

1. Hsiao EY, Immune dysregulation in autism spectrum disorder. *Int Rev Neurobiol.* 2013;113:269-302.
2. Meltzer A, Van de Water J. The Role of the Immune System in Autism Spectrum Disorder. *Neuropsychopharmacology.* 2017 Jan;42(1):284-298.
3. Urs Meyer Developmental neuroinflammation and schizophrenia *Progress in Neuro-Psychopharmacology and Biological Psychiatry* Volume 42, 5 April 2013, Pages 20-34
4. Chess, S. (1971) Autism in children with congenital rubella. *J Autism Child Schizophr.* Jan-Mar;1(1):33-47.
5. Brian K.Lee, Cecilia Magnusson, Renee M.Gardner, Åsa Blomström, Craig J.Newschaffer, Igor Burstyn, Håkan Karlsson, Christina Dalman Maternal hospitalization with infection during pregnancy and risk of autism spectrum disorders, *Brain, Behavior, and Immunity,* Volume 44, February 2015, Pages 100-105
6. Paul H.Patterson, Maternal infection and immune involvement in autism, *Trends in Molecular Medicine,* Volume 17, Issue 7, July 2011, Pages 389-394
7. Meyer U, Feldon J, Schedlowski M, Yee BK., Towards an immuno-precipitated neurodevelopmental animal model of schizophrenia, *Neurosci Biobehav Rev.* 2005; 29(6):913-47.
8. John H. Gilmore, L. Fredrik Jarskog, Swarooparani Vadlamudi, Maternal poly I:C exposure during pregnancy regulates TNF $\alpha$ , BDNF, and NGF expression in neonatal brain and the maternal–fetal unit of the rat, *Journal of neuroimmunology,* February 2005 Volume 159, Issues 1-2, Pages 106–112
9. Urakubo A, Jarskog Lf, Lieberman JA, Gilmore JH. Prenatal exposure to maternal infection alters cytokine expression in the placenta, amniotic fluid, and fetal brain. *Schizophr Res* 2001; 47:27-36.
10. Zuckerman L, Weiner I., Maternal immune activation leads to behavioral and pharmacological changes in the adult offspring., *J Psychiatr Res.* 2005 May;39(3):311-23.
11. Shi, L., Fatemi, S.H., Sidewell, R.W., Patterson, P.H. Maternal influenza infection causes marked behavioral and pharmacological changes in the offspring. *J. Neurosci.* 2003;23:297–302.
12. Malkova NV1, Yu CZ, Hsiao EY, Moore MJ, Patterson PH., Maternal immune activation yields offspring displaying mouse versions of the three core symptoms of autism., *Brain Behav Immun.* 2012 May;26(4):607-16.
13. U Weber-Stadlbauer, J Richetto, M A Labouesse, J Bohacek, I M Mansuy & U Meyer, Transgenerational transmission and modification of pathological traits induced by prenatal immune activation, *Molecular Psychiatry* volume 22, pages 102–112 (2017)
14. Alan S. Brown, M.D., † Andre Sourander, M.D., Susanna Hinkka-Yli-Salomäki, Ph.Lic, Ian W. McKeague, Ph.D., Jouko Sundvall, M.Sc., and Helja-Marja Surcel, Ph.D, Elevated Maternal C-Reactive Protein and Autism in a National Birth Cohort, *Mol Psychiatry.* 2014 Feb; 19(2): 259–264.
15. Goines PE, Croen LA, Braunschweig D, Yoshida CK, Grether J, Hansen R, Kharrazi M, Ashwood P, Van de Water J., Increased midgestational IFN- $\gamma$ , IL-4 and IL-5 in women bearing a child with autism: A case-control study., *Mol Autism.* 2011 Aug 2;2:13
16. Abdallah, A.M., Zhou, X., Kim, C., Shah, K.K., Hogden, C., Schoenherr, J.A., Clemens, J.C., Chang, H.C. (2013). Activated Cdc42 kinase regulates Dock localization in male germ cells during *Drosophila* spermatogenesis. *Dev. Biol.* 378(2): 141--153.
