

Dorret Boomsma

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## Employment

### Full Professor

Biological Psychology

Vrije Universiteit Amsterdam

1 Jan 2000 → present

### Full Professor

Amsterdam Public Health - Mental Health

Vrije Universiteit Amsterdam

1 Jan 2017 → present

### Full Professor

Amsterdam Public Health - Methodology

Vrije Universiteit Amsterdam

1 Jan 2017 → present

### Full Professor

Amsterdam Neuroscience - Mood, Anxiety & Psychosis

Vrije Universiteit Amsterdam

1 Jan 2016 → present

## Research output

### EEG-based age-prediction models as stable and heritable indicators of brain maturational level in children and adolescents

Vandenbosch, M. M. L. J. Z., Ent, D. V. ., Boomsma, D. I., Anokhin, A. P. & Smit, D. J. A., 15 Apr 2019, In : Human Brain Mapping. 40, 6, p. 1919-1926 8 p.

### Testing Bidirectional Associations Between Childhood Aggression and BMI: Results from Three Cohorts

Derks, I. P. M., Bolhuis, K., Yalcin, Z., Gaillard, R., Hillegers, M. H. J., Larsson, H., Lundström, S., Lichtenstein, P., van Beijsterveldt, C. E. M., Bartels, M., Boomsma, D. I., Tiemeier, H. & Jansen, P. W., 8 Apr 2019, In : Obesity.

### Parental Education and Genetics of BMI from Infancy to Old Age: A Pooled Analysis of 29 Twin Cohorts

Silventoinen, K., Jelenkovic, A., Latvala, A., Yokoyama, Y., Sund, R., Sugawara, M., Tanaka, M., Matsumoto, S., Aaltonen, S., Piirtola, M., Freitas, D. L., Maia, J. A., Öncel, S. Y., Aliev, F., Ji, F., Ning, F., Pang, Z., Rebato, E., Saudino, K. J., Cutler, T. L. & 53 others Hopper, J. L., Ullemer, V., Almqvist, C., Magnusson, P. K. E., Cozen, W., Hwang, A. E., Mack, T. M., Willemsen, G., Bartels, M., van Beijsterveldt, C. E. M., Nelson, T. L., Whitfield, K. E., Sung, J., Kim, J., Lee, J., Lee, S., Llewellyn, C. H., Fisher, A., Medda, E., Nisticò, L., Toccaceli, V., Baker, L. A., Tuvblad, C., Corley, R. P., Huibregtse, B. M., Derom, C. A., Vlietinck, R. F., Loos, R. J. F., Knafo-Noam, A., Mankuta, D., Abramson, L., Burt, S. A., Klump, K. L., Silberg, J. L., Maes, H. H., Krueger, R. F., McGue, M., Pahlen, S., Gatz, M., Butler, D. A., Harris, J. R., Nilsen, T. S., Harden, K. P., Tucker-Drob, E. M., Franz, C. E., Kremen, W. S., Lyons, M. J., Lichtenstein, P., Jeong, H-U., Hur, Y-M., Boomsma, D. I., Sørensen, T. I. A. & Kaprio, J., 5 Apr 2019, In : Obesity.

### Large-scale plasma metabolome analysis reveals alterations in HDL metabolism in migraine

BBMRI Metabolomics Consortium, 3 Apr 2019, In : Neurology.

**Evidence of causal effect of major depression on alcohol dependence: findings from the psychiatric genomics consortium**  
Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium, Abdellaoui, A., Dolan, C. V., Hottenga, J. J., Middeldorp, C. M., Nivard, M. G., Posthuma, D., Willemsen, G., Boomsma, D. I., de Geus, E. J. C. & Ligthart, R. S. L., 1 Apr 2019, In : Psychological Medicine. p. 1-9 9 p.

**Associations between Loneliness and Personality are Mostly Driven by a Genetic Association with Neuroticism**  
Abdellaoui, A., Chen, H.-Y., Willemsen, G., Ehli, E. A., Davies, G. E., Verweij, K. J. H., Nivard, M. G., de Geus, E. J. C., Boomsma, D. I. & Cacioppo, J. T., Apr 2019, In : Journal of Personality. 87, 2, p. 386-397 12 p.

