

BIBLIOGRAPHY – AUTISM AND GUT/GASTROINTESTINAL

- 1: Narasingharao K, Pradhan B, Navaneetham J. Efficacy of Structured Yoga Intervention for Sleep, Gastrointestinal and Behaviour Problems of ASD Children: An Exploratory Study. *J Clin Diagn Res.* 2017 Mar;11(3):VC01–VC06. doi: 10.7860/JCDR/2017/25894.9502. Epub 2017 Mar 1. PubMed PMID: 28511484; PubMed Central PMCID: PMC5427410.
- 2: Luo M, Fan J, Wenger TL, Harr MH, Racobaldo M, Mulchandani S, Dubbs H, Zackai EH, Spinner NB, Conlin LK. CMIP haploinsufficiency in two patients with autism spectrum disorder and co-occurring gastrointestinal issues. *Am J Med Genet A.* 2017 May 15. doi: 10.1002/ajmg.a.38277. [Epub ahead of print] PubMed PMID: 28504353.
- 3: Li Q, Han Y, Dy ABC, Hagerman RJ. The Gut Microbiota and Autism Spectrum Disorders. *Front Cell Neurosci.* 2017 Apr 28;11:120. doi: 10.3389/fncel.2017.00120. eCollection 2017. Review. PubMed PMID: 28503135; PubMed Central PMCID: PMC5408485.
- 4: Esnafoglu E, Cırrık S, Ayyıldız SN, Erdil A, Ertürk EY, Dağlı A, Noyan T. Increased Serum Zonulin Levels as an Intestinal Permeability Marker in Autistic Subjects. *J Pediatr.* 2017 May 11. pii: S0022-3476(17)30487-0. doi: 10.1016/j.jpeds.2017.04.004. [Epub ahead of print] PubMed PMID: 28502607.
- 5: Lim JS, Lim MY, Choi Y, Ko G. Modeling environmental risk factors of autism in mice induces IBD-related gut microbial dysbiosis and hyperserotonemia. *Mol Brain.* 2017 Apr 20;10(1):14. doi: 10.1186/s13041-017-0292-0. PubMed PMID: 28427452; PubMed Central PMCID: PMC5399341.

6: Starr LJ, Lindor NM, Lin AE. Myhre Syndrome. 2017 Apr 13. In: Pagon RA, Adam MP, Ardinger HH, Wallace SE, Amemiya A, Bean LJH, Bird TD, Ledbetter N, Mefford HC, Smith RJH, Stephens K, editors. GeneReviews® [Internet]. Seattle (WA): University of Washington, Seattle; 1993–2017. Available from <http://www.ncbi.nlm.nih.gov/books/NBK425723/> PubMed PMID: 28406602.

7: Manchia M, Fanos V. Targeting aggression in severe mental illness: The predictive role of genetic, epigenetic, and metabolomic markers. *Prog Neuropsychopharmacol Biol Psychiatry*. 2017 Apr 2;77:32–41. doi: 10.1016/j.pnpbp.2017.03.024. [Epub ahead of print] Review. PubMed PMID: 28372995.

8: Coretti L, Cristiano C, Florio E, Scala G, Lama A, Keller S, Cuomo M, Russo R, Pero R, Paciello O, Mattace Raso G, Meli R, Coccozza S, Calignano A, Chiariotti L, Lembo F. Sex-related alterations of gut microbiota composition in the BTBR mouse model of autism spectrum disorder. *Sci Rep*. 2017 Mar 28;7:45356. doi: 10.1038/srep45356. PubMed PMID: 28349974; PubMed Central PMCID: PMC5368984.

9: Martin CR, Mayer EA. Gut–Brain Axis and Behavior. *Nestle Nutr Inst Workshop Ser*. 2017;88:45–53. doi: 10.1159/000461732. Epub 2017 Mar 27. PubMed PMID: 28346923.

10: Pfaender S, Sauer AK, Hagemeyer S, Mangus K, Linta L, Liebau S, Bockmann J, Huguët G, Bourgeron T, Boeckers TM, Grabrucker AM. Zinc deficiency and low enterocyte zinc transporter expression in human patients with autism related mutations in SHANK3. *Sci Rep*. 2017 Mar 27;7:45190. doi: 10.1038/srep45190. PubMed PMID: 28345660; PubMed Central PMCID: PMC5366950.

11: Hellings JA, Arnold LE, Han JC. Dopamine antagonists for treatment resistance

in autism spectrum disorders: review and focus on BDNF stimulators
loxapine and
amitriptyline. *Expert Opin Pharmacother*. 2017 Apr;18(6):581-588. doi:
10.1080/14656566.2017.1308483. Review. PubMed PMID: 28335658.

12: Vuong HE, Yano JM, Fung TC, Hsiao EY. The Microbiome and Host
Behavior. *Annu
Rev Neurosci*. 2017 Mar 8. doi: 10.1146/annurev-neuro-072116-031347.
[Epub ahead
of print] PubMed PMID: 28301775.

13: Lussu M, Noto A, Masili A, Rinaldi AC, Dessì A, De Angelis M, De
Giacomo A,
Fanos V, Atzori L, Francavilla R. The urinary (1) H-NMR metabolomics
profile of
an italian autistic children population and their unaffected siblings.
*Autism
Res*. 2017 Mar 11. doi: 10.1002/aur.1748. [Epub ahead of print] PubMed
PMID:
28296209.

14: Latalova K, Hajda M, Prasko J. Can gut microbes play a role in
mental
disorders and their treatment? *Psychiatr Danub*. 2017 Mar;29(1):28-30.
PubMed
PMID: 28291971.

15: Marler S, Ferguson BJ, Lee EB, Peters B, Williams KC, McDonnell E,
Macklin
EA, Levitt P, Margolis KG, Beversdorf DQ, Veenstra-VanderWeele J.
Association of
Rigid-Compulsive Behavior with Functional Constipation in Autism
Spectrum
Disorder. *J Autism Dev Disord*. 2017 Jun;47(6):1673-1681. doi:
10.1007/s10803-017-3084-6. PubMed PMID: 28289979.

16: Luna RA, Oezguen N, Balderas M, Venkatachalam A, Runge JK,
Versalovic J,
Veenstra-VanderWeele J, Anderson GM, Savidge T, Williams KC. Distinct
Microbiome-Neuroimmune Signatures Correlate With Functional Abdominal
Pain in
Children With Autism Spectrum Disorder. *Cell Mol Gastroenterol
Hepatol*. 2016 Dec
11;3(2):218-230. doi: 10.1016/j.jcmgh.2016.11.008. eCollection 2017
Mar. PubMed

PMID: 28275689; PubMed Central PMCID: PMC5331780.

17: Braun J. Tightening the Case for Gut Microbiota in Autism-Spectrum Disorder.

Cell Mol Gastroenterol Hepatol. 2017 Feb 3;3(2):131-132. doi: 10.1016/j.jcmgh.2017.01.010. eCollection 2017 Mar. PubMed PMID: 28275677; PubMed Central PMCID: PMC5331834.

18: Zhao R, Chu L, Wang Y, Song Y, Liu P, Li C, Huang J, Kang X.

Application of packed-fiber solid-phase extraction coupled with GC-MS for the determination of short-chain fatty acids in children's urine. Clin Chim Acta. 2017 Feb 22;468:120-125. doi: 10.1016/j.cca.2017.02.016. [Epub ahead of print] PubMed PMID: 28237548.

19: Shaw W. Elevated Urinary Glyphosate and Clostridia Metabolites With Altered

Dopamine Metabolism in Triplets With Autistic Spectrum Disorder or Suspected Seizure Disorder: A Case Study. Integr Med (Encinitas). 2017 Feb; 16(1):50-57. PubMed PMID: 28223908; PubMed Central PMCID: PMC5312745.

20: Strati F, Cavalieri D, Albanese D, De Felice C, Donati C, Hayek J, Jousson O,

Leoncini S, Renzi D, Calabrò A, De Filippo C. New evidences on the altered gut microbiota in autism spectrum disorders. Microbiome. 2017 Feb 22;5(1):24. doi: 10.1186/s40168-017-0242-1. PubMed PMID: 28222761; PubMed Central PMCID: PMC5320696.

21: Finegold SM, Summanen PH, Downes J, Corbett K, Komoriya T.

Detection of Clostridium perfringens toxin genes in the gut microbiota of autistic children. Anaerobe. 2017 Feb 17. pii: S1075-9964(17)30029-X. doi: 10.1016/j.anaerobe.2017.02.008. [Epub ahead of print] PubMed PMID: 28215985.

22: Russo R, Cristiano C, Avagliano C, De Caro C, La Rana G, Raso GM, Canani RB, Meli R, Calignano A. Gut-brain axis: Role of lipids in the regulation of inflammation, pain and CNS diseases. *Curr Med Chem*. 2017 Feb 16. doi: 10.2174/0929867324666170216113756. [Epub ahead of print] PubMed PMID: 28215162.

23: Margolis KG. A role for the serotonin reuptake transporter in the brain and intestinal features of autism spectrum disorders and developmental antidepressant exposure. *J Chem Neuroanat*. 2017 Feb 14. pii: S0891-0618(16)30203-4. doi: 10.1016/j.jchemneu.2017.02.001. [Epub ahead of print] Review. PubMed PMID: 28213183.

24: Lake JK, Denton D, Lunsy Y, Shui AM, Veenstra-VanderWeele J, Anagnostou E. Medical Conditions and Demographic, Service and Clinical Factors Associated with Atypical Antipsychotic Medication Use Among Children with An Autism Spectrum Disorder. *J Autism Dev Disord*. 2017 May;47(5):1391-1402. doi: 10.1007/s10803-017-3058-8. PubMed PMID: 28210827.

25: Kline AD, Krantz ID, Deardorff MA, Shirahige K, Dorsett D, Gerton JL, Wu M, Mehta D, Mills JA, Carrico CS, Noon S, Herrera PS, Horsfield JA, Bettale C, Morgan J, Huisman SA, Moss J, McCleery J, Grados M, Hansen BD, Srivastava S, Taylor-Snell E, Kerr LM, Katz O, Calof AL, Musio A, Egense A, Haaland RE. Cornelia de Lange syndrome and molecular implications of the cohesin complex: Abstracts from the 7th biennial scientific and educational symposium 2016. *Am J Med Genet A*. 2017 May;173(5):1172-1185. doi: 10.1002/ajmg.a.38161. Epub 2017 Feb 12. PubMed PMID: 28190301.

26: Ly V, Bottelier M, Hoekstra PJ, Arias Vasquez A, Buitelaar JK, Rommelse NN. Elimination diets' efficacy and mechanisms in attention deficit

hyperactivity
disorder and autism spectrum disorder. *Eur Child Adolesc Psychiatry*.
2017 Feb 11.
doi: 10.1007/s00787-017-0959-1. [Epub ahead of print] Review. PubMed
PMID:
28190137.

27: Borghi E, Borgo F, Severgnini M, Savini MN, Casiraghi MC, Vignoli
A. Rett
Syndrome: A Focus on Gut Microbiota. *Int J Mol Sci*. 2017 Feb 7;18(2).
pii: E344.
doi: 10.3390/ijms18020344. PubMed PMID: 28178201; PubMed Central
PMCID:
PMC5343879.

28: Decoteau CL. The "Western disease": Autism and Somali parents'
embodied
health movements. *Soc Sci Med*. 2017 Mar;177:169-176. doi:
10.1016/j.socscimed.2017.01.064. Epub 2017 Feb 1. PubMed PMID:
28171816.

29: Dinan TG, Cryan JF. The Microbiome-Gut-Brain Axis in Health and
Disease.
Gastroenterol Clin North Am. 2017 Mar;46(1):77-89. doi:
10.1016/j.gtc.2016.09.007. Epub 2017 Jan 4. Review. PubMed PMID:
28164854.

30: Quigley EM. Basic Definitions and Concepts: Organization of the
Gut
Microbiome. *Gastroenterol Clin North Am*. 2017 Mar;46(1):1-8. doi:
10.1016/j.gtc.2016.09.002. Epub 2017 Jan 3. Review. PubMed PMID:
28164844.

31: Grados MA, Alvi MH, Srivastava S. Behavioral and psychiatric
manifestations
in Cornelia de Lange syndrome. *Curr Opin Psychiatry*. 2017 Mar;30(2):
92-96. doi:
10.1097/YCO.0000000000000311. PubMed PMID: 28125439.

32: Kang DW, Adams JB, Gregory AC, Borody T, Chittick L, Fasano A,
Khoruts A,
Geis E, Maldonado J, McDonough-Means S, Pollard EL, Roux S, Sadowsky
MJ, Lipson
KS, Sullivan MB, Caporaso JG, Krajmalnik-Brown R. Microbiota Transfer

Therapy

alters gut ecosystem and improves gastrointestinal and autism symptoms: an open-label study. *Microbiome*. 2017 Jan 23;5(1):10. doi: 10.1186/s40168-016-0225-7. PubMed PMID: 28122648; PubMed Central PMCID: PMC5264285.

33: Akhtar MA, Raju R, Beattie KD, Bodkin F, Münch G. Medicinal Plants of the Australian Aboriginal Dharawal People Exhibiting Anti-Inflammatory Activity. *Evid Based Complement Alternat Med*. 2016;2016:2935403. doi: 10.1155/2016/2935403. Epub 2016 Dec 27. PubMed PMID: 28115968; PubMed Central PMCID: PMC5223016.

34: Fung TC, Olson CA, Hsiao EY. Interactions between the microbiota, immune and nervous systems in health and disease. *Nat Neurosci*. 2017 Feb;20(2):145-155. doi: 10.1038/nn.4476. Epub 2017 Jan 16. Review. PubMed PMID: 28092661.

35: Bent S, Dang K, Widjaja F, Lawton B, Nazneen N, Hendren RL. Examining Clinics for Children with Autism: The Autism Translating To Treatment Study. *J Altern Complement Med*. 2017 May;23(5):340-347. doi: 10.1089/acm.2016.0301. Epub 2017 Jan 13. PubMed PMID: 28084799.

36: Kheirouri S, Kalejahi P, Noorazar SG. Plasma levels of serotonin, gastrointestinal symptoms, and sleep problems in children with autism. *Turk J Med Sci*. 2016 Dec 20;46(6):1765-1772. doi: 10.3906/sag-1507-68. PubMed PMID: 28081325.

37: Singh R, Turner RC, Nguyen L, Motwani K, Swatek M, Lucke-Wold BP. Pediatric Traumatic Brain Injury and Autism: Elucidating Shared Mechanisms. *Behav Neurol*. 2016;2016:8781725. doi: 10.1155/2016/8781725. Epub 2016 Dec 15. Review. PubMed PMID: 28074078; PubMed Central PMCID: PMC5198096.

38: Narasingharao K, Pradhan B, Navaneetham J. Sleep Disorder, Gastrointestinal Problems and Behaviour Problems Seen in Autism Spectrum Disorder Children and Yoga as Therapy: A Descriptive Review. *J Clin Diagn Res.* 2016 Nov;10(11):VE01-VE03. doi: 10.7860/JCDR/2016/24175.8922. Epub 2016 Nov 1. Review. PubMed PMID: 28050484; PubMed Central PMCID: PMC5198437.

39: Fluegge K. Propionic acid metabolism, ASD, and vitamin B12: Is there a role for environmental nitrous oxide? *Int J Dev Neurosci.* 2017 Apr; 57:21-23. doi: 10.1016/j.ijdevneu.2016.12.007. Epub 2016 Dec 30. PubMed PMID: 28043894.

40: Navarro F, Liu Y, Rhoads JM. Can probiotics benefit children with autism spectrum disorders? *World J Gastroenterol.* 2016 Dec 14;22(46): 10093-10102. doi: 10.3748/wjg.v22.i46.10093. Review. PubMed PMID: 28028357; PubMed Central PMCID: PMC5155168.

41: Nath D. Complementary and Alternative Medicine in the School-Age Child With Autism. *J Pediatr Health Care.* 2017 May - Jun;31(3):393-397. doi: 10.1016/j.pedhc.2016.12.001. Epub 2016 Dec 22. PubMed PMID: 28017488.

42: Dolan KE, Finley HJ, Burns CM, Gasta MG, Gossard CM, Parker EC, Pizano JM, Williamson CB, Lipski EA. Probiotics and Disease: A Comprehensive Summary-Part 1, Mental and Neurological Health. *Integr Med (Encinitas).* 2016 Oct; 15(5):46-58. Review. PubMed PMID: 27980495; PubMed Central PMCID: PMC5145013.

43: Greydanus DE, Gregoire-Bottex MM, Merrick J. Gastrointestinal dysfunction and autism: caution with misdiagnoses as many mysteries remain to be unraveled! *Int J Adolesc Med Health.* 2016 Dec 15. pii: /j/ijamh.ahead-of-print/ijamh-2016-0127/ijamh-2016-0127.xml. doi: 10.1515/ijamh-2016-0127. [Epub ahead of print] PubMed PMID: 27977400.

44: Fiorentino M, Sapone A, Senger S, Camhi SS, Kadzielski SM, Buie TM, Kelly DL, Cascella N, Fasano A. Blood-brain barrier and intestinal epithelial barrier alterations in autism spectrum disorders. *Mol Autism*. 2016 Nov 29;7:49. eCollection 2016. PubMed PMID: 27957319; PubMed Central PMCID: PMC5129651.

45: Li K, Jiang XD, Li F. [Gastrointestinal difficulties in children with autism spectrum disorder]. *Zhonghua Er Ke Za Zhi*. 2016 Dec 2;54(12):957-960. doi: 10.3760/cma.j.issn.0578-1310.2016.12.019. Chinese. PubMed PMID: 27938602.

46: Dipnall JF, Pasco JA, Berk M, Williams LJ, Dodd S, Jacka FN, Meyer D. Into the Bowels of Depression: Unravelling Medical Symptoms Associated with Depression by Applying Machine-Learning Techniques to a Community Based Population Sample. *PLoS One*. 2016 Dec 9;11(12):e0167055. doi: 10.1371/journal.pone.0167055. eCollection 2016. PubMed PMID: 27935995; PubMed Central PMCID: PMC5147841.

47: Koestel ZL, Backus RC, Tsuruta K, Spollen WG, Johnson SA, Javurek AB, Eilersieck MR, Wiedmeyer CE, Kannan K, Xue J, Bivens NJ, Givan SA, Rosenfeld CS. Bisphenol A (BPA) in the serum of pet dogs following short-term consumption of canned dog food and potential health consequences of exposure to BPA. *Sci Total Environ*. 2017 Feb 1;579:1804-1814. doi: 10.1016/j.scitotenv.2016.11.162. Epub 2016 Dec 6. PubMed PMID: 27932218.

48: Gevi F, Zolla L, Gabriele S, Persico AM. Urinary metabolomics of young Italian autistic children supports abnormal tryptophan and purine metabolism. *Mol Autism*. 2016 Nov 24;7:47. eCollection 2016. PubMed PMID: 27904735;

PubMed Central
PMCID: PMC5121959.