17. E. J. H. Jones Email author, K. Venema, R. Earl, R. Lowy, K. Barnes, A. Estes, G. Dawson and S. J. Webb, Reduced engagement with social stimuli in 6-month-old infants with later autism spectrum disorder: a longitudinal prospective study of infants at high familial risk, *Journal of Neurodevelopmental Disorders* 2016, 8:7

18. Brown, J.B., Boley, N., Eisman, R., May, G.E., Stoiber, M.H., Duff, M.O., Booth, B.W., Wen, J., Park, S., Suzuki, A.M., Wan, K.H., Yu, C., Zhang, D., Carlson, J.W., Cherbas, L., Eads, B.D., Miller, D., Mockaitis, K., Roberts, J., Davis, C.A., Frise, E., Hammonds, A.S., Olson, S., Shenker, S., Sturgill, D., Samsonova, A.A., Weiszmann, R., Robinson, G., Hernandez, J., Andrews, J., Bickel, P.J., Carninci, P., Cherbas, P., Gingeras, T.R., Hoskins, R.A., Kaufman, T.C., Lai, E.C., Oliver, B., Perrimon, N., Graveley, B.R., Celniker, S.E. (2014). Diversity and dynamics of the *Drosophila* transcriptome. *Nature* 512(7515): 393--399.
19. Braunschweig D1, Van de Water J., Maternal autoantibodies in autism., *Arch Neurol.* 2012 Jun;69(6):693-9.
20. Singer HS, Morris CM, Gause CD, Gillin PK, Crawford S, Zimmerman AW., Antibodies against fetal brain in sera of mothers with autistic children, *J Neuroimmunol.* 2008 Feb;194(1-2):165-72
21. Brimberg L, Sadiq A, Gregersen PK, Diamond B., Brain-reactive IgG correlates with autoimmunity in mothers of a child with an autism spectrum disorder, *Mol Psychiatry.* 2013 Nov;18(11):1171-7
22. Comi AM, Zimmerman AW, Frye VH, Law PA, Peeden JN., Familial clustering of autoimmune disorders and evaluation of medical risk factors in autism, *J Child Neurol.* 1999 Jun;14(6):388-94.
23. Sweeten TL, Bowyer SL, Posey DJ, Halberstadt GM, McDougle CJ., Increased prevalence of familial autoimmunity in probands with pervasive developmental disorders, *Pediatrics.* 2003 Nov; 112(5):e420.
24. Molloy CA, Morrow AL, Meinzen-Derr J, Schleifer K, Dienger K, Manning-Courtney P, Altaye M, Wills-Karp M., Elevated cytokine levels in children with autism spectrum disorder, *J Neuroimmunol.* 2006 Mar;172(1-2):198-205
25. Atladóttir HO, Pedersen MG, Thorsen P, Mortensen PB, Deleuran B, Eaton WW, Parner ET, Association of family history of autoimmune diseases and autism spectrum disorders, *Pediatrics.* 2009 Aug; 124(2):687-94. Epub 2009 Jul 5.
26. Keil A1, Daniels JL, Forssen U, Hultman C, Cnattingius S, Söderberg KC, Feychting M, Sparen P., Parental autoimmune diseases associated with autism spectrum disorders in offspring, *Epidemiology.* 2010 Nov;21(6):805-8
27. Singer HS, Morris CM, Gause CD, Gillin PK, Crawford S, Zimmerman AW., Antibodies against fetal brain in sera of mothers with autistic children, *J Neuroimmunol.* 2008 Feb;194(1-2):165-72
28. Atladóttir HO, Pedersen MG, Thorsen P, Mortensen PB, Deleuran B, Eaton WW, Parner ET, Association of family history of autoimmune diseases and autism spectrum disorders, *Pediatrics.* 2009 Aug; 124(2):687-94. Epub 2009 Jul 5.