**Homogenizing Estimates of Heritability Among SOLAR-Eclipse, OpenMx, APACE, and FPHI Software Packages in Neuroimaging Data**  
Kochunov, P., Patel, B., Ganjgahi, H., Donohue, B., Ryan, M., Hong, E. L., Chen, X., Adhikari, B., Jahanshad, N., Thompson, P. M., Van't Ent, D., den Braber, A., de Geus, E. J. C., Brouwer, R. M., Boomsma, D. I., Hulshoff Pol, H. E., de Zubicaray, G. I., McMahon, K. L., Martin, N. G., Wright, M. J. & 1 others Nichols, T. E., 12 Mar 2019, In : Frontiers in Neuroinformatics. 13, p. 16

**Out of Control: Examining the Association Between Family Conflict and Self-Control in Adolescence in a Genetically Sensitive Design**  
Willems, Y. E., de Zeeuw, E. L., van Beijsterveldt, C. E. M., Boomsma, D. I., Bartels, M. & Finkenauer, C., 12 Mar 2019, In : Journal of the American Academy of Child and Adolescent Psychiatry.

**Aggressive behaviour in childhood and adolescence: the role of smoking during pregnancy, evidence from four twin cohorts in the EU-ACTION consortium**  
Malanchini, M., Smith-Woolley, E., Ayorech, Z., Rimfeld, K., Krapohl, E., Vuoksimaa, E., Korhonen, T., Bartels, M., van Beijsterveldt, T. C. E. M., Rose, R. J., Lundström, S., Anckarsäter, H., Kaprio, J., Lichtenstein, P., Boomsma, D. I. & Plomin, R., Mar 2019, In : Psychological Medicine. 49, 4, p. 646-654 9 p.

**Genetic Influences on the Development of Cerebral Cortical Thickness During Childhood and Adolescence in a Dutch Longitudinal Twin Sample: The Brainscale Study**  
Teeuw, J., Brouwer, R. M., Koenis, M. M. G., Swagerman, S. C., Boomsma, D. I. & Hulshoff Pol, H. E., Mar 2019, In : Cerebral Cortex. 29, 3, p. 978-993 16 p.

**Identification of common genetic risk variants for autism spectrum disorder**  
Autism Spectrum Disorder Working Group of the Psychiatric Genomics Consortium, BUPGEN, Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium & 23Andme Research Team, Mar 2019, In : Nature Genetics. 51, 3, p. 431-444 14 p.

**Multivariate genome-wide analyses of the well-being spectrum**  
BIOS Consortium, Mar 2019, In : Nature Genetics. 51, 3, p. 445-451 7 p.

**Skewed X-inactivation is common in the general female population**  
BIOS Consortium, Boomsma, D. I., Pool, R., van Dongen, J., Hottenga, J. J. & Willemsen, G., Mar 2019, In : European Journal of Human Genetics. 27, 3, p. 455-465 11 p.

**The Early Growth Genetics (EGG) and EARly Genetics and Lifecourse Epidemiology (EAGLE) consortia: design, results and future prospects**  
EARly Genetics Lifecourse Epidemiology (EAGLE) consortium & Early Growth Genetics (EGG) Consortium, Mar 2019, In : European Journal of Epidemiology. 34, 3, p. 279-300

**A Genetic Investigation of the Well-Being Spectrum**  
Baselmans, B. M. L., van de Weijer, M. P., Abdellaoui, A., Vink, J. M., Hottenga, J. J., Willemsen, G., Nivard, M. G., de Geus, E. J. C., Boomsma, D. I. & Bartels, M., 27 Feb 2019, In : Behavior Genetics.

**Genome-wide association analyses of risk tolerance and risky behaviors in over 1 million individuals identify hundreds of loci and shared genetic influences**

Social Science Genetic Association Consortium, 23and Me Research Team, eQTLGen Consortium & International Cannabis Consortium, 1 Feb 2019, In : Nature Genetics. 51, 2, p. 245-257 13 p.

**Eleven loci with new reproducible genetic associations with allergic disease risk**

23Andme Research Team, Feb 2019, In : Journal of Allergy and Clinical Immunology. 143, 2, p. 691-699 9 p.