49: McCue LM, Flick LH, Twyman KA, Xian H, Conturo TE. Prevalence of non-febrile seizures in children with idiopathic autism spectrum disorder and their unaffected siblings: a retrospective cohort study. *BMC Neurol.* 2016 Nov 28;16(1):245. PubMed PMID: 27894273; PubMed Central PMCID: PMC5126876.

50: Ding HT, Taur Y, Walkup JT. Gut Microbiota and Autism: Key Concepts and Findings. *J Autism Dev Disord.* 2017 Feb;47(2):480–489. doi: 10.1007/s10803-016-2960-9. PubMed PMID: 27882443.

51: Wilson J, Wright B, Jost S, Smith R, Pearce H, Richardson S. Can urinary indolylacrylglycine levels be used to determine whether children with autism will benefit from dietary intervention? *Pediatr Res.* 2017 Apr;81(4):672–679. doi: 10.1038/pr.2016.256. Epub 2016 Nov 23. PubMed PMID: 27879968.

52: Vohra R, Madhavan S, Sambamoorthi U, StPeter C, Poe S, Dwibedi N, Ajmera M. Prescription Drug Use and Polypharmacy Among Medicaid-Enrolled Adults with Autism: A Retrospective Cross-Sectional Analysis. *Drugs Real World Outcomes.* 2016 Dec;3(4):409–425. PubMed PMID: 27873285; PubMed Central PMCID: PMC5127876.

53: Severance EG, Gressitt KL, Stallings CR, Katsafanas E, Schweinfurth LA, Savage CL, Adamos MB, Sweeney KM, Origoni AE, Khushalani S, Dickerson FB, Yolken RH. Probiotic normalization of *Candida albicans* in schizophrenia: A randomized, placebo-controlled, longitudinal pilot study. *Brain Behav Immun.* 2017 May;62:41–45. doi: 10.1016/j.bbi.2016.11.019. Epub 2016 Nov 18. PubMed PMID: 27871802; PubMed Central PMCID: PMC5373951.

54: Berding K, Donovan SM. Microbiome and nutrition in autism spectrum disorder: current knowledge and research needs. *Nutr Rev.* 2016 Dec;74(12):723–736. PubMed PMID: 27864534.

55: Grimaldi R, Cela D, Swann JR, Vulevic J, Gibson GR, Tzortzis G, Costabile A. In vitro fermentation of B-GOS: impact on faecal bacterial populations and metabolic activity in autistic and non-autistic children. *FEMS Microbiol Ecol.* 2017 Feb;93(2). pii: fiw233. Epub 2016 Nov 16. PubMed PMID: 27856622; PubMed Central PMCID: PMC5155555.

56: Calderoni S, Santocchi E, Del Bianco T, Brunori E, Caponi L, Paolicchi A, Fulceri F, Prospero M, Narzisi A, Cosenza A, Tancredi R, Muratori F. Serological screening for Celiac Disease in 382 pre-schoolers with Autism Spectrum Disorder. *Ital J Pediatr.* 2016 Nov 16;42(1):98. PubMed PMID: 27852289; PubMed Central PMCID: PMC5112719.

57: Arentsen T, Qian Y, Gkotsis S, Femenia T, Wang T, Udekwu K, Forssberg H, Diaz Heijtz R. The bacterial peptidoglycan-sensing molecule Pglyrp2 modulates brain development and behavior. *Mol Psychiatry.* 2017 Feb;22(2):257–266. doi: 10.1038/mp.2016.182. Epub 2016 Nov 15. PubMed PMID: 27843150; PubMed Central PMCID: PMC5285465.

58: Eagleson KL, Xie Z, Levitt P. The Pleiotropic MET Receptor Network: Circuit Development and the Neural-Medical Interface of Autism. *Biol Psychiatry.* 2017 Mar 1;81(5):424–433. doi: 10.1016/j.biopsych.2016.08.035. Epub 2016 Sep 15. Review. PubMed PMID: 27837921; PubMed Central PMCID: PMC5285483.

59: Hiippala K, Kainulainen V, Kalliomäki M, Arkkila P, Satokari R. Mucosal

Prevalence and Interactions with the Epithelium Indicate Commensalism of
Sutterella spp. *Front Microbiol.* 2016 Oct 26;7:1706. eCollection 2016.
PubMed
PMID: 27833600; PubMed Central PMCID: PMC5080374.

60: Sylvia KE, Jewell CP, Rendon NM, St John EA, Demas GE. Sex-specific
modulation of the gut microbiome and behavior in Siberian hamsters.
Brain Behav Immun. 2017 Feb;60:51–62. doi: 10.1016/j.bbi.2016.10.023. Epub 2016
Nov 2. PubMed
PMID: 27816476.

61: Sharon G, Sampson TR, Geschwind DH, Mazmanian SK. The Central
Nervous System
and the Gut Microbiome. *Cell.* 2016 Nov 3;167(4):915–932. doi:
10.1016/j.cell.2016.10.027. Review. PubMed PMID: 27814521; PubMed
Central PMCID:
PMC5127403.

62: Anwar A, Marini M, Abruzzo PM, Bolotta A, Ghezzi A, Visconti P,
Thornalley
PJ, Rabbani N. Quantitation of plasma thiamine, related metabolites
and plasma
protein oxidative damage markers in children with autism spectrum
disorder and
healthy controls. *Free Radic Res.* 2016 Nov;50(sup1):S85–S90. Epub 2016
Nov 2.
PubMed PMID: 27667096.

63: Ghalichi F, Ghaemmaghami J, Malek A, Ostadrahimi A. Effect of
gluten free
diet on gastrointestinal and behavioral indices for children with
autism spectrum
disorders: a randomized clinical trial. *World J Pediatr.* 2016 Nov;
12(4):436–442.
Epub 2016 Jun 10. PubMed PMID: 27286693.

64: Javurek AB, Spollen WG, Johnson SA, Bivens NJ, Bromert KH, Givan
SA,
Rosenfeld CS. Effects of exposure to bisphenol A and ethinyl estradiol
on the gut
microbiota of parents and their offspring in a rodent model. *Gut
Microbes.* 2016

Nov;7(6):471–485. Epub 2016 Sep 13. PubMed PMID: 27624382; PubMed Central PMCID: PMC5103659.

65: Fluegge K. Does environmental exposure to the greenhouse gas, N₂O, contribute to etiological factors in neurodevelopmental disorders? A mini-review of the evidence. *Environ Toxicol Pharmacol*. 2016 Oct;47:6–18. doi: 10.1016/j.etap.2016.08.013. Epub 2016 Aug 18. Review. PubMed PMID: 27566494.

66: Kraneveld AD, Szklany K, de Theije CG, Garssen J. Gut-to-Brain Axis in Autism Spectrum Disorders: Central Role for the Microbiome. *Int Rev Neurobiol*. 2016;131:263–287. doi: 10.1016/bs.irn.2016.09.001. Epub 2016 Sep 30. PubMed PMID: 27793223.

67: Gareau MG. Cognitive Function and the Microbiome. *Int Rev Neurobiol*. 2016;131:227–246. doi: 10.1016/bs.irn.2016.08.001. Epub 2016 Sep 9. PubMed PMID: 27793221.

68: Li W, Huang L, Zeng J, Lin W, Li K, Sun J, Huang W, Chen J, Wang G, Ke Q, Duan J, Lai X, Chen R, Liu M, Liu Y, Wang T, Yang X, Chen Y, Xia H, Xiang AP. Characterization and transplantation of enteric neural crest cells from human induced pluripotent stem cells. *Mol Psychiatry*. 2016 Oct 25. doi: 10.1038/mp.2016.191. [Epub ahead of print] PubMed PMID: 27777423.

69: Sherwin E, Sandhu KV, Dinan TG, Cryan JF. May the Force Be With You: The Light and Dark Sides of the Microbiota–Gut–Brain Axis in Neuropsychiatry. *CNS Drugs*. 2016 Nov;30(11):1019–1041. PubMed PMID: 27417321; PubMed Central PMCID: PMC5078156.

70: Slattery J, MacFabe DF, Frye RE. The Significance of the Enteric

Microbiome
on the Development of Childhood Disease: A Review of Prebiotic and
Probiotic
Therapies in Disorders of Childhood. Clin Med Insights Pediatr. 2016
Oct
9;10:91-107. eCollection 2016. Review. PubMed PMID: 27774001; PubMed
Central
PMCID: PMC5063840.

71: Vuong HE, Hsiao EY. Emerging Roles for the Gut Microbiome in
Autism Spectrum
Disorder. Biol Psychiatry. 2017 Mar 1;81(5):411-423. doi:
10.1016/j.biopsych.2016.08.024. Epub 2016 Aug 26. Review. PubMed PMID:
27773355;
PubMed Central PMCID: PMC5285286.

72: Walker SJ, Beavers DP, Fortunato J, Kringsman A. A Putative Blood-
Based
Biomarker for Autism Spectrum Disorder-Associated Ileocolitis. Sci
Rep. 2016 Oct
21;6:35820. doi: 10.1038/srep35820. PubMed PMID: 27767057; PubMed
Central PMCID:
PMC5073317.

73: Sevilla WM, McElhanon B. Optimizing Transition to Home Enteral
Nutrition for
Pediatric Patients. Nutr Clin Pract. 2016 Oct 18. pii:
0884533616673348. [Epub
ahead of print] Review. PubMed PMID: 27756847.

74: Umbrello G, Esposito S. Microbiota and neurologic diseases:
potential effects
of probiotics. J Transl Med. 2016 Oct 19;14(1):298. Review. PubMed
PMID:
27756430; PubMed Central PMCID: PMC5069982.

75: Principi N, Esposito S. Gut microbiota and central nervous system
development. J Infect. 2016 Dec;73(6):536-546. doi: 10.1016/j.jinf.
2016.09.010.
Epub 2016 Oct 8. Review. PubMed PMID: 27725185.

76: Hong ST. BR 07-1 DEVELOPMENT OF THE CELL MICROARRAY FOR HIGH-
THROUGHPUT
ANALYSIS OF GUT MICROBIOTA. J Hypertens. 2016 Sep;34 Suppl 1 - ISH

2016 Abstract

Book:e542. PubMed PMID: 27754286.

77: Kiraly DD, Walker DM, Calipari ES, Labonte B, Issler O, Pena CJ, Ribeiro EA, Russo SJ, Nestler EJ. Alterations of the Host Microbiome Affect Behavioral Responses to Cocaine. *Sci Rep.* 2016 Oct 18;6:35455. doi: 10.1038/srep35455. PubMed PMID: 27752130; PubMed Central PMCID: PMC5067576.

78: Tan ML, Ho JJ, Teh KH. Polyunsaturated fatty acids (PUFAs) for children with specific learning disorders. *Cochrane Database Syst Rev.* 2016 Sep 28;9:CD009398. [Epub ahead of print] Review. PubMed PMID: 27678554.

79: Mulle JG, Gambello MJ, Cook EH, Rutkowski TP, Glassford M. 3q29 Recurrent Deletion. 2016 Sep 22. In: Pagon RA, Adam MP, Ardinger HH, Wallace SE, Amemiya A, Bean LJH, Bird TD, Ledbetter N, Mefford HC, Smith RJH, Stephens K, editors. *GeneReviews*® [Internet]. Seattle (WA): University of Washington, Seattle; 1993–2017. Available from <http://www.ncbi.nlm.nih.gov/books/NBK385289/> PubMed PMID: 27656750.

80: Iovene MR, Bombace F, Maresca R, Sapone A, Iardino P, Picardi A, Marotta R, Schiraldi C, Siniscalco D, Serra N, de Magistris L, Bravaccio C. Intestinal Dysbiosis and Yeast Isolation in Stool of Subjects with Autism Spectrum Disorders. *Mycopathologia.* 2017 Apr;182(3–4):349–363. doi: 10.1007/s11046-016-0068-6. Epub 2016 Sep 21. PubMed PMID: 27655151.

81: Casella G, Pozzi R, Cigognetti M, Bachetti F, Torti G, Cadei M, Villanacci V, Baldini V, Bassotti G. Mood disorders and non-celiac gluten sensitivity. *Minerva Gastroenterol Dietol.* 2017 Mar;63(1):32–37. doi: 10.23736/S1121-421X.16.02325-4. Epub 2016 Sep 20. PubMed PMID: 27647538.

82: Dinan TG, Cryan JF. Gut instincts: microbiota as a key regulator of brain development, ageing and neurodegeneration. *J Physiol*. 2017 Jan 15;595(2):489–503. doi: 10.1113/JP273106. Epub 2016 Dec 4. PubMed PMID: 27641441; PubMed Central PMCID: PMC5233671.

83: Wu J, de Theije CG, da Silva SL, Abbring S, van der Horst H, Broersen LM, Willemsen L, Kas M, Garssen J, Kraneveld AD. Dietary interventions that reduce mTOR activity rescue autistic-like behavioral deficits in mice. *Brain Behav Immun*. 2017 Jan;59:273–287. doi: 10.1016/j.bbi.2016.09.016. Epub 2016 Sep 15. PubMed PMID: 27640900.

84: Bramati-Castellarin I, Patel VB, Drysdale IP. Repeat-measures longitudinal study evaluating behavioural and gastrointestinal symptoms in children with autism before, during and after visceral osteopathic technique (VOT). *J Bodyw Mov Ther*. 2016 Jul;20(3):461–70. doi: 10.1016/j.jbmt.2016.01.001. Epub 2016 Jan 14. PubMed PMID: 27634066.

85: Grossi E, Melli S, Dunca D, Terruzzi V. Unexpected improvement in core autism spectrum disorder symptoms after long-term treatment with probiotics. *SAGE Open Med Case Rep*. 2016 Aug 26;4:2050313X16666231. doi: 10.1177/2050313X16666231. eCollection 2016. PubMed PMID: 27621806; PubMed Central PMCID: PMC5006292.

86: Davis DJ, Hecht PM, Jasarevic E, Beversdorf DQ, Will MJ, Fritsche K, Gillespie CH. Sex-specific effects of docosahexaenoic acid (DHA) on the microbiome and behavior of socially-isolated mice. *Brain Behav Immun*. 2017 Jan;59:38–48. doi: 10.1016/j.bbi.2016.09.003. Epub 2016 Sep 9. PubMed PMID:

27621225.

87: Newell C, Bomhof MR, Reimer RA, Hittel DS, Rho JM, Shearer J. Ketogenic diet modifies the gut microbiota in a murine model of autism spectrum disorder. *Mol Autism*. 2016 Sep 1;7(1):37. doi: 10.1186/s13229-016-0099-3. eCollection 2016. PubMed PMID: 27594980; PubMed Central PMCID: PMC5009541.

88: Inoue R, Sakaue Y, Sawai C, Sawai T, Ozeki M, Romero-Pérez GA, Tsukahara T. A preliminary investigation on the relationship between gut microbiota and gene expressions in peripheral mononuclear cells of infants with autism spectrum disorders. *Biosci Biotechnol Biochem*. 2016 Dec;80(12):2450-2458. Epub 2016 Sep 1. PubMed PMID: 27581276.

89: Dalton NR, Chandler S, Turner C, Charman T, Pickles A, Simonoff E, Baird G. Measurement of urine indolylacroylglycine is not useful in the diagnosis or dietary management of autism. *Autism Res*. 2017 Mar;10(3):408-413. doi: 10.1002/aur.1688. Epub 2016 Aug 29. PubMed PMID: 27569540.

90: Anagnostou E, Aman MG, Handen BL, Sanders KB, Shui A, Hollway JA, Brian J, Arnold LE, Capano L, Hellings JA, Butter E, Mankad D, Tumuluru R, Kettel J, Newsom CR, Hadjiyannakis S, Peleg N, Odrobina D, McAuliffe-Bellin S, Zakrotsky P, Marler S, Wagner A, Wong T, Macklin EA, Veenstra-VanderWeele J. Metformin for Treatment of Overweight Induced by Atypical Antipsychotic Medication in Young People With Autism Spectrum Disorder: A Randomized Clinical Trial. *JAMA Psychiatry*. 2016 Sep 1;73(9):928-37. doi: 10.1001/jamapsychiatry.2016.1232. PubMed PMID: 27556593.

91: Lightdale JR. The Gut Speaks: Reframing the Role of Pediatric Gastroenterologists Caring for Children With Autism and

Gastrointestinal

Symptoms. *J Pediatr Gastroenterol Nutr.* 2016 Sep;63(3):313–4. doi: 10.1097/MPG.0000000000001319. PubMed PMID: 27548246.

92: Bain JM, Cho MT, Telegrafi A, Wilson A, Brooks S, Botti C, Gowans G, Autullo LA, Krishnamurthy V, Willing MC, Toler TL, Ben-Zev B, Elpeleg O, Shen Y, Retterer K, Monaghan KG, Chung WK. Variants in HNRNPH2 on the X Chromosome Are Associated with a Neurodevelopmental Disorder in Females. *Am J Hum Genet.* 2016 Sep 1;99(3):728–34. doi: 10.1016/j.ajhg.2016.06.028. Epub 2016 Aug 18. PubMed PMID: 27545675; PubMed Central PMCID: PMC5011042.

93: Estes ML, McAllister AK. Maternal immune activation: Implications for neuropsychiatric disorders. *Science.* 2016 Aug 19;353(6301):772–7. doi: 10.1126/science.aag3194. Review. PubMed PMID: 27540164.

94: Evrensel A, Ceylan ME. Fecal Microbiota Transplantation and Its Usage in Neuropsychiatric Disorders. *Clin Psychopharmacol Neurosci.* 2016 Aug 31;14(3):231–7. doi: 10.9758/cpn.2016.14.3.231. Review. PubMed PMID: 27489376; PubMed Central PMCID: PMC4977816.

95: Szachta P, Skonieczna-Żydecka K, Adler G, Karakua-Juchnowicz H, Madlani H, Ignys I. Immune related factors in pathogenesis of autism spectrum disorders. *Eur Rev Med Pharmacol Sci.* 2016 Jul;20(14):3060–72. PubMed PMID: 27460736.

96: Rivière A, Selak M, Lantin D, Leroy F, De Vuyst L. Bifidobacteria and Butyrate-Producing Colon Bacteria: Importance and Strategies for Their Stimulation in the Human Gut. *Front Microbiol.* 2016 Jun 28;7:979. doi: 10.3389/fmicb.2016.00979. eCollection 2016. Review. PubMed PMID: 27446020; PubMed Central PMCID: PMC4923077.

97: Chiu M, Dillon A, Watson S. Vitamin A deficiency and xerophthalmia in

children of a developed country. *J Paediatr Child Health*. 2016 Jul; 52(7):699–703.
doi: 10.1111/jpc.13243. PubMed PMID: 27439630.

