

# CURRICULUM VITAE

## **BIOGRAPHICAL SKETCH**

**Name** Barbara Franke  
**Position title** Professor of Molecular Psychiatry  
**Address** Department of Human Genetics (855) and Department of Psychiatry  
Donders Institute for Brain, Cognition and Behaviour  
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## **EDUCATION**

**1985 – 1988** Gymnasiale Oberstufe Goetheschule Wetzlar, Germany (Abitur)  
**1988 – 1991** Study of Biology, Justus Liebig University, Giessen, Germany (bachelor's degree)  
**1991 – 1995** Study of Biology, University of Utrecht, Utrecht, The Netherlands; main subject: Molecular and Chemical Biology (master's degree, cum laude, 23-01-1995)

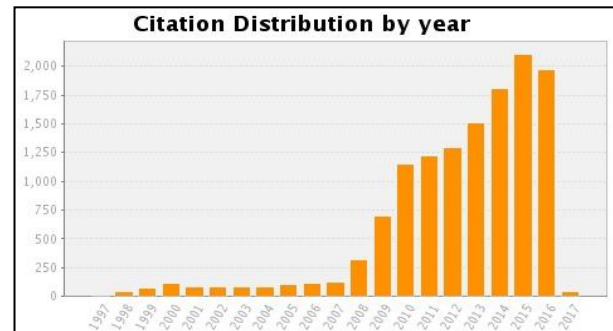
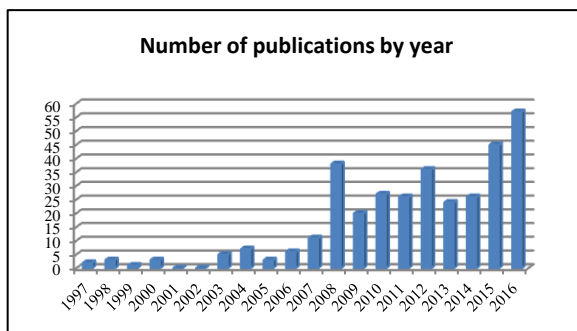
## **PROFESSIONAL EXPERIENCE**

**1995 – 1999** Doctorate study (PhD), University of Utrecht, Utrecht, The Netherlands, Laboratory for Physiological Chemistry (Thesis: Rap and Ral in platelet signaling, 22-04-1999; promotores Prof. Dr. J.L. Bos and Prof. Dr. J.W. Akkerman)  
**1999 – 2001** Postdoc project, Department of Human Genetics, Radboud University Nijmegen Medical Center  
**2001–present** Head of the Researchlab for Multifactorial Diseases, Department of Human Genetics, Radboud University Nijmegen Medical Center  
**2003 – 2004** Temporary Assistant professor in Genetics of Multifactorial Diseases, Department of Human Genetics and Department of Psychiatry, Radboud University Nijmegen Medical Center  
**2004 – 2008** Assistant Professor in Genetics of Multifactorial Diseases  
**2009 – 2011** Associate Professor of Molecular Psychiatry  
**2011 – 2015** Official speaker of Theme 3 (Plasticity & Memory) of the Donders Institute for Brain, Cognition and Behaviour  
**2014–present** Leader of the Radboud Research Theme Neurodevelopmental Disorders  
**2012–present** Full Professor of Molecular Psychiatry  
**2015–present** Elected member of Academia Europaea  
**2017–present** Head of the Division of Genome Research of the Department of Human Genetics, Radboud University Nijmegen Medical Center

## RESEARCH INTEREST

My research focuses on unraveling the genetics of multifactorial diseases. I'm particularly interested in the identification of genetic risk factors for psychiatric disorders, especially ADHD, the autism spectrum, major depression, and dyslexia. I have published on genome-wide (linkage and association) approaches to gene finding in these disorders, using clinical phenotypes as well as population traits, as leader or member of international collaborations. Downstream of gene identification, I am interested in understanding the pathways that lead from gene to disease/symptom. For this, my group uses several complementary approaches, including bioinformatics, induced pluripotent stem cell-based in vitro neuron cultures, small animal models, and imaging genetics approaches. The integration of knowledge gained from this work allows characterization of the effects of genetic risk factors at the molecular, cell and brain level. An additional line of research at my lab is dedicated to pharmacogenetics.

I currently lead a lab with 1 Assistant professor, 8 postdocs, 1 bioinformatician, 3 research assistants, 1 lab manager and 6 technicians, and I supervise 16 PhD students as a promotor. In addition, my lab regularly hosts guest researchers.



## LIST OF PUBLICATIONS

Total number of peer-reviewed publications:	354
Number of publications with impact factor > 8:	85
Mean impact factor:	6.95
Total number of citations (ResearcherID per 21-01-2017):	13023
H-index (see: <a href="http://www.ResearcherID.com/rid/D-4836-2009">www.ResearcherID.com/rid/D-4836-2009</a> ):	54
H-index (see: <a href="http://scholar.google.nl/citations?user=7yT5ZtsAAAAJ">scholar.google.nl/citations?user=7yT5ZtsAAAAJ</a> ):	65

## Publications with major authorship positions (first or last position)

## IF

- |  |                       |
|--|-----------------------|
| <p>1. Hoogman M, Bralten J, Hibar DP, Mennes M, Zwiers MP, Schweren L, van Hulzen KJE, Medland SE, Shumskaya E, Jahanshad N, Szekely E, Sudre G, Wolfers T, Onnink AMH, Dammers JT, Mostert JC, Vives-Gilabert Y, Kohls G, Oberwelland E, Seitz J, Schulte-Ruther M, de Zeeuw P, Ambrosino di Bruttupilo S, Doyle AE, Hovik MF, Dramsdahl M, van Erp TGM, Dale A, Schork A, Conzelmann A, Zierhut K, Baur R, McCarthy H, Yoncheva YN, Cubillo A, Chantiluke K, Metha M, Paloyelis Y, Hohmann S, Baumeister S, Bramati I, Mattos P, Tovar-Moll F, Banaschewski T, Brandeis D, Kuntsi J, Asherson P, Rubia K, Kelly C, Di Martino A, Milham MP, Castellanos FX, Frodl T, Zentis M, Lesch KP, Reif A, Pauli P, Jernigan T, Haavik H, Plessen K, Lundervold AJ, Hugdahl K, Faraone SV, Seidman LJ, Biederman J, Durston S, von Polier G, Konrad K, Vilarroya O, Ramos JA, Soliva JC, Rommelse N, Heslenfeld DJ, Hartman C, Hoekstra PJ, Oosterlaan J, Buitelaar JK, Shaw P, Thompson P, <b>Franke B</b>. Subcortical brain volume differences between participants with ADHD and healthy individuals across the lifespan: an ENIGMA collaboration. <i>Lancet Psychiatry</i>, <i>in press</i></p> | <p>Not yet listed</p> |
| <p>2. Klein M, Onnink M, van Donkelaar M, Wolfers T, Harich B, Shi Y, Dammers J,</p>   | <p><b>8.58</b></p>    |

Arias-Vasquez, Hoogman M, **Franke B**. Brain imaging genetics in ADHD and beyond – mapping pathways from gene to disorder at different levels of complexity. *Neurosci Biobehav Rev*, in press

3. Hibar DP\*, Adams HHH\*, Jahanshad N\*, Chauhan G\*, Stein JL\*, Hofer E\*, Renteria ME\*, Bis JC\*, Arias-Vasquez A, Ikram MK, Desrivieres S, Vernooij MW, Abramovic L, Alhusaini S, Amin N, Andersson M, Arfanakis K, Aribisala BS, Armstrong NJ, Athanasiu L, Axelsson T, Beecham AH, Beiser A, Bernard M, Blanton SH, Bohlken MM, Boks MP, Bralten J, Brickman AM, Carmichael O, Chakravarty MM, Chen Q, Ching CR, Chouraki V, Cuellar-Partida G, Crivello F, Den Braber A, Doan NT, Ehrlich S, Giddaluru S, Goldman AL, Gottesman RF, Grimm O, Griswold ME, Guadalupe T, Gutman BA, Hass J, Haukvik UK, Hoehn D, Holmes AJ, Hoogman M, Janowitz D, Jia T, Jørgensen KN, Karbalai N, Kasperaviciute D, Kim S, Klein M, Kraemer B, Lee PH, Liewald DC, Lopez LM, Luciano M, Macare C, Marquand AF, Matarin M, Mather KA, Mattheisen M, McKay DR, Milaneschi Y, Muñoz Maniega S, Nho K, Nugent AC, Nyquist P, Loohuis LM, Oosterlaan J, Papmeyer M, Pirpamer L, Pütz B, Ramasamy A, Richards JS, Risacher SL, Roiz-Santiañez R, Rommelse N, Ropele S, Rose EJ, Royle NA, Rundek T, Sämann PG, Saremi A, Satizabal CL, Schmaal L, Schork AJ, Shen L, Shin J, Shumskaya E, Smith AV, Sprooten E, Strike LT, Teumer A, Tordesillas-Gutierrez D, Toro R, Trabzuni D, Trompet S, Vaidya D, Van der Grond J, Van der Lee SJ, Van der Meer D, Van Donkelaar MM, Van Eijk KR, Van Erp TG, Van Rooij D, Walton E, Westlye LT, Whelan CD, Windham BG, Winkler AM, Wittfeld K, Woldehawariat G, Wolf C, Wolfers T, Yanek LR, Yang J, Zijdenbos A, Zwiens MP, Agartz I, Almasy L, Ames D, Amouyel P, Andreassen OA, Arepalli S, Assareh AA, Barral S, Bastin ME, Becker DM, Becker JT, Bennett DA, Blangero J, van Bokhoven H, Boomsma DI, Brodaty H, Brouwer RM, Brunner HG, Buckner RL, Buitelaar JK, Bulayeva KB, Cahn W, Calhoun VD, Cannon DM, Cavalleri GL, Cheng CY, Cichon S, Cookson MR, Corvin A, Crespo-Facorro B, Curran JE, Czisch M, Dale AM, Davies GE, De Craen AJ, De Geus EJ, De Jager PL, De Zubizaray GI, Deary IJ, Debetto S, DeCarli C, Delanty N, Depondt C, DeStefano A, Dillman A, Djurovic S, Donohoe G, Drevets WC, Duggirala R, Dyer TD, Enzinger C, Erk S, Espeseth T, Fedko IO, Fernández G, Ferrucci L, Fisher SE, Fleischman DA, Ford I, Fornage M, Foroud TM, Fox PT, Francks C, Fukunaga M, Gibbs JR, Glahn DC, Gollub RL, Göring HH, Green RC, Gruber O, Gudnason V, Guelfi S, Håberg AK, Hansell NK, Hardy J, Hartman CA, Hashimoto R, Hegenscheid K, Heinz A, Le Hellard S, Hernandez DG, Heslenfeld DJ, Ho BC, Hoekstra PJ, Hoffmann W, Hofman A, Holsboer F, Homuth G, Hosten N, Hottenga JJ, Huentelman M, Pol HE, Ikeda M, Jack CR Jr, Jenkinson M, Johnson R, Jönsson EG, Jukema JW, Kahn RS, Kanai R, Kloszewska I, Knopman DS, Kochunov P, Kwok JB, Lawrie SM, Lemaître H, Liu X, Longo DL, Lopez OL, Lovestone S, Martinez O, Martinot JL, Mattay VS, McDonald C, McIntosh AM, McMahon FJ, McMahon KL, Mecocci P, Melle I, Meyer-Lindenberg A, Mohnke S, Montgomery GW, Morris DW, Mosley TH, Mühleisen TW, Müller-Myhsok B, Nalls MA, Nauck M, Nichols TE, Niessen WJ, Nöthen MM, Nyberg L, Ohi K, Olvera RL, Ophoff RA, Pandolfo M, Paus T, Pausova Z, Penninx BW, Pike GB, Potkin SG, Psaty BM, Reppermund S, Rietschel M, Roffman JL, Romanczuk-Seiferth N, Rotter JJ, Ryten M, Sacco RL, Sachdev PS, Saykin AJ, Schmidt R, Schmidt H, Schofield PR, Sigursson S, Simmons A, Singleton A, Sisodiya SM, Smith C, Smoller JW, Soininen H, Steen VM, Stott DJ, Sussmann JE, Thalamuthu A, Toga AW, Traynor BJ, Troncoso J, Tsohaki M, Tzourio C, Uitterlinden AG, Hernández MC, Van der Brug M, van der Lugt A, van der Wee NJ, Van Haren NE, van't Ent D, Van Tol MJ, Vardarajan BN, Vellas B, Veltman DJ, Völzke H, Walter H, Wardlaw JM, Wassink TH, Weale ME, Weinberger DR, Weiner MW, Wen W, Westman E, White T, Wong TY, Wright CB, Zielke RH, Zonderman AB, Martin NG, Van Duijn CM, Wright MJ, Longstreth WT, Schumann G\*\*, Grabe HJ\*\*, **Franke B\*\***, Launer LJ\*\*, Medland SE\*\*, 11.33