**Genome-wide association meta-analysis of 30,000 samples identifies seven novel loci for quantitative ECG traits**

van Setten, J., Verweij, N., Mbarek, H., Niemeijer, M. N., Trompet, S., Arking, D. E., Brody, J. A., Gandin, I., Grarup, N., Hall, L. M., Hemerich, D., Lyytikäinen, L. P., Mei, H., Müller-Nurasyid, M., Prins, B. P., Robino, A., Smith, A. V., Warren, H. R., Asselbergs, F. W., Boomsma, D. I. & 41 othersCaulfield, M. J., Eijgelsheim, M., Ford, I., Hansen, T., Harris, T. B., Heckbert, S. R., Hottenga, J. J., Iorio, A., Kors, J. A., Linneberg, A., MacFarlane, P. W., Meitinger, T., Nelson, C. P., Raitakari, O. T., Silva Aldana, C. T., Sinagra, G., Sinner, M., Soliman, E. Z., Stoll, M., Uitterlinden, A., van Duijn, C. M., Waldenberger, M., Alonso, A., Gasparini, P., Gudnason, V., Jamshidi, Y., Kääb, S., Kanfers, J. K., Lehtimäki, T., Munroe, P. B., Peters, A., Samani, N. J., Sotoodehnia, N., Ulivi, S., Wilson, J. G., de Geus, E. J. C., Jukema, J. W., Stricker, B., van der Harst, P., de Bakker, P. I. W. & Isaacs, A., 24 Jan 2019, In : European Journal of Human Genetics.

**Association of amyloid pathology with memory performance and cognitive complaints in cognitively normal older adults: a monozygotic twin study**

Konijnenberg, E., den Braber, A., ten Kate, M., Tomassen, J., Mulder, S. D., Yaqub, M., Teunissen, C. E., Lammertsma, A. A., van Berckel, B. N. M., Scheltens, P., Boomsma, D. I. & Visser, P. J., 21 Jan 2019, In : Neurobiology of Aging. 77, p. 58-65 8 p.

**A Potential Role for the STXP5-AS1 Gene in Adult ADHD Symptoms**

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**Awareness and perceptions of clinical guidelines for the diagnostics and treatment of severe behavioural problems in children across Europe: A qualitative survey with academic experts**

Gatej, A-R., Lamers, A., van Domburgh, L., Crone, M., Ogden, T., Rijo, D., Aronen, E., Barroso, R., Boomsma, D. I. & Vermeiren, R., 15 Jan 2019, In : European Psychiatry. 57, p. 1-9 9 p.

**Genomics of 1 million parent lifespans implicates novel pathways and common diseases and distinguishes survival chances**

eQTLGen Consortium, 15 Jan 2019, In : eLife. 8, p. 1-40 40 p., e39856.

**Epigenome-wide association study of serum cotinine in current smokers reveals novel genetically driven loci**

Gupta, R., Van Dongen, J., Fu, Y., Abdellaoui, A., Tyndale, R. F., Velagapudi, V., Boomsma, D. I., Korhonen, T., Kaprio, J., Loukola, A. & Ollikainen, M., 5 Jan 2019, In : Clinical epigenetics. 11, 1, p. 1-13 13 p., 1.

**A linear mixed-model approach to study multivariate gene-environment interactions**

BIOS Consortium, 't Hoen, P. A., van Meurs, J. B. J., Isaacs, A., Jansen, R., Franke, L., Boomsma, D. I., Pool, R., van Dongen, J., Hottenga, J. J., Van Greevenbroek, M. J., Stehouwer, C. D. A., van der Kallen, C. J. H., Schalkwijk, C. G., Wijmenga, C., Zernakova, A., Tigchelaar, E. F., Slagboom, P. E., Beekman, M., Deelen, J. & 30 othersvan Heemst, D., Veldink, J. H., van den Berg, L. H., van Duijn, C. M., Hofman, B. A., Uitterlinden, A. G., Jhamai, P. M., Verbiest, M., Suchiman, H. E. D., Verkerk, M., van der Breggen, R., van Rooij, J., Lakenberg, N., Mei, H., van Iterson, M., van Galen, M., Bot, J., van't Hof, P., Deelen, P., Nooren, I., Moed, M., Vermaat, M., Zernakova, D. V., Luijk, R., Jan Bonder, M., van Dijk, F., Arindartanto, W., Kielbasa, P. S. M., Swertz, M. A. & van Zwet, E. W., Jan 2019, In : Nature Genetics. 51, 1, p. 180-186 7 p.

**Association of Whole-Genome and NETRIN1 Signaling Pathway-Derived Polygenic Risk Scores for Major Depressive Disorder and White Matter Microstructure in the UK Biobank**

Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium, Abdellaoui, A., Dolan, C. V., Hottenga, J. J., Mbarek, H., Middeldorp, C. M., Nivard, M. G., Posthuma, D., Willemsen, G., Boomsma, D. I., de Geus, E. J. C., W J H Penninx, B. & Jansen, R., Jan 2019, In : Biological Psychiatry: Cognitive Neuroscience and Neuroimaging. 4, 1, p. 91-100 10 p.

### **Discovery of the first genome-wide significant risk loci for attention deficit/hyperactivity disorder**

ADHD Working Group of the Psychiatric Genomics Consortium (PGC), Davies, G. E., Ehli, E. A., Fedko, I. O., Groen-Blokhuis, M. M., Hammerschlag, A. R., Hottenga, J. J., Hudziak, J. & Ouwens, K. G., Jan 2019, In : Nature Genetics. 51, 1, p. 63-75 13 p.