98: Rao M, Gershon MD. The bowel and beyond: the enteric nervous system in neurological disorders. *Nat Rev Gastroenterol Hepatol*. 2016 Sep;13(9): 517–28.
doi: 10.1038/nrgastro.2016.107. Epub 2016 Jul 20. Review. PubMed PMID: 27435372;
PubMed Central PMCID: PMC5005185.

99: Luna RA, Savidge TC, Williams KC. The Brain–Gut–Microbiome Axis: What Role Does It Play in Autism Spectrum Disorder? *Curr Dev Disord Rep*. 2016 Mar;3(1):75–81. Epub 2016 Feb 26. PubMed PMID: 27398286; PubMed Central PMCID: PMC4933016.

100: Skosnik PD, Cortes–Briones JA. Targeting the ecology within: The role of the gut–brain axis and human microbiota in drug addiction. *Med Hypotheses*. 2016 Aug;93:77–80. doi: 10.1016/j.mehy.2016.05.021. Epub 2016 May 19. PubMed PMID: 27372861.

101: Morris G, Berk M, Carvalho A, Caso JR, Sanz Y, Walder K, Maes M. The Role of the Microbial Metabolites Including Tryptophan Catabolites and Short Chain Fatty Acids in the Pathophysiology of Immune–Inflammatory and Neuroimmune Disease. *Mol Neurobiol*. 2016 Jun 27. [Epub ahead of print] Review. PubMed PMID: 27349436.

102: Mazahery H, Conlon C, Beck KL, Kruger MC, Stonehouse W, Camargo CA Jr, Meyer BJ, Tsang B, Mugridge O, von Hurst PR. Vitamin D and omega–3 fatty acid supplements in children with autism spectrum disorder: a study protocol for a factorial randomised, double–blind, placebo–controlled trial. *Trials*. 2016 Jun 23;17(1):295. doi: 10.1186/s13063–016–1428–8. PubMed PMID: 27334138;

PubMed
Central PMCID: PMC4917935.

103: Becker MM, Riesgo RS, Roesler R, Bosa C, Ohlweiler L, Backes B, Endres RG, Zanon RB, Marchezan J, Schwartzmann G. Improvement in Symptoms of Autism Spectrum Disorder in Children With the Use of Gastrin-Releasing Peptide: An Open Trial. Clin Neuropharmacol. 2016 Sep-Oct;39(5):215-9. doi: 10.1097/WNF.000000000000165. PubMed PMID: 27332629.

104: Frye RE, Rossignol DA. Identification and Treatment of Pathophysiological Comorbidities of Autism Spectrum Disorder to Achieve Optimal Outcomes. Clin Med Insights Pediatr. 2016 Jun 15;10:43-56. doi: 10.4137/CMPed.S38337. eCollection 2016. Review. PubMed PMID: 27330338; PubMed Central PMCID: PMC4910649.

105: Ferguson BJ, Marler S, Altstein LL, Lee EB, Akers J, Sohl K, McLaughlin A, Hartnett K, Kille B, Mazurek M, Macklin EA, McDonnell E, Barstow M, Bauman ML, Margolis KG, Veenstra-VanderWeele J, Beversdorf DQ. Psychophysiological Associations with Gastrointestinal Symptomatology in Autism Spectrum Disorder. Autism Res. 2017 Feb;10(2):276-288. doi: 10.1002/aur.1646. Epub 2016 Jun 20. PubMed PMID: 27321113.

106: Buffington SA, Di Prisco GV, Auchtung TA, Ajami NJ, Petrosino JF, Costa-Mattioli M. Microbial Reconstitution Reverses Maternal Diet-Induced Social and Synaptic Deficits in Offspring. Cell. 2016 Jun 16;165(7):1762-75. doi: 10.1016/j.cell.2016.06.001. PubMed PMID: 27315483; PubMed Central PMCID: PMC5102250.

107: Mussap M, Noto A, Fanos V. Metabolomics of autism spectrum disorders: early insights regarding mammalian-microbial cometabolites. Expert Rev Mol

Diagn. 2016
Aug;16(8):869–81. doi: 10.1080/14737159.2016.1202765. Epub 2016 Jun
30. PubMed
PMID: 27310602.

108: Lázaro CP, Pondé MP, Rodrigues LE. Opioid peptides and
gastrointestinal
symptoms in autism spectrum disorders. Rev Bras Psiquiatr. 2016
Jul–Sep;38(3):243–6. doi: 10.1590/1516-4446-2015-1777. Epub 2016 Jun
14. Review.
PubMed PMID: 27304256.

109: Watanabe K. [Autism and Autism-associated Metabolites]. Brain
Nerve. 2016
Jun;68(6):623–31. doi: 10.11477/mf.1416200452. Japanese. PubMed PMID:
27279160.

110: Moos WH, Faller DV, Harpp DN, Kanara I, Pernokas J, Powers WR,
Steliou K.
Microbiota and Neurological Disorders: A Gut Feeling. Biores Open
Access. 2016
May 1;5(1):137–45. doi: 10.1089/biores.2016.0010. eCollection 2016.
Review.
PubMed PMID: 27274912; PubMed Central PMCID: PMC4892191.

111: Santocchi E, Guiducci L, Fulceri F, Billeci L, Buzzigoli E,
Apicella F,
Calderoni S, Grossi E, Morales MA, Muratori F. Gut to brain
interaction in Autism
Spectrum Disorders: a randomized controlled trial on the role of
probiotics on
clinical, biochemical and neurophysiological parameters. BMC
Psychiatry. 2016 Jun
4;16:183. doi: 10.1186/s12888-016-0887-5. PubMed PMID: 27260271;
PubMed Central
PMCID: PMC4893248.

112: Diaz Heijtz R. Fetal, neonatal, and infant microbiome:
Perturbations and
subsequent effects on brain development and behavior. Semin Fetal
Neonatal Med.
2016 Dec;21(6):410–417. doi: 10.1016/j.siny.2016.04.012. Epub 2016 May
30.
Review. PubMed PMID: 27255860.

113: Liu J, Morey RA, Wilson JK, Parker W. Practices and outcomes of self-treatment with helminths based on physicians' observations. *J Helminthol*. 2017 May;91(3):267-277. doi: 10.1017/S0022149X16000316. Epub 2016 May 31. PubMed PMID: 27240605.

114: Konturek PC, Zopf Y. [Gut microbiome and psyche: paradigm shift in the concept of brain-gut axis]. *MMW Fortschr Med*. 2016 May 25;158 Suppl 4:12-6. doi: 10.1007/s15006-016-8304-z. Epub 2016 May 25. Review. German. PubMed PMID: 27221556.

115: Liu X, Liu J, Xiong X, Yang T, Hou N, Liang X, Chen J, Cheng Q, Li T. Correlation between Nutrition and Symptoms: Nutritional Survey of Children with Autism Spectrum Disorder in Chongqing, China. *Nutrients*. 2016 May 14;8(5). pii: E294. doi: 10.3390/nu8050294. PubMed PMID: 27187463; PubMed Central PMCID: PMC4882707.

116: Ferguson BJ, Marler S, Altstein LL, Lee EB, Mazurek MO, McLaughlin A, Macklin EA, McDonnell E, Davis DJ, Belenchia AM, Gillespie CH, Peterson CA, Bauman ML, Margolis KG, Veenstra-VanderWeele J, Beversdorf DQ. Associations between cytokines, endocrine stress response, and gastrointestinal symptoms in autism spectrum disorder. *Brain Behav Immun*. 2016 Nov;58:57-62. doi: 10.1016/j.bbi.2016.05.009. Epub 2016 May 12. PubMed PMID: 27181180.

117: Yi Z, Pan H, Li L, Wu H, Wang S, Ma Y, Qi Y. Chromosome Xq28 duplication encompassing MECP2: Clinical and molecular analysis of 16 new patients from 10 families in China. *Eur J Med Genet*. 2016 Jun;59(6-7):347-53. doi: 10.1016/j.ejmg.2016.05.004. Epub 2016 May 11. PubMed PMID: 27180140.

118: Veiga-Fernandes H, Mucida D. Neuro-Immune Interactions at Barrier

Surfaces.

Cell. 2016 May 5;165(4):801-11. doi: 10.1016/j.cell.2016.04.041.

Review. PubMed

PMID: 27153494; PubMed Central PMCID: PMC4871617.

119: Xiong X, Liu D, Wang Y, Zeng T, Peng Y. Urinary 3-(3-Hydroxyphenyl)-3-hydroxypropionic Acid, 3-Hydroxyphenylacetic Acid, and 3-Hydroxyhippuric Acid Are Elevated in Children with Autism Spectrum Disorders.

Biomed Res Int. 2016;2016:9485412. doi: 10.1155/2016/9485412. Epub 2016 Mar 30.

PubMed PMID: 27123458; PubMed Central PMCID: PMC4829699.

120: Margolis KG, Li Z, Stevanovic K, Saurman V, Israelyan N, Anderson GM, Snyder

I, Veenstra-VanderWeele J, Blakely RD, Gershon MD. Serotonin transporter variant

drives preventable gastrointestinal abnormalities in development and function. J

Clin Invest. 2016 Jun 1;126(6):2221-35. doi: 10.1172/JCI84877. Epub 2016 Apr 25.

PubMed PMID: 27111230; PubMed Central PMCID: PMC4887174.

121: Al-Salem HS, Bhat RS, Al-Ayadhi L, El-Ansary A. Therapeutic potency of bee

pollen against biochemical autistic features induced through acute and sub-acute

neurotoxicity of orally administered propionic acid. BMC Complement Altern Med.

2016 Apr 23;16:120. doi: 10.1186/s12906-016-1099-8. PubMed PMID: 27107819; PubMed

Central PMCID: PMC4842259.

122: Bressan P, Kramer P. Bread and Other Edible Agents of Mental Disease. Front

Hum Neurosci. 2016 Mar 29;10:130. doi: 10.3389/fnhum.2016.00130. eCollection

2016. Review. PubMed PMID: 27065833; PubMed Central PMCID: PMC4809873.

123: Mintz M. Evolution in the Understanding of Autism Spectrum Disorder:

Historical Perspective. Indian J Pediatr. 2017 Jan;84(1):44-52. doi: 10.1007/s12098-016-2080-8. Epub 2016 Apr 7. Review. PubMed PMID: 27053182.

124: Barnhill K, Tami A, Schutte C, Hewitson L, Olive ML. Targeted Nutritional and Behavioral Feeding Intervention for a Child with Autism Spectrum Disorder. Case Rep Psychiatry. 2016;2016:1420549. doi: 10.1155/2016/1420549. Epub 2016 Mar 9. PubMed PMID: 27051550; PubMed Central PMCID: PMC4804042.

125: Hoban AE, Stilling RM, Ryan FJ, Shanahan F, Dinan TG, Claesson MJ, Clarke G, Cryan JF. Regulation of prefrontal cortex myelination by the microbiota. Transl Psychiatry. 2016 Apr 5;6:e774. doi: 10.1038/tp.2016.42. PubMed PMID: 27045844; PubMed Central PMCID: PMC4872400.

126: Nicolás C, Benítez PR, Riaño M0, Canencia LM, Mercurio C, Fernández MS, Luna MS, Jorge AT. Preeclampsia: Long-term effects on pediatric disability. J Neonatal Perinatal Med. 2016;9(1):41-8. doi: 10.3233/NPM-16915065. PubMed PMID: 27002269.

127: Javurek AB, Spollen WG, Ali AM, Johnson SA, Lubahn DB, Bivens NJ, Bromert KH, Eilersieck MR, Givan SA, Rosenfeld CS. Discovery of a Novel Seminal Fluid Microbiome and Influence of Estrogen Receptor Alpha Genetic Status. Sci Rep. 2016 Mar 14;6:23027. doi: 10.1038/srep23027. Erratum in: Sci Rep. 2016 Apr 29;6:25216. PubMed PMID: 26971397; PubMed Central PMCID: PMC4789797.

128: Li Q, Zhou JM. The microbiota-gut-brain axis and its potential therapeutic role in autism spectrum disorder. Neuroscience. 2016 Jun 2;324:131-9. doi: 10.1016/j.neuroscience.2016.03.013. Epub 2016 Mar 8. Review. PubMed PMID: 26964681.

129: Choi HH, Cho YS. Fecal Microbiota Transplantation: Current Applications,

Effectiveness, and Future Perspectives. Clin Endosc. 2016 May;49(3):257-65. doi: 10.5946/ce.2015.117. Epub 2016 Mar 9. Review. PubMed PMID: 26956193; PubMed Central PMCID: PMC4895930.

130: Kushak RI, Buie TM, Murray KF, Newburg DS, Chen C, Nestoridi E, Winter HS. Evaluation of Intestinal Function in Children With Autism and Gastrointestinal Symptoms. J Pediatr Gastroenterol Nutr. 2016 May;62(5):687-91. doi: 10.1097/MPG.0000000000001174. PubMed PMID: 26913756.

131: Greenlee JL, Mosley AS, Shui AM, Veenstra-VanderWeele J, Gotham KO. Medical and Behavioral Correlates of Depression History in Children and Adolescents With Autism Spectrum Disorder. Pediatrics. 2016 Feb;137 Suppl 2:S105-14. doi: 10.1542/peds.2015-2851I. PubMed PMID: 26908466; PubMed Central PMCID: PMC4915738.

132: García Bueno B, Caso JR, Madrigal JL, Leza JC. Innate immune receptor Toll-like receptor 4 signalling in neuropsychiatric diseases. Neurosci Biobehav Rev. 2016 May;64:134-47. doi: 10.1016/j.neubiorev.2016.02.013. Epub 2016 Feb 19. Review. PubMed PMID: 26905767.

133: Swaminathan M, Hill-Yardin E, Ellis M, Zygorodimos M, Johnston LA, Gwynne RM, Bornstein JC. Video Imaging and Spatiotemporal Maps to Analyze Gastrointestinal Motility in Mice. J Vis Exp. 2016 Feb 3;(108):53828. doi: 10.3791/53828. PubMed PMID: 26862815.

134: Ghosh A, Mahajan PB, Tripathy PR, Mishra BR, Mahapatra SC, Nanda P. Exploring Health Situation of Indian Children with Autism Spectrum Disorder Using Autism Treatment Evaluation Checklist (ATEC) in an Urban Area of Odisha: A Case Study. J Clin Diagn Res. 2015 Dec;9(12):VC05-VC08. doi: 10.7860/JCDR/2015/16522.6982. Epub 2015 Dec 1. PubMed PMID: 26816976;

PubMed
Central PMCID: PMC4717744.

135: Pusponegoro HD, Ismael S, Sastroasmoro S, Firmansyah A, Vandenplas Y. Maladaptive Behavior and Gastrointestinal Disorders in Children with Autism Spectrum Disorder. *Pediatr Gastroenterol Hepatol Nutr.* 2015 Dec;18(4):230-7. doi: 10.5223/pghn.2015.18.4.230. Epub 2015 Dec 23. PubMed PMID: 26770897; PubMed Central PMCID: PMC4712535.

136: Mangiola F, Ianiro G, Franceschi F, Fagiuoli S, Gasbarrini G, Gasbarrini A. Gut microbiota in autism and mood disorders. *World J Gastroenterol.* 2016 Jan 7;22(1):361-8. doi: 10.3748/wjg.v22.i1.361. Review. PubMed PMID: 26755882; PubMed Central PMCID: PMC4698498.

137: Landman C, Quévrain E. [Gut microbiota: Description, role and pathophysiologic implications]. *Rev Med Interne.* 2016 Jun;37(6):418-23. doi: 10.1016/j.revmed.2015.12.012. Epub 2015 Dec 31. Review. French. PubMed PMID: 26749318.

138: Fulceri F, Morelli M, Santocchi E, Cena H, Del Bianco T, Narzisi A, Calderoni S, Muratori F. Gastrointestinal symptoms and behavioral problems in preschoolers with Autism Spectrum Disorder. *Dig Liver Dis.* 2016 Mar;48(3):248-54. doi: 10.1016/j.dld.2015.11.026. Epub 2015 Dec 11. PubMed PMID: 26748423.

139: Jory J. Abnormal fatty acids in Canadian children with autism. *Nutrition.* 2016 Apr;32(4):474-7. doi: 10.1016/j.nut.2015.10.019. Epub 2015 Dec 2. PubMed PMID: 26746679.

140: Laskowski RA, Tyagi N, Johnson D, Joss S, Kinning E, McWilliam C,

Splitt M,
Thornton JM, Firth HV; DDD Study., Wright CF. Integrating population
variation
and protein structural analysis to improve clinical interpretation of
missense
variation: application to the WD40 domain. Hum Mol Genet. 2016 Mar
1;25(5):927–35. doi: 10.1093/hmg/ddv625. Epub 2016 Jan 5. PubMed PMID:
26740553;
PubMed Central PMCID: PMC4754046.

141: Glassford MR, Rosenfeld JA, Freedman AA, Zwick ME, Mulle JG;
Unique Rare
Chromosome Disorder Support Group.. Novel features of 3q29 deletion
syndrome:
Results from the 3q29 registry. Am J Med Genet A. 2016 Apr;170A(4):
999–1006. doi:
10.1002/ajmg.a.37537. Epub 2016 Jan 6. PubMed PMID: 26738761; PubMed
Central
PMCID: PMC4849199.

142: Barnard RA, Pomaville MB, O'Roak BJ. Mutations and Modeling of
the Chromatin
Remodeler CHD8 Define an Emerging Autism Etiology. Front Neurosci.
2015 Dec
17;9:477. doi: 10.3389/fnins.2015.00477. eCollection 2015. Review.
PubMed PMID:
26733790; PubMed Central PMCID: PMC4681771.

143: O' Mahony SM, Stilling RM, Dinan TG, Cryan JF. The microbiome and
childhood
diseases: Focus on brain–gut axis. Birth Defects Res C Embryo Today.
2015
Dec;105(4):296–313. doi: 10.1002/bdrc.21118. Epub 2015 Dec 25. Review.
PubMed
PMID: 26706413.

144: Diaz–Gerevini GT, Repossi G, Dain A, Tarres MC, Das UN, Eynard
AR.
Beneficial action of resveratrol: How and why? Nutrition. 2016 Feb;
32(2):174–8.
doi: 10.1016/j.nut.2015.08.017. Epub 2015 Sep 25. Review. PubMed PMID:
26706021.

145: Trivedi MS, Hodgson NW, Walker SJ, Trooskens G, Nair V, Deth RC.
Epigenetic

effects of casein-derived opioid peptides in SH-SY5Y human neuroblastoma cells.
Nutr Metab (Lond). 2015 Dec 9;12:54. doi: 10.1186/s12986-015-0050-1.
eCollection
2015. PubMed PMID: 26664459; PubMed Central PMCID: PMC4673759.

146: Groer MW, Gregory KE, Louis-Jacques A, Thibeau S, Walker WA. The very low birth weight infant microbiome and childhood health. Birth Defects Res C Embryo Today. 2015 Dec;105(4):252-64. doi: 10.1002/bdrc.21115. Epub 2015 Dec 10. Review.
PubMed PMID: 26663857.

