Curriculum Vitae 2019

Thomas Bourgeron
Born in Paris, France 09/11/1965
Two children, Arsène and Mona.

Professor at Université de Paris
Human Genetics and Cognitive Functions Unit
Institut Pasteur, 25 rue du Docteur Roux
75724 Paris Cedex 15, France
Tel: + 33 1 40 61 32 16
email: thomasb@pasteur.fr
https://research.pasteur.fr/en/team/human-genetics-and-cognitive-functions/

EDUCATION

Institution	Degree	Year (s)	Field of Study
University Paris 7, Paris	Professor	2005	Human Genetics
University Paris 7, Paris	HDR	2003	Genetics of Psychiatric Disorders
University Paris 6, Paris	Ph.D	1994	Genetics of Mitochondrial Disorders
University Paris 6, Paris	Master	1990	Plant Biology

PROFESSIONAL EXPERIENCE

Since 2008: Director of the unit "Human Genetics and Cognitive Functions" at the Neuroscience Department of the Institut Pasteur, Paris.

2003-2008: Group leader of the 5-year group "Human Genetics and Cognitive Functions" at the Neuroscience Department of the Institut Pasteur, Paris.

1999-2003: Laboratory "Human Immunogenetics" at the Institut Pasteur directed by Prof. Marc Fellous. Subject: Genetic Predisposition to Psychiatric diseases.

1995-1999: Assistant Professor in the laboratory "Human Immunogenetics" at the Institut Pasteur directed by Pr. Marc Fellous. Subject: Molecular Bases of Male Fertility

1990-1994: Ph.D. Student in the INSERM U393 at the Necker Hospital, directed by Pr. Arnold Munnich. Subject: Molecular Bases of Mitochondrial Diseases.

1989–1990: Master Student in the laboratory BV4 of the University Paris 6, directed by Pr. Claude Lance. Subject: Isolation of the succinate dehydrogenase of Potatoes

MEMBERSHIP

2017 Member of the French National Ethical Committee (CCNE)
2016 Member of the Institut Universitaire de France (IUF)
2015 Member of the Academia Europaea
2015 Member of the Scientific Advisory Board of the French Ministry of Health for Research on Autism
2015 Member of the Ethical Committee of the Institut Pasteur
2014 Member of the French Academy of Sciences
2009-2013 Member of the Ethical Committee of the International Foundation of Applied Disability Research
2008 Member of the European Molecular Biology Organisation (EMBO)

AWARDS

2017 Chair of excellence of the Foundation Bettencourt-Schueller
2015 IPSEN Prize for Neuronal Plasticity
2013 Chairman of the scientific committee of the International Meeting For Autism Research (IMFAR)
2012 Chair of excellence of the Fondation Fondamental with the Foundation Bettencourt-Schueller
2008 Vallery-Radot award from the institut Pasteur Institute and the French Academy of Sciences,
2007 Lacassagne award from the Collège de France,
2007 Jean Bernard award of the victories of medicine

2007 French Academy of Sciences award
2005 European Neuroscience Institutes Young Investigator Award

TEACHING ACTIVITIES (≈ 100h /year)
Co-director of the course "Molecular and Cell Genetics" from the Institut Pasteur
Director of the Master courses "Human Genetics and diseases" and "Human Genetics and Neurobiology"
Since October 2005: Professor at Université de Paris. Teaching subject : Human Genetics, Molecular Biology.
1996-2005 : Assistant Professor at Université de Paris. Teaching subject : Human Genetics, Molecular Biology.