- Seshadri S<sup>\*\*</sup>, Thompson PM<sup>\*\*</sup>, Ikram MA<sup>\*\*</sup> (2017). Novel genetic loci associated with hippocampal volume. *Nature Commun* 2017 Jan 18;8:13624 [Epub Sep 14 2016 ahead of print] (\* equal contribution; \*\* shared final responsibility)
4. Mostert JC, Hoogman M, Onnink M, van Rooij D, von Rhein D, van Hulzen K, Dammers J, Kan CC, Buitelaar JK, Norris D, **Franke B** (2017). Similar subgroups based on cognitive performance parse heterogeneity in adults with attention-deficit/hyperactivity disorder and healthy controls. *J Attention Dis*, Sep 14 [Epub Sep 14 2016 ahead of print] 3.38
  5. Wu ZM, Bralten J, Cao QJ, Hoogman M, Zwiers MP, Yang L, **Franke B\***, Wang YF\* (2017). White matter microstructural alterations in Children with ADHD: a lateralized hybrid model. *Neuropsychopharmacol*, **42** (2), 572-580 [Epub Sep 29 2016] 6.40
  6. Adams HHH\*, Hibar DP\*, Chouraki V\*, Stein JL\*, Nyquist P\*, Renteria ME\*, Trompet S\*, Arias-Vasquez A\*, Seshadri S, Desrivieres S, Beecham AH, Jahanshad N, Wittfeld K, Abramovic L, Alhusaini S, Amin N, Andersson M, Arfanakis KA, Aribisala BS, Armstrong NJ, Athanasiu L, Axelsson T, Beiser A, Bernard M, Bis JC, Blanken LME, Blanton SH, Bohlken MM, Boks MP, Bralten J, Brickman A, Carmichael O, Chakravarty MM, Chauhan G, Chen Q, Ching CRK, Cuellar-Partida G, Den Braber A, Doan NT, Ehrlich S, Filippi I, Ge T, Giddaluru S, Goldman AL, Gottesman RF, Greven C, Grimm O, Griswold ME, Guadalupe T, Hass J, Haukvik UK, Hilal S, Hofer E, Höhn D, Holmes AJ, Hoogman M, Janowitz D, Jia T, Jørgensen LK, Karbalai N, Kasperaviciute D, Kim S, Klein M, Kraemer B, Lee PH, Liao J, Liewald DCM, Lopez LM, Luciano M, Macare C, Maniega SM, Marquand A, Matarin M, Mather KA, Mattheisen M, Mazoyer B, McKay DR, McWhirter R, Milaneschi Y, Muetzel RL, Nho K, Nugent AC, Olde Loohuis LM, Oosterlaan J, Papmeyer M, Pappa I, Pereira S, Pirpamer L, Pudas S, Pütz B, Rajan KB, Ramasamy A, Richards J, Risacher SL, Roiz-Santiañez R, Rommelse N, Rose EJ, Royle NA, Rundek T, Sämann PG, Satizabal C, Schmaal L, Schork AJ, Shen L, Shin J, Shumskaya E, Smith A, Sprooten E, Strike LT, Teumer A, Thomson R, Tordesillas-Gutierrez D, Toro R, Trabzuni D, Vaidya D, Van der Grond J, Van der Lee SJ, Van der Meer D, Van Donkelaar MMJ, Van Eijk KR, Van Erp T, Van Rooij D, Walton E, Westlye LT, Whelan CD, Windham BG, Winkler AM, Woldehawariat G, Wolf C, Wolfers T, Yanek LR, Yang J, Zijdenbos A, Zwiers MP, Agartz I, Aggarwal NT, Almasly L, Ames D, Amouyel P, Andreassen OA, Arepalli S, Assareh AA, Barral Rodriguez SM, Bastin ME, Becker DM, Becker JT, Bennett DA, Blangero J, van Bokhoven H, Boomsma DI, Brodaty H, Brouwer RM, Brunner HG, Buckner RL, Jan K Buitelaar JK, Bulayeva KB, Cahn W, Calhoun VD, Cannon DM, Cavalleri GL, Chen C, Cheng CY, Cichon S, Cookson MR, Corvin A, Crespo-Facorro B, Curran JE, Czisch M, Dale AM, Davies GE, De Geus EJC, De Jager PL, De Zubicaray GI, Delanty N, Depondt C, DeStefano A, Dillman A, Djurovic S, Snohoe G, Drevets WC, Duggirala R, Dyer TD, Erk S, Espeseth T, Evans DA, Fedko IO, Fernández G, Ferrucci L, Fisher SE, Fleischman DA, Ford I, Foroud TM, Fox PT, Francks C, Fukunaga M, Gibbs R, Glahn DC, Gollub RL, Göring HHH, Grabe HJ, Green RC, Gruber O, Guelfi S, Hansell NK, Hardy J, Hartman CA, Hashimoto R, Hegenscheid K, Heinz A, Le Hellard S, Hernandez DG, Heslenfeld DJ, Ho BC, Hoekstra PJ, Hoffmann W, Hofman A, Holsboer F, Homuth G, Hosten N, Hottenga JJ, Hulshoff Pol HE, Ikeda M, Ikram MK, Jack Jr CR, Jenkinson M, Johnson R, Jönsson EG, Jukema JW, Kahn RS, Kanai R, Kloszewska I, Knopman DS, Kochunov P, Kwok JB, Launer LJ, Lawrie SM, Lemaître H, Liu X, Longo DL, Longstreth Jr WT, Lopez OL, Lovestone S, Martinez P, Martinot JL, Mattay VS, McDonald C, McIntosh AM, McMahon FJ, McMahon KL, Mecocci P, Melle I, Meyer-Lindenberg A, Mohnke S, Montgomery GW, Morris DW, Mosley TH, Mühleisen TW, Müller-Myhsok B, Nalls MA, Nauck M, Nichols TE, Niessen WJ, Nöthen MM, Nyberg L, Ohi K, Olvera RL,

- Ophoff RA, Pandolfo M, Paus T, Pausova Z, Penninx BWJH, Pike GB, Potkin SG, Psaty BM, Reppermund S, Rietschel M, Roffman JL, Romanczuk-Seiferth N, Rotter JI, Ryten M, Sacco RL, Sachdev PS, Saykin AJ, Schmidt H, Schofield PR, Sigursson S, Simmons A, Singleton A, Sisodiya SM, Smith C, Smoller JW, Soininen H, Srikanth V, Steen VM, Stott DJ, Sussmann JE, Thalamuthu A, Tiemeier H, Toga AW, Traynor B, Troncoso J, Turner JA, Tzourio C, Uitterlinden AG, Valdés Hernández MC, Van der Brug M, Van der Lugt A, Van der Wee NJA, Van Duijn CM, Van Haren NEM, Van 't Ent D, Van Tol MJ, Vardarajan B, Veltman DJ, Vernooij MW, Völzke H, Walter H, Wardlaw JM, Wassink TH, Weale ME, Weinberger DR, Weiner MW, Wen W, Westman E, White TJM, Wong TY, Wright CB, Zielke RH, Zonderman A, Deary IJ, DeCarli C, Schmidt R, Martin NG, De Craen AJM, Wright MJ, Vilmunder Gudanson V\*\*, Schumann G\*\*, Fornage M\*\*, **Franke B\*\***, Dabette S\*\*, Medland SE\*\*, Ikram MA\*\*, Thompson PM\*\* (2016). Common genetic variation underlying human intracranial volume highlights developmental influences and continued relevance during late life. *Nat Neurosci*, **19** (12), 1569-1582 [Epub Oct 3] (\* equal contribution; \*\* shared final responsibility)
7. Klein M, Berger S, Hoogman M, Dammers J, Makkinje R, Heister AJGAM, Galesloot TE, Kiemeny LALM, Weber H, Kittel-Schneider S, Lesch KP, Reif A, Ribasés M, Ramos-Quiroga JA, Cormand B, Zayats T, Hegvik TA, Jacobsen KK, Johansson S, Haavik J, Mota NR, Bau CHD, Grevet EH, Doyle A, Faraone SV, Arias-Vásquez A, **Franke B** (2016). Meta-analysis of the *DRD5* VNTR in persistent ADHD. *Eur Neuropsychopharmacol*, **26** (9), 1527-32 [Epub 2016 Jul 29] 4.41
  8. van de Vondervoort I\*, Poelmans G\*, Aschrafi A, Pauls D, Buitelaar J, Glennon J\*, **Franke B\*** (2016). An integrated molecular landscape implies a crucial role for insulin-related signaling in obsessive-compulsive disorder. *J Psychiatry Neurosci*, **41** (4), 280-285 [Epub 2016 Feb 8] 5.57
  9. **Franke B\***, Stein J\*, Ripke S\*, Anttila V, Hibar D, van Hulzen K, Arias Vasquez A, Smoller J, Nichols TE, Neale MC, McIntosh A, Lee P, McMahon F, Meyer-Lindenberg A, Mattheisen M, Andreassen O, Gruber O, Sachdev P, Roiz-Santiañez R, Saykin A, Ehrlich S, Mather K, Turner J, Schwarz E, Thalamuthu A, Yao Y, Ho YYW, Martin NG, Wright MJ, Schizophrenia Working Group of the Psychiatric Genomics Consortium, ENIGMA Consortium, O'Donovan M<sup>#</sup>, Thompson P<sup>#</sup>, Neale B<sup>#</sup>, Medland S<sup>#</sup>, Sullivan PF<sup>#</sup> (2016). Is there overlap between common genetic influences on schizophrenia and subcortical brain volumes? *Nature Neuroscience*, **19** (3), 420-431 [Epub 2016 Feb 1] 16.72
  10. Mostert J, Onnink M, Klein M, Dammers J, Harneit A, Razera T, van Hulzen K, Kan CC, Slaats-Willemse D, Buitelaar JK, **Franke B\***, Hoogman M\* (2015). Cognitive heterogeneity in adult Attention Deficit / Hyperactivity Disorder: a systematic analysis of neuropsychological measurements. *Eur Neuropsychopharmacol*, **25** (11), 2062-74 [Epub Aug 21] (\*shared final responsibility) 4.41
  11. Coenen MJH\*, de Jong DJ\*, van Marrewijk CJ\*, Derijks LJJ, Vermeulen SH, Wong DR, Klungel OH, Verbeek ALM, Hooymans P, TOPIC recruitment team, Newman W, Scheffer H<sup>&</sup>, Guchelaar HJ<sup>&</sup>, **Franke B<sup>&</sup>** (2015). Screening of the *TPMT* gene followed by personalized dosing before azathioprine and mercaptopurine treatment results in a lower leucopenia occurrence in patients with inflammatory bowel disease: a randomized trial. *Gastroenterol*, **149** (4), 907-917 [Epub 2015 June 10] 18.19
  12. Klein M\*, van der Voet M\*, Harich B, van Hulzen K, Onnink M, Hoogman M, Guadalupe T, Zwiers M, Groothuis-mink J, Verberkt A, Psychiatric Genomics Consortium ADHD Working Group Faraone SV, Buitelaar JK, Schenck A, Arias-Vasquez A, **Franke B** (2015). Converging evidence does not support *GIT1* as an ADHD risk gene. *Am J Med Genet B Neuropsych Genet* **168** (6), 492-507 [Epub 2015 June 10] 3.39

