Curriculum Vitae 2017

Thomas Bourgeron
Born in Paris, France 09/11/1965

Professor at the University Paris 7
Human Genetics and Cognitive Functions Unit
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Formation

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	D.E.A	1990	Plant Biology
University Paris 6, Paris	Master	1989	Molecular Cell biology
University Paris 6, Paris	License	1988	Physiology, Cell Biology
University Paris 6, Paris	DEUG	1984-1987	Biology

Research laboratories

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

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

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

1995-1999: Assistant Professor in the laboratory "Human Immunogenetics" at the Pasteur Institute 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: DEA Student in the laboratory BV4 of the University Paris 6, directed by Pr. Claude Lance. Subject: Isolation of the succinate dehydrogenase of Potatoes.

Honours and Awards

Member of the French Academy of Sciences
Member of the Institut Universitaire de France (IUF)
Member of the European Molecular Biology Organisation (EMBO)
Member of the Academia Europaea
Member of the scientific advisory board of the French ministry of health for research on autism
Member of the ethical committee of the Institut Pasteur
Member of the ethical committee of the International Foundation of Applied Disability Research
Chairman of the scientific committee for IMFAR 2013
IPSEN Prize for Neuronal Plasticity, 2015
Chair of excellence of the Fondation Fondamental with the Foundation Bettencourt-Schueller 2012
Vallery Radot award from the Pasteur Institute and the French Academy of Sciences, 2008
Lacassagne award from the Collège de France, 2007
Jean Bernard award of the victories of medicine 2007
French Academy of Sciences award 2007 (Biological discoveries of 2007)
Awarded ENI (European Neuroscience Institutes) Young Investigator (2005)

Teaching activities

Co-director of the course "Molecular and Cell Genetics" from the Institut Pasteur
Director of the Master courses "Human Genetics and diseases" at the Master 1 level and "Human Genetics and Neurobiology" at the Master 2 level

Since October 2005: Professor at the University Paris Diderot. Teaching subject: Human Genetics, Molecular Biology.

1996-2005: Assistant Professor at the University Paris Diderot. Teaching subject: Human Genetics, Molecular Biology.

10 major publications

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

Toro R., Poline JB, Huguet G., Loth E, Frouin V, Banaschewski T., Barker GJ, Bokde A, Buchel C., Carvalho FM, Conrod P, Fauth-Buhler M., Flor H, Gallinat J, Garavan H, Gowland P., Heinz A, Ittermann B, Lawrence C, Lemaitre H, Mann K, Nees F, Paus T, Pausova Z, Rietschel M, Robbins T, Smolka MN, Strohle A, Schumann G, and **Bourgeron T** Genomic architecture of human neuroanatomical diversity **Molecular Psychiatry** (2014) doi: 10.103

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.

Karayannis T, E. Au, J. Patel, I. Kruglikov, S. Mark, R. Delorme, D. Héron, J. Glessner, S. Restituito, A. Gordon, L. Rodriguez-Murillo, N.C. Roy, J. Gogos, B. Rudy, M.E. Rice, M. Karayiorgou, H. Hakonarson, B. Keren, G. Huguet, **Bourgeron T**, C. Hoeffer, R.W. Tsien, E. Peles, G. Fishell. Cntnap4 Differentially Contributes to GABAergic and Dopaminergic Synaptic Transmission **Nature** (2014) May 25. doi: 10.1038

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

Papers at BIOARXIV

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 bioRxiv 104984; doi: https://doi.org/10.1101/104984

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. http://biorxiv.org/content/early/2016/10/19/081844 *equally contributed to the work as senior authors

Warrier V, Toro R, Chakrabarti B, Litterman N, Hinds D, **Bourgeron T***, Baron-Cohen S* Genome-wide analyses of empathy and systemizing: heritability and correlates with sex, education, and psychiatric risk. *Bioarxiv* doi: http://dx.doi.org/10.1101/050682 *equally contributed to the work as senior authors.