PRINCIPAL INVESTIGATOR IN PROJECTS
PARIS : Research on autism in France
EU-AIMS/AIMS2-TRIAL: Collaborative project on autism in Europe (leader of the genetic and database WPs)
INCEPTION (Project to foster Integrative Biology for Studying Emergence of Diseases in Individuals and Populations). Co-PI with Olivier Gascuel; https://www.inception-program.fr/en

GRANTS
2018-2022: IMI2 AIMS2-TRIALS (300 k€ /5 years).
2017-2022: Chair of excellence Foundation Bettencourt Schueller (1,500 k€ / 5 Years)
2016-2020: h2020 COSYN (225 k€ / 5 years)
2016-2018: Cognacq-Jay Foundation (594 k€ / 3 years)
2015-2017: Fondation de la Recherche Médicale (300 k€ / 3 years)
2014-2016: Labex GenMed (300 k€ / 3 years)
2014-2016: Labex BioPsy (100 k€ / 3 years)
2013-1016: ANR SynDiv (115 k€ / 4 years)
2012-2015: Conny-Maeva (240 k€ / 3 years)
2013-2016: Cognacq-Jay (288 k€ / 3 years)
2012-2014: Simons Foundation for Autism Research (350 k$ / 3 years)
2012-2014: Chair of excellence Foundation FondaMental / Bettencourt Schueller (1000 k€ / 3 Years)
2012-2016: Innovative Medicine Initiative (437 k€ / 5 years)
2012-2014: ANR Dysbrain (220 k€ / 3 years)
2012-2013: Fondation Orange (180 k€ / 3 years)
2011-2013: ERANET-NEURON EUHFAUTISM (PI of the project) (150 k€ / 3years)

REVIEWER FOR JOURNALS (selected)
Nature, Science, Cell, Nature Genetics, Nature Neuroscience, Am J Hum Genet, Molecular Psychiatry, J. of Neuroscience, Hum Mol Genet, Eur J Hum Genet, J Med Genet, Am J Med Genet, …

10 MAJOR PUBLICATIONS

de Chaumont F, Ey E, Torquet N, Lagache T, Dallongeville S, Imbert A, Le Sourd AM, Faure P*, **Bourgeron T*** and Olivo-Marin JC* Live Mouse Tracker : real-time behavior analysis of group of mice. *equally contributed to the work as senior authors. **Nature Biomedical Engineering** In press

Mercati O, Huguet G, Danckaert A, André-Leroux G, Maruani A, Bellinzoni M, Rolland T, Gouder L, Mathieu A, Buratti J, Amsellem F, Benabou M, Van-Gils J, Beggiato, Konyukh M, Bourgeois J-P, Gazzellone M, Yuen RKC, Walker S, Delépine M, Boland A, Régnault B, Francois M, Van Den Abbeele T, Mosca-Boidron AL, Faivre L, Shimoda Y, Watanabe K, Bonneau D, Rastam M, Leboyer M, Scherer S, Gillberg C, Delorme R, Cloëz-Tayarani I and **Bourgeron T.** CNTN6 mutations are risk factors for abnormal auditory sensory perception in autism spectrum disorders. **Molecular Psychiatry** 2017 22(4):625-633.

Bourgeron T. From the genetic architecture to synaptic plasticity in autism spectrum disorders. **Nature Reviews Neuroscience** (2015) 16, 551–563.

Leblond CS, Nava C, Polge A, Gauthier J, Huguet G, Lumbroso S, Giuliano F, Stordeur C, Depienne C, Mouzat K, Pinto D, Howe J, Lemière N, Durand CM, Guibert J, Ey E, Toro R, Peyre H, Mathieu A, Amsellem F, Rastam M, Gillberg IC, Rappold GA, Holt R, Monaco AP, Maestrini E, Galan P, Heron D, Jacquette A, Afenjar A, Rastetter A, Brice A, Devillard F, Assouline B, Laffargue F, Lespinasse J, Chiesa J, Rivier F, Bonneau D, Regnault B, Zelenika D, Delepine M, Lathrop M, Sanlaville D, Schluth-Bolard C, Edery P, Perrin L, Tabet AC, Schmeisser MJ, Boeckers TM, Coleman M, Sato D, Szatmari P, Scherer SW, Rouleau GA, Betancur C, Leboyer M, Gillberg C,

Delorme R, **Bourgeron T.** Meta-analysis of SHANK mutations in Autism Spectrum Disorders: A gradient of severity in cognitive impairments. **PLOS Genetics**. (2014) 10, e1004580.