13. Wolfers T\*, Onnink M\*, Zwiers M, Hoogman M, Mostert JC, Kan CC, Slaats-Willemse D, Buitelaar JK, **Franke B** (2015). Lower white matter microstructure in the superior longitudinal fasciculus is associated with increased response time variability in adults with attention-deficit/ hyperactivity disorder. *J Psychiatry Neurosci* **40** (5), 344-351 [Epub 2015 June 18] 5.57
14. Onnink AMH, Zwiers MP, Hoogman M, Mostert JC, Kan CC, Schene A, Arias Vasquez A, Buitelaar JK, **Franke B** (2015). Deviant white matter structure in adults with attention-deficit/hyperactivity disorder points to aberrant myelination and affects neuropsychological performance. *Prog Neuropsychopharmacol Biol Psychiatry*, **63**,14-22 [Epub 2015 May 5] 4.36
15. Hibar DP\*, Stein JL\*, Renteria ME\*, Arias-Vasquez A\*, Desrivieres S\*, Jahanshad N, Toro R, Wittfeld K, Andersson M, Aribisala BS, Armstrong NJ, Bernard M, Bohlken MM, Bralten J, Brown AA, Chakravarty MM, Chen Q, Ching CRK, Cuellar-Partida G, den Braber A, Giddaluru S, Goldman A, Grimm O, Guadalupe T, Hass J, Hawariyat G, Holmes A, Hoogman M, Janowitz D, Jia T, Kim S, Klein M, Kraemer B, Lee PH, Luciano M, Macare C, Mather KA, Mattheisen M, Milaneschi Y, Nho K, Papmeyer M, Ramasamy A, Risacher SL, Roiz-Santiañez R, Rose EJ, Salami A, Sämann PG, Schmaal L, Schork AJ, Shin J, Strike LT, Teumer A, van Donkelaar MMJ, van Eijk KR, Westlye LT, Whelan CD, Winkler AM, Zwiers MP, Alhusaini S, Athanasiu L, Ehrlich S, Hakobjan MMH, Hartberg CB, Haukvik U, Heister AJGAM, Höhn D, Kasperaviciute D, Liewald DCM, Lopez LM, Makkinje RRR, Matarin M, Naber MAM, Needham M, Nugent AC, Pütz B, Royle N, Shen L, Sprooten E, Trabzuni D, van der Marel SSL, van Hulzen KJE, Walton E, Wolf C, Almasy L, Ames D, Arepalli S, Assareh AA, Bastin M, Brodaty H, Bulayeva KB, Carless MA, Cichon S, Corvin A, Curran JE, Czisch M, de Zubicaray GI, Dillman A, Duggirala R, Dyer TD, Erk S, Fedko IO, Ferrucci L, Foroud TM, Fox PT, Fukunaga M, Gibbs R, Göring HHH, Green RC, Guelfi S, Hansell NK, Hartman CA, Hegenscheid K, Heinz A, Hernandez DG, Heslenfeld DJ, Hoekstra PJ, Holsboer F, Homuth G, Hottenga JJ, Ikeda M, Jack Jr. CR, Jenkinson M, Johnson R, Kanai R, Keil M, Kent Jr JW, Kochunov P, Kwok JB, Lawrie SM, Liu X, Longo DL, McMahon KL, Meisenzahl E, Melle I, Mohnke S, Montgomery GW, Mostert JC, Mühleisen TC, Nalls MA, Nichols TE, Nilsson LG, Nöthen MM, Ohi K, Olvera RL, Perez-Iglesias R, Pike GB, Potkin SG, Reinvang I, Reppermund S, Rietschel M, Romanczuk-Seiferth N, Rosen GD, Rujescu D, Schnell K, Schofield PR, Smith C, Steen VM, Sussmann JE, Thalamuthu A, Toga AW, Traynor B, Troncoso J, Turner JA, van 't Ent D, van der Brug M, van der Wee NJA, van Tol MJ, Veltman DJ, Wassink TH, Westman E, Zielke RH, Zonderman A, Ashbrook DG, Hager R, Lu L, McMahon FJ, Morris DW, Williams RW, Brunner HG, Buckner RL, Buitelaar JK, Cahn W, Calhoun VD, Cavalleri GL, Crespo-Facorro B, Dale AM, Davies GE, Delanty N, Depondt C, Djurovic S, Drevets WC, Espeseth T, Gollub RL, Ho BC, Hoffmann W, Hosten N, Kahn RS, Le Hellard S, Meyer-Lindenberg A, Müller-Myhsok B, Nauck M, Nyberg L, Ophoff RA, Pandolfo M, Penninx BWJH, Roffman J, Sisodiya SM, Smoller JW, van Bokhoven H, van Haren NEM, Völzke H, Walter H, Weiner MW, Wen W, White T, Agartz I, Andreassen OA, Blangero J, Boomsma DI, Brouwer RM, Cannon DM, Cookson MR, de Geus EJC, Deary IJ, Donohoe G, Fernández G, Fisher SE, Francks C, Glahn DC, Grabe HJ, Gruber O, Hardy J, Hashimoto R, Hulshoff Pol HE, Jönsson E, Kloszewska I, Lovestone S, Mattay VS, McDonald C, McIntosh AM, Paus T, Pausova Z, Ryten M, Sachdev PS, Saykin AJ, Simmons A, Singleton A, Soininen H, Wardlaw JA, Weale ME, Weinberger DR, Adams HHH, Launer LJ, Schmidt R, Chauhan G, Satizabal C, Becker J, Yanek L, van der Lee SJ, Ebling M, Fischl B, Longstreth WT, Greve D, Schmidt H, Nyquist P, Vinke LN, van Duijn CM, Luting X, Mazoyer B, Bis JC, Gudnason V, Seshadri S, Ikram MA, the ADNI, the CHARGE Consortium, EPIGEN, IMAGEN, SYS, Martin NG\*, Wright MJ\*, Schumann G\*, **Franke B\***, Thompson PM\*, Medland SE\*

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### **Conference proceeding papers**

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### **Contribution to books and monographs**

**Franke B**, Buitelaar K. Basic mechanisms and treatment planning/targets for ADHD. In: New Oxford Textbook of Psychiatry, Third Edition. Eds John Geddes, Nancy Andreasen, Guy Goodwin. *In press*

**Franke B**, Buitelaar JK. Gene-environment interactions in ADHD. In: Oxford Textbook of attention-deficit/hyperactivity disorder (ADHD). Eds Tobias Banaschewski, David Coghill, Alessandro Zuddas. *In press*

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### **Invited publications (of those above)**

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Van der Zanden LFM, Van Rooij IALM, Feitz WFJ, **Franke B**, Knoers NVAM, Roeleveld N

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**Franke B**, Faraone SV, Asherson P, Buitelaar J, Bau CHD, Ramos-Quiroga JA, Mick E, Grevet EH, Johansson S, Haavik J, Lesch KP, Cormand B, Reif A, on behalf of The International Multicentre persistent ADHD CollaboraTion (IMpACT) (2012). The genetics of attention deficit/hyperactivity disorder (ADHD) in adults, a review. *Mol Psychiatry, invited review*, **17** (10), 960-987 [Epub Nov 22 2011]

Poelmans G, Buitelaar JK, Pauls D, **Franke B** (2011). A theoretical molecular network for dyslexia: integrating available genetic findings. *Mol Psychiatry*, **16** (4), 365-382 [Epub 2010 Oct 19]. Review

Rommelse NNJ, **Franke B**, Geurts HM, Hartman CS, Buitelaar JK (2010). Shared heritability of attention-deficit/hyperactivity disorder and autism spectrum disorder: a review. *Eur Child Adolesc Psychiatry* **19** (3), 281-295. [Epub 2010 Feb 11]. Review.

Banaschewski T, Becker K, Friedel S, **Franke B**, Coghill D (2010). Molecular Genetics in Attention-Deficit/Hyperactivity Disorders: an Overview. *Eur Child Adolesc Psychiatry*, **19** (3), 237-257. [Epub 2010 Feb 10]. Review.

**Franke B**, Neale B, Faraone SV (2009). Genome-wide association studies in ADHD. *Hum. Genet* **126** (1), 13-50 [Epub 2009 Apr 22]. Review.

#### **PhD theses from the Franke group**

1. **Franke B** (1999). Rap and Ral in platelet signaling (ISBN: 9789039319703)
2. Klootwijk D (2004). Inositol and zinc in neural tube defects (ISBN: 9789064643880)
3. Rommelse NNJ (2008). Do Endophenotypes Bring Us Closer to Understanding ADHD? Neuropsychological endophenotypes and their molecular genetic underpinnings (ISBN: 9789086592173)
4. Verhagen M (2009). Familiality, comorbidity and molecular genetic factors in major depressive disorder (ISBN: 9789090242132 )
5. Toonen E (2010). Anti-TNF pharmacogenomics in rheumatoid arthritis: towards personalized therapeutics (ISBN: 9789090250380)
6. Fliers EA (2010). Motor coordination in children with ADHD, clinical, familial and genetic aspects (ISBN: 9789090256115)
7. Poelmans G (2011). Genes and protein networks for neurodevelopmental disorders (ISBN: 9789491027147)
8. van der Zanden L (2012). Aetiology of hypospadias, from genes to environment and back (ISBN: 9789461911384)
9. Hoogman M (2013). Imaging the effects of ADHD risk genes (ISBN: 9789491027451)
10. Thissen A (2014). Neurocognitive and genetic factors in ADHD across ages and generations: Proceedings on the endophenotype model by including adolescents and their parents
11. Sluiter-Oerlemans A (2014). Shared and unique underpinnings of autism spectrum disorders (ASD) and attention/deficit-hyperactivity disorder (ADHD). Pre-/perinatal antecedents and cognitive deficits in the context of familial risk. (ISBN: 9789461695758)
12. Bralten J (2015). Genetics and the brain in attention-deficit/hyperactivity disorder. (ISBN: 9789462840126)
13. Onnink M (2016). Understanding adult ADHD: From genes to brain to behavior. (ISBN: 9789462840553)

14. Mostert J (2016). A network perspective on adult ADHD. (ISBN: 9789462840515)

#### **TEACHING ACTIVITIES:**

- Lecturer on Multifactorial Genetics and Genetics of Cognition and Psychiatric Disorders at bachelor and master levels (biology, medical and biomedical curricula, research masters Cognitive Neuroscience and Molecular Mechanisms of Disease in Nijmegen, and at Utrecht University)
- Lecturer on Genetics of Psychiatric Disorders during specialist trainings (e.g. Master of addiction)
- Lecturer on Papers and Publishing, Donders Graduate School (since 2014)
- Organizer and lecturer of Summer school 'Brain Imaging Genetics' at Radboud University, Nijmegen, The Netherlands (August 2014 and 2016)
- Erasmus Summer Program, Rotterdam. Master class on psychiatric genetics (August 2014)
- Organizer and lecturer of workshop on aggression for Early Career Scientists of the four EU-funded FP7 consortia on aggression research (November 2016)
- Internship coordinator of the department of Human Genetics (2005-2011)
- Mentor of PhD students for Radboud University and external institutes (currently University of Greifswald, Germany; Zentralinstitut fuer Seelische Gesundheit Mannheim, University of Heidelberg, Germany)
- Mentor for Veni, Vidi, Vici, and ERC candidates
- **(Co-)Promotor of 18 PhD students (15 ongoing projects)**
  - Dr. Enrico Klootwijk, PhD (Radboud University, Nijmegen, 2004), postdoc at NIH, Bethesda, USA for several years, now a Lecturer at UCL, London, UK
  - Dr. Nanda Rommelse, PhD (Vrije Universiteit Amsterdam, 2008, cum laude), several awards for best thesis, winner of prestigious personal Veni grant; now an Associate Professor and junior-PI, Radboudumc, Nijmegen, NL
  - Dr. Maaïke Verhagen, PhD (Radboud University, Nijmegen, 2009), winner of prestigious personal Veni grant; now a postdoc, Radboud University, Nijmegen, NL
  - Dr. Erik Toonen, PhD (Radboud University, Nijmegen, 2010), now a postdoc, Nijmegen, NL
  - Dr. Ellen A. Fliers, MD, PhD (Radboud University, Nijmegen, 2010), pediatrician and director of Virenze child and adolescent psychiatric clinic, Gorinchem, NL
  - Dr. Geert Poelmans, MD, PhD (Radboud University, Nijmegen, 2011, cum laude), now a postdoc in my group and scientific director of new spin-out company DrugTarget-ID. Winner of 2013 Richard Todd Award of the International Society for Psychiatric Genetics (ISPG) for outstanding contribution to the genetics of child psychiatry.
  - Dr. Loes van der Zanden, PhD (Radboud University, Nijmegen, 2012, cum laude), won prize for best publication by European Society for Paediatric Urology for Nature publication 2012; now a postdoc and project manager, Nijmegen, NL.
  - Dr. Martine Hoogman (Radboud University, Nijmegen, 2013), postdoc at the Max Planck Institute, Nijmegen, NL for 2 years, now back as a postdoc in my group
  - Dr. Andriëke Thissen (Radboud University, Nijmegen, 2014), now training as a clinical neuropsychologist, Nijmegen, The Netherlands
  - Dr. Aniek Oerlemans (Radboud University, Nijmegen, 2014), now a postdoc, Groningen, NL