### **Genome-wide interaction study of a proxy for stress-sensitivity and its prediction of major depressive disorder**

Generation Scotland & Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium, 20 Dec 2018, In : PLoS ONE. 13, 12, p. 1-29 29 p., e0209160.

### **Blood metabolomic measures associate with present and future glycemic control in type 2 diabetes**

't Hart, L. M., Vogelzangs, N., Mook-Kanamori, D. O., Brahimaj, A., Nano, J., van der Heijden, A. A. W. A., Willems van Dijk, K., Slieker, R. C., Steyerberg, E. W., Ikram, M. A., Beekman, M., Boomsma, D. I., van Duijn, C. M., Slagboom, P. E., Stehouwer, C. D. A., Schalkwijk, C. G., Arts, I. C. W., Dekker, J. M., Dehghan, A., Muka, T. & 3 others van der Kallen, C. J. H., Nijpels, G. & van Greevenbroek, M. M. J., 1 Dec 2018, In : Journal of Clinical Endocrinology and Metabolism. 103, 12, p. 4569-4579 11 p.

### **Identifying gene targets for brain-related traits using transcriptomic and methylomic data from blood**

eQTLGen Consortium, Qi, T., Wu, Y., Zeng, J., Zhang, F., Xue, A., Jiang, L., Zhu, Z., Kemper, K., Yengo, L., Zheng, Z. & van Dongen, J., 1 Dec 2018, In : Nature Communications. 9, 1, 2282.

### **Association of maternal prenatal smoking GFI1-locus and cardio-metabolic phenotypes in 18,212 adults**

for the BIOS Consortium & for the GLOBAL Meth QTL Consortium, Dec 2018, In : Ebiomedicine. 38, p. 206-216 11 p.

### **Transancestral GWAS of alcohol dependence reveals common genetic underpinnings with psychiatric disorders**

23Andme Research Team, 26 Nov 2018, In : Nature Neuroscience. 21, 12, p. 1656-1669 14 p.

### **DNA methylation and associated gene expression in blood prior to lung cancer diagnosis in the Norwegian Women and Cancer cohort**

Sandanger, T. M., Nøst, T. H., Guida, F., Rylander, C., Campanella, G., Muller, D. C., van Dongen, J., Boomsma, D. I., Johansson, M., Vineis, P., Vermeulen, R., Lund, E. & Chadeau-Hyam, M., 13 Nov 2018, In : Scientific Reports. 8, p. 1-10 10 p., 16714.

### **Genome Analyses of >200,000 Individuals Identify 58 Loci for Chronic Inflammation and Highlight Pathways that Link Inflammation and Complex Disorders**

LifeLines Cohort Study & CHARGE Inflammation Working Group, 1 Nov 2018, In : American Journal of Human Genetics. 103, 5, p. 691-706 16 p.

### **Genome-wide association analysis links multiple psychiatric liability genes to oscillatory brain activity**

Smit, D. J. A., Wright, M. J., Meyers, J. L., Martin, N. G., Ho, Y. Y. W., Malone, S. M., Zhang, J., Burwell, S. J., Chorlian, D. B., de Geus, E. J. C., Denys, D., Hansell, N. K., Hottenga, J. J., McGue, M., van Beijsterveldt, C. E. M., Jahanshad, N., Thompson, P. M., Whelan, C. D., Medland, S. E., Porjesz, B. & 2 others Lacono, W. G. & Boomsma, D. I., Nov 2018, In : Human Brain Mapping. 39, 11, p. 4183-4195 13 p.

