparation*)

Huijbregts, S.C.J., Van Adrichem, D., Suurland, J., Smaling, H.J.A., Van der Heijden, K.B., Hay, D. Swaab, H.S., & Van Goozen, S.H.M. Physiological and behavioral hyporeactivity in response to stress in 6-month-olds prenatally exposed to tobacco. (*in preparation*)

Platje, E., **Huijbregts, S.C.J.**, Cima, M., Popma, A., Van Goozen, S.H.M., & Swaab-Barneveld, H. Executive functioning, reward/punishment sensitivity and conduct problems in adolescents with or without callous-unemotional traits (*in preparation*)

Huijbregts, S.C.J., Swaab-Barneveld, H., & Séguin, J.R. Roles of Theory of Mind, executive functioning, and verbal ability in externalizing and internalizing behavior of 3-6-year-old children. (*in preparation*)

Jahja, R., Liemburg, G.B, Van Spronsen, F.J., De Sonnevile, L., Van der Meere, J., Bosch, A., Hollak, C., Rubio-Gozalbo, E., Brouwers, M., Hofstede, F., De Vries, M., Janssen, M, Van der Ploeg, A., Langendonk, J., & **Huijbregts, S.C.J.** Internalizing and externalizing behavioural problems in relation to executive functioning in Phenylketonuria. (*in preparation*)

Van Wegberg, A.M.J., Ahring, K., Bélanger-Quintana, A., Blau, N., Bosch, A.M., Burlina, A., Campistol, J., Feillet, F., Gizewska, M., **Huijbregts, S.C.**, Kearney, S., Leuzzi, V., MacDonald, A., Maillot, F., Muntau, A.C., Trefz, F., Van Rijn, M., Walter, J., & Van Spronsen, F.J. European guidelines on diagnosis and treatment of Phenylketonuria. (*in preparation*)

Selection of (first author) conference presentations

Huijbregts, S.C.J. (2015). Which factors determine the quality of executive functioning in PKU? *Glasgow, Scotland, NSPKU 42nd Annual Conference.* (*invited lecture*)

Huijbregts, S.C.J. (2014). Executive functioning in early-treated Phenylketonuria and potential implications for other inborn errors of metabolism. *Porto, The Institute of Biomedical Sciences Abel Salazar, University of Porto - ICBAS/UP – Portugal.* (*invited lecture*)

Huijbregts, S.C.J. (2014). Neurocognitive assessment in PKU: Differences between IQ- and EF-measures. *Zagreb, Croatia, E.S. PKU Annual Conference.* (*invited lecture*)

Huijbregts, S.C.J., Smaling, H.J.A., Suurland, J., Van der Heijden, K.B., Swaab, H., & Van Goozen, S.H.M. (2014). Prenatal tobacco exposure and infant stress regulation: Dissociation between behavioral and physiological indicators of stress? *Berlin, Germany, International Conference on Infant Studies.*

Huijbregts, S.C. J., Veer, I.M., Van Buchem, M.A., Swaab-Barneveld, H., & Rombouts, S.A.R.B. (2013). Volumetric abnormalities of subcortical brain

regions in Neurofibromatosis Type 1: Associations with social and cognitive problems. *Stellenbosch, South-Africa, Society for the Study of Behavioural Phenotypes. Journal of Intellectual Disability Research*, 57, 799.

- Huijbregts, S.C.J., Hidding, E., Bruin, E., & Swaab-Barneveld, H. (2013). Executive functioning and reward sensitivity in proactive and reactive aggression. *Amsterdam, The Netherlands, International Neuropsychological Society.*
- Huijbregts, S.C.J. (2013). Cognitive-behavioral phenotypes associated with cannabis use and prenatal tobacco exposure. *Rotterdam, The Netherlands, Erasmus University Rotterdam, Institute of Psychology. (invited lecture)*
- Huijbregts, S.C.J. (2013). Cognitive and social functioning in adolescents and young adults with early-treated Phenylketonuria. *San Francisco, USA, Biomarin Science Seminar. (invited lecture)*
- Huijbregts, S.C.J., Claas, C., & Swaab-Barneveld, H. (2013). Cortisol and Alpha-amylase in Proactive and Reactive Aggression: Moderating Effects of Callous-Unemotional Traits. *Seattle, USA, Society for Research in Child Development Biennial Meeting.*
- Huijbregts, S.C.J. (2013). How to test executive functioning in PKU? Contexts and perspectives. *Istanbul, Turkey, 5th European Phenylketonuria Group (EPG) Symposium: Advances and Challenges in PKU. (invited lecture)*
- Huijbregts, S.C.J., Jahja, R., & Swaab-Barneveld, H. (2012). Relative importance of autistic traits and hyperactivity-inattention for social functioning in Neurofibromatosis Type I. *Leuven, Belgium, Society for the Study of Behavioural Phenotypes. Journal of Intellectual Disability Research*, 56, 10.
- Huijbregts, S.C.J. (2012). Aggression, antisocial behavior, and executive functioning during adolescence. *Utrecht, The Netherlands, Hogrefe Publishers: Executive function during adolescence. (invited lecture)*
- Huijbregts, S.C.J. (2011). Behavioral, neurobiological, and cognitive correlates of prenatal tobacco exposure. *Berlin, Germany, Annual Congress of the German Association for Psychiatry and Psychotherapy (DGPPN).*
- Huijbregts, S.C.J., Van Berkel, S.R., Swaab-Barneveld, H.S., & Van Goozen, S.H.M. (2011). Neurobiological and behavioral stress reactivity in children prenatally exposed to tobacco. *Montreal, Canada, Society for Research in Child Development, Biennial Meeting.*
- Huijbregts, S.C.J. & Larsen, J. (2011). Living with PKU. *Warsaw, Poland, E.S.PKU Annual Conference. (invited lecture)*
- Huijbregts, S.C.J. (2011). (1) Measuring executive function in PKU? How is it done? What are the best tests? (2) Executive function and processing speed in PKU: Underlying brain mechanisms and contextual factors. *Lisbon, Portugal. Serofo Symposia International Foundation : 3rd European Phenylketonuria*