29. Charity Onore, Milo Careaga, Paul Ashwood, The role of immune dysfunction in the pathophysiology of autism, *Brain, Behavior, and Immunity*, Volume 26, Issue 3, March 2012, Pages 383-392
30. Alexander Kolevzon; Raz Gross, MD; Abraham Reichenberg, MD, MPH, Prenatal and Perinatal Risk Factors for Autism, A Review and Integration of Findings, *Arch Pediatr Adolesc Med.* 2007;161(4):326-333
31. Paul H. Patterson, Maternal infection and immune involvement in autism, *Trends in Molecular Medicine*, Volume 17, Issue 7, July 2011, Pages 389-394
32. Goines P, Van de Water J., The immune system's role in the biology of autism, *Curr Opin Neurol.* 2010 Apr;23(2):111-7
33. Timothy Buie, Daniel B. Campbell, George J. Fuchs III, Glenn T. Furuta, Joseph Levy, Judy VandeWater, Agnes H. Whitaker, Dan Atkins, Margaret L. Bauman, Arthur L. Beaudet, Edward G. Carr, Michael D. Gershon, Susan L. Hyman, Pipop Jirapinyo, Harumi Jyonouchi, Koorosh Kooros, Rafail Kushak, Pat Levitt, Susan E. Levy, Jeffery D. Lewis, Katherine F. Murray, Marvin R. Natowicz,

- Aderbal Sabra, Barry K. Wershil, Sharon C. Weston, Lonnie Zeltzer, Harland Winter, Evaluation, Diagnosis, and Treatment of Gastrointestinal Disorders in Individuals With ASDs: A Consensus Report, *Pediatrics*, January 2010, VOLUME 125 / ISSUE Supplement 1
34. Enstrom AM, Onore CE, Van de Water JA, Ashwood P., Differential monocyte responses to TLR ligands in children with autism spectrum disorders, *Brain Behav Immun*. 2010 Jan;24(1):64-71
  35. Paul Ashwood, , Paula Krakowiak, Irva Hertz-Picciotto, Robin Hansen, Isaac Pessah, and Judy Van de Water, Elevated plasma cytokines in autism spectrum disorders provide evidence of immune dysfunction and are associated with impaired behavioral outcome, *Brain Behav Immun*. 2011 Jan; 25(1): 40–45.
  36. Malik M, Sheikh AM, Wen G, Spivack W, Brown WT, Li X: Expression of inflammatory cytokines, Bcl2 and cathepsin D are altered in lymphoblasts of autistic subjects. *Immunobiology*. 2011, 216: 80-85.
  37. Jyonouchi H, Sun S, Le H: Proinflammatory and regulatory cytokine production associated with innate and adaptive immune responses in children with autism spectrum disorders and developmental regression. *J Neuroimmunol*. 2001, 120: 170-179
  38. Chez MG1, Guido-Estrada N., Immune therapy in autism: historical experience and future directions with immunomodulatory therapy., *Neurotherapeutics*. 2010 Jul;7(3):293-301
  39. Michael G. Chez, Tim Dowling, BS, Pikul B. Patel, MS, Pavan Khanna, MS, Matt Kominsky, Elevation of Tumor Necrosis Factor-Alpha in Cerebrospinal Fluid of Autistic Children, June 2007 Volume 36, Issue 6, Pages 361–365
  40. Krassimira Garbett, Philip J.Ebert, Amanda Mitchell, Carla Lintas, Barbara Manzi, Károly Mirnics, Antonio M. Persico, Immune transcriptome alterations in the temporal cortex of subjects with autism, *Neurobiology of Disease*, Volume 30, Issue 3, June 2008, Pages 303-311
  41. Diana L. Vargas MD, Caterina Nascimbene MD, Chitra Krishnan MHS, Andrew W. Zimmerman MD, Carlos A. Pardo M, Neuroglial activation and neuroinflammation in the brain of patients with autism, *Annals of neurology*, Volume 57, Issue 1, January 2005 , Pages 67–81
  42. Kyoko Okada, Kenji Hashimoto, Yasuhide Iwata, Kazuhiko Nakamura, Masatsugu Tsujii, Kenji J. Tsuchiya, Yoshimoto Sekine, Shiro Suda, Katsuaki Suzuki, Gen-chi Sugihara, Hideo Matsuzaki, Toshiro Sugiyama, Masayoshi Kawai, Yoshio Minabe, Nori Takei, Norio Mori, Decreased serum levels of transforming growth factor- $\beta$ 1 in patients with autism, *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, Volume 31, Issue 1, 30 January 2007, Pages 187-190
  43. Paul Ashwood, Amanda Enstrom, Paula Krakowiak, Irva Hertz-Picciotto, Robin L. Hansen, Lisa A. Croen, Sally Ozonoff, Isaac N. Pessah, Judy Van de Water, Decreased transforming growth factor beta1 in autism: A potential link between immune dysregulation and impairment in clinical behavioral outcomes, *J Neuroimmunol*, November 15, 2008 Volume 204, Issues 1-2, Pages 149–153
  44. Gehan A. Mostafa, MD, Abeer Al Shehab, MD, Nermeen R. Fouad, MBBCh, Frequency of CD4+CD25high Regulatory T Cells in the Peripheral Blood of Egyptian Children With Autism, *J Child Neurol*. Vol 25, Issue 3, 2010
  45. Susana C Silva, Catarina Correia, Constantin Fesel, Marta Barreto, Ana M Coutinho, Carla Marques, Teresa S Miguel, Assunção Ataíde, Celeste Bento, Luis Borges, Guiomar Oliveira, Astrid M Vicen, Autoantibody repertoires to brain tissue in autism nuclear families, *J Neuroimmunol*, July 2004 Volume 152, Issues 1-2, Pages 176–182
  46. Cooper, M.A., Fehniger, T.A., Caligiuri, M.A. The biology of human natural killer-cell subsets. *Trends Immunol*. 2001;22:633–640.