147: Arora SK, Dewan P, Gupta P. Microbiome: Paediatricians' perspective. Indian J Med Res. 2015 Nov;142(5):515-24. doi: 10.4103/0971-5916.171275. Review. PubMed
PMID: 26658584; PubMed Central PMCID: PMC4743336.

148: Ibi D, Yamada K. Therapeutic Targets for Neurodevelopmental Disorders Emerging from Animal Models with Perinatal Immune Activation. Int J Mol Sci. 2015 Nov 27;16(12):28218-29. doi: 10.3390/ijms161226092. Review. PubMed
PMID: 26633355; PubMed Central PMCID: PMC4691039.

149: Ghaisas S, Maher J, Kanthasamy A. Gut microbiome in health and disease: Linking the microbiome-gut-brain axis and environmental factors in the pathogenesis of systemic and neurodegenerative diseases. Pharmacol Ther. 2016 Feb;158:52-62. doi: 10.1016/j.pharmthera.2015.11.012. Epub 2015 Nov 26. Review.
PubMed PMID: 26627987; PubMed Central PMCID: PMC4747781.

150: Sun Q. Urine Pyrimidine Metabolite Determination by HPLC Tandem Mass Spectrometry. Methods Mol Biol. 2016;1378:237-42. doi: 10.1007/978-1-4939-3182-8_25. PubMed PMID: 26602135.

151: Boué S, Fortgang I, Levy RJ Jr, Bhatnagar D, Burow M, Fahey G, Heiman ML. A

novel gastrointestinal microbiome modulator from soy pods reduces absorption of dietary fat in mice. *Obesity* (Silver Spring). 2016 Jan;24(1):87-95. doi: 10.1002/oby.21197. Epub 2015 Nov 20. PubMed PMID: 26584538.

152: Marler S, Ferguson BJ, Lee EB, Peters B, Williams KC, McDonnell E, Macklin EA, Levitt P, Gillespie CH, Anderson GM, Margolis KG, Beversdorf DQ, Veenstra-VanderWeele J. Brief Report: Whole Blood Serotonin Levels and Gastrointestinal Symptoms in Autism Spectrum Disorder. *J Autism Dev Disord*. 2016 Mar;46(3):1124-30. doi: 10.1007/s10803-015-2646-8. PubMed PMID: 26527110; PubMed Central PMCID: PMC4852703.

153: Kumar H, Sharma BM, Sharma B. Benefits of agomelatine in behavioral, neurochemical and blood brain barrier alterations in prenatal valproic acid induced autism spectrum disorder. *Neurochem Int*. 2015 Dec;91:34-45. doi: 10.1016/j.neuint.2015.10.007. Epub 2015 Oct 20. PubMed PMID: 26498253.

154: Yu L, Wu Y, Wu BL. Genetic architecture, epigenetic influence and environment exposure in the pathogenesis of Autism. *Sci China Life Sci*. 2015 Oct;58(10):958-67. doi: 10.1007/s11427-015-4941-1. Review. PubMed PMID: 26490976.

155: Kim DJ, Sim MK, Lee SW, Lee TH. Successful Removal of a Screw Nail in the Jejunum Using Double-Balloon Enteroscopy. *Clin Endosc*. 2015 Sep;48(5):444-6. doi: 10.5946/ce.2015.48.5.444. Epub 2015 Sep 30. PubMed PMID: 26473131; PubMed Central PMCID: PMC4604286.

156: Salehi A, Hashemi N, Imanieh MH, Saber M. Chiropractic: Is it Efficient in Treatment of Diseases? Review of Systematic Reviews. *Int J Community Based Nurs Midwifery*. 2015 Oct;3(4):244-54. Review. PubMed PMID: 26448951; PubMed Central PMCID: PMC4591574.

157: Kantarcioglu AS, Kiraz N, Aydin A. Microbiota-Gut-Brain Axis: Yeast Species Isolated from Stool Samples of Children with Suspected or Diagnosed Autism Spectrum Disorders and In Vitro Susceptibility Against Nystatin and Fluconazole. *Mycopathologia*. 2016 Feb;181(1-2):1-7. doi: 10.1007/s11046-015-9949-3. Epub 2015 Oct 6. PubMed PMID: 26442855.

158: Gabriele S, Sacco R, Altieri L, Neri C, Urbani A, Bravaccio C, Riccio MP, Iovene MR, Bombace F, De Magistris L, Persico AM. Slow intestinal transit contributes to elevate urinary p-cresol level in Italian autistic children. *Autism Res*. 2016 Jul;9(7):752-9. doi: 10.1002/aur.1571. Epub 2015 Oct 6. PubMed PMID: 26437875.

159: Son JS, Zheng LJ, Rowehl LM, Tian X, Zhang Y, Zhu W, Litcher-Kelly L, Gadow KD, Gathungu G, Robertson CE, Ir D, Frank DN, Li E. Comparison of Fecal Microbiota in Children with Autism Spectrum Disorders and Neurotypical Siblings in the Simons Simplex Collection. *PLoS One*. 2015 Oct 1;10(10):e0137725. doi: 10.1371/journal.pone.0137725. eCollection 2015. PubMed PMID: 26427004; PubMed Central PMCID: PMC4591364.

160: Lange KW, Hauser J, Reissmann A. Gluten-free and casein-free diets in the therapy of autism. *Curr Opin Clin Nutr Metab Care*. 2015 Nov;18(6):572-5. doi: 10.1097/MCO.000000000000228. Review. PubMed PMID: 26418822.

161: Klukowski M, Wasilewska J, Lebensztejn D. Sleep and gastrointestinal disturbances in autism spectrum disorder in children. *Dev Period Med*. 2015 Apr-Jun;19(2):157-61. Review. PubMed PMID: 26384115.

162: Dinan TG, Cryan JF. The impact of gut microbiota on brain and behaviour: implications for psychiatry. *Curr Opin Clin Nutr Metab Care*. 2015 Nov;18(6):552–8. doi: 10.1097/MCO.000000000000221. Review. PubMed PMID: 26372511.

163: Liu X, Cao S, Zhang X. Modulation of Gut Microbiota–Brain Axis by Probiotics, Prebiotics, and Diet. *J Agric Food Chem*. 2015 Sep 16;63(36):7885–95. doi: 10.1021/acs.jafc.5b02404. Epub 2015 Sep 1. Review. PubMed PMID: 26306709.

164: Alexander M, Petri H, Ding Y, Wandel C, Khwaja O, Foskett N. Morbidity and medication in a large population of individuals with Down syndrome compared to the general population. *Dev Med Child Neurol*. 2016 Mar;58(3):246–54. doi: 10.1111/dmcn.12868. Epub 2015 Aug 18. PubMed PMID: 26282180.

165: Saad K, Eltayeb AA, Mohamad IL, Al–Atram AA, Elserogy Y, Bjørklund G, El–Houfey AA, Nicholson B. A Randomized, Placebo–controlled Trial of Digestive Enzymes in Children with Autism Spectrum Disorders. *Clin Psychopharmacol Neurosci*. 2015 Aug 31;13(2):188–93. doi: 10.9758/cpn.2015.13.2.188. PubMed PMID: 26243847; PubMed Central PMCID: PMC4540030.

166: Féron F, Gepner B, Lacassagne E, Stephan D, Mesnage B, Blanchard MP, Boulanger N, Tardif C, Devèze A, Rousseau S, Suzuki K, Izpisua Belmonte JC, Khrestchatisky M, Nivet E, Erard–Garcia M. Olfactory stem cells reveal MOCOS as a new player in autism spectrum disorders. *Mol Psychiatry*. 2016 Sep; 21(9):1215–24. doi: 10.1038/mp.2015.106. Epub 2015 Aug 4. PubMed PMID: 26239292; PubMed Central PMCID: PMC4995547.

167: Penn AH, Carver LJ, Herbert CA, Lai TS, McIntire MJ, Howard JT,

Taylor SF,
Schmid-Schönbein GW, Dobkins KR. Breast Milk Protects Against
Gastrointestinal
Symptoms in Infants at High Risk for Autism During Early Development.
J Pediatr
Gastroenterol Nutr. 2016 Feb;62(2):317-27. doi: 10.1097/MPG.
0000000000000907.
PubMed PMID: 26230900; PubMed Central PMCID: PMC4724220.

168: Navarro E, Araya M. [Non-celiac gluten sensitivity: Another
condition that
responds to gluten]. Rev Med Chil. 2015 May;143(5):619-26. doi:
10.4067/S0034-98872015000500010. Review. Spanish. PubMed PMID:
26203574.

169: Grubišić V, Parpura V. The second brain in autism spectrum
disorder: could
connexin 43 expressed in enteric glial cells play a role? Front Cell
Neurosci.
2015 Jul 3;9:242. doi: 10.3389/fncel.2015.00242. eCollection 2015.
PubMed PMID:
26190971; PubMed Central PMCID: PMC4490256.

170: Lionetti E, Leonardi S, Franzonello C, Mancardi M, Ruggieri M,
Catassi C.
Gluten Psychosis: Confirmation of a New Clinical Entity. Nutrients.
2015 Jul
8;7(7):5532-9. doi: 10.3390/nu7075235. PubMed PMID: 26184290; PubMed
Central
PMCID: PMC4517012.

171: Stilling RM, Ryan FJ, Hoban AE, Shanahan F, Clarke G, Claesson
MJ, Dinan TG,
Cryan JF. Microbes & neurodevelopment--Absence of microbiota during
early life
increases activity-related transcriptional pathways in the amygdala.
Brain Behav
Immun. 2015 Nov;50:209-20. doi: 10.1016/j.bbi.2015.07.009. Epub 2015
Jul 14.
PubMed PMID: 26184083.

172: Berry RC, Novak P, Withrow N, Schmidt B, Rarback S, Feucht S,
Criado KK,
Sharp WG. Nutrition Management of Gastrointestinal Symptoms in
Children with

Autism Spectrum Disorder: Guideline from an Expert Panel. *J Acad Nutr Diet*. 2015 Dec;115(12):1919–27. doi: 10.1016/j.jand.2015.05.016. Epub 2015 Jul 9. PubMed PMID: 26164551.

173: Pusponegoro HD, Ismael S, Firmansyah A, Sastroasmoro S, Vandenplas Y. Gluten and casein supplementation does not increase symptoms in children with autism spectrum disorder. *Acta Paediatr*. 2015 Nov;104(11):e500–5. doi: 10.1111/apa.13108. Epub 2015 Aug 30. PubMed PMID: 26148018.

174: Parisi L, Di Filippo T, Roccella M. Autism spectrum disorder in Kabuki syndrome: clinical, diagnostic and rehabilitative aspects assessed through the presentation of three cases. *Minerva Pediatr*. 2015 Aug;67(4):369–75. PubMed PMID: 26129805.

175: de Pontual L, Heulin M, Charles E, Héron B, Zylberberg P. [Complications of autism]. *Arch Pediatr*. 2015 May;22(5 Suppl 1):179–80. doi: 10.1016/S0929–693X(15)30089–0. French. PubMed PMID: 26112580.

176: Pifer R, Sperandio V. The Interplay between the Microbiota and Enterohemorrhagic *Escherichia coli*. *Microbiol Spectr*. 2014 Oct;2(5). doi: 10.1128/microbiolspec.EHEC–0015–2013. Review. PubMed PMID: 26104352.

177: Lichtman JS, Sonnenburg JL, Elias JE. Monitoring host responses to the gut microbiota. *ISME J*. 2015 Sep;9(9):1908–15. doi: 10.1038/ismej.2015.93. Epub 2015 Jun 9. Review. PubMed PMID: 26057846; PubMed Central PMCID: PMC4542045.

178: von Gontard A, Pirrung M, Niemczyk J, Equit M. Incontinence in children with autism spectrum disorder. *J Pediatr Urol*. 2015 Oct;11(5):264.e1–7. doi: 10.1016/j.jpuro.2015.04.015. Epub 2015 May 22. PubMed PMID: 26052001.

179: Petra AI, Panagiotidou S, Hatziagelaki E, Stewart JM, Conti P, Theoharides TC. Gut-Microbiota-Brain Axis and Its Effect on Neuropsychiatric Disorders With Suspected Immune Dysregulation. Clin Ther. 2015 May 1;37(5):984-95. doi: 10.1016/j.clinthera.2015.04.002. Review. PubMed PMID: 26046241; PubMed Central PMCID: PMC4458706.

180: Buie T. Potential Etiologic Factors of Microbiome Disruption in Autism. Clin Ther. 2015 May 1;37(5):976-83. doi: 10.1016/j.clinthera.2015.04.001. Review. PubMed PMID: 26046240.

181: Andrade C. Intranasal drug delivery in neuropsychiatry: focus on intranasal ketamine for refractory depression. J Clin Psychiatry. 2015 May; 76(5):e628-31. doi: 10.4088/JCP.15f10026. Review. PubMed PMID: 26035196.

182: MacFabe DF. Enteric short-chain fatty acids: microbial messengers of metabolism, mitochondria, and mind: implications in autism spectrum disorders. Microb Ecol Health Dis. 2015 May 29;26:28177. doi: 10.3402/mehd.v26.28177. eCollection 2015. PubMed PMID: 26031685; PubMed Central PMCID: PMC4451098.

183: Boles RG, Hornung HA, Moody AE, Ortiz TB, Wong SA, Eggington JM, Stanley CM, Gao M, Zhou H, McLaughlin S, Zare AS, Sheldon KM, Skolnick J, McKernan KJ. Hurt, tired and queasy: Specific variants in the ATPase domain of the TRAP1 mitochondrial chaperone are associated with common, chronic "functional" symptomatology including pain, fatigue and gastrointestinal dysmotility. Mitochondrion. 2015 Jul;23:64-70. doi: 10.1016/j.mito.2015.05.002. Epub 2015 May 27. PubMed PMID: 26022780; PubMed Central PMCID: PMC4586064.

184: Aldinger KA, Lane CJ, Veenstra-VanderWeele J, Levitt P. Patterns of Risk for Multiple Co-Occurring Medical Conditions Replicate Across Distinct Cohorts of Children with Autism Spectrum Disorder. *Autism Res.* 2015 Dec;8(6):771-81. doi: 10.1002/aur.1492. Epub 2015 May 24. PubMed PMID: 26011086; PubMed Central PMCID: PMC4736680.

185: Postorino V, Sanges V, Giovagnoli G, Fatta LM, De Peppo L, Armando M, Vicari S, Mazzone L. Clinical differences in children with autism spectrum disorder with and without food selectivity. *Appetite.* 2015 Sep;92:126-32. doi: 10.1016/j.appet.2015.05.016. Epub 2015 May 18. PubMed PMID: 25998237.

186: Chen L, Tai WC, Brar MS, Leung FC, Hsiao WL. Tumor grafting induces changes of gut microbiota in athymic nude mice in the presence and absence of medicinal Gynostemma saponins. *PLoS One.* 2015 May 20;10(5):e0126807. doi: 10.1371/journal.pone.0126807. eCollection 2015. PubMed PMID: 25992551; PubMed Central PMCID: PMC4439139.

187: Swillen A, McDonald-McGinn D. Developmental trajectories in 22q11.2 deletion. *Am J Med Genet C Semin Med Genet.* 2015 Jun;169(2):172-81. doi: 10.1002/ajmg.c.31435. Epub 2015 May 18. Review. PubMed PMID: 25989227; PubMed Central PMCID: PMC5061035.

188: Frye RE, Rose S, Slattery J, MacFabe DF. Gastrointestinal dysfunction in autism spectrum disorder: the role of the mitochondria and the enteric microbiome. *Microb Ecol Health Dis.* 2015 May 7;26:27458. doi: 10.3402/mehd.v26.27458. eCollection 2015. PubMed PMID: 25956238; PubMed Central PMCID: PMC4425813.

189: Frye RE, Slattery J, MacFabe DF, Allen-Vercos E, Parker W, Rodakis J, Adams JB, Krajmalnik-Brown R, Bolte E, Kahler S, Jennings J, James J,

Cerniglia CE,
Midtvedt T. Approaches to studying and manipulating the enteric
microbiome to
improve autism symptoms. *Microb Ecol Health Dis.* 2015 May 7;26:26878.
doi:
10.3402/mehd.v26.26878. eCollection 2015. PubMed PMID: 25956237;
PubMed Central
PMCID: PMC4425814.

190: Labouesse MA, Langhans W, Meyer U. Long-term pathological
consequences of
prenatal infection: beyond brain disorders. *Am J Physiol Regul Integr
Comp
Physiol.* 2015 Jul 1;309(1):R1-R12. doi: 10.1152/ajpregu.00087.2015.
Epub 2015 Apr
29. Review. PubMed PMID: 25924881.

191: Heberling C, Dhurjati P. Novel systems modeling methodology in
comparative
microbial metabolomics: identifying key enzymes and metabolites
implicated in
autism spectrum disorders. *Int J Mol Sci.* 2015 Apr 22;16(4):8949-67.
doi:
10.3390/ijms16048949. PubMed PMID: 25913376; PubMed Central PMCID:
PMC4425117.

192: Burokas A, Moloney RD, Dinan TG, Cryan JF. Microbiota regulation
of the
Mammalian gut-brain axis. *Adv Appl Microbiol.* 2015;91:1-62. doi:
10.1016/bs.aambs.2015.02.001. Epub 2015 Mar 11. Review. PubMed PMID:
25911232.

193: Croen LA, Zerbo O, Qian Y, Massolo ML, Rich S, Sidney S, Kripke
C. The
health status of adults on the autism spectrum. *Autism.* 2015 Oct;
19(7):814-23.
doi: 10.1177/1362361315577517. Epub 2015 Apr 24. PubMed PMID:
25911091.

194: Bent S, Hendren RL. Complementary and alternative treatments for
autism part
1: evidence-supported treatments. *AMA J Ethics.* 2015 Apr 1;17(4):
369-74. doi:
10.1001/journalofethics.2015.17.4.sect1-1504. Review. PubMed PMID:
25901707.

195: Samsel A, Seneff S. Glyphosate, pathways to modern diseases III: Manganese, neurological diseases, and associated pathologies. *Surg Neurol Int.* 2015 Mar 24;6:45. doi: 10.4103/2152-7806.153876. eCollection 2015. PubMed PMID: 25883837; PubMed Central PMCID: PMC4392553.

196: Vela G, Stark P, Socha M, Sauer AK, Hagemeyer S, Grabrucker AM. Zinc in gut-brain interaction in autism and neurological disorders. *Neural Plast.* 2015;2015:972791. doi: 10.1155/2015/972791. Epub 2015 Mar 23. Review. PubMed PMID: 25878905; PubMed Central PMCID: PMC4386645.