- Dr. Janita Bralten (Radboud University, Nijmegen, February 2015), winner of Frye Stipend 2013 for 3 month visit to MRN, Albuquerque, New Mexico, USA, now a postdoc in my group
- Dr. Marten Onnink (Radboud University, Nijmegen, June 2016), now a university teacher at VU University Amsterdam and part-time postdoc in my group
- Dr. Jeanette Mostert (Radboud University, Nijmegen, June 2016), now a university teacher at University of Amsterdam and dissemination manager in my group
- *Jill Naaijen (Radboud University, Nijmegen, thesis defense expected early 2017)*
- *Marieke Klein (Radboud University, Nijmegen, thesis defense expected in 2017)*
- *Jori van der Raadt (Radboud University, Nijmegen, thesis defense expected in 2017)*
- *Zhaomin Wu (Radboud University, Nijmegen, thesis defense expected in 2017/2018)*
- *Benjamin Harich (Radboud University, Nijmegen, thesis defense expected in 2018)*
- *Marjolein van Donkelaar (Radboud University, Nijmegen, thesis defense expected in 2018)*
- *Thomas Wolfers (Radboud University, Nijmegen, thesis defense expected in 2018)*
- *Francesca Waddington (Radboud University, Nijmegen, thesis defense expected in 2018)*
- *Bas van Gestel (Radboud University, Nijmegen, thesis defense expected in 2019)*
- *Anouk Tengeler (Radboud University, Nijmegen, thesis defense expected in 2019)*
- *Euginia Singgih (Radboud University, Nijmegen, thesis defense expected in 2019)*
- *Ting Li (Radboud University, Nijmegen, thesis defense expected in 2019)*
- *Sarita Dam (Radboud University, Nijmegen, thesis defense expected in 2019)*
- *Joanna Szopinska (Radboud University, Nijmegen, thesis defense expected in 2019)*
- *Mireia Coll-Tané (Radboud University, Nijmegen, thesis defense expected in 2020)*
- *Joao Guimaraes (Radboud University, Nijmegen, thesis defense expected in 2021)*
- **Supervisor of bachelor, master, and honours students (biology, medical and biomedical, applied sciences), among which the following (research) master and honours students:**
  - Gerly van der Vleuten (2004; Medical Biology), after obtaining PhD in Nijmegen has been working in pharmaceutical and biotech companies, currently at Certara Quantitative Solutions
  - Loes van der Zanden (2006; Biomedical Sciences), PhD cum laude (2012, see above), now a postdoc and project manager, Nijmegen, NL
  - Hanneke Stegeman (2007; Biomedical Sciences), now a postdoc, Tumor Immunology Laboratory, Radboud University, Nijmegen, NL
  - Mieke de Jager (2009; Biomedical Sciences), got her PhD from Vrije Universiteit, Amsterdam, in June 2016
  - Janita Bralten (2010; Cognitive Neurosciences, cum laude), won University Study Award for research master; gained her PhD from my lab (see above), now a postdoc in my group
  - Marjolein van Donkelaar (2011; Cognitive Neurosciences, cum laude), now a PhD student in my group
  - Lianne Scholtens (2011-2012; Cognitive Neurosciences), now a PhD student, Dutch Connectome Lab, Department of Psychiatry, Utrecht University
  - Thomas Wolfers (2011-2012; Cognitive Neurosciences), now a PhD student in my group
  - Alicia Verberkt (2011-2012; Biology), now a high-school teacher
  - Lennaert van der Molen (2013; Honours program Radboud University), now studying Physics

- Anais Harneit (2013 - 2014; Cognitive Neurosciences), now a PhD student, Zentralinstitut Mannheim, University of Heidelberg, Germany
- Anne van Rens (2013 - 2014; Cognitive Neurosciences), now with Radboud International Office
- Theresa Schulten (2013 - 2014; Cognitive Neurosciences), now orienting
- Ellen Verhoef (2014-2015; Medical Biology), now a PhD student at the Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands
- Niels Las (2015 - 2016; Cognitive Neurosciences), now travelling
- Annika Weiß (Master student Medical Biology, University Duisburg-Essen, Germany), visiting for 6 months (visiting on Erasmus scholarship, April – September 2016), now a PhD-student, Duisburg University, Germany
- Merith Idema (2016 – 2017; Honours Program Radboudumc, Medical Sciences), ongoing
- **Supervisor of international students visiting the laboratory:**
  - Stefanie Berger (Master student Biology, University of Wuerzburg, Germany), visiting with Erasmus scholarship for 3 months (April – July 2013)
  - Andreia Torres da Silva Marques (PhD student Biosciences, specialization Neurosciences, University of Coimbra, Portugal), visiting on scholarship from the Portuguese Foundation for Science and Technology for 8 months (November 2013 – June 2014)
  - Julia Dauernheimer Machado (student Medical Sciences, University of Porto Alegre, Brazil), visiting on scholarship from the Brazilian Government Science without Borders Program for 12 months (September 2014 – August 2015)
  - Zhaomin Wu (PhD-student Medical Science, Peking University Institute of Mental Health, Key Laboratory of Mental Health, Ministry of Health, Beijing, China), visiting on a scholarship from China Scholarship Council (CSC) (October 2014 – September 2016)
- **Member of the thesis manuscript committee:**
  - Karin Hek: Anxiety disorders in older adults (Rotterdam, May 2013)
  - Nicholas H.L. Chua: QST observations in chronic neck pain: Towards a mechanisms-oriented approach to cervicogenic headache (Nijmegen, June 2013)
  - Sylvia Ferré: Calcium and magnesium handling: beyond ion transport (Nijmegen, August 2013)
  - Maria Groen-Blokhuis: Keeping focus: a study of attention problems in a GWAS era. (Amsterdam VU, March 2014)
  - Tessel Galesloot: Hecidin: population-based studies into genetic determinants and effects of atherosclerosis (Nijmegen, January 2015; chair of manuscript committee)
  - Alessandro Gialluisi: Investigating the genetic basis of reading and language skills (Nijmegen (Faculty of Science), September 2015; chair of manuscript committee)
  - Irene Pappa: Genetics and epigenetics of children's behavior problems (Rotterdam, November 2015)
  - Nicole Saksens: Familial macular disease: Clinical and genetic studies on age-related macular degeneration and inherited macular dystrophies (Nijmegen, December 2015, PhD granted cum laude; chair of manuscript committee and cum laude committee)
  - Lotte Wijers: Etiology of congenital anorectal malformations: Genetic and non-genetic factors (Nijmegen, January 2016; chair of manuscript committee)

- Mareike Mueller: Footprints of Alzheimer's disease: Exploring proteins and microRNAs as biomarkers for differential diagnosis (Nijmegen, April 2016)
- Nikkie Olde Loohuis: MicroRNAs: major regulators in neuronal development, synaptic function and neuropathology (Nijmegen, 2016; chair of manuscript committee)
- Hieab Adams: Brains, genes, and diseases (Rotterdam, 2016; PhD granted cum laude)
- **Member of corona of thesis defences (in addition to the above):**
  - Henkjan Gellekink, dept of Pediatrics, Radboud University Medical Centre, Nijmegen: Molecular genetic analysis of hyperhomocysteinemia. January 2007
  - M.F. Roelofs, dept of Rheumatology, Radboud University Medical Centre, Nijmegen: Toll-like receptors in rheumatoid arthritis. Innate immune sensing of danger signals. December 2007
  - Jenny van der Wijst, dept of Nephrology, Radboud University Medical Centre, Nijmegen: New patches in the molecular understanding of renal magnesium handling. February 2011
  - Linda Sterrenburg, dept of Cellular Animal Physiology, Radboud University, Nijmegen: The stress response of forebrain and midbrain regions: neuropeptides, sex-specificity and epigenetics. October 2012.
  - Rianne Marsman, dept of Psychiatry, Radboud University Medical Centre, Nijmegen: HPA-axis, genes, and environmental factors in relation to externalizing behaviours. March 2013
  - Melanie Hagleitner, dept Pediatric Oncology, Radboud University Medical Centre, Nijmegen: The role of pharmacogenetics in Osteosarcoma. March 2015
  - Anne J Grotenhuis, dept Health Evidence, Radboud University Medical Centre, Nijmegen: The role of host factors in bladder cancer outcome. April 2015
  - Winke Franx, dept Cognitive Neuroscience, Radboud University Medical Centre, Nijmegen: On neural networks related to ADHD as a continuous disorder. September 2016
  - Rolieke Cents, dept Child and Adolescent Psychiatry/Psychology, Erasmus MC-University Medical Centre, Rotterdam: Like mother, like child? Intergenerational transmission of psychopathology; a focus on genes and parenting. September 2016

## **MEMBERSHIPS:**

### **University**

- Principal Investigator, Radboud university medical center
- Principal Investigator, Donders Institute for Brain, Cognition and Behavior of the Radboud University
- Official representative (speaker) of the 'Plasticity and Memory' Theme of the Donders Institute for Brain, Cognition and Behavior (2011-2015)
- Leader of Radboudumc Research Theme 'Neurodevelopmental disorders'
- Member of Radboudumc Research Council
- Member of the Committee evaluating candidates for Associate Professorships at the Radboud University Faculty of Medicine - Radboud university medical center (since 2012)
- Member of the Research Quality Committee evaluating Principal Investigators at Radboudumc (2014-2016)
- Member of the committee for restructuring of internal research funding at Radboudumc (2015)

### **National and international consortia**

- Coordinator of the MiND Consortium (EU Horizon 2020-funded investigating the mechanisms and potential treatments for the neurodevelopmental disorders ADHD and autism)
- Coordinator of the Aggessotype Consortium (EU FP7-funded consortium investigating aggression in ADHD and conduct disorder; [www.aggessotype.eu](http://www.aggessotype.eu))
- Coordinator of the International Multicentre persistent ADHD CollaboraTion (IMpACT; [www.impactADHDgenomics.com](http://www.impactADHDgenomics.com))
- Work package leader of the EU FP7 Health project Translational Adolescent and Childhood Therapeutic Interventions in Compulsive Syndromes (TACTICS: [www.TACTICS-project.eu](http://www.TACTICS-project.eu))
- Work package leader of the EU FP7 Health project Imaging genetics for mental disorders (IMAGEMEND: [www.IMAGEMEND.eu](http://www.IMAGEMEND.eu))
- Work package leader of the EU Horizon2020 Health project Comorbid conditions in ADHD (CoCA: <http://www.ru.nl/donders/agenda-news/vm-news/6-mio-euro-coca-research-adhd/>)
- Site PI for the IMI2 project Psychiatric Ratings using Intermediate Stratified Markers (PRISM)
- Member of the management team of the international ENIGMA (Enabling NeuroImaging Genetics through Meta-Analysis) consortium (<http://enigma.ini.usc.edu/>)
- PI in the national Gravitation project Language in Interaction (<https://www.languageininteraction.nl/home.html>)
- Member of the steering committee of the NWO Dutch Dyslexia Program (2007-2013)
- Chair of the Cognomics Program in Nijmegen and project leader of the Brain Imaging Genetics (BIG) Study (<http://cognomics.nl>)
- Member of the management team of the Nijmegen Biomedical Study (<http://www.nijmegenbiomedischestudie.nl/>)
- Member of the Psychiatric GWAS Consortium (PGC) (<http://www.med.unc.edu/pgc>)
- Member of the International ADHD Molecular Genetics Network (<http://adhdnet.com/wp/>)

### **Professional societies**

- Elected member of Academia Europaea
- First invited professional member of the patient organization ADHD-Europe
- Invited member of the European Network for Hyperkinetic Disorders (Eunethydis)
- Member of the International Society of Psychiatric Genetics (ISPG)
- Member of the European College of Neuropsychopharmacology (ECNP)
- Member of the ADHD World Federation
- Member of the Netherlands Society of Human Genetics (NVHG)
- Member of the Dutch Biobanking initiative BBMRI-NL