### **Genome-wide association meta-analysis of age at first cannabis use**

Minică, C. C., Verweij, K. J. H., van der Most, P. J., Mbarek, H., Bernard, M., van Eijk, K. R., Lind, P. A., Liu, M. Z., Maciejewski, D. F., Palviainen, T., Sánchez-Mora, C., Sherva, R., Taylor, M., Walters, R. K., Abdellaoui, A., Bigdeli, T. B., Branje, S. J. T., Brown, S. A., Casas, M., Corley, R. P. & 50 others Davey-Smith, G., Davies, G. E., Ehli, E. A., Farrer, L., Fedko, I. O., Garcia-Martínez, I., Gordon, S. D., Hartman, C. A., Heath, A. C., Hickie, I. B., Hickman, M., Hopfer, C. J., Hottenga, J. J., Kahn, R. S., Kaprio, J., Korhonen, T., Kranzler, H. R., Krauter, K., van Lier, P. A. C., Madden, P. A. F., Medland, S. E., Neale, M. C., Meeus, W. H. J., Montgomery, G. W., Nolte, I. M., Oldehinkel, A. J., Pausova, Z., Ramos-Quiroga, J. A., Richarte, V., Rose, R. J., Shin, J., Stallings, M. C., Wall, T. L., Ware, J. J., Wright, M. J., Zhao, H., Koot, H. M., Paus, T., Hewitt, J. K., Ribasés, M., Loukola, A., Boks, M. P., Snieder, H., Munafò, M. R., Gelernter, J., Boomsma, D. I., Martin, N. G., Gillespie, N. A., Vink, J. M. & Derks, E. M., Nov 2018, In : Addiction. 113, 11, p. 2073-2086 14 p.

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### **DNA methylation age is associated with an altered hemostatic profile in a multiethnic meta-analysis**

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### **Dose response of the 16p11.2 distal copy number variant on intracranial volume and basal ganglia**

ENIGMA-CNV working group, Abdellaoui, A., Boomsma, D. I., de Geus, E. J. C., den Braber, A., Hottenga, J. J., W J H Penninx, B., Milaneschi, Y. & van t Ent, D., 3 Oct 2018, In : *Molecular Psychiatry*.

### **Genome-wide association study across European and African American ancestries identifies a SNP in DNMT3B contributing to nicotine dependence**

Hancock, D. B., Guo, Y., Reginsson, G. W., Gaddis, N. C., Lutz, S. M., Sherva, R., Loukola, A., Minica, C. C., Markunas, C. A., Han, Y., Young, K. A., Gudbjartsson, D. F., Gu, F., McNeil, D. W., Qaiser, B., Glasheen, C., Olson, S., Landi, M. T., Madden, P. A. F., Farrer, L. A. & 18 others Vink, J., Saccone, N. L., Neale, M. C., Kranzler, H. R., McKay, J., Hung, R. J., Amos, C. I., Marazita, M. L., Boomsma, D. I., Baker, T. B., Gelernter, J., Kaprio, J., Caporaso, N. E., Thorgeirsson, T. E., Hokanson, J. E., Bierut, L. J., Stefansson, K. & Johnson, E. O., 3 Oct 2018, In : *Molecular Psychiatry*. 23, 9, p. 1-9 9 p.

### **Retinal and Cerebral Microvasculopathy: Relationships and Their Genetic Contributions**

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### **A characterization of post-zygotic mutations identified in monozygotic twins**

Ouwens, K. G., Jansen, R., Tolhuis, B., Slagboom, P. E., Penninx, B. W. J. H. & Boomsma, D. I., Oct 2018, In : *Human Mutation*. 39, 10, p. 1393-1401 9 p.

### **Genetic analysis of over 1 million people identifies 535 new loci associated with blood pressure traits**

the Million Veteran Program, Oct 2018, In : *Nature Genetics*. 50, 10, p. 1412-1431 20 p.

### **Genome-wide analysis of DNA methylation in buccal cells: A study of monozygotic twins and mQTLs**

Van Dongen, J., Ehli, E. A., Jansen, R., Van Beijsterveldt, C. E. M., Willemsen, G., Hottenga, J. J., Kallsen, N. A., Peyton, S. A., Breeze, C. E., Kluff, C., Heijmans, B. T., Bartels, M., Davies, G. E. & Boomsma, D. I., 25 Sep 2018, In : *Epigenetics and Chromatin*. 11, p. 1-14 14 p., 54.

### **Autosomal genetic variation is associated with DNA methylation in regions variably escaping X-chromosome inactivation**

BIOS Consortium, Luijk, R., Wu, H., Ward-Caviness, C. K., Hannon, E., Carnero-Montoro, E., Min, J. L., Mandaviya, P., Müller-Nurasyid, M., Mei, H., van der Maarel, S. M., Beekman, M., der Breggen, R. V., Deelen, J., Lakenberg, N., Moed, M., Suchiman, H. E. D., Arindarto, W., van't Hof, P., Jan Bonder, M. & 32 others Deelen, P., Tigchelaar, E. F., Zhernakova, A., Zhernakova, D. V., van Dongen, J., Hottenga, J. J., Pool, R., Isaacs, A., Hofman, B. A., Jhamai, M., van der Kallen, C. J. H., Schalkwijk, C. G., Stehouwer, C. D. A., van den Berg, L. H., van Galen, M., Vermaat, M., van Rooij, J., Uitterlinden, A. G., Verbiest, M., Verkerk, M., Kielbasa, P. S. M., Bot, J., Nooren, I., van Dijk, F., Swertz, M. A., van Heemst, D., Relton, C., Mill, J., Waldenberger, M., Bell, J. T., Jansen, R. & Boomsma, D. I., 14 Sep 2018, In : *Nature Communications*. 9, 1, p. 1-9 9 p., 3738.