Group (EPG), 'Advances and Challenges in PKU'.

- Huijbregts, S.C.J., De Sonnevile, L.M.J., & Swaab-Barneveld, H. (2010). Does cognitive impairment explain behavioural and social problems of children with Neurofibromatosis Type 1? *Pavia, Italy, Society for the Study of Behavioural Phenotypes. Journal of Intellectual Disability Research, 54*, 887.
- Huijbregts, S.C.J. & Cima M. (2010). Cognitive versus social cognitive abilities in antisocial adolescents: associations with proactive and reactive aggression. *Basel, Switzerland, European Association for Forensic Child and Adolescent Psychiatry.*
- Huijbregts, S.C.J. (2010). Executive function in early-treated Phenylketonuria: Advances and Challenges. *Skipton, United Kingdom, N.S.PKU Annual Conference. (invited lecture)*
- Huijbregts, S.C.J. (2009). Executive function in early-treated Phenylketonuria: Profile, underlying mechanisms and implications for day-to-day life. *Belek, Turkey, E.S.PKU Annual Conference.*
- Huijbregts, S.C.J., Noort, A., De Sonnevile, L., & Swaab-Barneveld, H. (2009). Cognitive functioning in Neurofibromatosis Type I: Influence of maturation and ADHD-symptomatology. *Cambridge, UK, Society for the Study of Behavioural Phenotypes, Journal of Intellectual Disability Research, 53*, 836.
- Huijbregts, S.C.J. (2009). Prenatal tobacco exposure and early problem behavior: Role of cognitive development. *Denver, USA, Society for Research in Child Development Biennial Meeting.*
- Huijbregts, S.C.J., & Swaab-Barneveld, H. (2009). Internalizing and externalizing behaviour in early childhood: relative contribution of executive functioning, social cognition, and verbal ability. *Lisbon, Portugal, European Psychiatric Association. European Psychiatry, 1*, 24.
- Huijbregts, S.C.J. (2008). Maternal prenatal smoking and offspring cognition and behavior: Possible role of altered stress responsivity. *Amsterdam, The Netherlands, European Association for Forensic Child and Adolescent Psychiatry.*
- Huijbregts, S.C.J., Rowbotham, I., De Breij, S., Pit-ten Cate, I., & De Sonnevile, L.M.J. (2008). Diffuse cognitive impairment in adolescents with Neurofibromatosis Type 1. *Hawaii (Big Island), USA. Journal of the International Neuropsychological Society, 14 (S1)*, 40.
- Huijbregts, S.C.J., & Warren, A.J. (2007). Maternal prenatal smoking, inhibitory control, and externalizing behavior in 7-to 9-year-old offspring. *Bilbao, Spain. Journal of the International Neuropsychological Society, 13 (S2)*, 73.
- Huijbregts, S.C.J., Stevenson, J., Boivin, M., Séguin, J.R., & Tremblay, R.E. (2005). Maternal smoking during pregnancy and children's physical aggression: Results of a twin study. *Toronto, Canada, Developmental Origins of Health*

and Disease. *Pediatric Research*, 58, 1059-1060.