### **ADVISORY BOARDS:**

- Scientific Advisor to the Psychiatric Genomics Consortium under the PGC3 grant (since 2016)
- International Scientific Advisory Board of the German Centre for Developmental Psychiatry (Deutsches Zentrum fuer Entwicklungspsychiatrie, D-ZEP), Frankfurt, Germany (since 2015)
- Member of Advisory Committee for appointment of a W2 Professor at the Goethe University, Frankfurt am Main, Germany (2015)

- User Committee of the Technology Foundation STW large-scale grant ‘ImaGene’ on population imaging genetics ([www.imagene.nl](http://www.imagene.nl)) (since 2014)
- Member of Advisory Committees for appointment of professors at the Radboud University Faculty of Science, Mathematics, and Informatics (2009/2010, 2013) and the Faculty of Medicine (2011, 2012, 2013/2014, 2014)
- Member of Advisory Committees for Appointment of an Associate Professor at the Faculty of Medicine of the Radboud University Nijmegen (several since 2012), Chairperson of the Advisory Committee (2013)

#### **EDITORIAL AND REVIEWING ACTIVITIES:**

- Associate editor of the American Journal of Medical Genetics Part B: Neuropsychiatric Genetics (since 2011)
- Member of Editorial Advisory Board of The Lancet Psychiatry (since 2014)
- Member of the editorial advisory board for the Radboud University magazine VOX (since 2013)
- Member of the Academia Europaea reviewing board for new applications for the Physiology and Medicine Section (since 2016)
- Member of the Eunethydis Sagvolden Junior Travel Scholarship committee (since 2012)
- Member of External Reviewer Panel of the Dutch Brain Foundation (Nederlandse Hersenstichting; since 2012)
- Member of the Evaluation committee for Rubicon Mobility grants (Netherlands Organization for Scientific Research (NWO), 2015)
- Guest editor for special issue on aggression for the journal European Neuropsychopharmacology (2017)
- Guest editor for special section on aggression for the journal European Child and Adolescent Psychiatry (2017)
- Guest editor for special issue on adult ADHD for the American Journal of Medical Genetics Part B: Neuropsychiatric Genetics (2015)
- Guest editor for special issue on adult ADHD for the journal European Neuropsychopharmacology (2012)
- Ad hoc reviewer for international scientific journals in the fields of Genetics and Psychiatry: The Lancet, Nature, Nature Genetics, Proceedings of the National Academy of Sciences USA, Molecular Psychiatry, Biological Psychiatry, Archives of General Psychiatry/JAMA Psychiatry, Lancet Psychiatry, Human Molecular Genetics, Journal of Neuroscience, Journal of the American Association of Child and Adolescent Psychiatry, Neuropsychopharmacology, Translational Psychiatry, Expert Reviews of Neurology, European Child and Adolescent Psychiatry, American Journal of Medical Genetics Part B, Birth Defects Research Part A, Human Mutation, Journal of Child Psychology and Psychiatry, BMC Medical Genetics, European Journal of Human Genetics, International Journal of Neuropsychopharmacology, Psychopharmacology, Human Genetics, Biological Psychology, Human Brain Mapping, NeuroIMAGE, PLOS One, BMC Psychiatry, Expert Review of Neurotherapeutics.
- Reviewer of project proposals for national and international funding agencies: Dutch ‘Nationaal Asthma Fonds’ and NWO ‘Vernieuwingsimpuls’, ‘Nierstichting Nederland’, Action Medical Research (UK), Medical Research Council (MRC, UK), Wellcome Trust (UK), ‘Telethon’ (Italy), ‘Deutsche Forschungsgemeinschaft’ (DFG, Germany), Research Council of Norway, National Health & Medical Research Council (NHMRC, Australia), Swiss Cancer League (Switzerland); Agence Nationale de la Recherche (ANR, France), National Council for Scientific and Technological Development (CNPq) - National Institutes of Science and Technology (INCT)

Program (Brazil), EU Framework Program 7 ERC Program, EU Flagship Human Brain Project, ERA-NET NEURON, EU Horizon 2020 ERC Program.

- Member of Donders Centre for Neuroscience Grant Evaluation Committee (2008-2012)

#### **OTHER ACADEMIC ACTIVITIES**

- Nominated candidate for Board of Directors of the International Society of Psychiatric Genetics (ISPG) in elections 2010 and 2012
- Member of ethics committee for scientific research in humans, CMO Arnhem/Nijmegen (2003/2004)
- Member of the committee for the organizational restructuring of the research divisions of the department of Human Genetics (2011)
- Facilitator enabling switch of Dr. Kees Albers from Cambridge (Sanger Institute) to Nijmegen through Hypatia Fellowship
- Host to guest researchers:
  - Stephanie Berger (Master student at the University of Wuerzburg, Germany; visiting on Erasmus Scholarship, 2013; 3 months)
  - Andreia Torres da Silva Marques (PhD student from the University of Coimbra, Portugal; visiting on scholarship from the Portuguese Foundation for Science and Technology, 2013-2014; 8 months)
  - Dr. Sarah Medland (QIMR Berghofer Medical Research Institute, Brisbane, Australia; Visiting Professor on KNAW Fellowship, 2014; several visits)
  - Julia Dauernheimer Machado (medical student from the University of Porto Alegre, Brazil; visiting on Science without Borders scholarship, 2014-2015; 12 months)
  - Zhaomin Wu (PhD student from the University of Beijing, China; visiting on China Scholarship Council (CSC) Scholarship, 2014-2016; 24 months).
  - Prof. Dr. Jan Haavik (University of Bergen, Norway; Visiting Professor on sabbatical, 2014; 4 months)
  - Ting Li, PhD-student with funding from China Scholarship Council (CSC), 2015-2018, 36 months
  - Dr. Nina Roth Mota (postdoc from Universidade Federal do Rio Grande do Sul, Porto Alegre, Rio Grande do Sul, Brazil, 2016; 2.5 months)
  - Annika Weiß (Master student Medical Biology, University Duisburg-Essen, Germany, 2016, 6 months on Erasmus funding)
  - Planned Radboud Excellence Visting Professorship for Prof. Dr. Stephen V Faraone (SUNY Upstate, Syracuse, NY, USA, 2017; 4 months)

#### **AWARDS**

- Invitation to become first professional member of the patient representation organization ADHD-Europe (from 2017)
- Invitation to join Academia Europaea (2015)
- ECAP-ADHD-Paper of the Year 2015 Award for: van Ewijk H, Noordermeer SD, Heslenfeld DJ, Luman M, Hartman CA, Hoekstra PJ, Faraone SV, Franke B, Buitelaar JK, Oosterlaan J. The influence of comorbid oppositional defiant disorder on white matter microstructure in attention-

deficit/hyperactivity disorder. Eur Child Adolesc Psychiatry. Epub ahead of print 2015 Oct 27. PubMed PMID: 26507746.

- NWO Vici Personal Grant for excellent researchers, 2013 (1.500.000 Euro for research)
- Hermesdorfprize International 2013 award of the Radboud University for international media coverage of research in 2012
- NWO Aspasia Premium for excellent female researchers, 2012 (150.000 Euro for research)
- Topcentre for Genetic and Metabolic Diseases (TGM): Lustrum award for research and teaching activities, 2007
- Affymetrix Power Award, 2007

#### **RESEARCH PROPOSALS GRANTED:**

**2017:** EU Horizon2020 Program: Effects of Nutrition and Lifestyle on Impulsive, Compulsive, and Externalizing behaviors - Eat2BeNICE (H2020-SFS-2016-2, 728018), total grant volume € 11.100.000, € 425.000 allocated to Franke, 5 years.

**2016:** Donders Centre for Neuroscience: Meta-analytic discovery science in the genetics of functional connectivity (Radboudumc competition for research funding, PIs: Franke, Beckmann), € 220.000 for 1 PhD student, 4 years.

**2015:** EU Horizon2020 Program: Psychiatric Ratings using Intermediate Stratified Markers – PRISM (H2020-IMI2-JTI-2015-03 | Topic 3 – 115916), total grant volume € 8.080.000, € 220.000 allocated to Franke, 3 years.

EU Horizon2020 Program: Comorbid Conditions of attention-deficit/hyperactivity disorder – CoCA (H2020-PHC-03-2015-667302-2), total grant volume € 6.000.000, workpackage leader, € 240.000 allocated to Franke, workpackage leader for WP9 (Impact & Dissemination), 5 years.

**2014:** EU Horizon2020 Program, European Training Network: Mastering skills in the training Network for attention deficit hyperactivity and autism spectrum Disorders - MiND (H2020-MSCA-ITN-2014 SEP-210159050; 643051); € 3.900.000, coordinator and PI, € 827.000 allocated to Franke, 4 years.

NIH Big Data to Knowledge (BD2K) Program, Centres of Excellence (RFA-HG-13-009): ENIGMA Center for Worldwide Medicine, Imaging and Genomics (U54 HG008023-01, PI Paul Thompson), total grant volume \$ 11.000.000; \$ 400.000 allocated to subcontract-PI Franke, 4 years.

**2013:** NWO Vici Grant: Networking through ADHD biology. (016.130.669; PI: Franke; € 1.460.000, 5 years).

EU Framework Program 7: Aggression subtyping in child psychiatric disorders - AGGRESSOTYPE (EU FP7 HEALTH-F2-2013-602805; € 6.000.000, coordinator and workpackage leader, € 557.000 allocated to Franke, workpackage leader for WP5 (imaging genetics), 5 years).

EU Framework Program 7: Imaging genetics for mental disorders - IMAGEMEND (EU FP7 HEALTH-F2-2013-602450; € 6.000.000, € 210.000 allocated to Dr. Franke, workpackage leader for WP2 (diagnostic markers), 5 years).

**2012:** EU Framework Program 7: Translational Adolescent and Childhood Therapeutic Interventions in Compulsive Syndromes - TACTICS (EU FP7-HEALTH-F2-2011-278948; € 6.000.000 of which € 516.000 allocated to Dr. Franke, workpackage leader for WP5 (phenotyping and genotyping), 5 years).

- ZonMw Priority Medicines voor kinderen: Methylphenidate Treatment and the Developing Brain in Attention-Deficit/Hyperactivity Disorder (PIs: Hoekstra, Buitelaar, Franke, Oosterlaan; € 207.000 for 1 PhD student plus bench fee, 4 years).
- NWO EW Free Competition: More Confidence in Causal Modeling. (PIs: Mooi, Heskes, Franke; € 200.000 for 1 postdoc plus bench fee, 3 years).
- NWO Aspasia Award (015.008.009): € 150.000 for research of PI Franke.
- 2011:** NWO Brain & Cognition BCSI Grant: Cognitive markers for persistent versus remittent ADHD (PIs: Buitelaar, Franke, Oosterlaan; € 328.000 for 1 PhD student plus bench fee, 3 years).
- 2010:** BBMRI-Complementation project: The Brain Imaging Genetics (BIG) project, a treasure trough for genes involved in brain function and dysfunction. (PIs: Fernandez, Franke; € 50.000 for enrichment and harmonization of BIG database)
- NWO Brain & Cognition Excellence Grant: From genetic pathways to cognition in ADHD: a question of the right connections? (PIs: Franke, Schenck, Norris, Buitelaar; € 504.000 for PhD student and postdoc plus bench fee, 4 years).
- NWO Brain & Cognition Excellence Grant: How does the neural architecture of cognition map on its genetic architecture? (PIs: Buitelaar, Franke, Kappen; € 500.000 for PhD student and postdoc plus bench fee, 4 years).
- 2009:** ZonMW, addiction program: Substance Abuse Disorders in Adolescence and Young Adulthood: A Follow-up Study of an ADHD Cohort. In Search of Clinical, Cognitive and Genetic Risk Factors. (PIs: Buitelaar, Sergeant, Franke; € 329.000 for PhD student and bench fee)
- Donders Centre for Neuroscience, Depts of Psychiatry, Human Genetics, Cognitive Neuroscience: Looking for the missing heritability: new statistical methods for the analysis of complex disorders, ADHD as a show case. (PIs: Franke, Kappen; € 200.000 for PhD student/postdoc)
- 2008:** Hersenstichting Nederland: Het Brain Imaging Genetics (BIG) project: De invloed van genen voor ziekte op de structuur van de hersenen. Kan de associatie van genen met hersenstructuur ons meer inzicht geven in het onderliggende mechanisme van ziekte? De ziekte van Alzheimer als voorbeeld. (PI: Fernandez, Franke, Rijpkema; € 25.000 for genotyping of candidate genes)
- Investerings NWO-groot (1750102007010): From Gene to Neural Function in ADHD. Enriching the Dutch database of the International Multisite ADHD Genetics (IMAGE) project (PI: Buitelaar, Sergeant, Minderaa, Senior investigator with funding: Franke; total budget € 1,581,230)
- Donders Centre for Neuroscience: Genes to remember. (PI's: Fernandez, Franke, Tendolkar; € 100.000 for 1 year postdoc + genotyping)
- NIH award for Psychiatric GWAS Consortium (PGC): \$ 31.000 for mega-analyses of ADHD
- NWO Brain & Cognition Joint Forces Grant: IMpACT, the International Multicentre persistent ADHD CollaboraTion (€ 9.800 for organization of an international workshop)
- NWO Brain & Cognition Joint Forces Grant: Dyslexia: integrating developmental trajectories, early detection and intervention, and co-morbidity (€ 9.800 for organization of an international workshop)
- 2007:** Radboud University Nijmegen Medical Centre: Funding for Real-Time PCR system (€ 25.000)
- Hersenstichting Nederland 14F06(2).70: Een genetische associatiestudie voor geselecteerde kandidaatgenen uit dezelfde hypothetische neurobiochemische pathway in een Nederlandse