Delorme R, Ey E, Toro R, Leboyer M, Gillberg C, and **Bourgeron T**. Progress towards treatments for synaptic defects in autism. **Nature Medicine** (2013) 19:685-94.

Schmeisser MJ, Ey E, Kuebler A, Bockmann J, Wegener S, Stempel AV, Kuebler A, Janssen AL, Udvardi PT, Shiban E, Spilker C, Balschun D, Skryabin BV, tom Dieck S, Smalla KH, Montag D, Leblond CS, Faure P, Torquet N, Le Sourd AM, Toro R, Grabrucker AM, Shoichet SA, Schmitz D, Kreutz MR, **Bourgeron T,** Gundelfinger ED and Boeckers TM. (2012) Hyperactivity and autistic-like behaviours in mice lacking ProSAP1/Shank2. **Nature** (2012) 486: 256-60

Leblond CS, Heinrich J, Delorme R, Proepper C, Betancur C, Huguet G, Konyukh M, Chaste P, Ey E, Rastam M, Anckarsäter H, Nygren G, Gillberg IC, Melke J, Toro R, Regnault B, Fauchereau F, Mercati O, Lemière N, Skuse D, Poot M, Holt R, Monaco AP, Järvelä I, Kantojärvi K, Vanhala R, Curran S, Collier DA, Bolton P, Chiocchetti A, Klauck SM, Poustka F, Freitag CM, Waltes R, Kopp M, Duketis E, Bacchelli E, Minopoli F, Ruta L, Battaglia A, Mazzone L, Maestrini E, Sequeira AF, Oliveira B, Vicente A, Oliveira G, Pinto D, Scherer SW, Zelenika D, Delepine M, Lathrop M, Bonneau D, Guinchat V, Devillard F, Assouline B, Mouren MC, Leboyer M, Gillberg C, Boeckers TM, **Bourgeron T.** Genetic and functional analyses of SHANK2 mutations provide evidence for a multiple hit model of autism spectrum disorders. **PLoS Genetics** (2012) 8(2):e1002521.

Pinto D, Pagnamenta A, Klei L Merico D, Anney R , Merico D, Regan R, Conroy J, Magalhaes T, Correia C, Abrahams BS, Almeida J, Bacchelli E, Bader GD, Bailey AJ, Baird G, Battaglia A, Berney T, Bolshakova N, Bölte S, Bolton PF, **Bourgeron T** et al. Functional impact of global rare copy number variation in autism **Nature** (2010) 466 : 368-72.

Durand C, Betancur C, Boeckers TM, Bockmann J, Chaste P, Fauchereau F, Nygren G, Rastam M, Gillberg IC, Anckarsäter H, Sponheim E, Goubran-Botros H, Delorme R, Chabane N, Mouren-Simeoni MC, de Mas P, Bieth E, Rogé B, Héron D, Burglen L, Gillberg C, Leboyer M, **Bourgeron T** Mutations of the synaptic scaffolding protein SHANK3 are associated with autism spectrum disorders. **Nature Genetics** (2007) 39:25-7.

Jamain S, Quach H, Betancur C, Råstam M, Colineaux C, Gillberg IC, Soderstrom H, Giros B, Leboyer M, Gillberg C, **Bourgeron T**. Mutations of the X-linked neuroligins NLGN3 and NLGN4 are associated with autism **Nature Genetics** (2003) 34, 27-29.