### **Association Between Population Density and Genetic Risk for Schizophrenia**

Colodro-Conde, L., Couvy-Duchesne, B., Whitfield, J. B., Streit, F., Gordon, S., Kemper, K. E., Yengo, L., Zheng, Z., Trzaskowski, M., De Zeeuw, E. L., Nivard, M. G., Das, M., Neale, R. E., MacGregor, S., Olsen, C. M., Whiteman, D. C., Boomsma, D. I., Yang, J., Rietschel, M., McGrath, J. J. & 2 others Medland, S. E. & Martin, N. G., 1 Sep 2018, In : *JAMA Psychiatry*. 75, 9, p. 901-910 10 p.

### **Characterizing the Relation Between Expression QTLs and Complex Traits: Exploring the Role of Tissue Specificity**

UK Brain Expression Consortium, Sep 2018, In : *Behavior Genetics*. 48, 5, p. 374-385 12 p.

**Childhood aggression and the co-occurrence of behavioural and emotional problems: results across ages 3–16 years from multiple raters in six cohorts in the EU-ACTION project**

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**Genetic and environmental influences on conduct and antisocial personality problems in childhood, adolescence, and adulthood**

Wesseldijk, L. W., Bartels, M., Vink, J. M., van Beijsterveldt, C. E. M., Ligthart, L., Boomsma, D. I. & Middeldorp, C. M., Sep 2018, In : European Child and Adolescent Psychiatry. 27, 9, p. 1123-1132 10 p.

**GWAS of lifetime cannabis use reveals new risk loci, genetic overlap with psychiatric traits, and a causal influence of schizophrenia**

23Andme Research Team, Sep 2018, In : Nature Neuroscience. 21, 9, p. 1161-1170 10 p.

**Genome-wide identification of directed gene networks using large-scale population genomics data**

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#### **Polygenic risk for alcohol consumption and its association with alcohol-related phenotypes: Do stress and life satisfaction moderate these relationships?**

Mies, G. W., Verweij, K. J. H., Treur, J. L., Ligthart, L., Fedko, I. O., Hottenga, J. J., Willemsen, G., Bartels, M., Boomsma, D. I. & Vink, J. M., 1 Jan 2018, In : *Drug and Alcohol Dependence*. 183, p. 7-12 6 p.

#### **Multiancestry association study identifies new asthma risk loci that colocalize with immune-cell enhancer marks**

Deménais, F., Margaritte-Jeannin, P., Barnes, K. C., Cookson, W. O. C., Altmüller, J., Ang, W., Barr, R. G., Beaty, T. H., Becker, A. B., Beilby, J., Bisgaard, H., Björnsdóttir, U. S., Bleecker, E., Bønnelykke, K., Boomsma, D. I., Bouzigon, E., Brightling, C. E., Brossard, M., Brusselle, G. G., Burchard, E. & 31 others Burkart, K. M., Bush, A., Chan-Yeung, M., Chung, K. F., Couto Alves, A., Curtin, J. A., Custovic, A., Daley, D., de Jongste, J. C., Del-Rio-Navarro, B. E., Donohue, K. M., Duijts, L., Eng, C., Eriksson, J. G., Farrall, M., Fedorova, Y., Feenstra, B., Ferreira, M. A., Freidin, M. B., Gajdos, Z., Gauderman, J., Gehring, U., Geller, F., Genuneit, J., Gharib, S. A., Gilliland, F., Heckbert, S. R., Hottenga, J., Mbarek, H., Willemsen, G. & Australian Asthma Genetics Consortium (AAGC) collaborators, Jan 2018, In : *Nature Genetics*. 50, 1, p. 42-53 12 p.

#### **Country-by-genotype-by-environment interaction in childhood academic achievement**

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### **Association between rs1051730 and smoking during pregnancy in Dutch women**

Mbarek, H., van Beijsterveldt, C. E. M., Hottenga, J. J., Dolan, C. V., Boomsma, D. I., Willemsen, G. & Vink, J. M., 8 Dec 2017, In : Nicotine and Tobacco Research.