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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 *In press*

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111. Torquet N, de Chaumont F, Faure P, **Bourgeron T**, Ey E. mouseTube - a database to collaboratively unravel mouse ultrasonic communication. F1000Res. 2016 Sep 16;5:2332.

110. Beggiato A, Peyre H, Maruani A, Scheid I, Rastam M, Amsellem F, Gillberg CI, Leboyer M, **Bourgeron T**, Gillberg C, Delorme R. Gender differences in autism spectrum disorders: Divergence among specific core symptoms. Autism Res. 2016 Nov 3. doi: 10.1002

109. Bourgeron T. Current knowledge on the genetics of autism and propositions for future research. *C R Biol*. 2016 Jul-Aug;339(7-8):300-7.

108. Torrico B, Chiocchetti AG, Bacchelli E, Trabetti E, Hervás A, Franke B, Buitelaar JK, Rommelse N, Yousaf A, Duketis E, Freitag CM, Caballero-Andaluz R, Martinez-Mir A, Scholl FG, Ribasés M; ITAN, Battaglia A, Malerba G, Delorme R, Benabou M, Maestrini E, **Bourgeron T**, Cormand B, Toma C. Lack of replication of previous autism spectrum disorder GWAS hits in European populations. *Autism Res*. 2016 Jul 15. doi: 10.1002/aur.1662.

107. Darville H, Poulet A, Rodet-Amsellem F, Chatrousse L, Pernelle L, Boissart C, Héron D, Nava C, Perrier A, Jarrige M, Cogé F, Millan MJ, **Bourgeron T**, Peschanski M, Delorme R, Benchoua A Human Pluripotent Stem Cell-derived Cortical Neurons for High Throughput Medication Screening in Autism: A Proof of Concept Study in SHANK3 Haploinsufficiency Syndrome. EBioMedicine doi:10.1016/j.ebiom.2016.05.032.

106. 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, Cloët-Tayarani I and **Bourgeron T.** CNTN6 mutations are risk factors for abnormal auditory sensory perception in autism spectrum disorders. *Molecular Psychiatry 2016 May 10. doi: 10.1038/mp.2016.61.*

105. Ferhat AT, Torquet N, Le Sourd AM, de Chaumont F, Olivo-Marin JC, Faure P, **Bourgeron T.**, Ey E. Recording mouse ultrasonic vocalizations in the laboratory to evaluate social communication. *JoVE Jun 5;(112). doi: 10.3791/53871.*

104. Loth E, Spooren W, Ham LM, Isaac MB, Auriche-Benichou C, Banaschewski T, Baron-Cohen S, Broich K, Bölte S, **Bourgeron T**, Charman T, Collier D, de Andres-Trelles F, Durston S, Ecker C, Elferink A, Haberkamp M, Hemmings R, Johnson MH, Jones EJ, Khwaja OS, Lenton S, Mason L, Mantua V, Meyer-Lindenberg A, Lombardo MV, O'Dwyer L, Okamoto K, Pandina GJ, Pani L, Persico AM, Simonoff E, Tauscher-Wisniewski S, Llinares-Garcia J, Vamvakas S, Williams S, Buitelaar JK, Murphy DG. *Nature Reviews Drug Discovery*. 2015 Dec 31;15(1):70-3.

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103. Mosca-Boidron AL, Gueneau L, Huguet G, Goldenberg A, Henry C, Gigot N, Pallesi-Pocachard E, Falace A, Duplomb L, Thevenon J, Duffourd Y, St-Onge J, Chambon P, Rivière JB, Thauvin-Robinet C, Callier P, Marle N, Payet M, Ragon C, Botros HG, Buratti J, Calderari S, Dumas G, Delorme R, Lagarde N, Pinoit JM, Rosier A, Masurel-Paulet A, Cardoso C, Mugneret F, Saugier-Veber P, Campion D, Faivre L and **Bourgeron T.** A de novo microdeletion of SEMA5A in a boy with autism spectrum disorder and intellectual disability. *Eur J Hum Genet. 2015 Sep 23. doi: 10.1038/ejhg.2015.211. [Epub ahead of print]*