PUBLICATIONS (Google Scholar: citations= 28,220; h-index=75)

Papers at BioarXiv and/or Submitted

Dumas G, Malesys S, **Bourgeron T**. Systematic detection of divergent brain proteins in human evolution and their roles in cognition. *bioRxiv* doi: https://doi.org/10.1101/658658

Cliquet F, Rolland T, Mathieu A, Kergrohen T, Dumas G, Delorme R, Schwikowski B and **Bourgeron T.** Gravity : a tool to analyze genetic variants in individuals using gene networks. Submitted

Lutz AK, Pfaender S, Föhr KJ, Cammerer J, Zoller M, Higelin J, Ioannidis V, Schoen M, Orth M, Liebau S, Barbi G, Grabrucker AM, Delorme R, **Bourgeron T**, Verpelli C, Demestre M and Boeckers TM. Autism-associated SHANK3 mutations lead to impaired maturation of hiPSC derived motor units. Submitted

Warrier V, the 23andMe Research Team, **Bourgeron T**, Baron-Cohen S. Genome-wide association study of social relationship satisfaction: significant loci and correlations with psychiatric conditions. *bioRxiv 196071*; doi: https://doi.org/10.1101/196071 *equally contributed to the work as senior authors

2019

143. Florian et al. Familial Adult Myoclonic Epilepsy linked to chromosome 5p15 is caused by unstable 2 TTTTA/TTTCA expansions in intron 1 of MARCH6. *Nature Communication* 2019 29;10(1):4919.

142. Warrier V, Toro R, Won H, Leblond CS, Cliquet F, Delorme R, de Witte W, Bralten J, Chakrabarti B, EU-AIMS LEAP group, the iPSYCH-Broad autism group, Børglum AD, Grove J, Poelmans G, the 23andMe Research Team, Hinds DA, **Bourgeron T*** and Baron-Cohen S*. Social and non-social autism symptom/trait domains are genetically dissociable. *Communications Biology Commun Biol.* 2019 3;2:328.*equally contributed to the work as senior authors.

141. de Lombares C, Heude E, Alfama G, Fontaine A, Hassouna R, Vernochet C, de Chaumont F, Olivo-Marin C, Ey E, Parnaudeau S, Tronche F, **Bourgeron T**, Luquet S, Levi G, Narboux-Nême N.. Dlx5 and Dlx6 expression in GABAergic neurons controls behavior, metabolism, healthy aging and lifespan." *Aging*. 2019;11(17):6638-6656.

140. de Chaumont F, Ey E, Torquet N, Lagache T, Dallongeville S, Imbert A, Legou T, Le Sourd AM, Faure P*, **Bourgeron T***, Olivo-Marin JC*. Real-time analysis of the behaviour of groups of mice via a depth-sensing camera and machine learning. *Nature Biomedical Engineering*. 2019 May 20. *equally contributed to the work as senior authors.

139. Pinel P, Forgeot d'Arc B, Dehaene S, **Bourgeron T**, Thirion B, Le Bihan D, Poupon C. The functional database of the ARCHI project: Potential and perspectives. *Neuroimage*. 2019 ;197:527-543.

138. Bell S, Rousseau J, Peng H, Aouabed Z, Priam P, Theroux JF, Jefri M, Tanti A, Wu H, Kolobova I, Silviera H, Manzano-Vargas K, Ehresmann S, Hamdan FF, Hettige N, Zhang X, Antonyan L, Nassif C, Ghaloul-Gonzalez L, Sebastian J, Vockley J, Begtrup AG, Wentzensen IM, Crunk A, Nicholls RD, Herman KC, Deignan JL, Al-Hertani W, Efthymiou S, Salpietro V, Miyake N, Makita Y, Matsumoto N, Østern R, Houge G, Hafström M, Fassi E, Houlden H, Klein Wassink-Ruiter JS, Nelson D, Goldstein A, Dabir T, van Gils J, **Bourgeron T**, Delorme R, Cooper GM, Martinez JE, Finnila CR, Carmant L, Lortie A, Oegema R, van Gassen K, Mehta SG, Huhle D, Abou Jamra R, Martin S, Brunner HG, Lindhout D, Au M, Graham JM Jr, Coubes C, Turecki G, Gravel S, Mechawar N, Rossignol E, Michaud JL, Lessard J, Ernst C, Campeau PM. Mutations in ACTL6B Cause Neurodevelopmental Deficits and Epilepsy and Lead to Loss of Dendrites in Human Neurons. *Am J Hum Genet.* 2019 ;104(5):815-834.