- Huijbregts, S.C.J. (2005). Fetal and infant origins of abnormal development. *Amsterdam, The Netherlands, Advances in Developmental Cognitive Neuroscience. (invited lecture)*
- Huijbregts, S.C.J., Séguin, J.R., Zoccolillo, M., Zelazo, P.D., Boivin, M., & Tremblay, R.E. (2005). Maternal smoking during pregnancy and early physical aggression: Moderating effects of sociodemographic factors and parental background. *Atlanta, USA, Society for Research in Child Development.*
- Huijbregts, S.C.J., Séguin, J.R., Zelazo, P.D., Parent, S., Japel, C., & Tremblay, R.E. (2005). Interrelations between pregnancy smoking, birth weight, and sociodemographic factors in the prediction of early cognitive outcome. *Atlanta, USA, Society for Research in Child Development.*
- Huijbregts, S.C.J., Kalkers, N.F., De Sonnevile, L.M.J., De Groot, V., Reuling, I.E.W., & Polman, C.H. (2004). Differences in cognitive impairment of relapsing-remitting, secondary and primary progressive MS. *Taormina, Italy, European Charcot Foundation.*
- Huijbregts, S.C.J., Séguin, J.R., Zelazo, P.D., Zoccolillo, M., & Tremblay, R.E. (2004). The influence of maternal smoking during pregnancy on cognition and behavior during the pre-school period. *Baltimore, USA. Journal of the International Neuropsychological Society*, 10 (S1), 63.
- Huijbregts, S.C.J., de Sonnevile L.M.J., Sergeant, J.A., & van Spronsen, F.J. (2002). Motor function under lower and higher controlled processing demands in early- and continuously treated Phenylketonuria. *Dublin, Ireland. Journal of Inherited Metabolic Disease*, 25, S8, Suppl. 1.

Selection of recent co-authored presentations

- Van der Kant, A.M., Biro, S., Huijbregts, S.C.J., & Levelt, C.C. (2015). Development of social perception: Applying HRF models to the analyses of infant fNIRS data. *Leiden, The Netherlands, Society for Research in Child Development & Flux: The International Society for Integrative Developmental Cognitive Neuroscience*
- Van der Kant, A.M., Levelt, C.C., Biro, S., & Huijbregts, S.C.J. (2015). The effect of prenatal tobacco exposure on cortical specialization in infants: comparison of assumption-free and HRF models in the analysis of infant fNIRS. *Leiden, The Netherlands, NIRS Workshop: challenges and opportunities of fNIRS in developmental neuroscience*
- Boot, E., Hollak, C.E., Huijbregts, S.C., Jahja, R., Van Amelsvoort, T.A.M.J., Nederveen, A.J., Bakermans, A.J., Nieman, D.H., Bosch, A.M., Van Spronsen, F.J., Bour, L.J., & Booij, J. (2015). Increased striatal dopamine D_{2/3}receptor availability and its association with executive function in adults with Phenylketonuria. *Toronto, Canada, Society of Biological Psychiatry, 70th*

Annual Scientific Convention and Meeting, Biological Psychiatry, 77, Suppl. 1.

- Loitfelder, M., Veer, I.M., Rombouts, S.A., Swaab, H.S., Van Buchem, M.A., Schmidt, R., & Huijbregts, S.C.J. (2014). Functional connectivity changes and social behavior in Neurofibromatosis Type 1. *New York, USA, Society for the Study of Behavioural Phenotypes. Journal of Intellectual Disability Research, 58, 10, 886.*
- Loitfelder, M., Huijbregts, S.C.J., Veer, I.M., Van Buchem, M.A., Schmidt, R., Swaab, H.S., & Rombouts, S.A. (2014). Microstructural white matter alteration in Neurofibromatosis Type 1 and its association with executive functioning. *New York, USA, Society for the Study of Behavioural Phenotypes.*
- Loitfelder, M., Huijbregts, S.C.J., Veer, I.M., Swaab, H.S., Van Buchem, M.A., Schmidt, R., & Rombouts, S.A. (2014). Functional brain connectivity in Neurofibromatosis Type 1. *New York, USA, Society for the Study of Behavioural Phenotypes.*
- Smaling, H.J.A., Huijbregts, S.C.J., Suurland, J., Van der Heijden, K.B., Van Goozen, S.H.M., & Swaab, H. (2014). Maternal reflective functioning as predictor of maternal and infant behavior during the Still-Face Paradigm. *Berlin, Germany, International Conference on Infant Studies.*
- Suurland, J., Van der Heijden, K.B., Smaling, H.J.A., Huijbregts, S.C.J., Van Goozen, S.H.M., & Swaab, H. (2014). Infant parasympathetic and sympathetic response and recovery during the Still Face Paradigm: effects of maternal risk status. *Berlin, Germany, International Conference on Infant Studies.*
- Jahja, R., Huijbregts, S.C.J., & Van Spronsen, F.J. (2013). Cognitive profile of Tyrosinemia Type 1 and PKU: Preliminary results regarding executive functioning and social skills. *Antwerp, Belgium, E.S. PKU Annual Conference.*
- Jahja, R., Huijbregts, S.C.J., & Van Spronsen, F.J. (2012). Executive functioning and behavior in adult PKU. *Istanbul, Turkey, 5th European Phenylketonuria Group (EPG) Symposium.*