### **DNA Methylation Analysis Identifies Loci for Blood Pressure Regulation**

Richard, M. A., Huan, T., Ligthart, S., Gondalia, R., Jhun, M. A., Brody, J. A., Irvin, M. R., Marioni, R., Shen, J., Tsai, P-C., Montasser, M. E., Jia, Y., Syme, C., Salfati, E. L., Boerwinkle, E., Guan, W., Mosley, T. H., Bressler, J., Morrison, A. C., Liu, C. & 31 others Mendelson, M. M., Uitterlinden, A. G., van Meurs, J. B., Franco, O. H., Zhang, G., Li, Y., Stewart, J. D., Bis, J. C., Psaty, B. M., Chen, Y-D. I., Kardia, S. L. R., Zhao, W., Turner, S. T., Absher, D., Aslibekyan, S., Starr, J. M., McRae, A. F., Hou, L., Just, A. C., Schwartz, J. D., Vokonas, P. S., Menni, C., Spector, T. D., Shuldiner, A., Damcott, C. M., Rotter, J. I., BIOS Consortium, Boomsma, D. I., Pool, R., van Dongen, J. & Hottenga, J. J., 7 Dec 2017, In : American Journal of Human Genetics. 101, 6, p. 888-902 15 p.

### **Genetic Association of Major Depression With Atypical Features and Obesity-Related Immunometabolic Dysregulations**

Milaneschi, Y., Lamers, F., Peyrot, W. J., Baune, B. T., Breen, G., Dehghan, A., Forstner, A. J., Grabe, H. J., Homuth, G., Kan, C., Lewis, C. M., Mullins, N., Nauck, M., Pistis, G., Preisig, M., Rivera, M., Rietschel, M., Streit, F., Strohmaier, J., Teumer, A. & 5 others Van der Auwera, S., Wray, N. R., Boomsma, D. I., Penninx, B. W. J. H. & CHARGE Inflammation Working Group and the Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium, 1 Dec 2017, In : JAMA Psychiatry. 74, 12, p. 1214-1225 12 p.

### **Mathematical Ability and Socio-Economic Background: IRT Modeling to Estimate Genotype by Environment Interaction**

Schwabe, I., Boomsma, D. I. & van den Berg, S. M., 1 Dec 2017, In : Twin Research and Human Genetics. 20, 6, p. 511-520 10 p.

### **Social Comparison Orientation in Monozygotic and Dizygotic Twins**

Huguet, P., Carlier, M., Dolan, C. V., de Geus, E. J. & Boomsma, D. I., 1 Dec 2017, In : Twin Research and Human Genetics. 20, 6, p. 550-557 8 p.

### **Shared genetic origin of asthma, hay fever and eczema elucidates allergic disease biology**

Ferreira, M. A., Vonk, J. M., Baurecht, H., Marenholz, I., Tian, C., Hoffman, J. D., Helmer, Q., Tillander, A., Ullemar, V., van Dongen, J., Lu, Y., Rüschenhoff, F., Esparza-Gordillo, J., Medway, C. W., Mountjoy, E., Burrows, K., Hummel, O., Grosche, S., Brumpton, B. M., Witte, J. S. & 31 others Hottenga, J-J., Willemsen, G., Zheng, J., Rodríguez, E., Hotze, M., Franke, A., Revez, J. A., Beesley, J., Matheson, M. C., Dharmage, S. C., Bain, L. M., Fritsche, L. G., Gabrielsen, M. E., Balliu, B., Nielsen, J. B., Zhou, W., Hveem, K., Langhammer, A., Holmen, O. L., Løset, M., Abecasis, G. R., Willer, C. J., Arnold, A., Homuth, G., Schmidt, C. O., Thompson, P. J., Martin, N. G., Duffy, D. L., Novak, N., Boomsma, D. I. & 23andMe Research Team, Dec 2017, In : Nature Genetics. 49, 12, p. 1752-1757 6 p.

## **Activities**

### **American Journal of Medical Genetics Part B: Neuropsychiatric Genetics (Journal)**

D.I. Boomsma (Reviewer)  
1 Jan 2017 → 31 Dec 2017

### **Genes, Brain and Behavior (Journal)**

D.I. Boomsma (Reviewer)  
1 Jan 2017 → 31 Dec 2017

### **Journal of Pediatric and Neonatal Individualized Medicine (Journal)**

D.I. Boomsma (Reviewer)  
1 Jan 2017 → 31 Dec 2017

### **Twin Research and Human Genetics (Journal)**

D.I. Boomsma (Reviewer)  
1 Jan 2017 → 31 Dec 2017

### **European Child and Adolescent Psychiatry (Journal)**

D.I. Boomsma (Reviewer)

2017 → ...