137. Maruani A, Dumas G, Beggiato A, Traut N, Peyre H, Cohen-Freoua A, Amsellem F, Elmaleh M, Germanaud D, Launay JM, **Bourgeron T**, Toro R, Delorme R. Morning Plasma Melatonin Differences in Autism: Beyond the Impact of Pineal Gland Volume. *Front Psychiatry.* 2019 Feb 6;10:11. doi: 10.3389/fpsyt.2019.00011. eCollection 2019.

136. Gialluisi A, Andlauer TFM, Mirza-Schreiber N, Moll K, Becker J, Hoffmann P, Ludwig KU, Czamara D, St Pourcain B, Brandler W, Honbolygó F, Tóth D, Csépe V, Huguet G, Morris AP, Hulslander J, Willcutt EG, DeFries JC, Olson RK, Smith SD, Pennington BF, Vaessen A, Maurer U, Lyytinen H, Peyrard-Janvid M, Leppänen PHT, Brandeis D, Bonte M, Stein JF, Talcott JB, Fauchereau F, Wilcke A, Francks C, **Bourgeron T**, Monaco AP, Ramus F, Landerl K, Kere J, Scerri TS, Paracchini S, Fisher SE, Schumacher J, Nöthen MM, Müller-Myhsok B, Schulte-Körne G. Genome-wide association scan identifies new variants associated with a cognitive predictor of dyslexia. *Transl Psychiatry.* 2019 Feb 11;9(1):77. doi: 10.1038/s41398-019-0402-0.

135. Leblond CS, Cliquet F, Carton C, Huguet G, Mathieu A, Kergrohen T, Buratti J, Lemière N, Cuisset L, Bienvenu T, Boland A, Deleuze JF, Stora T, Biskupstoe R, Halling J, Andorsdóttir G, Billstedt E, Gillberg C, **Bourgeron T**. Both rare and common genetic variants contribute to autism in the Faroe Islands. *NPJ Genom Med.* 2019 21;4:1.

134. Gouder L, Vitrac A, Goubran-Botros H, Danckaert A, Tinevez JY, André-Leroux G, Atanasova E, Lemière N, Leblond CS, Poulet A, Benchoua A, Delorme R, **Bourgeron T*** and Cloëz-Tayarani I* Altered spinogenesis in iPSC-derived cortical neurons from patients with autism carrying de novo SHANK3 mutations. *equally contributed to the work as senior authors. *Scientific Reports 2019* 14;9(1):94.

133. Bouvet L, Amsellem F, Maruani A, Tonus-Vic Dupont A, Mathieu A, **Bourgeron T**, Delorme R, Mottron L. Synesthesia & autistic features in a large family: Evidence for spatial imagery as a common factor. *Behav Brain Res.* 2019 Apr 19;362:266-272. doi: 10.1016/j.bbr.2019.01.014.

2018

132. Lefebvre A, Delorme R, Delanoë C, Amsellem F, Beggiato A, Germanaud D, Bourgeron T, Toro R, Dumas G. Alpha Waves as a Neuromarker of Autism Spectrum Disorder: The Challenge of Reproducibility and Heterogeneity. *Front Neurosci.* 2018 Oct 1;12:662.

131. Ey E., Torquet N, de Chaumont F, Lévi-Strauss J, Ferhat AT, Le Sourd AM, Boeckers TM and **Bourgeron T** Shank2 Mutant Mice Display Hyperactivity Insensitive to Methylphenidate and Reduced Flexibility in Social Motivation, but Normal Social Recognition *Front. Mol. Neurosci*., 2018 Oct 4;11:365.