102. Maruani A, Huguet G, Beggiato A, ElMaleh M, Toro R, Leblond C, Mathieu A, Amsellem F, Lemière N, Verloes A, Leboyer M, Gillberg C, **Bourgeron T**, Delorme R. 11q24.2-25 micro-rearrangements in Autism Spectrum Disorders: Relation to Brain Structures. *Am J Med Genet A. 2015 Sep 3. doi: 10.1002/ajmg.a.37345.*

[Epub ahead of print]

101. Gouder L, Tinevez JY, Goubran-Botros H, Benchoua A, **Bourgeron T**, Cloëz-Tayarani I. Three-dimensional quantification of dendritic spines from pyramidal neurons derived from human inducible pluripotent stem cells. *JoVE 2015 Oct 10;(104). doi: 10.3791/53197.*

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

99. Bourgeron T. The genetics and neurobiology of ESSENCE: The third Birgit Olsson lecture. *Nord J Psychiatry*. 2015 May 14:1-9.

98. Ferhat AT, Le Sourd AM, de Chaumont F, Olivo-Marin JC, **Bourgeron T**, Ey E. Social communication in mice - are there optimal cage conditions? *PLoS One*. 2015 Mar 25;10(3):e0121802.

97. Lefebvre A, Beggiato A, **Bourgeron T,** Toro R. Neuroanatomical Diversity of Corpus Callosum and Brain Volume in Autism: Meta-analysis, Analysis of the Autism Brain Imaging Data Exchange Project, and Simulation. *Biological Psychiatry*. (2015) doi: 10.1016/j.biopsych.2015.02.010.

96. Pagan C, Delorme R, Callebert J, Goubran Botros H, Amsellem F, Drouot X, Boudebesse C, Le Dudal K, Ngo-Nguyen N, Laouamri H, Gillberg C, Leboyer M, **Bourgeron T**, Launay JM. The serotonin-N-acetylserotonin-melatonin pathway as a biomarker for autism spectrum disorders. *Translational Psychiatry* (2015) 4:e479.

95. Toro R., Poline JB, Huguet G., Loth E, Frouin V, Banaschewski T., Barker GJ, Bokde A, Buchel C., Carvalho FM, Conrod P, Fauth-Buhler M., Flor H, Gallinat J, Garavan H, Gowland P., Heinz A, Ittermann B, Lawrence C, Lemaitre H, Mann K, Nees F, Paus T, Pausova Z, Rietschel M, Robbins T, Smolka MN, Strohle A, Schumann G, and **Bourgeron T** Genomic architecture of human neuroanatomical diversity *Molecular Psychiatry* (2015) doi: 10.1038

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94. Kočovská E, Andorsdóttir G, Weihe P, Halling J, Fernell E, Stóra T, Biskupstø R, Gillberg IC, Shea R, Billstedt E, **Bourgeron T**, Minnis H, Gillberg C. Vitamin D in the General Population of Young Adults with Autism in the Faroe Islands. *J Autism Dev Disord*. 2014 Jun 14.

93. 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.

92. Karayannis T, E. Au, J. Patel, I. Kruglikov, S. Mark, R. Delorme, D. Héron, J. Glessner, S. Restituito, A. Gordon, L. Rodriguez-Murillo, N.C. Roy, J. Gogos, B. Rudy, M.E. Rice, M. Karayiorgou, H. Hakonarson, B. Keren, G. Huguet, **Bourgeron T**, C. Hoeffer, R.W. Tsien, E. Peles, G. Fishell. Cntnap4 Differentially Contributes to GABAergic and Dopaminergic Synaptic Transmission *Nature* 2014 May 25. doi: 10.1038

91. Pinel P, Lalanne C, **Bourgeron T**, Fauchereau F, Poupon C, Artiges E, Le Bihan D, Dehaene-Lambertz G, Dehaene S. Genetic and Environmental Influences on the Visual Word Form and Fusiform Face Areas. *Cereb Cortex*. 2014 May 13.