**Genes, Brain and Behavior (Journal)**

D.I. Boomsma (Member of editorial board)

2016 → ...

**Journal of Pediatric and Neonatal Individualized Medicine (Journal)**

D.I. Boomsma (Member of editorial board)

2016 → ...

**Journal of Child Psychology and Psychiatry (Journal)**

D.I. Boomsma (Member of editorial board)

2015

**Journal of Pediatric and Neonatal Individualized Medicine (Journal)**

D.I. Boomsma (Reviewer)

2013 → 2016

**The Nature of Nurture**

D.I. Boomsma (Examiner)

24 Jan 2012

**American Journal of Medical Genetics Part B: Neuropsychiatric Genetics (Journal)**

D.I. Boomsma (Reviewer)

2012 → 2016

**Genes, brain, and behavior (Journal)**

D.I. Boomsma (Member of editorial board)

2012 → 2015

**Genes, Brain and Behavior (Journal)**

D.I. Boomsma (Reviewer)

2012 → 2017

**Journal of Child Psychology and Psychiatry (Journal)**

D.I. Boomsma (Member of editorial board)

2012 → 2013

**Twin Research and Human Genetics (Journal)**

D.I. Boomsma (Member of editorial board)

2011 → 2015

**Twin Research (Journal)**

D.I. Boomsma (Reviewer)

2008 → ...

**Unknown journal (Journal)**

D.I. Boomsma (Reviewer)

2005

**Unknown journal (Journal)**

D.I. Boomsma (Reviewer)

2005

**Unknown journal (Journal)**  
D.I. Boomsma (Reviewer)  
2005

**Unknown journal (Journal)**  
D.I. Boomsma (Reviewer)  
2005

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D.I. Boomsma (Reviewer)  
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D.I. Boomsma (Reviewer)  
2004

**Unknown journal (Journal)**  
D.I. Boomsma (Reviewer)  
2004

**Genetic analysis of personality in relation to affective disorders**  
D.I. Boomsma (Examiner)  
2003

**Health and health risks on Urk**  
D.I. Boomsma (Examiner)  
2003

**The genetics of blood cell concentrations**  
D.I. Boomsma (Examiner)  
2003

**Towards the molecular basis of individual differences in vulnerability to stress**  
D.I. Boomsma (Examiner)  
2003

**Genetic and environmental influences on verbal and non-verbal domains of cognitive ability and low cognitive ability**  
D.I. Boomsma (Examiner)  
2002

**Genetics of pre-eclampsia**  
D.I. Boomsma (Examiner)  
2002

**Twin Research (Journal)**  
D.I. Boomsma (Reviewer)  
2002 → ...

**Brain structure abnormalities in schizophrenia and genetic variation in human brain morphology**  
D.I. Boomsma (Examiner)  
29 Jan 2001

**An Information Processing Approach to the Genetic Study of Psychometric Intelligence: Links between Processing Speed, Working Memory and IQ**  
D.I. Boomsma (Examiner)  
2001

**Behavior Genetics (Journal)**  
D.I. Boomsma (Member of editorial board)  
2000 → 2010

**Twin Research (Journal)**  
D.I. Boomsma (Member of editorial board)  
2000 → 2010

**Twin Research and Human Genetics (Journal)**  
D.I. Boomsma (Reviewer)  
1999 → 2017

**Behavior Genetics (Journal)**  
D.I. Boomsma (Reviewer)  
1997 → 2010

**Behavior Genetics (Journal)**  
D.I. Boomsma (Reviewer)  
1989 → 2006

## **Prizes**

**Dobzhansky Award**  
D.I. Boomsma (Recipient), 1 Jul 2013

**Dr Hendrik Muller Prize for Behavioural and Social Sciences**  
D.I. Boomsma (Recipient), 1 Jul 2009

**Erepromotie Prof.dr. L.J. Eaves**  
D.I. Boomsma (Recipient), 20 Oct 2000

**European Journal of Human Genetics Special Honour Award**  
D.I. Boomsma (Recipient), 24 May 2016

**James Shield Award**

D.I. Boomsma (Recipient), 2002

**Junior-Heymans Award**

D.I. Boomsma (Recipient), 1996

**KNAW Merian prize**

D.I. Boomsma (Recipient), 17 Nov 2011

**NWO/Spinoza-premie**

D.I. Boomsma (Recipient), 29 Aug 2001

**Prijs Akademietoogleraren**

D.I. Boomsma (Recipient), 1 Apr 2014

**Spinozapremie**

D.I. Boomsma (Recipient), 2002

**Thompson Award**

D.I. Boomsma (Recipient), 1985