47. Connolly AM, Chez M, Streif EM, Keeling RM, Golumbek PT, Kwon JM, Riviello JJ, Robinson RG, Neuman RJ, Deuel RM., Brain-derived neurotrophic factor and autoantibodies to neural antigens in sera of children with autistic spectrum disorders, Landau-Kleffner syndrome, and epilepsy, *Biol Psychiatry*. 2006 Feb 15;59(4):354-63
48. Singh VK, Lin SX, Yang VC., Serological association of measles virus and human herpesvirus-6 with brain autoantibodies in autism. *Clin Immunol Immunopathol*. 1998 Oct;89(1):105-8.
49. Gehan A Mostafa, and Laila Y AL-Ayadhi, Reduced serum concentrations of 25-hydroxy vitamin D in children with autism: Relation to autoimmunity, *Journal of Neuroinflammation* 2012 9:201
50. Sina Moeller and all, Lack of association between autism and anti-GM1 ganglioside antibody, *Neurology*. 2013 Oct 29; 81(18): 1640–1641
51. Milo Careaga and all, Increased Anti-Phospholipid Antibodies in Autism Spectrum Disorders, *Mediators of Inflammation*, Volume 2013 (2013), Article ID 935608, 7 pages
52. Harvey S. Singer r, Christina M. Morris, Phillip N. Williams, Dustin Y. Yoon, John J. Hong, Andrew W. Zimmerman, Antibrain antibodies in children with autism and their unaffected siblings, *J Neuroimmunol*, September 2006 Volume 178, Issues 1-2, Pages 149–155
53. Richard E. Frye and all, Blocking and Binding Folate Receptor Alpha Autoantibodies Identify Novel Autism Spectrum Disorder Subgroups, *Front. Neurosci.*, 09 March 2016
54. Daniel Braunschweig and all, Autism: Maternally derived antibodies specific for fetal brain proteins, *NeuroToxicology*, Volume 29, Issue 2, March 2008, Pages 226-231
55. Horvath, Karoly MD, PhD; Perman, Jay A. MD†, Autistic disorder and gastrointestinal disease, *Current Opinion in Pediatrics*: October 2002 - Volume 14 - Issue 5 - p 583-587
56. Ibrahim, S. H., Voigt, R. G., Katusic, S. K., Weaver, A. L., & Barbaresi, W. J. (2009). Incidence of gastrointestinal symptoms in children with autism: a population-based study. *Pediatrics*, 124(2), 680–686.
57. Svend Erik, Bente Rich, Torben Isager, Epilepsy in Individuals with a History of Asperger's Syndrome: A Danish Nationwide Register-Based Cohort Study, *Journal of Autism and Developmental Disorders*, June 2013, Volume 43, Issue 6, pp 1308–1313
58. Virginia Chaidez, Robin L. Hansen, Irva Hertz-Picciotto, Gastrointestinal Problems in Children with Autism, Developmental Delays or Typical Development, *Journal of Autism and Developmental Disorders*, May 2014, Volume 44, Issue 5, pp 1117–1127
59. D'Eufemia, M Celli, R Finocchiaro, L Pacifico, L Viozzi, M Zaccagnini, E Cardi, O Giardini, Abnormal intestinal permeability in children with autism, *Acta Paediatrica*, Volume 85, Issue 9, September 1996, Pages 1076–1079
60. Wakefield AJ, Anthony A, Murch SH, et al, Enterocolitis and immunodeficiency in children with developmental disorders, *Am J Gastroenterol*, 2000, 95, 2285-2295
61. Valicenti-McDermott, M., McVicar, K., Rapin, I., Wershil, B. K., Cohen, H., & Shinnar, S. (2006). Frequency of gastrointestinal symptoms in children with autistic spectrum disorders and association with family history of autoimmune disease. *Journal of Developmental and Behavioral Pediatrics*, 27(2 Suppl), S128–S136.