90. Pinto D, Delaby E, Merico D, Barbosa M, Merikangas A, Klei L, Thiruvahindrapuram B, Xu X, Ziman R, Wang Z, Vorstman JA, Thompson A, Regan R, Pilorge M, Pellecchia G, Pagnamenta AT, Oliveira B, Marshall CR, Magalhaes TR, Lowe JK, Howe JL, Griswold AJ, Gilbert J, Duketis E, Dombroski BA, De Jonge MV, Cuccaro M, Crawford EL, Correia CT, Conroy J, Conceição IC, Chiocchetti AG, Casey JP, Cai G, Cabrol C, Bolshakova N, Bacchelli E, Anney R, Gallinger S, Cotterchio M, Casey G, Zwaigenbaum L, Wittemeyer K, Wing K, Wallace S, van Engeland H, Tryfon A, Thomson S, Soorya L, Rogé B, Roberts W, Poustka F, Mouga S, Minshew N, McInnes LA, McGrew SG, Lord C, Leboyer M, Le Couteur AS, Kolevzon A, Jiménez González P, Jacob S, Holt R, Guter S, Green J, Green A, Gillberg C, Fernandez BA, Duque F, Delorme R, Dawson G, Chaste P, Café C, Brennan S, **Bourgeron T**, Bolton PF, Bölte S, Bernier R, Baird G, Bailey AJ, Anagnostou E, Almeida J, Wijsman EM, Vieland VJ, Vicente AM, Schellenberg GD, Pericak-Vance M, Paterson AD, Parr JR, Oliveira G, Nurnberger JI, Monaco AP, Maestrini E, Klauck SM, Hakonarson H, Haines JL, Geschwind DH, Freitag CM, Folstein SE, Ennis S, Coon H, Battaglia A, Szatmari P, Sutcliffe JS, Hallmayer J, Gill M, Cook EH, Buxbaum JD, Devlin B, Gallagher L, Betancur C, Scherer SW. Convergence of genes and cellular pathways dysregulated in autism spectrum disorders. *Am J Hum Genet*. 2014 May 1;94(5):677-94.

89. Huguet G., Nava C., Lemière N, Ey E, Brice A., Leboyer M., Szepetowski P, Gillberg C., Depienne C., Delorme R., **Bourgeron T.** Heterogeneous pattern of selective pressure for PRRT2 in human populations, but no association with autism spectrum disorders. *PLoS One* 9 (3); e886000

88. Fernell E, Wilson P, Hadjikhani N, **Bourgeron T**, Neville B, Taylor D, Minnis H, Gillberg C. Screening, Intervention and Outcome in Autism and Other Developmental Disorders: The Role of Randomized Controlled Trials. *J Autism Dev Disord*. 2014 Feb 20.

87. Waltes R, Duketis E, Knapp M, Anney RJ, Huguet G, Schlitt S, Jarczok TA, Sachse M, Kämpfer LM, Kleinböck T, Poustka F, Bölte S, Schmötzer G, Voran A, Huy E, Meyer J, **Bourgeron T**, Klauck SM, Freitag CM, Chiocchetti AG. Common variants in genes of the postsynaptic FMRP signalling pathway are risk factors for autism spectrum disorders. *Hum Genet*. 2014 Jan 19.

86. Kleijer KT, Schmeisser MJ, Krueger DD, Boeckers TM, Scheiffele P, **Bourgeron T**, Brose N, Burbach JP. Neurobiology of autism gene products: towards pathogenesis and drug targets. *Psychopharmacology* (Berl). 2014 Mar;231(6):1037-62.

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85. Scheid I, Maruani A, Huguet G, Leblond CS, Nygren G, Anckarsäter H, Beggiato A, Rastam M, Amsellem F, Gillberg IC, Elmaleh M, Leboyer M, Gillberg C, Betancur C, Coleman M, Hama H, Cook EH, **Bourgeron T**, Delorme R. Heterozygous FA2H mutations in autism spectrum disorders. *BMC Med Genet*. 2013 Dec 3;14(1):124.