130. Lahbib S, Leblond CS, Hamza M, Regnault B, Lemée L, Mathieu A, Jaouadi H, Mkaouar R, Youssef-Turki IB, Belhadj A, Kraoua I, **Bourgeron T**, Abdelhak S. Homozygous 2p11.2 deletion supports the implication of ELMOD3 in hearing loss and reveals the potential association of CAPG with ASD/ID etiology. *J Appl Genet.* 2018 Oct 4. doi: 10.1007/s13353-018-0472-3.

129. Septier M, Peyre H, Amsellem F, Beggiato A, Maruani A, Poumeyreau M, Amestoy A, Scheid I, Gaman A, Bolognani F, Honey G, Bouquet C, Ly-Le Moal M, Bouvard M, Leboyer M, **Bourgeron T**, Delorme R. Increased risk of ADHD in families with ASD. *Eur Child Adolesc Psychiatry.* 2018 Sep 28. doi: 10.1007/s00787-018-1206-0.

128. Aubart M, Gazal S, Arnaud P, Benarroch L, Gross MS, Buratti J, Boland A, Meyer V, Zouali H, Hanna N, Milleron O, Stheneur C, **Bourgeron T**, Desguerre I, Jacob MP, Gouya L, Génin E, Deleuze JF, Jondeau G,

Boileau C. Association of modifiers and other genetic factors explain Marfan syndrome clinical variability. *Eur J Hum Genet.* 2018 Aug 7.

127. Bonnet A, Levy-Leduc C, Gassiat E, Toro R, **Bourgeron T.** Improving heritability estimation by a variable selection approach in sparse high dimensional linear mixed models. *Journal of the Royal Statistical Society In press.*

126. Huguet G, Schramm C, Douard E, Jiang L, Labbe A, Tihy F, Mathonnet G, Nizard S, Lemyre E, Mathieu A, Poline JB, Loth E, Toro R, Schumann G, IMAGEN Consortium; Conrod P, Pausova Z, Greenwood C, Paus T, **Bourgeron T***, Sébastien J* Measuring and predicting the effect of copy number variants on general intelligence in community-based samples. *JAMA Psychiatry* 2018 75(5):447-457. *equally contributed to the work as senior authors

125. Warrier V, Roberto Toro, Bhismadev Chakrabarti, The iPSYCH-BROAD Autism Group, Jakob Grove, Anders Børglum, The 23andMe Research Team, David Hinds, **Bourgeron T***, and Simon Baron-Cohen*. Genome-wide analyses of self-reported empathy: correlations with autism, schizophrenia, and anorexia nervosa" *Translational Psychiatry* 2018 8(1):35.*equally contributed to the work as senior authors

2017

124. Benabou M, Rolland T, Leblond CS, Millot GA, Huguet G, Delorme R, Leboyer M, Pagan C, Callebert J, Maronde E, **Bourgeron T.** Heritability of the melatonin synthesis variability in autism spectrum disorders. *Scientific Reports.* 2017 7(1):17746.

123. Traut N, Beggiato A, **Bourgeron T**, Delorme R, Rondi-Reig L, Paradis AL, Toro R. Cerebellar volume in autism: Meta-analysis and analysis of the ABIDE cohort *Biological Psychiatry* 2017 S0006-3223(17)32051-6.

122. Charman T, Loth E, Tillmann J, Crawley D, Wooldridge C, Goyard D, Ahmad J, Auyeung B, Ambrosino S, Banaschewski T, Baron-Cohen S, Baumeister S, Beckmann C, Bölte S, **Bourgeron T**, Bours C, Brammer M, Brandeis D, Brogna C, de Bruijn Y, Chakrabarti B, Cornelissen I, Acqua FD, Dumas G, Durston S, Ecker C, Faulkner J, Frouin V, Garcés P, Ham L, Hayward H, Hipp J, Holt RJ, Isaksson J, Johnson MH, Jones EJH, Kundu P, Lai MC, D'ardhuy XL, Lombardo MV, Lythgoe DJ, Mandl R, Mason L, Meyer-Lindenberg A, Moessnang C, Mueller N, O'Dwyer L, Oldehinkel M, Oranje B, Pandina G, Persico AM, Ruggeri B, Ruigrok ANV, Sabet J, Sacco R, Cáceres ASJ, Simonoff E, Toro R, Tost H, Waldman J, Williams SCR, Zwiers MP, Spooren W, Murphy DGM, Buitelaar JK. The EU-AIMS Longitudinal European Autism Project (LEAP): clinical characterisation. *Mol Autism.* 2017 Jun 23;8:27. doi: 10.1186/s13229-017-0145-9.