62. Cross-Disorder Group of the Psychiatric Genomics Consortium, Identification of risk loci with shared effects on five major psychiatric disorders: a genome-wide analysis, *Lancet*. 2013 Apr 20;381(9875):1371-9.
63. Torres et al., The Micro-Movement Perspective, *Frontiers in Integrative Neuroscience* in press · January 2013

64. P. Ferrante, M. Saresella, F.R. Guerini, M. Marzorati, M.C. Musetti, A.G. Cazzullo, Significant association of HLA A2-DR11 with CD4 naive decrease in autistic children, *Biomed. Pharmacother.*, 57 (2003), pp. 372-374
65. R. P. Warren, V. K. Singh, R. E. Averett, J. D. Odell, A. Maciulis, R. A. Burger, W. W. Daniels, W. L. Warren, Immunogenetic studies in autism and related disorders, *Molecular and Chemical Neuropathology*, May 1996, Volume 28, Issue 1–3, pp 77–81
66. Anthony R Torres, Alma Maciulis, E.Gene Stubbs, Adele Cutler, Dennis Odell, The transmission disequilibrium test suggests that HLA-DR4 and DR13 are linked to autism spectrum disorder, *Human Immunology*, Volume 63, Issue 4, April 2002, Pages 311-316
67. Dennis Odell, Alma,Maciulis, Adele Cutler, Louise Warren, William M.McMahon, Hilary Coon, Gene Stubbs, Kathy Henley, Anthony Torres, Confirmation of the association of the C4B null allele in autism, *Human Immunology*, Volume 66, Issue 2, February 2005, Pages 140-145
68. Gehan A. Mostafa, , Abeer A. Shehab, The link of C4B null allele to autism and to a family history of autoimmunity in Egyptian autistic children, *J Neuroimmunol*, June 2010Volume 223, Issues 1-2, Pages 115–119
69. Reed P. Warren, Vijendra K. Singh, Phyllis Cole, J. Dennis Odell, Carmen B. Pingree, W. Louise Warren, Charles W. DeWitt, Maxine McCullough, Possible association of the extended MHC haplotype B44-SC30-DR4 with autism, *Immunogenetics*, July 1992, Volume 36, Issue 4, pp 203–207
70. Franca R.Guerini, Elisabetta Bolognesi, Matteo Chiappedi, Alessandro Ghezzi, Maria Paola Canevini, Martina M.Mensi, Aglaia Vignoli, Cristina Agliardi, Michela Zanette, Mario Clerici, An HLA-G\*14bp insertion/deletion polymorphism associates with the development of autistic spectrum disorders, *Brain, Behavior, and Immunity*, Volume 44, February 2015, Pages 207-212
71. Gehan A. Mostafa, , Abeer A. Shehab, , Laila Y. Al-Ayadhi, The link between some alleles on human leukocyte antigen system and autism in children, *J Neuroimmunol*, February 15, 2013Volume 255, Issues 1-2, Pages 70–74
72. Bennabi M, Delorme R, Oliveira J, Fortier C, Lajnef M, Boukouaci W, et al. (2015) Dectin-1 Polymorphism: A Genetic Disease Specifier in Autism Spectrum Disorders? *PLoS ONE* 10(9): e0137339. <https://doi.org/10.1371/journal.pone.0137339>
73. SEKAR, Aswin and all, Schizophrenia risk from complex variation of complement component 4, *Nature* volume 530, pages 177–183 (11 February 2016)
74. Mary Jacena S. Leigh and all, A Randomized Double-Blind, Placebo-Controlled Trial of Minocycline in Children and Adolescents with Fragile X Syndrome, *J Dev Behav Pediatr.* 2013 Apr; 34(3): 147–155.
75. Elaine Y Hsiao and all, Microbiota Modulate Behavioral and Physiological Abnormalities Associated with Neurodevelopmental Disorders, *Cell*, Volume 155, Issue 7, 19 December 2013, Pages 1451-1463
76. Dae-Wook Kang and all, Microbiota Transfer Therapy alters gut ecosystem and improves gastrointestinal and autism symptoms: an open-label study, *Microbiome*2017 5:10
77. Gloria B. Choi and all, The maternal interleukin-17a pathway in mice promotes autism-like phenotypes in offspring, *Science* 26 Feb 2016: Vol. 351, Issue 6276, pp. 933-939
78. Antonio Uccelli, Vito Pistoia, Lorenzo Moretta, Mesenchymal stem cells: a new strategy for immunosuppression?, *Trends in Immunology*, Volume 28, Issue 5, May 2007, Pages 219-226.