197: Valicenti-McDermott M, Lawson K, Hottinger K, Seijo R, Schechtman M, Shulman L, Shinnar S. Parental Stress in Families of Children With Autism and Other Developmental Disabilities. *J Child Neurol.* 2015 Nov;30(13):1728-35. doi: 10.1177/0883073815579705. Epub 2015 Apr 10. PubMed PMID: 25862740.

198: Viggiano D, Ianiro G, Vanella G, Bibbò S, Bruno G, Simeone G, Mele G. Gut barrier in health and disease: focus on childhood. *Eur Rev Med Pharmacol Sci.* 2015;19(6):1077-85. Review. PubMed PMID: 25855935.

199: El-Ansary A, Bhat RS, Al-Daihan S, Al Dbass AM. The neurotoxic effects of ampicillin-associated gut bacterial imbalances compared to those of orally administered propionic acid in the etiology of persistent autistic features in rat pups: effects of various dietary regimens. *Gut Pathog.* 2015 Mar 22;7:7. doi: 10.1186/s13099-015-0054-4. eCollection 2015. PubMed PMID: 25852770; PubMed Central PMCID: PMC4387705.

200: Rosenfeld CS. Microbiome Disturbances and Autism Spectrum

Disorders. Drug
Metab Dispos. 2015 Oct;43(10):1557–71. doi: 10.1124/dmd.115.063826.
Epub 2015 Apr
7. Review. PubMed PMID: 25852213.

201: Zhang YJ, Li S, Gan RY, Zhou T, Xu DP, Li HB. Impacts of gut bacteria on human health and diseases. Int J Mol Sci. 2015 Apr 2;16(4):7493–519. doi: 10.3390/ijms16047493. Review. PubMed PMID: 25849657; PubMed Central PMCID: PMC4425030.

202: Goldschmidt J, Song HJ. At-risk and underserved: a proposed role for nutrition in the adult trajectory of autism. J Acad Nutr Diet. 2015 Jul;115(7):1041–7. doi: 10.1016/j.jand.2015.02.013. Epub 2015 Apr 1. Review. PubMed PMID: 25840938.

203: De Angelis M, Francavilla R, Piccolo M, De Giacomo A, Gobbetti M. Autism spectrum disorders and intestinal microbiota. Gut Microbes. 2015;6(3):207–13. doi: 10.1080/19490976.2015.1035855. Review. PubMed PMID: 25835343; PubMed Central PMCID: PMC4616908.

204: Zhou L, Foster JA. Psychobiotics and the gut–brain axis: in the pursuit of happiness. Neuropsychiatr Dis Treat. 2015 Mar 16;11:715–23. doi: 10.2147/NDT.S61997. eCollection 2015. Review. PubMed PMID: 25834446; PubMed Central PMCID: PMC4370913.

205: Carabotti M, Scirocco A, Maselli MA, Severi C. The gut–brain axis: interactions between enteric microbiota, central and enteric nervous systems. Ann Gastroenterol. 2015 Apr–Jun;28(2):203–209. PubMed PMID: 25830558; PubMed Central PMCID: PMC4367209.

206: Bresnahan M, Hornig M, Schultz AF, Gunnes N, Hirtz D, Lie KK,

Magnus P,
Reichborn-Kjennerud T, Roth C, Schjølberg S, Stoltenberg C, Surén P,
Susser E,
Lipkin WI. Association of maternal report of infant and toddler
gastrointestinal
symptoms with autism: evidence from a prospective birth cohort. *JAMA
Psychiatry*.
2015 May;72(5):466–74. doi: 10.1001/jamapsychiatry.2014.3034. PubMed
PMID:
25806498; PubMed Central PMCID: PMC4939710.

207: Reddy BL, Saier MH. Autism and our intestinal microbiota. *J Mol
Microbiol
Biotechnol*. 2015;25(1):51–5. doi: 10.1159/000375303. Epub 2015 Mar 3.
Review.
PubMed PMID: 25792275.

208: Dinan TG, Stilling RM, Stanton C, Cryan JF. Collective
unconscious: how gut
microbes shape human behavior. *J Psychiatr Res*. 2015 Apr;63:1–9. doi:
10.1016/j.jpsychires.2015.02.021. Epub 2015 Mar 3. Review. PubMed
PMID: 25772005.

209: Krajmalnik-Brown R, Lozupone C, Kang DW, Adams JB. Gut bacteria
in children
with autism spectrum disorders: challenges and promise of studying how
a complex
community influences a complex disease. *Microb Ecol Health Dis*. 2015
Mar
12;26:26914. doi: 10.3402/mehd.v26.26914. eCollection 2015. PubMed
PMID:
25769266; PubMed Central PMCID: PMC4359272.

210: Halls ML, Bathgate RA, Sutton SW, Dschietzig TB, Summers RJ.
International
Union of Basic and Clinical Pharmacology. XCV. Recent advances in the
understanding of the pharmacology and biological roles of relaxin
family peptide
receptors 1–4, the receptors for relaxin family peptides. *Pharmacol
Rev*.
2015;67(2):389–440. doi: 10.1124/pr.114.009472. Review. PubMed PMID:
25761609;
PubMed Central PMCID: PMC4394689.

211: McDonald D, Hornig M, Lozupone C, Debelius J, Gilbert JA, Knight

R. Towards
large-cohort comparative studies to define the factors influencing the
gut
microbial community structure of ASD patients. *Microb Ecol Health Dis.*
2015 Mar
9;26:26555. doi: 10.3402/mehd.v26.26555. eCollection 2015. PubMed
PMID: 25758371;
PubMed Central PMCID: PMC4355505.

212: Mostafa GA, Al-Ayadhi LY. Reduced levels of plasma
polyunsaturated fatty
acids and serum carnitine in autistic children: relation to
gastrointestinal
manifestations. *Behav Brain Funct.* 2015 Feb 7;11:4. doi:
10.1186/s12993-014-0048-2. PubMed PMID: 25757041; PubMed Central
PMCID:
PMC4332725.

213: Gharesouran J, Khalili AF, Azari NS, Vahedi L. First case report
of Rett
syndrome in the Azeri Turkish population and brief review of the
literature.
Epilepsy Behav Case Rep. 2015 Feb 23;3:15-9. doi: 10.1016/j.ebcr.
2014.11.001.
eCollection 2015. PubMed PMID: 25737965; PubMed Central PMCID:
PMC4338853.

214: Grubišić V, Kennedy AJ, Sweatt JD, Parpura V. Pitt-Hopkins Mouse
Model has
Altered Particular Gastrointestinal Transits In Vivo. *Autism Res.* 2015
Oct;8(5):629-33. doi: 10.1002/aur.1467. Epub 2015 Feb 26. PubMed PMID:
25728630.

215: Schmidt C. Mental health: thinking from the gut. *Nature.* 2015 Feb
26;518(7540):S12-5. doi: 10.1038/518S13a. PubMed PMID: 25715275.

216: Chaudhury A. Molecular handoffs in nitroergic neurotransmission.
Front Med
(Lausanne). 2014 Apr 10;1:8. doi: 10.3389/fmed.2014.00008. eCollection
2014.
Review. PubMed PMID: 25705621; PubMed Central PMCID: PMC4335390.

217: Mayer EA, Tillisch K, Gupta A. Gut/brain axis and the microbiota.
J Clin

Invest. 2015 Mar 2;125(3):926–38. doi: 10.1172/JCI76304. Epub 2015 Feb 17.

Review. PubMed PMID: 25689247; PubMed Central PMCID: PMC4362231.

218: Muszer M, Noszczyńska M, Kasperkiewicz K, Skurnik M. Human Microbiome: When a Friend Becomes an Enemy. Arch Immunol Ther Exp (Warsz). 2015 Aug; 63(4):287–98. doi: 10.1007/s00005-015-0332-3. Epub 2015 Feb 15. Review. PubMed PMID: 25682593; PubMed Central PMCID: PMC4499106.

219: Russo AJ. Decreased plasma myeloperoxidase associated with probiotic therapy in autistic children. Clin Med Insights Pediatr. 2015 Feb 3;9:13–7. doi: 10.4137/CMPed.S17901. eCollection 2015. PubMed PMID: 25674031; PubMed Central PMCID: PMC4319567.

220: Weston B, Fogal B, Cook D, Dhurjati P. An agent-based modeling framework for evaluating hypotheses on risks for developing autism: effects of the gut microbial environment. Med Hypotheses. 2015 Apr;84(4):395–401. doi: 10.1016/j.mehy.2015.01.027. Epub 2015 Jan 28. PubMed PMID: 25670416.

221: Babinská K, Bucová M, Ďurmanová V, Lakatošová S, Jánošíková D, Bakoš J, Hlavatá A, Ostatníková D. Increased plasma levels of the high mobility group box 1 protein (HMGB1) are associated with a higher score of gastrointestinal dysfunction in individuals with autism. Physiol Res. 2014;63 Suppl 4:S613–8. PubMed PMID: 25669692.

222: Attlee A, Kassem H, Hashim M, Obaid RS. Physical Status and Feeding Behavior of Children with Autism. Indian J Pediatr. 2015 Aug;82(8):682–7. doi: 10.1007/s12098-015-1696-4. Epub 2015 Feb 10. PubMed PMID: 25663296.

223: Sun J, Chang EB. Exploring gut microbes in human health and disease: Pushing

the envelope. *Genes Dis.* 2014 Dec;1(2):132–139. PubMed PMID: 25642449; PubMed Central PMCID: PMC4310008.

224: Toh MC, Allen–Vercoe E. The human gut microbiota with reference to autism spectrum disorder: considering the whole as more than a sum of its parts. *Microb Ecol Health Dis.* 2015 Jan 28;26:26309. doi: 10.3402/mehd.v26.26309. eCollection 2015. PubMed PMID: 25634609; PubMed Central PMCID: PMC4310852.

225: Ngounou Wetie AG, Wormwood KL, Russell S, Ryan JP, Darie CC, Woods AG. A Pilot Proteomic Analysis of Salivary Biomarkers in Autism Spectrum Disorder. *Autism Res.* 2015 Jun;8(3):338–50. doi: 10.1002/aur.1450. Epub 2015 Jan 27. PubMed PMID: 25626423.

226: Mezzelani A, Raggi ME, Marabotti A, Milanesi L. Ochratoxin A as possible factor triggering autism and its male prevalence via epigenetic mechanism. *Nutr Neurosci.* 2016;19(1):43–6. doi: 10.1179/1476830515Z.000000000186. Epub 2015 Jan 17. PubMed PMID: 25597866.

227: Shaaya EA, Pollack SF, Boronat S, Davis–Cooper S, Zella GC, Thibert RL. Gastrointestinal problems in 15q duplication syndrome. *Eur J Med Genet.* 2015 Mar;58(3):191–3. doi: 10.1016/j.ejmg.2014.12.012. Epub 2015 Jan 5. PubMed PMID: 25573720.

228: Nguyen TL, Vieira–Silva S, Liston A, Raes J. How informative is the mouse for human gut microbiota research? *Dis Model Mech.* 2015 Jan;8(1):1–16. doi: 10.1242/dmm.017400. Review. PubMed PMID: 25561744; PubMed Central PMCID: PMC4283646.

229: Ridha Z, Quinn R, Croaker GD. Predictors of slow colonic transit in children. *Pediatr Surg Int*. 2015 Feb;31(2):137-42. doi: 10.1007/s00383-014-3651-2. Epub 2014 Dec 31. PubMed PMID: 25549892.

230: Elder JH, Kreider CM, Schaefer NM, de Laosa MB. A review of gluten- and casein-free diets for treatment of autism: 2005-2015. *Nutr Diet Suppl*. 2015;7:87-101. doi: 10.2147/NDS.S74718. Epub 2015 Dec 1. PubMed PMID: 28111520; PubMed Central PMCID: PMC5242335.

231: Ettinger G, MacDonald K, Reid G, Burton JP. The influence of the human microbiome and probiotics on cardiovascular health. *Gut Microbes*. 2014;5(6):719-28. doi: 10.4161/19490976.2014.983775. Review. PubMed PMID: 25529048; PubMed Central PMCID: PMC4615746.

232: Grechanina IuB, Grechanina EIa, Beletskaja SV. [Impairments of gastrointestinal tract in autism]. *Lik Sprava*. 2014 Nov;(11):89-93. Russian. PubMed PMID: 25528841.

233: Dharmadhikari AV, Gambin T, Szafranski P, Cao W, Probst FJ, Jin W, Fang P, Gogolewski K, Gambin A, George-Abraham JK, Golla S, Boidein F, Duban-Bedu B, Delobel B, Andrieux J, Becker K, Holinski-Feder E, Cheung SW, Stankiewicz P. Molecular and clinical analyses of 16q24.1 duplications involving FOXF1 identify an evolutionarily unstable large minisatellite. *BMC Med Genet*. 2014 Dec 4;15:128. doi: 10.1186/s12881-014-0128-z. PubMed PMID: 25472632; PubMed Central PMCID: PMC4411736.

234: Fond G, Boukouaci W, Chevalier G, Regnault A, Eberl G, Hamdani N, Dickerson F, Macgregor A, Boyer L, Dargel A, Oliveira J, Tamouza R, Leboyer M. The "psychomicrobiotic": Targeting microbiota in major psychiatric disorders: A systematic review. *Pathol Biol (Paris)*. 2015 Feb;63(1):35-42. doi:

10.1016/j.patbio.2014.10.003. Epub 2014 Nov 2. Review. PubMed PMID: 25468489.

235: Abdelrahman HM, Sherief LM, Alghobashy AA, Abdel Salam SM, Hashim HM, Abdel Fattah NR, Mohamed RH. Association of 5-HT2A receptor gene polymorphisms with gastrointestinal disorders in Egyptian children with autistic disorder. *Res Dev Disabil.* 2014 Nov 12;36C:485-490. doi: 10.1016/j.ridd.2014.10.023. [Epub ahead of print] PubMed PMID: 25462508.

236: Shultz SR, Aziz NA, Yang L, Sun M, MacFabe DF, O'Brien TJ. Intracerebroventricular injection of propionic acid, an enteric metabolite implicated in autism, induces social abnormalities that do not differ between seizure-prone (FAST) and seizure-resistant (SLOW) rats. *Behav Brain Res.* 2015 Feb 1;278:542-8. doi: 10.1016/j.bbr.2014.10.050. Epub 2014 Nov 6. PubMed PMID: 25446754.

237: Tomova A, Husarova V, Lakatosova S, Bakos J, Vlkova B, Babinska K, Ostatnikova D. Gastrointestinal microbiota in children with autism in Slovakia. *Physiol Behav.* 2015 Jan;138:179-87. doi: 10.1016/j.physbeh.2014.10.033. Epub 2014 Nov 6. PubMed PMID: 25446201.

238: Baronio D, Gonchoroski T, Castro K, Zanatta G, Gottfried C, Riesgo R. Histaminergic system in brain disorders: lessons from the translational approach and future perspectives. *Ann Gen Psychiatry.* 2014 Nov 18;13(1):34. doi: 10.1186/s12991-014-0034-y. eCollection 2014. PubMed PMID: 25426159; PubMed Central PMCID: PMC4243384.

239: Mayer EA, Knight R, Mazmanian SK, Cryan JF, Tillisch K. Gut microbes and the brain: paradigm shift in neuroscience. *J Neurosci.* 2014 Nov 12;34(46):

15490-6.
doi: 10.1523/JNEUROSCI.3299-14.2014. Review. PubMed PMID: 25392516;
PubMed
Central PMCID: PMC4228144.

240: Reardon S. Gut-brain link grabs neuroscientists. *Nature*. 2014 Nov 13;515(7526):175-7. doi: 10.1038/515175a. PubMed PMID: 25391939.

241: Gombash SE, Cowley CJ, Fitzgerald JA, Hall JC, Mueller C, Christofi FL, Foust KD. Intravenous AAV9 efficiently transduces myenteric neurons in neonate and juvenile mice. *Front Mol Neurosci*. 2014 Oct 15;7:81. doi: 10.3389/fnmol.2014.00081. eCollection 2014. PubMed PMID: 25360081; PubMed Central PMCID: PMC4197761.

242: Khan I, Yasir M, Azhar EI, Kumosani T, Barbour EK, Bibi F, Kamal MA. Implication of gut microbiota in human health. *CNS Neurol Disord Drug Targets*. 2014;13(8):1325-33. PubMed PMID: 25345506.

243: Jyonouchi H, Geng L, Davidow AL. Cytokine profiles by peripheral blood monocytes are associated with changes in behavioral symptoms following immune insults in a subset of ASD subjects: an inflammatory subtype? *J Neuroinflammation*. 2014 Oct 27;11:187. doi: 10.1186/s12974-014-0187-2. PubMed PMID: 25344730; PubMed Central PMCID: PMC4213467.

244: Alfawaz HA, Bhat RS, Al-Ayadhi L, El-Ansary AK. Protective and restorative potency of Vitamin D on persistent biochemical autistic features induced in propionic acid-intoxicated rat pups. *BMC Complement Altern Med*. 2014 Oct 25;14:416. doi: 10.1186/1472-6882-14-416. PubMed PMID: 25344727; PubMed Central PMCID: PMC4230722.

245: Aw W, Fukuda S. Toward the comprehensive understanding of the gut ecosystem

via metabolomics-based integrated omics approach. *Semin Immunopathol.* 2015 Jan;37(1):5-16. doi: 10.1007/s00281-014-0456-2. Epub 2014 Oct 22. Review. PubMed PMID: 25338280.

246: Tsilioni I, Dodman N, Petra AI, Taliou A, Francis K, Moon-Fanelli A, Shuster L, Theoharides TC. Elevated serum neurotensin and CRH levels in children with autistic spectrum disorders and tail-chasing Bull Terriers with a phenotype similar to autism. *Transl Psychiatry.* 2014 Oct 14;4:e466. doi: 10.1038/tp.2014.106. PubMed PMID: 25313509; PubMed Central PMCID: PMC5190146.

247: Whiteley P. Nutritional management of (some) autism: a case for gluten- and casein-free diets? *Proc Nutr Soc.* 2015 Aug;74(3):202-7. doi: 10.1017/S0029665114001475. Epub 2014 Oct 14. Review. PubMed PMID: 25311313.

248: Redinbo MR. The microbiota, chemical symbiosis, and human disease. *J Mol Biol.* 2014 Nov 25;426(23):3877-91. doi: 10.1016/j.jmb.2014.09.011. Epub 2014 Oct 8. Review. PubMed PMID: 25305474; PubMed Central PMCID: PMC4252811.

249: Foley KA, MacFabe DF, Kavaliers M, Ossenkopp KP. Sexually dimorphic effects of prenatal exposure to lipopolysaccharide, and prenatal and postnatal exposure to propionic acid, on acoustic startle response and prepulse inhibition in adolescent rats: relevance to autism spectrum disorders. *Behav Brain Res.* 2015 Feb 1;278:244-56. doi: 10.1016/j.bbr.2014.09.032. Epub 2014 Oct 7. PubMed PMID: 25300465.