- populatie van dyslectische kinderen. (PI: Franke; 0.4 fte technician + bench fee for one year, € 25.000)
- Shire USA: Substance use disorders in ADHD: following up the Dutch IMAGE families. (PIs Faraone, Buitelaar; \$ 195.700)
- Hersenstichting Nederland 15F07(2).27: De genetica van ADHD (Attention Deficit/Hyperactivity Disorder) bij volwassenen, een onderzoek naar neuropsychologie en neuroimaging. (PI: Buitelaar, Franke; 0.5 fte research assistant + bench fee for one year, € 24.930)
- Hersenstichting Nederland 15F07(2).62: Gen-omgevingsinteracties bij de unipolaire depressieve stoornis. De rol van de serotonine transporter, brain-derived neurotrophic factor (BDNF), geslacht, neuroticisme en life events. (PI: Janzing, Franke; 1 fte technician + bench fee for three months, € 18.121)
- 2006:** NWO Dyslexia Program: Biobanking the NWO longitudinal study (PI Franke: € 45.000)
- ZonMw, Doelmatigheidsprogramma + Klinisch Genetisch Centrum Nijmegen: Pharmacogenetic testing in the clinical setting: is screening for TPMT genotype a cost-effective treatment strategy? The first prospective randomized controlled trial within the Dutch health care system (PI Franke, co-PI's Scheffer, de Jong, Guchelaar; 1.0 fte postdoc + 1 fte technician for 3 years, €508.000)
- Nierstichting Nederland (C062180): Identification of genetic risk factors in the aetiology of anomalies belonging to the renal dysplasia spectrum. (PI Knoers, Co-PI's Blom, Franke; 1.0 fte postdoc for 3 years; € 209.800)
- FNIH, Genetic Association Information Network (GAIN): Genotyping of 600.000 SNPs in 1000 trio's with ADHD-affected child from the IMAGE cohort of ADHD. (PI Faraone)
- 2005:** Radboud University Nijmegen Medical Centre: Funding for four-colour microarray scanner (€ 94.500)
- Radboud University Nijmegen Medical Centre: ADHD in adults: brain morphology and neuropsychology as intermediate phenotypes between genes and clinical phenotype (PI's Franke, Buitelaar; PhD student + bench fee for 4 years, € 250.000)
- Koningin Wilhelmina Fonds: Allelic imbalance analysis using SNP markers for the detection of bladder cancer recurrences. (PI's Kiemeney, Franke, Witjes; 0.5 fte postdoc + benchfee for 2 years, € 200.000)
- SEIN: Pharmacogenetics of epilepsy treatment with carbamazepine (PI's Deckers, Franke: € 8.000 per year for 3 years for sample collection and genotyping)
- 2004:** NWO-INV: Enriching TRAILS (PI's: Ormel, Verhulst, Minderaa, € 1.200.000 for biobanking TRAILS)
- Hersenstichting: Onderzoek naar de genetische oorzaken van dyslexie: voortzetting van een succesvol onderzoek (PI: Franke; 0.4 fte technician + bench fee for one year, € 24.881)
- Hersenstichting: Onderzoek naar de genetische oorzaken van ADHD (attention-deficit/hyperactivity disorder) bij volwassenen (PI's: Buitelaar, Franke; 0.4 fte technician + bench fee for one year, € 24.926)
- 2003:** Prinses Beatrix Fonds: Genetic variation in folic acid-related genes as risk factor for neural tube defects - a new approach. (PI's: Franke, Blom; postdoc + bench fee for 2 years, € 145.905)
- Wyeth: Pharmacogenetics of venlafaxine treatment in psychotic depression. (PI's: Verkes, Franke; € 10.000 for genotyping)
- Astra Zeneca: Pharmacogenetics of quetiapine treatment in psychotic depression. (PI's: Verkes, Franke; € 9.000 for genotyping)

ZonMW, addiction program: Interactions between 3,4-Methylenedioxymethamphetamine (MDMA or 'ecstasy') and alcohol, cannabis, and physical exercise in humans: cognitive, serotonergic, cardiovascular and antidiuretic effects (PI: Verkes; PhD student + bench fee for 4 years)

UMC Nijmegen: Pharmacogenomics of anti-TNF treatment in rheumatoid arthritis. (PI's: Franke, Barrera; PhD student + bench fee for 4 years, € 243.000)

UMC Nijmegen: Genes and Environment in Attention-deficit / Hyperactivity Disorder (ADHD). (PI: Buitelaar; PhD student + bench fee for 4 years, € 243.000)

**2002:** UMC Nijmegen: Implementation of a SNP microarray facility for genotyping and mutation analysis for use by the UMC Nijmegen. (PI's: Franke, Kiemeny, Scheffer; Postdoc + bench fee for 2 years, € 113.445)

ZonMW, addiction program: Role of gene-environment interactions in alcohol addiction. (PI's: Ellenbroek, Cools, Verkes; PhD student + bench fee for 4 years; € 230.000)

**2000:** Prinses Beatrix Fonds: The genetic defect of the Bent tail mouse, a mouse model for X-linked neural tube defects: (A) relevance of the genes causing Bent tail in human NTDs; (B) the effect of folinic acid, inositol and zinc on the Bent tail phenotype. (PI: Franke; Technician + bench fee for 1 year, € 45.021)

## **PRESENTATIONS (ORAL)**

### **National**

- MGC PhD course, Rotterdam: *Neural tube defects*. May 2001
- Central Animal Laboratory KUN/UMCN, Nijmegen: *The Bent tail mouse*. May 2001
- Working group Tumordiagnosics, UMCN, Nijmegen: *Analysis of genetic variation, why and how?* June 2002
- Working group Diagnostics of multifactorial disorders of the Topcenter for Genetic and Metabolic diseases (TGM), UMCN, Nijmegen: *Genetic variation and DNA-diagnostics*. February 2003
- *Pharmacogenetics of epilepsy*: 1) Epilepsy working group UMCN Nijmegen, January 2003, 2) Epilepsy working group Leiden, January 2003 3) Epilepsy working group Heemstede, April 2003
- Working group Renal diseases of the Topcenter for Genetic and Metabolic diseases (TGM), UMCN, Nijmegen: *Analysis of genetic variation*. May 2003
- NTD symposium: Neural tube defects: folate and beyond, Soeterbeek: *Nutrients, genetics and NTD*. September 2003 (co-organizer and chairperson)
- Minisymposium Pharmacogenetics, Internal Medicine, UMCN, Nijmegen: *Pharmacogenetics: New possibilities for DNA-diagnostic services*. September 2003
- TGM symposium, UMCN, Nijmegen: 'High Throughput techniques': *Pharmacogenetics in research and diagnostic services, an application for 'high throughput genotyping*. November 2003
- Ethical review committee Arnhem/ Nijmegen: *Ethical considerations at the Department of Human Genetics*. March 2004
- Minisymposium Pedagogy, UMCN, Nijmegen: *Genetics and behavior*. June 2004
- Geestkrachtdag, Rotterdam: *TRAILS and Genetics*. September 2004
- Masterclass Neurocognition, Utrecht: *Genetics of developmental dyslexia*. April 2005
- GeNeYous symposium, Oss 2005: *Pharmacogenomics*. April 2005
- Symposium of Research Institute for Behavioral and Cognitive Neurosciences (BCN), Groningen: *Genetics of ADHD*. May 2006

- Symposium “ADHD bij kinderen en volwassenen. Nieuwste inzichten in diagnostiek en behandeling”, Zwolle: *Genetische aspecten van ADHD*. June 2006
- Annual Meeting of the National Neuropsychology Society, Amsterdam: *Genetics of Developmental Dyslexia*. November 2006
- Symposium “Polymorphic genes, compromised adaptation”, Zwolle: *Dopaminergic genes in ADHD: linkage and association findings*. February 2007
- Spring-symposium NVHG (Nederlandse Vereniging voor Humane Genetica), Amsterdam: *Genome-wide association study in ADHD*. March 2008
- Bussum Symposium Psychiatrie, Bussum: *Genetic research in autism and ADHD: the role in treatment*. October 2009
- Artsenkennisnetwerk ADHD, Utrecht: *Genetics of ADHD: Approaches and Findings*. October 2009
- Radboud University Nijmegen, Department of Cellular Animal Physiology, Nijmegen: *Genetics of ADHD: Approaches and Findings*. November 2009
- Vrije Universiteit Amsterdam, Department of Biological Psychiatry, Amsterdam: *Genetics of ADHD: Approaches and Findings*. November 2009
- Maastricht University, Department of Neuropsychology and Psychopharmacology, Maastricht: *Genome-wide association study of regional brain volume in 600 individuals suggests involvement of known psychiatry candidates, identifies new candidates for psychiatric disorders and points to potential modes of their action*. January 2010
- Donders Institute for Brain, Cognition and Behavior, Nijmegen: *Gene-finding in ADHD: Approaches and findings*. February 2010
- Nederlandse Vereniging voor Psychiatrie, Voorjaarssymposium 2011, Amsterdam: *Genome-wide association studies in ADHD*. March 2011
- Spring-symposium NVHG (Dutch Organization for Human Genetics), Veldhoven: *Local brain structure alteration is a mediator of genetic risk for neuropsychiatric disorders and facilitates gene finding in these disorders*. April 2011
- Utrecht University, Department of Psychiatry, Utrecht: *Genetics of psychiatric disease: From statistical p-values to biological function*. August 2011
- Dutch Dyslexia Programme, Concluding Symposium, Amsterdam: *The genetic component of developmental dyslexia: an update and results from the Dutch Dyslexia Programme*. December 2011
- Jelgersma Lecture, Leiden University, Leiden: *Genetics of psychiatric disease: From statistical p-values to biological function*. October 2012
- Keynote lecture at yearly meeting of the Centre for Molecular and Biomolecular Bioinformatics (CMBI), Nijmegen: *Molecular Psychiatry: between statistics and biology*. October 2012
- Hersenstichting Nederland, Publieksdag 2013, Utrecht: *Dyslexie: van gen naar brein*. September 2013
- Invited Lecture at Annual Meeting Neuroscience Campus Amsterdam, Amsterdam: *From correlation to causation in psychiatric genetics*. April 2014
- Erasmus Summer Program, Rotterdam. Master class: Advances in Genomics Research. *Genetics of psychiatric disorders and biological mechanisms from gene to phenotype*. August 2014
- 15<sup>th</sup> National Autism Congress, Rotterdam: *Genetics: State of the art, for Dummies*. March 2015
- 4<sup>th</sup> SWP-Hersencongres ‘Abnormaal zo gek nog niet’, Amsterdam: *Het slaan van genetische piketpaaltjes: epigenetica*. March 2015