84. Guilmatre A, Huguet G, Delorme R, **Bourgeron T.** The emerging role of SHANK genes in neuropsychiatric disorders. *Dev Neurobiol*. 2013 74(2): 113-22.

83. Ey E, Torquet N, Le Sourd AM, Leblond CS, Boeckers TM, Faure P and **Bourgeron T.** (2013) The Autism ProSAP1/Shank2 Mouse Model Displays Quantitative and Structural Abnormalities in Ultrasonic Vocalisations. *Behav Brain Res*. doi:pii: S0166-4328

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2012

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3. Quintana-Murci L., Veitia R., Santachiara-Benerecetti S., McElreavey K., Fellous M. and **Bourgeron T**. L'ADNmt, le chromosome Y et l'histoire des populations humaines. *Med /Sci* (1999) 15, 974-982.**1.**
2. Bourgeron T, Barbaux S, McElreavey K, Fellous M. Chromosome Y et spermatogenèse. *Contracept Fertil Sex* (1997) 25, 620-625
1. Bourgeron T, Barbaux S, McElreavey K, Fellous M. La génétique de l'infertilité masculine. *Med/Sci* (1996) 12, I-VIII

Oral Presentations (selected)

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, 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
The Person with Autism Spectrum Disorders: Animating Hope; Vatican, November 2014
Pekin University, China, September 2014
BSI, Riken, Tokyo, Japan, June 2013
Salk/Fondation Ipsen/Nature Symposium on Biological Complexity, La Jolla, CA, USA January 2013
Keynote speaker at the Simons Foundation for Autism Research (SFARI), NYC, USA, November 2012
Meeting on SHANKOPATHIES, Orlando, USA, 2012
FENS Barcelona, Spain, July 2012
Cell symposia on ASD Washington, USA, November 2011
Genes and Autisms: European Genetics Meeting. Amsterdam, Netherlands, May 2011
How to get a social synaptic network within your brain. Utrecht, Netherlands, April 2011
Keynote speaker Autism Europe, Catania, Italy October 2010
International Symposium for Autism Research Kanazawa University, Japan, March 2010
Visiting Lecturer, RIKEN Brain Science Institute, Wako-city Saitama, Japan, March 2010
2nd European Synapse Meeting, Gottingen, Germany, November 2009
Gordon Conference Chronobiology, Newport, Rhode Island, USA, July 2009
Anticiper notre futur pour l'autisme, Institut Pasteur; Paris, France, July 2009
10th anniversary of the COFECUB Salvador de Bahia, Brasil, May 2009
M.I.N.D. Institute Sacramento, USA, May 2009
Roche-Nature Medicine Symposium on Translational Neuroscience, Basel, Switzerland, April 2009
Innovative Research In Autism (IRIA2009) Tours, France April 2009
Dutch Autism Congress, Rotterdam, Netherland, March 2009
Academie Française de Médecine, February 2009
Seminars at the Institute of Human Genetics in Heidelberg, Germany, February 2009
Annual congress for the Japanese association for Biochemistry and Molecular Biology (BMB 2008), December 2008, Kobé, Japan.
Gordon Conference on Neurobiology of Brain Disorders, Circuit Dysfunction & Neurodegeneration, August 2008, Oxford, UK.
Keynote lecture for the International Meeting for Autism Research (IMFAR), May 2008, London, UK.
"Epigenetics and Behavior". Mars 2008 Nature Neuroscience / Nature Genetics/ IPSEN; Houston, USA.
"Frontiers in the Developmental Neurobiology of Autism" Wellcome Trust, January 2008, London, UK.
Signalling pathways in Cellular Differentiation, October 2007, Ulm, Germany.
39eme Congrès de la société Francophone de chronobiologie. 2007 Paris, France.
From molecules to cognition: a tribute to Jean-Pierre Changeux. Institut Pasteur, 2007 Paris, France
72nd Cold Spring Harbor Symposium on Quantitative Biology, Clocks & Rhythms 2007, USA
Symposium - Brain Development in Children: A Matter of Connectivity, 2007 Montréal, Canada
From monogenic to oligogenic diseases. Collège de France 2007, Paris, France
Biomedical Ethics Summer School 2006, Cambridge, UK
A critical assessment of autism genetics 2006 Cold Spring Harbor, USA
Genetics of Autism *Social Brain* 2006, Glasgow, Scotland
Kick off meeting of the ENI-Net FP6 project, 2005, Praha, Czech Republic
Kick off meeting of the Eurosynapse project; 2005, Baeza Spain,
World Congress of Neuropsychopharmacology, 2005, Amsterdam, Nederland
Synapse, langage et autisme ; Collège de France 2005, Paris, France
Synaptic plasticity in autism. *Autism Gene-environment interaction meeting*. 2004, Tokyo, Japan.
Rare variations and stop mutation in the neuroligin genes in Asperger syndrome. 2004, *ISPG* Dublin, Ireland
Genes for synaptic plasticity in autism. *Perque autism? Congrès en l'honneur d'Utah Frith*. 2004 Palerma, Italy
A major role for glutamatergic synapses in autism. 2004 *European Neuroscience Institute,* Alicante, Spain
Mutation des neuroligines et association d'un récepteur au glutamate avec l'autisme. 2004, *2eme Assises de génétique Humaine et Médicale*, Angers, France
Glutamatergic synapses in autism, 2003, *International meeting on phenotypic and genetic profiles in Asperger Syndrome and infantile autism*, Helsinky, Finland
Genetics of Autism, *Symposium on new research trends in higher brain functions and their pharmacology: from molecular to cognitive levels*. 2003, Ajaccio, France
Mutations of the X-linked neuroligins *NLGN3* and *NLGN4* are associated with autism, 2003, *World Congress on Psychiatry Genetics*, Quebec, Canada
Genetics of Cognitive Functions. Club de Recherche en Psychiatry, 2003, Dublin, Ireland
Brain variability and autism. *Brain Genetics and variability*, 2003, Institut Pasteur, France