250: Van Esch H. MECP2 Duplication Syndrome. 2008 Jan 18 [updated 2014 Oct 9]. In: Pagon RA, Adam MP, Ardinger HH, Wallace SE, Amemiya A, Bean LJH, Bird TD, Ledbetter N, Mefford HC, Smith RJH, Stephens K, editors. *GeneReviews*®

[Internet].

Seattle (WA): University of Washington, Seattle; 1993–2017. Available from

<http://www.ncbi.nlm.nih.gov/books/NBK1284/>

PubMed PMID: 20301461.

251: Downs R, Perna J, Vitelli A, Cook D, Dhurjati P. Model-based hypothesis of gut microbe populations and gut/brain barrier permeabilities in the development of regressive autism. *Med Hypotheses*. 2014 Dec;83(6):649–55. doi: 10.1016/j.mehy.2014.09.005. Epub 2014 Sep 18. PubMed PMID: 25288537.

252: Kidd SA, Lachiewicz A, Barbouth D, Blitz RK, Delahunty C, McBrien D, Visootsak J, Berry-Kravis E. Fragile X syndrome: a review of associated medical problems. *Pediatrics*. 2014 Nov;134(5):995–1005. doi: 10.1542/peds.2013-4301. Epub 2014 Oct 6. Review. PubMed PMID: 25287458.

253: Julio-Pieper M, Bravo JA, Aliaga E, Gotteland M. Review article: intestinal barrier dysfunction and central nervous system disorders—a controversial association. *Aliment Pharmacol Ther*. 2014 Nov;40(10):1187–201. doi: 10.1111/apt.12950. Epub 2014 Sep 28. Review. PubMed PMID: 25262969.

254: Quintero-Rivera F, Woo JS, Bomberg EM, Wallace WD, Peredo J, Dipple KM. Duodenal atresia in 17q12 microdeletion including HNF1B: a new associated malformation in this syndrome. *Am J Med Genet A*. 2014 Dec;164A(12):3076–82. doi: 10.1002/ajmg.a.36767. Epub 2014 Sep 24. PubMed PMID: 25256560.

255: Severance EG, Gressitt KL, Alaedini A, Rohleder C, Enning F, Bumb JM, Müller JK, Schwarz E, Yolken RH, Leweke FM. IgG dynamics of dietary antigens point to cerebrospinal fluid barrier or flow dysfunction in first-episode schizophrenia. *Brain Behav Immun*. 2015 Feb;44:148–58. doi: 10.1016/j.bbi.2014.09.009. Epub 2014 Sep 20. PubMed PMID: 25241021; PubMed Central PMCID: PMC4275312.

256: Castillo A, Kramer N, Schwartz CE, Miles JH, DuPont BR, Rosenfeld JA, Graham JM Jr. 19q13.32 microdeletion syndrome: three new cases. *Eur J Med Genet.* 2014 Nov-Dec;57(11-12):654-8. doi: 10.1016/j.ejmg.2014.08.009. Epub 2014 Sep 16. PubMed PMID: 25230004.

257: Rossignol DA, Frye RE. The use of medications approved for Alzheimer's disease in autism spectrum disorder: a systematic review. *Front Pediatr.* 2014 Aug 22;2:87. doi: 10.3389/fped.2014.00087. eCollection 2014. Review. PubMed PMID: 25202686; PubMed Central PMCID: PMC4141213.

258: El-Ansary A, Al-Ayadhi L. Relative abundance of short chain and polyunsaturated fatty acids in propionic acid-induced autistic features in rat pups as potential markers in autism. *Lipids Health Dis.* 2014 Aug 31;13:140. doi: 10.1186/1476-511X-13-140. PubMed PMID: 25175350; PubMed Central PMCID: PMC4176835.

259: Nankova BB, Agarwal R, MacFabe DF, La Gamma EF. Enteric bacterial metabolites propionic and butyric acid modulate gene expression, including CREB-dependent catecholaminergic neurotransmission, in PC12 cells--possible relevance to autism spectrum disorders. *PLoS One.* 2014 Aug 29;9(8):e103740. doi: 10.1371/journal.pone.0103740. eCollection 2014. PubMed PMID: 25170769; PubMed Central PMCID: PMC4149359.

260: Mayer EA, Padua D, Tillisch K. Altered brain-gut axis in autism: comorbidity or causative mechanisms? *Bioessays.* 2014 Oct;36(10):933-9. doi: 10.1002/bies.201400075. Epub 2014 Aug 22. Review. PubMed PMID: 25145752.

261: Nicolaidis C, Kripke CC, Raymaker D. Primary care for adults on the autism

spectrum. *Med Clin North Am.* 2014 Sep;98(5):1169–91. doi: 10.1016/j.mcna.2014.06.011. Review. PubMed PMID: 25134878; PubMed Central PMCID: PMC4851469.

262: Samsam M, Ahangari R, Naser SA. Pathophysiology of autism spectrum disorders: revisiting gastrointestinal involvement and immune imbalance. *World J Gastroenterol.* 2014 Aug 7;20(29):9942–51. doi: 10.3748/wjg.v20.i29.9942. Review. PubMed PMID: 25110424; PubMed Central PMCID: PMC4123375.

263: Pescosolido MF, Stein DM, Schmidt M, El Achkar CM, Sabbagh M, Rogg JM, Tantravahi U, McLean RL, Liu JS, Poduri A, Morrow EM. Genetic and phenotypic diversity of NHE6 mutations in Christianson syndrome. *Ann Neurol.* 2014 Oct;76(4):581–93. doi: 10.1002/ana.24225. Epub 2014 Sep 19. PubMed PMID: 25044251; PubMed Central PMCID: PMC4304796.

264: Cohen–Silver JH, Muskat B, Ratnapalan S. Autism in the emergency department. *Clin Pediatr (Phila).* 2014 Oct;53(12):1134–8. doi: 10.1177/0009922814540983. Epub 2014 Jul 15. PubMed PMID: 25031320.

265: Trivedi MS, Shah JS, Al–Mughairy S, Hodgson NW, Simms B, Trooskens GA, Van Criekinge W, Deth RC. Food–derived opioid peptides inhibit cysteine uptake with redox and epigenetic consequences. *J Nutr Biochem.* 2014 Oct;25(10):1011–8. doi: 10.1016/j.jnutbio.2014.05.004. Epub 2014 Jun 6. PubMed PMID: 25018147; PubMed Central PMCID: PMC4157943.

266: Gabriele S, Sacco R, Cerullo S, Neri C, Urbani A, Tripi G, Malvy J, Barthelemy C, Bonnet–Brihault F, Persico AM. Urinary p–cresol is elevated in young French children with autism spectrum disorder: a replication study. *Biomarkers.* 2014 Sep;19(6):463–70. doi: 10.3109/1354750X.2014.936911.

Epub 2014
Jul 10. PubMed PMID: 25010144.

267: van De Sande MM, van Buul VJ, Brouns FJ. Autism and nutrition: the role of the gut-brain axis. *Nutr Res Rev.* 2014 Dec;27(2):199-214. doi: 10.1017/S0954422414000110. Epub 2014 Jul 8. Review. PubMed PMID: 25004237.

268: Bernier R, Golzio C, Xiong B, Stessman HA, Coe BP, Penn O, Witherspoon K, Gerds J, Baker C, Vulto-van Silfhout AT, Schuurs-Hoeijmakers JH, Fichera M, Bosco P, Buono S, Alberti A, Failla P, Peeters H, Steyaert J, Vissers LE, Francescato L, Mefford HC, Rosenfeld JA, Bakken T, O'Roak BJ, Pawlus M, Moon R, Shendure J, Amaral DG, Lein E, Rankin J, Romano C, de Vries BB, Katsanis N, Eichler EE. Disruptive CHD8 mutations define a subtype of autism early in development. *Cell.* 2014 Jul 17;158(2):263-76. doi: 10.1016/j.cell.2014.06.017. Epub 2014 Jul 3. PubMed PMID: 24998929; PubMed Central PMCID: PMC4136921.

269: Borre YE, Moloney RD, Clarke G, Dinan TG, Cryan JF. The impact of microbiota on brain and behavior: mechanisms & therapeutic potential. *Adv Exp Med Biol.* 2014;817:373-403. doi: 10.1007/978-1-4939-0897-4_17. Review. PubMed PMID: 24997043.

270: Rook GA, Raison CL, Lowry CA. Microbiota, immunoregulatory old friends and psychiatric disorders. *Adv Exp Med Biol.* 2014;817:319-56. doi: 10.1007/978-1-4939-0897-4_15. Review. PubMed PMID: 24997041.

271: Cao X, Lin P, Jiang P, Li C. Characteristics of the gastrointestinal microbiome in children with autism spectrum disorder: a systematic review. *Shanghai Arch Psychiatry.* 2013 Dec;25(6):342-53. doi: 10.3969/j.issn.1002-0829.2013.06.003. Review. PubMed PMID: 24991177;

PubMed
Central PMCID: PMC4054584.

272: Hendy HM, Williams KE, Harclerode W, Riegel K. Parent Attribution for Child Eating Scale (PACES). Psychometric characteristics and associations with child and parent variables. *Appetite*. 2014 Oct;81:312-9. doi: 10.1016/j.appet.2014.06.029. Epub 2014 Jun 27. PubMed PMID: 24979332.

273: Borre YE, O'Keefe GW, Clarke G, Stanton C, Dinan TG, Cryan JF. Microbiota and neurodevelopmental windows: implications for brain disorders. *Trends Mol Med*. 2014 Sep;20(9):509-18. doi: 10.1016/j.molmed.2014.05.002. Epub 2014 Jun 20. Review. PubMed PMID: 24956966.

274: Ianiro G, Bibbò S, Gasbarrini A, Cammarota G. Therapeutic modulation of gut microbiota: current clinical applications and future perspectives. *Curr Drug Targets*. 2014;15(8):762-70. Review. PubMed PMID: 24909808.

275: Watanabe K, Kikuchi T. [Adverse events of psychotropic drugs]. *Seishin Shinkeigaku Zasshi*. 2014;116(4):323-31. Review. Japanese. PubMed PMID: 24864567.

276: Heitzer AM, Job MA, Pandit NK, Valdovinos MG. Should clinical trial research of psychotropic medication in autism control for gastrointestinal symptoms? *J Clin Pharmacol*. 2014 Oct;54(10):1093-6. doi: 10.1002/jcph.324. Epub 2014 May 6. PubMed PMID: 24788353.

277: McElhanon BO, McCracken C, Karpen S, Sharp WG. Gastrointestinal symptoms in autism spectrum disorder: a meta-analysis. *Pediatrics*. 2014 May;133(5):872-83. doi: 10.1542/peds.2013-3995. PubMed PMID: 24777214.

278: Kang V, Wagner GC, Ming X. Gastrointestinal dysfunction in children with autism spectrum disorders. *Autism Res.* 2014 Aug;7(4):501–6. doi: 10.1002/aur.1386. Epub 2014 Apr 21. PubMed PMID: 24753336.

279: Foley KA, MacFabe DF, Vaz A, Ossenkopp KP, Kavaliers M. Sexually dimorphic effects of prenatal exposure to propionic acid and lipopolysaccharide on social behavior in neonatal, adolescent, and adult rats: implications for autism spectrum disorders. *Int J Dev Neurosci.* 2014 Dec;39:68–78. doi: 10.1016/j.ijdevneu.2014.04.001. Epub 2014 Apr 18. PubMed PMID: 24747144.

280: Bölte S, Willfors C, Berggren S, Norberg J, Poltrago L, Mevel K, Coco C, Fransson P, Borg J, Sitnikov R, Toro R, Tammimies K, Anderlid BM, Nordgren A, Falk A, Meyer U, Kere J, Landén M, Dalman C, Ronald A, Anckarsäter H, Lichtenstein P. The Roots of Autism and ADHD Twin Study in Sweden (RATSS). *Twin Res Hum Genet.* 2014 Jun;17(3):164–76. doi: 10.1017/thg.2014.12. Epub 2014 Apr 15. PubMed PMID: 24735654.

281: Rook GA, Lowry CA, Raison CL. Hygiene and other early childhood influences on the subsequent function of the immune system. *Brain Res.* 2015 Aug 18;1617:47–62. doi: 10.1016/j.brainres.2014.04.004. Epub 2014 Apr 13. Review. PubMed PMID: 24732404.

282: Rescigno M. Intestinal microbiota and its effects on the immune system. *Cell Microbiol.* 2014 Jul;16(7):1004–13. doi: 10.1111/cmi.12301. Epub 2014 May 1. Review. PubMed PMID: 24720613.

283: Wang L, Conlon MA, Christophersen CT, Sorich MJ, Angley MT. Gastrointestinal microbiota and metabolite biomarkers in children with autism spectrum disorders. *Biomark Med.* 2014;8(3):331–44. doi: 10.2217/bmm.14.12. Review. PubMed PMID:

24712423.

284: Kern JK, Geier DA, Geier MR. Evaluation of regression in autism spectrum disorder based on parental reports. *N Am J Med Sci*. 2014 Jan;6(1):41-7. doi: 10.4103/1947-2714.125867. PubMed PMID: 24678477; PubMed Central PMCID: PMC3938873.

285: Goyal DK, Miyan JA. Neuro-immune abnormalities in autism and their relationship with the environment: a variable insult model for autism. *Front Endocrinol (Lausanne)*. 2014 Mar 7;5:29. doi: 10.3389/fendo.2014.00029. eCollection 2014. Review. PubMed PMID: 24639668; PubMed Central PMCID: PMC3945747.

286: Mezzelani A, Landini M, Facchiano F, Raggi ME, Villa L, Molteni M, De Santis B, Brera C, Caroli AM, Milanese L, Marabotti A. Environment, dysbiosis, immunity and sex-specific susceptibility: a translational hypothesis for regressive autism pathogenesis. *Nutr Neurosci*. 2015 May;18(4):145-61. doi: 10.1179/1476830513Y.0000000108. Epub 2014 Jan 21. Review. PubMed PMID: 24621061; PubMed Central PMCID: PMC4485698.

287: Hazen EP, Stornelli JL, O'Rourke JA, Koesterer K, McDougale CJ. Sensory symptoms in autism spectrum disorders. *Harv Rev Psychiatry*. 2014 Mar-Apr;22(2):112-24. doi: 10.1097/01.HRP.0000445143.08773.58. Review. PubMed PMID: 24614766.

288: Hsiao EY. Gastrointestinal issues in autism spectrum disorder. *Harv Rev Psychiatry*. 2014 Mar-Apr;22(2):104-11. doi: 10.1097/HRP.000000000000029. Review. PubMed PMID: 24614765.

289: Rees CA. Lost among the trees? The autonomic nervous system and paediatrics. *Arch Dis Child*. 2014 Jun;99(6):552-62. doi: 10.1136/

archdischild-2012-301863.
Epub 2014 Feb 26. Review. PubMed PMID: 24573884.

290: Al-Ghamdi M, Al-Ayadhi L, El-Ansary A. Selected biomarkers as predictive tools in testing efficacy of melatonin and coenzyme Q on propionic acid - induced neurotoxicity in rodent model of autism. BMC Neurosci. 2014 Feb 25;15:34. doi: 10.1186/1471-2202-15-34. PubMed PMID: 24568717; PubMed Central PMCID: PMC3996043.

291: Navarro F, Pearson DA, Fatheree N, Mansour R, Hashmi SS, Rhoads JM. Are 'leaky gut' and behavior associated with gluten and dairy containing diet in children with autism spectrum disorders? Nutr Neurosci. 2015 May; 18(4):177-85. doi: 10.1179/1476830514Y.0000000110. Epub 2014 Feb 12. PubMed PMID: 24564346.

292: Phillips KL, Schieve LA, Visser S, Boulet S, Sharma AJ, Kogan MD, Boyle CA, Yeargin-Allsopp M. Prevalence and impact of unhealthy weight in a national sample of US adolescents with autism and other learning and behavioral disabilities. Matern Child Health J. 2014 Oct;18(8):1964-75. doi: 10.1007/s10995-014-1442-y. PubMed PMID: 24553796; PubMed Central PMCID: PMC5328414.

293: Foley KA, Ossenkopp KP, Kavaliers M, Macfabe DF. Pre- and neonatal exposure to lipopolysaccharide or the enteric metabolite, propionic acid, alters development and behavior in adolescent rats in a sexually dimorphic manner. PLoS One. 2014 Jan 22;9(1):e87072. doi: 10.1371/journal.pone.0087072. eCollection 2014. PubMed PMID: 24466331; PubMed Central PMCID: PMC3899377.

294: Steward-Scott E. Autism spectrum disorders: picky eaters. J Pediatr Nurs. 2014 Mar-Apr;29(2):107. doi: 10.1016/j.pedn.2013.12.009. Epub 2014 Jan 3. PubMed

PMID: 24457101.

295: Bourlioux P. [Current view on gut microbiota]. *Ann Pharm Fr.* 2014 Jan;72(1):15–21. doi: 10.1016/j.pharma.2013.09.001. Epub 2013 Oct 16. Review.

French. PubMed PMID: 24438664.

296: Macfabe D. Autism: metabolism, mitochondria, and the microbiome. *Glob Adv Health Med.* 2013 Nov;2(6):52–66. doi: 10.7453/gahmj.2013.089. PubMed PMID:

24416709; PubMed Central PMCID: PMC3865378.

297: Baker SM. Learning about autism. *Glob Adv Health Med.* 2013 Nov;2(6):38–46.

doi: 10.7453/gahmj.2013.068. Review. PubMed PMID: 24416707; PubMed Central PMCID: PMC3865375.

298: Baker SM, Milivojevic A. Gender differences among children with autism spectrum disorder: differential symptom patterns. *Glob Adv Health Med.* 2013

Nov;2(6):8–18. doi: 10.7453/gahmj.2013.003. PubMed PMID: 24416704; PubMed Central PMCID: PMC3865374.

299: Baker SM. Scientific narratives in autism spectrum disorder. *Glob Adv Health Med.* 2013 Nov;2(6):5. doi: 10.7453/gahmj.2013.095. PubMed PMID:

24416703; PubMed Central PMCID: PMC3865382.

300: Pineiro ML, Roberts AM, Waxler JL, Mullett JE, Pober BR, McDougale CJ.

N-acetylcysteine for neuropsychiatric symptoms in a woman with Williams syndrome.

J Child Neurol. 2014 Nov;29(11):NP135–8. doi: 10.1177/0883073813512025. Epub 2014 Jan 5. PubMed PMID: 24396132.

301: Kim JW, Choi CS, Kim KC, Park JH, Seung H, Joo SH, Yang SM, Shin CY, Park

SH. Gastrointestinal tract abnormalities induced by prenatal valproic Acid exposure in rat offspring. *Toxicol Res.* 2013 Sep;29(3):173–9. doi: 10.5487/TR.2013.29.3.173. PubMed PMID: 24386517; PubMed Central PMCID: PMC3877996.