- Radboud Science Day 2015, Nijmegen: *The Cognomics Initiative*. April 2015
- Keynote Lecture at Donders Discussions, Nijmegen: *Psychiatric genetics: how to build a career amongst big data and big biological questions?* November 2015
- Maastricht Brain Imaging Center (M-BIC) Lecture Series, Maastricht: *Cognomics: making sense of genetic factors for psychiatric disorders by exploring their effect on brain phenotypes*. January 2016
- Voorjaarscongress Nederlandse Vereniging voor Psychiatrie, Maastricht: *ENIGMA: the power of collaboration*. April 2016
- Natuurwetenschappelijk Genootschap Wageningen, Lezingenreeks 2015-2016, Wageningen: *Van genetische aanleg naar klinisch fenotype in ADHD*. April 2016
- Utrecht University X-talks Structure and Connections Lecture Series, Utrecht: *From gene to ADHD via the brain – working towards causality*. September 2016
- Groningen University, Symposium on ADHD imaging, Groningen: *Pathways from gene to disease in ADHD: imaging genetics*. December 2016
- Groningen University, Symposium on ADHD imaging and genetics, Groningen: *Consortium Science: how international collaboration moves our research in psychiatry forward – examples for ADHD*. January 2017

### **International**

- Hematology Division, Brigham & Women's Hospital, Boston, MA, USA: *Towards identification of the function of Rap1 in platelets*. August 1998
- American Society of Human Genetics (ASHG), Philadelphia, PA, USA: *The genetic defect of Bent tail*. October 2000
- Neural Tube Conference 2002, Charleston, SC, USA: *Nutrients, genetics and NTD*. May 2002
- Institute of Psychiatry, King's College London, London, UK: *Genetics of ADHD, approaches to gene finding*. February 2006
- European Network for hyperkinetic disorders (Eunethydis) meeting, Cagliari, Sardinia, Italy: *IMAGE to GAIN. Molecular genetics studies in IMAGE*. Oktober 2007
- European College of Neuropsychopharmacology (ECNP) Meeting, Vienna, Austria: *Adult prognosis of ADHD by polymorphisms in the dopaminergic system*. October 2007
- 8<sup>th</sup> ADHD Molecular Genetics Network Meeting, Sanibel Island, FL, USA: *The adult ADHD genomics consortium*. December 2007
- World Congress of Psychiatry, Prague, Czech Republic: *Genome-wide association studies in ADHD*. September 2008
- GAIN Analysis III Workshop, Philadelphia, PA, USA: *Copy number analysis in ADHD*. November 2008
- 9<sup>th</sup> ADHD Molecular Genetics Network Meeting, Sanibel Island, FL, USA: *IMpACT, an update from the International Multicentre Persisting ADHD CollaboraTion*. December 2008
- 2<sup>nd</sup> International Congress on ADHD, Vienna, Austria: *Genome-wide association studies in the IMAGE project*. May 2009
- Central Institute of Mental Health, Mannheim, Germany: *Genetics of ADHD: Approaches and findings*. June 2009
- European College of Neuropsychopharmacology (ECNP) Meeting, Istanbul, Turkey: *ADHD from childhood to adulthood: testing the IMAGE candidates in IMpACT*. September 2009

- XVI<sup>th</sup> World Congress of Psychiatric Genetics, San Diego, California, USA: *Genome-wide association study of regional brain volume in 600 individuals suggests involvement of known psychiatry candidates, identifies new candidates for psychiatric disorders and points to potential modes of their action.* November 2009
- XVI<sup>th</sup> World Congress of Psychiatric Genetics, San Diego, California, USA: *A neurodevelopmental network for ADHD: Integrating GWAS findings.* November 2009
- 10<sup>th</sup> ADHD Molecular Genetics Network Meeting, Sanibel Island, FL, USA: *IMpACT, an update from the International Multicentre Persisting ADHD CollaboraTion.* December 2009
- First International ADHD Congress of the European Network for hyperkinetic disorders (Eunethydis), Amsterdam, The Netherlands: *Genetic effects in ADHD: Current state of the art.* May 2010
- XVII<sup>th</sup> World Congress of Psychiatric Genetics, Athens, Greece: *Intermediate phenotypes based on neuroimaging help in gene finding and characterization of the effects of ADHD risk factors.* October 2010
- 60<sup>th</sup> Annual Meeting of the American Society of Human Genetics, Washington, DC, USA: *Local brain structure alteration is a mediator of genetic risk for neuropsychiatric disorders and facilitates gene finding in these disorders.* November 2010
- 11<sup>th</sup> ADHD Molecular Genetics Network Meeting, Sanibel Island, FL, USA: *On Bayesian approaches to genome-wide association and the International Multicentre Persisting ADHD CollaboraTion (IMpACT).* December 2010
- Department of Child and Adolescent Psychiatry and Psychotherapy, University of Duisburg-Essen, Essen, Germany: *Genetics of ADHD, approaches and findings.* April 2011
- 3<sup>rd</sup> World Congress on ADHD, Berlin, Germany: *Plenary lecture: Genetic contribution to the development of ADHD: Current state of the art.* May 2011
- 3<sup>rd</sup> World Congress on ADHD, Berlin, Germany: *Brachiating along the developmental trajectory - on the persistence of intermediate ADHD phenotypes.* May 2011
- European Network for hyperkinetic disorders (Eunethydis) meeting, Budapest, Hungary: *GWAS versus Geeweezz, what have we learned from genome-wide association?* September 2011
- 1<sup>st</sup> UK Adult ADHD Network (UKAAN) / European Network Adult ADHD Conference, London, UK: *The genetics of ADHD in adults.* September 2011
- European College of Neuropsychopharmacology (ECNP) Meeting, Paris, France: *New molecular pathways in ADHD: basic, translational and clinical implications.* September 2011
- 4<sup>th</sup> Nordic Psychiatry Academy ADHD, Copenhagen, Denmark: *Genetics in ADHD – an update.* November 2011
- Second International ADHD Congress of the European Network for hyperkinetic disorders (Eunethydis), Barcelona, Spain: *Functional Genomics in ADHD.* May 2012
- 12<sup>th</sup> ADHD Molecular Genetics Network Meeting, Hamburg, Germany: *The International Multicentre Persisting ADHD CollaboraTion (IMpACT), an update.* October 2012
- Department of Psychiatry, Asan Medical Center, Seoul, Korea: *Genetics and biology of ADHD.* November 2012
- 1<sup>st</sup> Asian Congress on ADHD, Seoul, Korea: *Plenary lecture: The genetics of ADHD: between statistics and biology.* November 2012
- The Mind Research Network, Albuquerque, NM, USA: *Genetics of brain structure and function.* April 2013
- 4<sup>th</sup> World Congress on ADHD, Milan, Italy: *Hot topic symposium: How genetics can inform the concept of at risk in ADHD?* June 2013

- 4<sup>th</sup> World Congress on ADHD, Milan, Italy: *Hot topic symposium: Large-scale multicenter genetic studies in ADHD?* June 2013
- 6<sup>th</sup> INCF Congress on Neuroinformatics, Stockholm, Sweden: *Plenary lecture: Cognomics – how to map interindividual genetic variability onto variability in human behavior.* August 2013
- XX<sup>th</sup> World Congress of Psychiatric Genetics, Boston, MA, USA: *Model Systems for Mapping Biological Pathways from Gene to Disease in ADHD.* October 2013
- Institute D’Or for Research and Education (IDOR), Rio de Janeiro, Rio de Janeiro, Brazil: *Neural correlates of ADHD: from adolescence to adulthood.* November 2013
- Department of Psychiatry, Universidade Federal do Rio Grande do Sul, Porto Alegre, Rio Grande do Sul, Brazil: *Genetics of ADHD: from statistics to biology.* November 2013
- 3<sup>rd</sup> International ADHD Congress of the European Network for hyperkinetic disorders (Eunethydis), Istanbul, Turkey: *Fast forward in aggression research.* May 2014
- 29<sup>th</sup> World Congress of the College of International Neuropsychopharmacology (CINP), Vancouver, Canada: *Overlap and differences between ADHD and conduct disorder: Imaging genetics approaches.* June 2014
- 2<sup>nd</sup> UK Adult ADHD Network (UKAAN) / European Network Adult ADHD Conference, London, UK: *The genetics of ADHD in adults, an update.* September 2014
- XXII<sup>nd</sup> World Congress of Psychiatric Genetics, Copenhagen, Denmark: *Aggression in ADHD and Conduct Disorder: Impulsive and Instrumental Subtypes.* October 2014
- European College of Neuropsychopharmacology (ECNP), Berlin, Germany: *Do ADHD risk factors act on brain connectivity in children and adults with ADHD?* October 2014
- Goethe University, Department of Psychiatry, Psychosomatics and Psychotherapy, Frankfurt am Main, Germany: *Consortium Science: how can international collaboration move forward our research in psychiatry?* November 2014
- XXXIV<sup>th</sup> congress of the German Deutsche Gesellschaft fuer Kinder und Jugend Psychiatrie, Psychosomatik und Psychotherapie (DGKJP), München, Germany: *Aggressionsproblematik bei kinderpsychiatrischen Störungen - von biologischen Mechanismen zu effektiver Behandlung: das Aggessotype Konsortium.* March 2015
- 5<sup>th</sup> World Congress on ADHD, Glasgow, UK: *Research Consortia symposium: Consortium Science: How can international collaboration move forward our research on psychiatric disorders and ADHD in particular?* May 2015
- Keynote lecture for Opening Symposium of the German Centre for Developmental Psychiatry (D-ZEP), Frankfurt, Germany: *Molecular psychiatry of neurodevelopmental disorders: from gene finding to understanding disease biology.* September 2015
- Annual meeting of the European Network for Hyperkinetic Disorders (Eunethydis), Stockholm, Sweden: *Mapping pathways from gene to disease in ADHD.* October 2015
- Annual meeting of the international ACTION Consortium, Amsterdam, The Netherlands: *The Aggessotype Consortium: aggression in the context of ADHD and conduct disorder.* October 2015
- Helmholtz Centre for Environmental Research, Leipzig, Germany: *Genetics of psychiatric neurodevelopmental disorders and pathways from gene to disease.* February 2016
- Annual General Meeting of the patient organization ADHD-Europe, Brussels, Belgium: *Research on ADHD in European consortia and the contribution of ADHD Europe.* February 2016
- Keynote lecture at the 26<sup>th</sup> Turkish Child and Adolescent Psychiatry Congress, Izmir, Turkey: *The Biology of ADHD – From Gene-Finding To Understanding Disease Risk.* April 2016

- 11<sup>th</sup> meeting on Copy Number Variants and Genes in Intellectual Disability and Autism, Troina, Sicily, Italy: *Genetic findings for ADHD and the neurodevelopmental disorders continuum*. April 2016
- Society of Biological Psychiatry (SOBP) Annual Meeting 2016, Atlanta, GA, USA: *Attention-deficit / hyperactivity disorder in adults: Alterations In Structural And Functional Connectivity And Their Behavioural Consequences*. May 2016
- ENIGMA Data Blitz at SOBP, Atlanta, GA, USA: Updates on the ENIGMA ADHD Working Group. May 2016
- Shire – Meeting of Minds VIII, Vienna, Austria: *What can we expect from genetics in ADHD in the coming years?* Plenary Lecture. June 2016
- University of Exeter, Complex Disease Epigenomics Group, Exeter, UK: *From correlation to causality in psychiatric genetics*. June 2016
- 55<sup>th</sup> Annual Meeting of the American College of Neuropsychopharmacology (ACNP), Miami, FL, USA: *Cortical Maturation Delays Characterize ADHD in a Large-Scale Mega-Analysis Across the Life-Span Performed by the ENIGMA-ADHD Working Group*. Hot Topic Presentation. December 2016
- Greifswald University Hospital, Ganimed (Greifswald Approach to Individualized Medicine) lecture, Greifswald, Germany: *The Biology of ADHD – From Gene-Finding To Understanding Disease Risk*. December 2016
- American Professional Society of ADHD and Related Disorders (APSARD) 2017 Annual Meeting, Washington DC, USA: *The biology of ADHD: from basic science to application in the clinic*. Plenary Lecture. January 2017
- Swiss Federal Institute of Technology (EPFL), School of Life Sciences, Lausanne, Switzerland: Presentation in the context of the Life Science Seminar Series: *From gene-finding to understanding disease risk in neurodevelopmental psychiatric disorders*. March 2017
- 6<sup>th</sup> World Congress on ADHD, Vancouver, Canada: *Epigenetics as a window to understanding the contribution of the environment to ADHD*. Plenary Lecture. April 2017
- 25<sup>th</sup> EPA 2017 European Congress of Psychiatry, Florence, Italy: *Dissecting heterogeneity in psychiatric disorders using imaging and genetic markers*. April 2017
- European Society of Human Genetics Annual Meeting, Copenhagen, Denmark: *New ways of studying brain anatomy*. Plenary Lecture. May 2017
- 30<sup>th</sup> European College of Neuropsychopharmacology (ECNP) Congress, Paris, France: *From genes to clinical phenotype in ADHD across the lifespan*. Keynote Lecture. September 2017