121. Loth E, Charman T, Mason L, Tillmann J, Jones EJH, Wooldridge C, Ahmad J, Auyeung B, Brogna C, Ambrosino S, Banaschewski T, Baron-Cohen S, Baumeister S, Beckmann C, Brammer M, Brandeis D, Bölte S, **Bourgeron T**, Bours C, de Bruijn Y, Chakrabarti B, Crawley D, Cornelissen I, Acqua FD, Dumas G, Durston S, Ecker C, Faulkner J, Frouin V, Garces P, Goyard D, Hayward H, Ham LM, Hipp J, Holt RJ, Johnson MH, Isaksson J, Kundu P, Lai MC, D'ardhuy XL, Lombardo MV, Lythgoe DJ, Mandl R, Meyer-Lindenberg A, Moessnang C, Mueller N, O'Dwyer L, Oldehinkel M, Oranje B, Pandina G, Persico AM, Ruigrok ANV, Ruggeri B, Sabet J, Sacco R, Cáceres ASJ, Simonoff E, Toro R, Tost H, Waldman J, Williams SCR, Zwiers MP, Spooren W, Murphy DGM, Buitelaar JK. The EU-AIMS Longitudinal European Autism Project (LEAP): design and methodologies to identify and validate stratification biomarkers for autism spectrum disorders. *Mol Autism.* 2017 Jun 23;8:24. doi: 10.1186/s13229-017-0146-8.

120. Tabet AC, Rolland T, Ducloy M, Lévy J, Buratti J, Mathieu A, Haye D, Perrin L, Dupont C, Passemard S, Capri Y, Verloes A, Drunat S, Keren B, Mignot C, Marey I, Jacquette A, Whalen S, Pipiras E, Benzacken B, Chantot-Bastaraud S, Afenjar A, Héron D, Le Caignec C, Beneteau C, Pichon O, Isidor B, David A, El Khattabi L, Kemeny S, Gouas L, Vago P, Mosca-Boidron AL, Faivre L, Missirian C, Philip N, Sanlaville D, Edery P, Satre V, Coutton C, Devillard F, Dieterich K, Vuillaume ML, Rooryck C, Lacombe D, Pinson L, Gatinois V, Puechberty J, Chiesa J, Lespinasse J, Dubourg C, Quelin C, Fradin M, Journel H, Toutain A, Martin D, Benmansour A, Leblond CS, Toro R, Amsellem F, Delorme R, **Bourgeron T**. A framework to identify contributing genes in patients with Phelan-McDermid syndrome. *NPJ Genom Med.* 2017 2:32.

119. Warrier V, Grasby K, Uzefovsky F, Toro R, Smith P, Chakrabarti B, Khadake J, Litterman N, Hottenga J-J, Lubke G, Boomsma DI, Martin NG, Hatemi PK, Medland SE , Hinds DA , **Bourgeron T***, Baron-Cohen S*. Genome-wide meta-analysis of cognitive empathy: heritability, and correlates with sex, neuropsychiatric conditions and brain anatomy. *Molecular Psychiatry 2017* Jun 6. doi: 10.1038/mp.2017.122. *equally contributed to the work as senior authors

118. Ferhat AT, Halbedl S, Schmeisser MJ, Kas MJ, **Bourgeron T**, Ey E. Behavioural Phenotypes and Neural Circuit Dysfunctions in Mouse Models of Autism Spectrum Disorder. *Adv Anat Embryol Cell Biol.* 2017;224:85-101. doi: 10.1007/978-3-319-52498-6_5.