302: Kolevzon A, Angarita B, Bush L, Wang AT, Frank Y, Yang A, Rapaport R, Saland J, Srivastava S, Farrell C, Edelman LJ, Buxbaum JD. Phelan–McDermid syndrome: a review of the literature and practice parameters for medical assessment and monitoring. *J Neurodev Disord.* 2014;6(1):39. doi: 10.1186/1866–1955–6–39. Epub 2014 Oct 8. Review. PubMed PMID: 25784960; PubMed Central PMCID: PMC4362650.

303: Wang Y, Kasper LH. The role of microbiome in central nervous system disorders. *Brain Behav Immun.* 2014 May;38:1–12. doi: 10.1016/j.bbi.2013.12.015. Epub 2013 Dec 25. Review. PubMed PMID: 24370461; PubMed Central PMCID: PMC4062078.

304: Malkki H. Neurodevelopmental disorders: human gut microbiota alleviate behavioural symptoms in a mouse model of autism spectrum disorder. *Nat Rev Neurol.* 2014 Feb;10(2):60. doi: 10.1038/nrneuro.2013.267. Epub 2013 Dec 24. PubMed PMID: 24366270.

305: Gilbert JA, Krajmalnik–Brown R, Porazinska DL, Weiss SJ, Knight R. Toward effective probiotics for autism and other neurodevelopmental disorders. *Cell.* 2013 Dec 19;155(7):1446–8. doi: 10.1016/j.cell.2013.11.035. PubMed PMID: 24360269; PubMed Central PMCID: PMC4166551.

306: Rossignol DA. My experience learning about autism. *Glob Adv Health Med.* 2013 Nov;2(6):74–7. doi: 10.7453/gahmj.2013.090. PubMed PMID: 24349885; PubMed Central PMCID: PMC3865379.

307: Dalton N, Chandler S, Turner C, Charman T, Pickles A, Loucas T, Simonoff E, Sullivan P, Baird G. Gut permeability in autism spectrum disorders. *Autism Res.* 2014 Jun;7(3):305–13. doi: 10.1002/aur.1350. Epub 2013 Dec 12. PubMed PMID: 24339339.

308: McGinnis WR, Audhya T, Edelson SM. Proposed toxic and hypoxic impairment of a brainstem locus in autism. *Int J Environ Res Public Health.* 2013 Dec 11;10(12):6955–7000. doi: 10.3390/ijerph10126955. PubMed PMID: 24336025; PubMed Central PMCID: PMC3881151.

309: de Theije CG, Wopereis H, Ramadan M, van Eijndthoven T, Lambert J, Knol J, Garssen J, Kraneveld AD, Oozeer R. Altered gut microbiota and activity in a murine model of autism spectrum disorders. *Brain Behav Immun.* 2014 Mar;37:197–206. doi: 10.1016/j.bbi.2013.12.005. Epub 2013 Dec 11. PubMed PMID: 24333160.

310: Doshi-Velez F, Ge Y, Kohane I. Comorbidity clusters in autism spectrum disorders: an electronic health record time-series analysis. *Pediatrics.* 2014 Jan;133(1):e54–63. doi: 10.1542/peds.2013–0819. Epub 2013 Dec 9. PubMed PMID: 24323995; PubMed Central PMCID: PMC3876178.

311: de Theije CG, Koelink PJ, Korte-Bouws GA, Lopes da Silva S, Korte SM, Olivier B, Garssen J, Kraneveld AD. Intestinal inflammation in a murine model of autism spectrum disorders. *Brain Behav Immun.* 2014 Mar;37:240–7. doi: 10.1016/j.bbi.2013.12.004. Epub 2013 Dec 7. PubMed PMID: 24321212.

312: Hsiao EY, McBride SW, Hsien S, Sharon G, Hyde ER, McCue T, Codelli JA, Chow J, Reisman SE, Petrosino JF, Patterson PH, Mazmanian SK. Microbiota modulate

behavioral and physiological abnormalities associated with neurodevelopmental disorders. *Cell*. 2013 Dec 19;155(7):1451–63. doi: 10.1016/j.cell.2013.11.024. Epub 2013 Dec 5. PubMed PMID: 24315484; PubMed Central PMCID: PMC3897394.

313: Peters B, Williams KC, Gorrindo P, Rosenberg D, Lee EB, Levitt P, Veenstra-VanderWeele J. Rigid-compulsive behaviors are associated with mixed bowel symptoms in autism spectrum disorder. *J Autism Dev Disord*. 2014 Jun;44(6):1425–32. doi: 10.1007/s10803-013-2009-2. PubMed PMID: 24293040; PubMed Central PMCID: PMC4024363.

314: Stilling RM, Dinan TG, Cryan JF. Microbial genes, brain & behaviour – epigenetic regulation of the gut-brain axis. *Genes Brain Behav*. 2014 Jan;13(1):69–86. doi: 10.1111/gbb.12109. Epub 2013 Dec 27. Review. PubMed PMID: 24286462.

315: de Theije CG, Bavelaar BM, Lopes da Silva S, Korte SM, Olivier B, Garssen J, Kraneveld AD. Food allergy and food-based therapies in neurodevelopmental disorders. *Pediatr Allergy Immunol*. 2014 May;25(3):218–26. doi: 10.1111/pai.12149. Epub 2013 Nov 17. Review. PubMed PMID: 24236934.

316: Berk M, Williams LJ, Jacka FN, O'Neil A, Pasco JA, Moylan S, Allen NB, Stuart AL, Hayley AC, Byrne ML, Maes M. So depression is an inflammatory disease, but where does the inflammation come from? *BMC Med*. 2013 Sep 12;11:200. doi: 10.1186/1741-7015-11-200. Review. PubMed PMID: 24228900; PubMed Central PMCID: PMC3846682.

317: Chaidez V, Hansen RL, Hertz-Picciotto I. Gastrointestinal problems in children with autism, developmental delays or typical development. *J Autism Dev Disord*. 2014 May;44(5):1117–27. doi: 10.1007/s10803-013-1973-x. PubMed PMID:

24193577; PubMed Central PMCID: PMC3981895.

318: Wang L, Christophersen CT, Sorich MJ, Gerber JP, Angley MT, Conlon MA.
Increased abundance of *Sutterella* spp. and *Ruminococcus torques* in feces of children with autism spectrum disorder. *Mol Autism*. 2013 Nov 4;4(1):42. doi: 10.1186/2040-2392-4-42. PubMed PMID: 24188502; PubMed Central PMCID: PMC3828002.

319: El-Ansary A, Shaker G, Siddiqi NJ, Al-Ayadhi LY. Possible ameliorative effects of antioxidants on propionic acid / clindamycin - induced neurotoxicity in Syrian hamsters. *Gut Pathog*. 2013 Nov 4;5(1):32. doi: 10.1186/1757-4749-5-32. PubMed PMID: 24188374; PubMed Central PMCID: PMC3828401.

320: Alanazi AS. The role of nutraceuticals in the management of autism. *Saudi Pharm J*. 2013 Jul;21(3):233-43. doi: 10.1016/j.jsps.2012.10.001. Epub 2012 Oct 23. Review. PubMed PMID: 24151428; PubMed Central PMCID: PMC3804964.

321: Pilarski R, Burt R, Kohlman W, Pho L, Shannon KM, Swisher E. Cowden syndrome and the PTEN hamartoma tumor syndrome: systematic review and revised diagnostic criteria. *J Natl Cancer Inst*. 2013 Nov 6;105(21):1607-16. doi: 10.1093/jnci/djt277. Epub 2013 Oct 17. Review. PubMed PMID: 24136893.

322: De Angelis M, Piccolo M, Vannini L, Siragusa S, De Giacomo A, Serrazanetti DI, Cristofori F, Guerzoni ME, Gobbetti M, Francavilla R. Fecal microbiota and metabolome of children with autism and pervasive developmental disorder not otherwise specified. *PLoS One*. 2013 Oct 9;8(10):e76993. doi: 10.1371/journal.pone.0076993. eCollection 2013. PubMed PMID: 24130822; PubMed Central PMCID: PMC3793965.

323: Kraneveld AD, de Theije CG, van Heesch F, Borre Y, de Kivit S,

Olivier B,
Korte M, Garssen J. The neuro-immune axis: prospect for novel treatments for mental disorders. *Basic Clin Pharmacol Toxicol*. 2014 Jan;114(1):128-36. doi: 10.1111/bcpt.12154. Epub 2013 Nov 7. Review. PubMed PMID: 24118847.

324: Mazefsky CA, Schreiber DR, Olin TM, Minshew NJ. The association between emotional and behavioral problems and gastrointestinal symptoms among children with high-functioning autism. *Autism*. 2014 Jul;18(5):493-501. doi: 10.1177/1362361313485164. Epub 2013 Oct 8. PubMed PMID: 24104507; PubMed Central PMCID: PMC3980202.

325: Unwin LM, Maybery MT, Wray JA, Whitehouse AJ. A "bottom-up" approach to aetiological research in autism spectrum disorders. *Front Hum Neurosci*. 2013 Sep 19;7:606. doi: 10.3389/fnhum.2013.00606. eCollection 2013. PubMed PMID: 24065914; PubMed Central PMCID: PMC3777013.

326: Carbone PS. Moving from research to practice in the primary care of children with autism spectrum disorders. *Acad Pediatr*. 2013 Sep-Oct;13(5):390-9. doi: 10.1016/j.acap.2013.04.003. Review. PubMed PMID: 24011743.

327: Naviaux RK. Metabolic features of the cell danger response. *Mitochondrion*. 2014 May;16:7-17. doi: 10.1016/j.mito.2013.08.006. Epub 2013 Aug 24. Review. PubMed PMID: 23981537.

328: Argyropoulos A, Gilby KL, Hill-Yardin EL. Studying autism in rodent models: reconciling endophenotypes with comorbidities. *Front Hum Neurosci*. 2013 Jul 25;7:417. doi: 10.3389/fnhum.2013.00417. eCollection 2013. PubMed PMID: 23898259; PubMed Central PMCID: PMC3722572.

329: Ramirez PL, Barnhill K, Gutierrez A, Schutte C, Hewitson L. Improvements in Behavioral Symptoms following Antibiotic Therapy in a 14-Year-Old Male with Autism. *Case Rep Psychiatry*. 2013;2013:239034. doi: 10.1155/2013/239034. Epub 2013 Jun 19. PubMed PMID: 23853732; PubMed Central PMCID: PMC3703886.

330: Gorrindo P, Lane CJ, Lee EB, McLaughlin B, Levitt P. Enrichment of elevated plasma F2t-isoprostane levels in individuals with autism who are stratified by presence of gastrointestinal dysfunction. *PLoS One*. 2013 Jul 3;8(7):e68444. doi: 10.1371/journal.pone.0068444. Print 2013. PubMed PMID: 23844202; PubMed Central PMCID: PMC3700867.

331: Kang DW, Park JG, Ilhan ZE, Wallstrom G, Labaer J, Adams JB, Krajmalnik-Brown R. Reduced incidence of *Prevotella* and other fermenters in intestinal microflora of autistic children. *PLoS One*. 2013 Jul 3;8(7):e68322. doi: 10.1371/journal.pone.0068322. Print 2013. PubMed PMID: 23844187; PubMed Central PMCID: PMC3700858.

332: Lau NM, Green PH, Taylor AK, Hellberg D, Ajamian M, Tan CZ, Kosofsky BE, Higgins JJ, Rajadhyaksha AM, Alaedini A. Markers of Celiac Disease and Gluten Sensitivity in Children with Autism. *PLoS One*. 2013 Jun 18;8(6):e66155. doi: 10.1371/journal.pone.0066155. Print 2013. PubMed PMID: 23823064; PubMed Central PMCID: PMC3688832.

333: Kawicka A, Regulska-Ilow B. How nutritional status, diet and dietary supplements can affect autism. A review. *Rocz Panstw Zakl Hig*. 2013;64(1):1-12. Review. PubMed PMID: 23789306.

334: Buie T. The relationship of autism and gluten. *Clin Ther*. 2013 May;35(5):578-83. doi: 10.1016/j.clinthera.2013.04.011. Review. PubMed

PMID:
23688532.

335: Whitehouse AJ. Complementary and alternative medicine for autism spectrum disorders: rationale, safety and efficacy. *J Paediatr Child Health*. 2013 Sep;49(9):E438–42:quiz E442. doi: 10.1111/jpc.12242. Epub 2013 May 20. Review. PubMed PMID: 23682728.

336: Adam MP, Hudgins L, Hannibal M. Kabuki Syndrome. 2011 Sep 1 [updated 2013 May 16]. In: Pagon RA, Adam MP, Ardinger HH, Wallace SE, Amemiya A, Bean LJH, Bird TD, Ledbetter N, Mefford HC, Smith RJH, Stephens K, editors. GeneReviews® [Internet]. Seattle (WA): University of Washington, Seattle; 1993–2017. Available from <http://www.ncbi.nlm.nih.gov/books/NBK62111/> PubMed PMID: 21882399.

337: Pequegnat B, Sagermann M, Valliani M, Toh M, Chow H, Allen–Vercoe E, Monteiro MA. A vaccine and diagnostic target for *Clostridium bolteae*, an autism-associated bacterium. *Vaccine*. 2013 Jun 10;31(26):2787–90. doi: 10.1016/j.vaccine.2013.04.018. Epub 2013 Apr 18. PubMed PMID: 23602537.

338: El–Ansary A, Shaker GH, El–Gezeery AR, Al–Ayadhi L. The neurotoxic effect of clindamycin – induced gut bacterial imbalance and orally administered propionic acid on DNA damage assessed by the comet assay: protective potency of carnosine and carnitine. *Gut Pathog*. 2013 Apr 12;5(1):9. doi: 10.1186/1757–4749–5–9. PubMed PMID: 23587115; PubMed Central PMCID: PMC3637143.

339: Wu HH, Levitt P. Prenatal expression of MET receptor tyrosine kinase in the fetal mouse dorsal raphe nuclei and the visceral motor/sensory brainstem. *Dev Neurosci*. 2013;35(1):1–16. doi: 10.1159/000346367. Epub 2013 Mar 20.

PubMed PMID:
23548689; PubMed Central PMCID: PMC3746026.

340: Zhou SS, Zhou YM, Li D, Ma Q. Early infant exposure to excess multivitamin: a risk factor for autism? *Autism Res Treat.* 2013;2013:963697. doi: 10.1155/2013/963697. Epub 2013 Mar 4. PubMed PMID: 23533752; PubMed Central PMCID: PMC3603653.

341: Kral TV, Eriksen WT, Souders MC, Pinto-Martin JA. Eating behaviors, diet quality, and gastrointestinal symptoms in children with autism spectrum disorders: a brief review. *J Pediatr Nurs.* 2013 Nov-Dec;28(6):548-56. doi: 10.1016/j.pedn.2013.01.008. Epub 2013 Mar 24. Review. PubMed PMID: 23531467.

342: Walker SJ, Fortunato J, Gonzalez LG, Krigsman A. Identification of unique gene expression profile in children with regressive autism spectrum disorder (ASD) and ileocolitis. *PLoS One.* 2013;8(3):e58058. doi: 10.1371/journal.pone.0058058. Epub 2013 Mar 8. PubMed PMID: 23520485; PubMed Central PMCID: PMC3592909.

343: Napolioni V, Ober-Reynolds B, Szelinger S, Corneveaux JJ, Pawlowski T, Ober-Reynolds S, Kirwan J, Persico AM, Melmed RD, Craig DW, Smith CJ, Huentelman MJ. Plasma cytokine profiling in sibling pairs discordant for autism spectrum disorder. *J Neuroinflammation.* 2013 Mar 14;10:38. doi: 10.1186/1742-2094-10-38. PubMed PMID: 23497090; PubMed Central PMCID: PMC3616926.

344: McDonald-McGinn DM, Emanuel BS, Zackai EH. 22q11.2 Deletion Syndrome. 1999 Sep 23 [updated 2013 Feb 28]. In: Pagon RA, Adam MP, Ardinger HH, Wallace SE, Amemiya A, Bean LJH, Bird TD, Ledbetter N, Mefford HC, Smith RJH, Stephens K, editors. *GeneReviews*® [Internet]. Seattle (WA): University of

Washington,
Seattle; 1993–2017. Available from <http://www.ncbi.nlm.nih.gov/books/NBK1523/>
PubMed PMID: 20301696.

345: Skotko BG, Davidson EJ, Weintraub GS. Contributions of a specialty clinic for children and adolescents with Down syndrome. *Am J Med Genet A*. 2013 Mar;161A(3):430–7. doi: 10.1002/ajmg.a.35795. Epub 2013 Feb 7. PubMed PMID: 23401090.

346: Douglas–Escobar M, Elliott E, Neu J. Effect of intestinal microbial ecology on the developing brain. *JAMA Pediatr*. 2013 Apr;167(4):374–9. doi: 10.1001/jamapediatrics.2013.497. Review. PubMed PMID: 23400224.

347: Geier DA, Kern JK, Geier MR. A prospective Cross–sectional Cohort Assessment of Health, Physical, and Behavioral Problems in Autism Spectrum Disorders. *Maedica (Buchar)*. 2012 Sep;7(3):193–200. PubMed PMID: 23400046; PubMed Central PMCID: PMC3566881.

348: Monro JA, Leon R, Puri BK. The risk of lead contamination in bone broth diets. *Med Hypotheses*. 2013 Apr;80(4):389–90. doi: 10.1016/j.mehy.2012.12.026. Epub 2013 Jan 31. PubMed PMID: 23375414.

349: Valicenti–McDermott M, Burrows B, Bernstein L, Hottinger K, Lawson K, Seijo R, Schechtman M, Shulman L, Shinnar S. Use of complementary and alternative medicine in children with autism and other developmental disabilities: associations with ethnicity, child comorbid symptoms, and parental stress. *J Child Neurol*. 2014 Mar;29(3):360–7. doi: 10.1177/0883073812474489. Epub 2013 Jan 30. PubMed PMID: 23372032.

350: Chandler S, Carcani–Rathwell I, Charman T, Pickles A, Loucas T,

Meldrum D,
Simonoff E, Sullivan P, Baird G. Parent-reported gastro-intestinal symptoms in children with autism spectrum disorders. *J Autism Dev Disord.* 2013 Dec;43(12):2737-47. doi: 10.1007/s10803-013-1768-0. PubMed PMID: 23371507.

351: Doherty ES, Lachawan FL. 2q37 Microdeletion Syndrome. 2007 May 3 [updated 2013 Jan 31]. In: Pagon RA, Adam MP, Ardinger HH, Wallace SE, Amemiya A, Bean LJH, Bird TD, Ledbetter N, Mefford HC, Smith RJH, Stephens K, editors. *GeneReviews®* [Internet]. Seattle (WA): University of Washington, Seattle; 1993-2017. Available from <http://www.ncbi.nlm.nih.gov/books/NBK1158/> PubMed PMID: 20301337.