## **WEBINARS**

- Psychiatric Genomics Consortium World-wide Lab Meeting, webinar (with Paul Thompson): *The ENIGMA Consortium – exploring the genetic architecture of human brain structure*. October 2013
- NIDA Genetics Workgroup Webinar Series on Imaging Genetics: *Cognomics: from gene-finding to understanding the biology underlying psychiatric disorders*. March 2016

## **WORKSHOPS**

- 7<sup>th</sup> National Autism Congress, Rotterdam: *Genetics for Dummies*. March 2007
- Brain & Cognition Workshop on ADHD etiology, Amsterdam: *Genetics of ADHD: The IMAGE consortium*. April 2009

- Brain & Cognition Workshop on adult ADHD, the IMpACT symposium, Nijmegen (Organizer and chair): *The International Multicenter persistent ADHD CollaboraTion, IMpACT*. May 2009
- Brain & Cognition Workshop on developmental dyslexia, Amsterdam, NL: *Genetics of developmental dyslexia: Research within the Dutch Dyslexia Program*. May 2009
- World Congress of Biological Psychiatry, Paris, France: *Genetics of adult ADHD*. June 2009
- Graduierten Kolleg Emotions Spring School, Würzburg University, Schweinfurt, Germany: *From phenotype to genotype and back in Attention-Deficit/Hyperactivity Disorder*. April 2010
- Second Workshop on adult ADHD of the International Multicentre persistent ADHD CollaboraTion (IMpACT), Würzburg, Germany: *Imaging Genetics in Cognition*. June 2010
- European College of Neuropsychopharmacology (ECNP) Technical Expert Meeting (TEM), Amsterdam, NL: *New molecular pathways in ADHD: basic, translational and clinical implications*. August 2010
- Ghent-Southampton Bilateral Alliance for Translational Science in ADHD (BATSA), Ghent, Belgium: *Genetics of ADHD, state of the art*. January 2011
- Third Workshop on adult ADHD of the International Multicentre persistent ADHD CollaboraTion (IMpACT) and official opening of the KG Jebsen Centre for Research on Neuropsychiatric Disorders, Bergen, Norway: *What have we learned from molecular genetic studies on adult ADHD?* May 2011
- KNAW workshop Complex trait genetics: future of twin research. Amsterdam: *ENIGMA: Enhancing Neuro Imaging Genetics Through Meta-Analysis*. January 2013
- Fourth Workshop on adult ADHD of the International Multicentre persistent ADHD CollaboraTion (IMpACT) and UK Adult ADHD Network (UKAAN) workshop, London, UK: *The genetics of ADHD in adults*. September 2013
- Goethe University, Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Frankfurt am Main, Germany: *From gene to disease in ADHD*. November 2014
- ENIGMA Working Groups PI workshop, Honolulu, Hawaii, USA: *The ENIGMA-ADHD Working Group*. June 2015
- Workshop at the 26<sup>th</sup> Turkish Child and Adolescent Psychiatry Congress, Izmir, Turkey: *Genetics of ADHD*. April 2016
- Panel Discussion on progress in ADHD research during Shire - Meeting of Minds VIII, Vienna, Austria. June 2016

#### **EXPERTMEETINGS (INVITED PARTICIPATION)**

- European College of Neuropsychopharmacology (ECNP) Technical Expert Meeting (TEM), Amsterdam, NL: *New molecular pathways in ADHD: basic, translational and clinical implications*. August 2010
- Expertmeeting Neuroscience, Utrecht, NL: *Neuroscience in dialogue*. April 2011

#### **INTERACTIONS WITH PATIENT ORGANIZATIONS**

- Woortblind (Dutch organization for dyslexia): *Dyslexia, the biological side*. September 2011
- Regular expertmeetings with representatives of patient organizations for dyslexia and ADHD, Woortblind Balans, and Impuls. September 2014, September 2015
- Participation of patient organization ADHD Europe in EU FP7 consortium Aggrosotype, lead by Franke, with active contributions to dissemination and training (since 2013)

- Participation of patient organizations ADHD-Europe and ASD-Europe in EU Horizon2020 International Training Network MiND, lead by Franke, with active contributions to dissemination and training (since 2015)
- First invited professional member of ADHD-Europe (from 2017)

#### **INTERVIEWS AND GENERAL PUBLIC APPEARANCES**

- Press conference (+ television interview) for the European College of Neuropsychopharmacology Meeting, Istanbul, Turkey: *Genetics of adult ADHD*. September 2009
- Several interviews for popular press (daily newspapers, popular psychology magazines) including:
  - Quest, February 2008: *Lees je blind? Dyslexie: In de hersenen kijken*.
  - Psychologie Magazine, April 2011: *De kracht van kwetsbaarheid*.
  - Telegraaf, Mei 2012: *Slimmer door meer hersenvolume*.
  - Gelderlander, Mei 2012: *Des te meer hersenen, des te slimmer*.
  - Telegraaf, Februari 2013: *Miljoenenprijzen voor toponderzoekers*.
  - Gelderlander, Februari 2013: *Miljoenenprijzen voor toponderzoekers*.
- Several interviews for newsletters of patient organizations Woortblind (dyslexia), Impuls (ADHD) and Balans (neurodevelopmental disorders) (since 2008)
- TV program 'Pavlov' on ADHD (with actor Tygo Gernandt), December 2011
- TV program 'Pavlov' on dyslexia (with actor Egbert-Jan Weeber), March 2012
- Radio interview for Unique FM program 'Gezond en Wel'. *ADHD research*. February 2013
- Day for the public Hersenstichting 2013. *Dyslexie: van gen naar brein*. October 2013
- Information film about psychiatric research at the Radboud university medical center and the Donders Institute for Brain, Cognition and Behaviour by American Psychiatric Association (APA) TV. May 2014 ([https://youtu.be/o1IAqqA\\_u-o?list=PL9CZabk3nD4GYHmvAMXcp3KDLnbpe2giP](https://youtu.be/o1IAqqA_u-o?list=PL9CZabk3nD4GYHmvAMXcp3KDLnbpe2giP))
- Radio interview for BNR Radio. *Genes for aggression discovered*. October 2014
- Radio interview for NTR, Radio 5 program 'De Kennis van Nu'. *Genen voor hersenontwikkeling geïdentificeerd*. January 2015 (<http://www.npowetenschap.nl/programmas/de-kennis-van-nu/Radio-5/2015/Januari/22-1-2015-moleculaire-psychiatrie.html>; starts at 25.45 minutes)
- ECNP Matters, Spring 2015 edition. *The ECNP Network Initiative – Meeting the horizon*.
- Radio interview for NTR, Radio 5 program 'De Kennis van Nu'. *Depressie in de genen en toch gelukkig*. September 2015 (<http://npowetenschap.nl/site/artikel/Depressie--gen-maakt-gelukkig/7526>)
- Journalistiek eindverslag van het NWO-onderzoeksprogramma BCIA over de verbinding van hersenen en cognitie: Hersenen & cognitie: een geïntegreerde benadering. June 2016 (<http://www.nwo.nl/over-nwo/X+publicatie/nihc/brain-and-cognition-an-integrated-approach-bcia.html>)
- BBC Horizon documentary on ADHD with Rory Bremner (filming on January 26 2017, to be broadcasted in May 2017)

#### **MEETING ORGANIZATION**

- Scientific co-organizer and chairperson of symposium 'Neural tube defects: folate and beyond', Soeterbeek, NL (September 2003)

- Co-chairperson and discussion moderator of ‘ADHD genes’ session at the World Congress of Psychiatric Genetics, New York, USA (October 2007)
- Scientific organizer and chairperson of workshop on adult ADHD, Nijmegen, NL (May 2009)
- Scientific co-organizer of workshop on dyslexia, Amsterdam, NL (May 2009)
- Organizer and chairperson of session on adult ADHD at the World Congress of Psychiatric Genetics, Athens, Greece (November 2010)
- Chairperson of Hot Topic Symposium ‘IMpACT symposium on adult ADHD’ at the 3<sup>rd</sup> International Congress on ADHD, Berlin, Germany (May 2011)
- Scientific Committee Member of the 1<sup>st</sup> UKAAN/European Network Adult ADHD Conference, London, UK (September 2011)
- Organizer and chairperson of session on Neurogenetics at the International Conference on Human Genetics (ICHG/ASHG), Montreal, Canada (October 2011)
- Co-organizer and session chair, Dutch Dyslexia Programme, Conclusion Symposium, Amsterdam (December 2011)
- Chairperson for session on ADHD etiology at the 1<sup>st</sup> Asian Congress on ADHD, Seoul, Korea (November 2012)
- Chairperson of the yearly meeting of the Centre for Molecular and Biomolecular Bioinformatics (CMBI), Nijmegen, Netherlands (October 2012)
- Chairperson of session on complex genetics at the New Frontiers Symposium: Genomics in health and disease – towards personal genomics, Nijmegen, Netherlands (December 2012)
- Co-chairperson of session on ADHD genetics at the 4<sup>th</sup> International Congress on ADHD, Milan, Italy (June 2013)
- Member of program committee and session chair for the 23<sup>rd</sup> Eunethydis meeting, Prague, Czech Republic (October 2013)
- Member of the scientific program committee, session chair and Moderator of session on ENIGMA for the XXI<sup>st</sup> World Congress of Psychiatric Genetics, Boston, MA, USA (October 2013)
- Organizer and chairperson for all General Assembly and Steering Committee meetings of the FP7-funded Aggrestotype Consortium (2 times per year from November 2013)
- Organizer of summer school ‘Neuroimaging Genetics’ at Radboud University, Nijmegen, The Netherlands (August 2014)
- Member of the scientific program committee for the XXII<sup>nd</sup> World Congress of Psychiatric Genetics, Copenhagen, Denmark (October 2014)
- Session chair, moderator and discussant in several sessions of the XXII<sup>nd</sup> World Congress of Psychiatric Genetics, Copenhagen, Denmark (October 2014)
- Organizer and chairperson for all Annual Meetings of the H2020-funded MiND Consortium (from March 2015)
- Session chair for the XXXIV<sup>th</sup> congress of the German Deutsche Gesellschaft fuer Kinder und Jugend Psychiatrie, Psychosomatik und Psychotherapie (DGKJP), München, Germany: Aggressive Verhaltensweisen bei Kindern - Aggrestotype - ein EU-weites Forschungsprojekt zur Pathophysiologie und Therapiemöglichkeiten (March 2015)
- Organizer and chairperson for all Annual Meetings of the ECNP Network ADHD across the Lifespan (from March 2015)
- Member of the scientific program committee for the 5<sup>th</sup> World Congress on ADHD, Glasgow, UK (May 2015)
- Session organiser and chair for the 5<sup>th</sup> World Congress on ADHD, Glasgow, UK (May 2015)

- Member of the scientific program committee for the XXIII<sup>rd</sup> World Congress of Psychiatric Genetics, Toronto, Canada (October 2015)
- Chairperson of the 8<sup>th</sup> Annual meeting of the International Multicenter persistent ADHD Collaboration (IMpACT), Florianopolis, Brazil (November 2015)
- Organizer of summer school ‘Neuroimaging Genetics’ at Radboud University, Nijmegen, The Netherlands (August 2016)
- Chairperson of the Targeted Network Meeting of the ECNP Network ADHD across the Lifespan at the 29<sup>th</sup> ECNP Congress, Vienna, Austria (September 2016)
- Session organizer and chair for the 6<sup>th</sup> World Congress on ADHD, Vancouver, Canada (April 2017)
- Session chair for the 25<sup>th</sup> EPA 2017 European Congress of Psychiatry, Florence, Italy (April 2017)
- Organizer and chair of symposium on ‘recent developments in ADHD research’ at 30<sup>th</sup> European College of Neuropsychopharmacology (ECNP) Congress, Paris, France (September 2017)
- Member of the scientific program committee for the XXV<sup>th</sup> World Congress of Psychiatric Genetics, Orlando, USA (October 2017)