Genetics of autism. *Social Brain Conference*, 2003, Göteborg, Sweden
La génétique de l'autisme. *Les journées du cerveau*. 2003, Gif sur Yvette, France.
Sex chromosomes, synaptogenesis and autism. Callaway Gardens Conferences. 2002, Atlanta, USA
La génétique de l'autisme. Les journées du cerveau. Mars 2001, Créteil, France.
Linkage and associtation of the *GluR6* gene with autism Callaway Gardens Conferences. 2001, Atlanta, USA
A mutation in the flavoprotein subunit gene of the succinate dehydrogenase: the first nuclear gene mutation in mitochondrial respiratory chain deficiency. (1995) International Congress on Human Mitochondrial Pathology, Versailles, France.
International Congress on Human Mitochondrial Pathology, 1992, Roma, Italy

Patents
Bourgeron T. Melke J. Goubran-Botros H, Launay JM, leboyer M, Gillberg C. Genetic variations associated with psychiatric disorders. (2005) DI 2005-45
Bourgeron T, Jamain S, Quach H, Betancur C, Leboyer M, Gillberg C. Polynucléotides et proteins impliqués dans la synaptogenèse, variants de ceux-çi, et leurs applications thérapeutiques et diagnostiques. (2002) DI 02-103.

Grants
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)
2009-2012: ANR SynGen-ASD-LD (218 K €/ 4 years)
2010-2011: Fondation de France (72 k €/ 2 years)
2009-2011: Fondation Orange (180 k€ / 3 years)
2010-2012: ANR FLEXNEURIM (111 k€ / 3 years)
2009-2010: Foundation Simone and Cino DelDuca (200 k€ / 2 years)
2005-2008: FP6 European Union Framework Project 6 EUsynapse PI of partner 16.
2005-2008: FP6 European Union Framework Project 6 AUMOLGEN PI of partner 14.

Reviewer for scientific 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