117. Kleijer KTE, Huguet G, Tastet J, **Bourgeron T**, Burbach JPH. Anatomy and Cell Biology of Autism Spectrum Disorder: Lessons from Human Genetics. *Adv Anat Embryol Cell Biol.* 2017; 224:1-25. doi: 10.1007/978-3-319-52498-6_1.

116. Autism Spectrum Disorders Working Group of The Psychiatric Genomics Consortium. Meta-analysis of

GWAS of over 16,000 individuals with autism spectrum disorder highlights a novel locus at 10q24.32 and a significant overlap with schizophrenia. *Mol Autism*. 2017 May 22; 8:21. doi: 10.1186/s13229-017-0137-9. eCollection 2017.

115. Pagan C, Goubran-Botros H, Delorme R, Benabou M, Lemière N, Murray K, Amsellem F, Callebert J, Chaste P, Jamain S, Fauchereau F, Huguet G, Maronde E, Leboyer M, **Bourgeron T.** Disruption of melatonin synthesis is associated with impaired 14-3-3 and miR-451 levels in patients with autism spectrum disorders. *Scientific Reports 2017* 18;7(1):2096.

114. Gillberg C, Fernell E, Kočovská E, Minnis H, **Bourgeron T**, Thompson L, Allely CS. The role of cholesterol metabolism and various steroid abnormalities in autism spectrum disorders: A hypothesis paper. *Autism Res.* 2017 Apr 12. doi: 10.1002/aur.1777. [Epub ahead of print]

113. Kishimoto K, Nomura J, Ellegood J, Fukumoto K, Lerch JP, Moreno-De-Luca D, **Bourgeron T**, Tamada K, Takumi T. Behavioral and neuroanatomical analyses in a genetic mouse model of 2q13 duplication. *Genes Cells.* 2017 Mar 29. doi: 10.1111/gtc.12487. [Epub ahead of print]

112. Pfaender S., Sauer AK, Hagmeyer S, Mangus K, Linta L, Liebau S, Bockmann J, Huguet G, **Bourgeron T**, Boeckers TM, Grabrucker AM. Zinc deficiency and low enterocyte zinc transporter expression in human patients with autism related mutations in SHANK3. *Scientific Reports* 2017 27;7:45190.

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ORAL PRESENTATIONS (selected since 2015)

Royal Academy of Netherland, Amsterdam, Netherland, October 2019
Autism in China, Beijing, China, September 2019
Autism Europe, Nice, France , September 2019
Symposium on Individuality, Kyoto, Japan, July 2018
Japanese Society for Neuroscience, Kobe, Japan, July 2018
Riken Institut Tokyo, Japan, July 2018
MIT Social Brain Institute, Boston, USA, October 2017
Meeting on Brain Evolution, Les Treilles, France, October 2017
Montreal neuroscience Institute, Montreal, Canada, October 2017
ECNP Congress, Paris, September 2017
12th Troina Meeting on Genetics of Neurodevelopmental Disorders, Troina, Italy, April 2017
Keynote speaker International Convention of Psychological Science – ICPS, Vienna, Austria, March 2017
Genetics of Autism, Autism Affinity Lecture Series, UCLA, Los Angeles, USA, May 2016
Genetic Diversity in AutismS, Invited by the European Research Council (ERC), Brussells, Belgium, April 2016
The genetics of autism in the Faroe Islands, Tórshavn, The Faroe Islands, March 2016
Autism National Society, London, UK, November 2015
Mind the GAP, London, UK, Novembre 2015
International Autism Conference, Skive, Denmark, November 2015
The Frontiers in Neurodevelopmental Disorders (FiND), Sydney, Australia, August 2015
International Brain Research Organization (IBRO), Rio de Janeiro, Brazil, July 2015
University of Cardiff, March 2015