352: Lees HJ, Swann JR, Wilson ID, Nicholson JK, Holmes E. Hippurate: the natural history of a mammalian-microbial cometabolite. *J Proteome Res.* 2013 Apr 5;12(4):1527-46. doi: 10.1021/pr300900b. Epub 2013 Mar 6. Review. PubMed PMID: 23342949.

353: Frye RE, Melnyk S, Macfabe DF. Unique acyl-carnitine profiles are potential biomarkers for acquired mitochondrial disease in autism spectrum disorder. *Transl Psychiatry.* 2013 Jan 22;3:e220. doi: 10.1038/tp.2012.143. PubMed PMID: 23340503; PubMed Central PMCID: PMC3566723.

354: Baganz NL, Blakely RD. A dialogue between the immune system and brain, spoken in the language of serotonin. *ACS Chem Neurosci.* 2013 Jan 16;4(1):48-63. doi: 10.1021/cn300186b. Epub 2012 Dec 7. Review. PubMed PMID: 23336044; PubMed Central PMCID: PMC3547518.

355: Whiteley P, Shattock P, Knivsberg AM, Seim A, Reichelt KL, Todd L, Carr K, Hooper M. Gluten- and casein-free dietary intervention for autism spectrum

conditions. *Front Hum Neurosci.* 2013 Jan 4;6:344. doi: 10.3389/fnhum.2012.00344.
eCollection 2012. PubMed PMID: 23316152; PubMed Central PMCID: PMC3540005.

356: Mulle JG, Sharp WG, Cubells JF. The gut microbiome: a new frontier in autism research. *Curr Psychiatry Rep.* 2013 Feb;15(2):337. doi: 10.1007/s11920-012-0337-0. Review. PubMed PMID: 23307560; PubMed Central PMCID: PMC3564498.

357: Heberling CA, Dhurjati PS, Sasser M. Hypothesis for a systems connectivity model of Autism Spectrum Disorder pathogenesis: links to gut bacteria, oxidative stress, and intestinal permeability. *Med Hypotheses.* 2013 Mar;80(3):264-70. doi: 10.1016/j.mehy.2012.11.044. Epub 2012 Dec 27. PubMed PMID: 23273906.

358: Sun C, Xia W, Zhao Y, Li N, Zhao D, Wu L. Nutritional status survey of children with autism and typically developing children aged 4-6 years in Heilongjiang Province, China. *J Nutr Sci.* 2013 Apr 29;2:e16. doi: 10.1017/jns.2013.9. eCollection 2013. PubMed PMID: 25191564; PubMed Central PMCID: PMC4153036.

359: Petrof EO, Claud EC, Gloor GB, Allen-Vercoe E. Microbial ecosystems therapeutics: a new paradigm in medicine? *Benef Microbes.* 2013 Mar 1;4(1):53-65. doi: 10.3920/BM2012.0039. Review. PubMed PMID: 23257018.

360: Severance EG, Kannan G, Gressitt KL, Xiao J, Alaedini A, Pletnikov MV, Yolken RH. Anti-gluten immune response following *Toxoplasma gondii* infection in mice. *PLoS One.* 2012;7(11):e50991. doi: 10.1371/journal.pone.0050991. Epub 2012 Nov 29. PubMed PMID: 23209841; PubMed Central PMCID: PMC3510169.

361: Perrin JM, Coury DL, Hyman SL, Cole L, Reynolds AM, Clemons T.

Complementary
and alternative medicine use in a large pediatric autism sample.
Pediatrics. 2012
Nov;130 Suppl 2:S77-82. doi: 10.1542/peds.2012-0900E. PubMed PMID:
23118257.

362: Coury DL, Anagnostou E, Manning-Courtney P, Reynolds A, Cole L,
McCoy R,
Whitaker A, Perrin JM. Use of psychotropic medication in children and
adolescents
with autism spectrum disorders. Pediatrics. 2012 Nov;130 Suppl
2:S69-76. doi:
10.1542/peds.2012-0900D. PubMed PMID: 23118256.

363: Coury DL, Ashwood P, Fasano A, Fuchs G, Geraghty M, Kaul A, Mawe
G,
Patterson P, Jones NE. Gastrointestinal conditions in children with
autism
spectrum disorder: developing a research agenda. Pediatrics. 2012 Nov;
130 Suppl
2:S160-8. doi: 10.1542/peds.2012-0900N. PubMed PMID: 23118247.

364: Harris C, Card B. A pilot study to evaluate nutritional
influences on
gastrointestinal symptoms and behavior patterns in children with
Autism Spectrum
Disorder. Complement Ther Med. 2012 Dec;20(6):437-40. doi:
10.1016/j.ctim.2012.08.004. Epub 2012 Sep 19. PubMed PMID: 23131376.

365: Ming X, Stein TP, Barnes V, Rhodes N, Guo L. Metabolic
perturbation in autism
spectrum disorders: a metabolomics study. J Proteome Res. 2012 Dec
7;11(12):5856-62. doi: 10.1021/pr300910n. Epub 2012 Nov 9. PubMed
PMID: 23106572.

366: Tóth ZE, Heinzlmann A, Hashimoto H, Köves K. Distribution of
secretin
receptors in the rat central nervous system: an in situ hybridization
study. J
Mol Neurosci. 2013 May;50(1):172-8. doi: 10.1007/s12031-012-9895-1.
Epub 2012 Oct
11. PubMed PMID: 23065333.

367: Breece E, Paciotti B, Nordahl CW, Ozonoff S, Van de Water JA,

Rogers SJ,
Amaral D, Ashwood P. Myeloid dendritic cells frequencies are increased
in
children with autism spectrum disorder and associated with amygdala
volume and
repetitive behaviors. *Brain Behav Immun*. 2013 Jul;31:69–75. doi:
10.1016/j.bbi.2012.10.006. Epub 2012 Oct 11. PubMed PMID: 23063420;
PubMed
Central PMCID: PMC4229011.

368: Randolph-Gips M, Srinivasan P. Modeling autism: a systems biology
approach.
J Clin Bioinforma. 2012 Oct 8;2(1):17. doi: 10.1186/2043-9113-2-17.
PubMed PMID:
23043674; PubMed Central PMCID: PMC3507704.

369: Aroniadis OC, Brandt LJ. Fecal microbiota transplantation: past,
present and
future. *Curr Opin Gastroenterol*. 2013 Jan;29(1):79–84. doi:
10.1097/MOG.0b013e32835a4b3e. Review. PubMed PMID: 23041678.

370: Burrus CJ. A biochemical rationale for the interaction between
gastrointestinal yeast and autism. *Med Hypotheses*. 2012 Dec;79(6):
784–5. doi:
10.1016/j.mehy.2012.08.029. Epub 2012 Sep 26. PubMed PMID: 23021572.

371: Gondalia SV, Palombo EA, Knowles SR, Cox SB, Meyer D, Austin DW.
Molecular
characterisation of gastrointestinal microbiota of children with
autism (with and
without gastrointestinal dysfunction) and their neurotypical siblings.
*Autism
Res*. 2012 Dec;5(6):419–27. doi: 10.1002/aur.1253. Epub 2012 Sep 20.
PubMed PMID:
22997101.

372: Mouridsen SE, Isager T, Rich B. Diseases of the gastrointestinal
tract in
individuals diagnosed as children with atypical autism: a Danish
register study
based on hospital diagnoses. *Autism*. 2013 Jan;17(1):55–63. doi:
10.1177/1362361312455110. Epub 2012 Sep 17. PubMed PMID: 22987890.

373: Persico AM, Napolioni V. Urinary p-cresol in autism spectrum

disorder.

Neurotoxicol Teratol. 2013 Mar-Apr;36:82-90. doi: 10.1016/j.ntt.2012.09.002. Epub 2012 Sep 10. Review. PubMed PMID: 22975621.

374: Guerin A, Stavropoulos DJ, Diab Y, Chénier S, Christensen H, Kahr WH, Babul-Hirji R, Chitayat D. Interstitial deletion of 11q-implicating the KIRREL3 gene in the neurocognitive delay associated with Jacobsen syndrome. Am J Med Genet A. 2012 Oct;158A(10):2551-6. doi: 10.1002/ajmg.a.35621. Epub 2012 Sep 10. PubMed PMID: 22965935.

375: Waly MI, Hornig M, Trivedi M, Hodgson N, Kini R, Ohta A, Deth R. Prenatal and Postnatal Epigenetic Programming: Implications for GI, Immune, and Neuronal Function in Autism. Autism Res Treat. 2012;2012:190930. doi: 10.1155/2012/190930. Epub 2012 Jun 19. PubMed PMID: 22934169; PubMed Central PMCID: PMC3420412.

376: Mazurek MO, Vasa RA, Kalb LG, Kanne SM, Rosenberg D, Keefer A, Murray DS, Freedman B, Lowery LA. Anxiety, sensory over-responsivity, and gastrointestinal problems in children with autism spectrum disorders. J Abnorm Child Psychol. 2013 Jan;41(1):165-76. doi: 10.1007/s10802-012-9668-x. PubMed PMID: 22850932.

377: Hsiao EY, McBride SW, Chow J, Mazmanian SK, Patterson PH. Modeling an autism risk factor in mice leads to permanent immune dysregulation. Proc Natl Acad Sci U S A. 2012 Jul 31;109(31):12776-81. doi: 10.1073/pnas.1202556109. Epub 2012 Jul 16. PubMed PMID: 22802640; PubMed Central PMCID: PMC3411999.

378: Thomas RH, Meeking MM, Mephram JR, Tichenoff L, Possmayer F, Liu S, MacFabe DF. The enteric bacterial metabolite propionic acid alters brain and plasma

phospholipid molecular species: further development of a rodent model of autism spectrum disorders. *J Neuroinflammation*. 2012 Jul 2;9:153. doi: 10.1186/1742-2094-9-153. PubMed PMID: 22747852; PubMed Central PMCID: PMC3472254.

379: Angelidou A, Asadi S, Alysandratos KD, Karagkouni A, Kourembanas S, Theoharides TC. Perinatal stress, brain inflammation and risk of autism-review and proposal. *BMC Pediatr*. 2012 Jul 2;12:89. doi: 10.1186/1471-2431-12-89. Review. PubMed PMID: 22747567; PubMed Central PMCID: PMC3496584.

380: Louis P. Does the human gut microbiota contribute to the etiology of autism spectrum disorders? *Dig Dis Sci*. 2012 Aug;57(8):1987-9. doi: 10.1007/s10620-012-2286-1. PubMed PMID: 22736019.

381: Theoharides TC, Asadi S, Panagiotidou S. A case series of a luteolin formulation (NeuroProtek®) in children with autism spectrum disorders. *Int J Immunopathol Pharmacol*. 2012 Apr-Jun;25(2):317-23. PubMed PMID: 22697063.

382: Betalli P, Carretto E, Cananzi M, Zanatta L, Salvador R, Galeazzi F, Guariso G, Gamba P, Costantini M. Autism and esophageal achalasia in childhood: a possible correlation? Report on three cases. *Dis Esophagus*. 2013 Apr;26(3):237-40. doi: 10.1111/j.1442-2050.2012.01358.x. Epub 2012 May 18. PubMed PMID: 22607127.

383: Pennesi CM, Klein LC. Effectiveness of the gluten-free, casein-free diet for children diagnosed with autism spectrum disorder: based on parental report. *Nutr Neurosci*. 2012 Mar;15(2):85-91. doi: 10.1179/1476830512Y.0000000003. PubMed PMID: 22564339.

384: Wang L, Christophersen CT, Sorich MJ, Gerber JP, Angley MT,

Conlon MA.

Elevated fecal short chain fatty acid and ammonia concentrations in children with autism spectrum disorder. *Dig Dis Sci.* 2012 Aug;57(8):2096-102. doi: 10.1007/s10620-012-2167-7. Epub 2012 Apr 26. PubMed PMID: 22535281.

385: El-Ansary AK, Ben Bacha A, Kotb M. Etiology of autistic features: the persisting neurotoxic effects of propionic acid. *J Neuroinflammation.* 2012 Apr 24;9:74. doi: 10.1186/1742-2094-9-74. PubMed PMID: 22531301; PubMed Central PMCID: PMC3425128.

386: Souza NC, Mendonca JN, Portari GV, Jordao Junior AA, Marchini JS, Chiarello PG. Intestinal permeability and nutritional status in developmental disorders. *Altern Ther Health Med.* 2012 Mar-Apr;18(2):19-24. Erratum in: *Altern Ther Health Med.* 2012 Nov-Dec;18(6):79. PubMed PMID: 22516881.

387: Williams K, Wray JA, Wheeler DM. Intravenous secretin for autism spectrum disorders (ASD). *Cochrane Database Syst Rev.* 2012 Apr 18;(4):CD003495. doi: 10.1002/14651858.CD003495.pub3. Review. PubMed PMID: 22513913.

388: Gorrindo P, Williams KC, Lee EB, Walker LS, McGrew SG, Levitt P. Gastrointestinal dysfunction in autism: parental report, clinical evaluation, and associated factors. *Autism Res.* 2012 Apr;5(2):101-8. doi: 10.1002/aur.237. PubMed PMID: 22511450; PubMed Central PMCID: PMC3335766.

389: Venkat A, Jauch E, Russell WS, Crist CR, Farrell R. Care of the patient with an autism spectrum disorder by the general physician. *Postgrad Med J.* 2012 Aug;88(1042):472-81. doi: 10.1136/postgradmedj-2011-130727. Epub 2012 Mar 16. Review. PubMed PMID: 22427366.

390: Schendel DE, Diguseppi C, Croen LA, Fallin MD, Reed PL, Schieve

LA, Wiggins
LD, Daniels J, Grether J, Levy SE, Miller L, Newschaffer C, Pinto-
Martin J,
Robinson C, Windham GC, Alexander A, Aylsworth AS, Bernal P, Bonner
JD, Blaskey
L, Bradley C, Collins J, Ferretti CJ, Farzadegan H, Giarelli E, Harvey
M, Hepburn
S, Herr M, Kaparich K, Landa R, Lee LC, Levenseller B, Meyerer S,
Rahbar MH,
Ratchford A, Reynolds A, Rosenberg S, Rusyniak J, Shapira SK, Smith K,
Souders M,
Thompson PA, Young L, Yeargin-Allsopp M. The Study to Explore Early
Development
(SEED): a multisite epidemiologic study of autism by the Centers for
Autism and
Developmental Disabilities Research and Epidemiology (CADDRE) network.
J Autism
Dev Disord. 2012 Oct;42(10):2121-40. PubMed PMID: 22350336; PubMed
Central PMCID:
PMC4455890.

391: Benach JL, Li E, McGovern MM. A microbial association with
autism. MBio.
2012 Feb 14;3(1). pii: e00019-12. doi: 10.1128/mBio.00019-12. Print
2012. PubMed
PMID: 22334515; PubMed Central PMCID: PMC3280447.

392: Clayton TA. Metabolic differences underlying two distinct rat
urinary
phenotypes, a suggested role for gut microbial metabolism of
phenylalanine and a
possible connection to autism. FEBS Lett. 2012 Apr 5;586(7):956-61.
doi:
10.1016/j.febslet.2012.01.049. Epub 2012 Feb 1. PubMed PMID: 22306194.

393: Lo SY. Diagnosis, treatment and prevention of autism via meridian
theory. Am
J Chin Med. 2012;40(1):39-56. PubMed PMID: 22298447.

394: Olivié H. The medical care of children with autism. Eur J
Pediatr. 2012
May;171(5):741-9. doi: 10.1007/s00431-011-1669-1. Epub 2012 Jan 18.
Review.
PubMed PMID: 22249651.

395: Williams BL, Hornig M, Parekh T, Lipkin WI. Application of novel PCR-based methods for detection, quantitation, and phylogenetic characterization of *Sutterella* species in intestinal biopsy samples from children with autism and gastrointestinal disturbances. *MBio*. 2012 Jan 10;3(1). pii: e00261-11. doi: 10.1128/mBio.00261-11. Print 2012. PubMed PMID: 22233678; PubMed Central PMCID: PMC3252763.

396: Jyonouchi H, Geng L, Streck DL, Toruner GA. Immunological characterization and transcription profiling of peripheral blood (PB) monocytes in children with autism spectrum disorders (ASD) and specific polysaccharide antibody deficiency (SPAD): case study. *J Neuroinflammation*. 2012 Jan 7;9:4. doi: 10.1186/1742-2094-9-4. PubMed PMID: 22226452; PubMed Central PMCID: PMC3275444.

397: Hugdahl K, Beyer MK, Brix M, Erslund L. Autism spectrum disorder, functional MRI and MR spectroscopy: possibilities and challenges. *Microb Ecol Health Dis*. 2012 Aug 24;23. doi: 10.3402/mehd.v23i0.18960. eCollection 2012. PubMed PMID: 23990828; PubMed Central PMCID: PMC3747752.

398: Midtvedt T. Editorial: The gut and the brain – with focus on autism spectrum disorders. *Microb Ecol Health Dis*. 2012 Aug 24;23. doi: 10.3402/mehd.v23i0.18984. eCollection 2012. PubMed PMID: 23990825; PubMed Central PMCID: PMC3747749.

399: Midtvedt T. The gut: a triggering place for autism – possibilities and challenges. *Microb Ecol Health Dis*. 2012 Aug 24;23. doi: 10.3402/mehd.v23i0.18982. eCollection 2012. PubMed PMID: 23990818; PubMed Central PMCID: PMC3747739.

400: Macfabe DF. Short-chain fatty acid fermentation products of the

gut

microbiome: implications in autism spectrum disorders. *Microb Ecol Health Dis.*

2012 Aug 24;23. doi: 10.3402/mehd.v23i0.19260. eCollection 2012.

PubMed PMID:

23990817; PubMed Central PMCID: PMC3747729.

401: Iebba V, Aloï M, Civitelli F, Cucchiara S. Gut microbiota and pediatric

disease. *Dig Dis.* 2011;29(6):531-9. doi: 10.1159/000332969. Epub 2011 Dec 12.

Review. Retraction in: *Dig Dis.* 2014;32(3):313. PubMed PMID: 22179208.

402: Erickson CA, Early M, Stigler KA, Wink LK, Mullett JE, McDougle CJ. An

open-label naturalistic pilot study of acamprosate in youth with autistic

disorder. *J Child Adolesc Psychopharmacol.* 2011 Dec;21(6):565-9. doi: 10.1089/cap.2011.0034. Epub 2011 Dec 2. PubMed PMID: 22136091; PubMed Central

PMCID: PMC3243460.

403: Critchfield JW, van Hemert S, Ash M, Mulder L, Ashwood P. The potential role

of probiotics in the management of childhood autism spectrum disorders.

Gastroenterol Res Pract. 2011;2011:161358. doi: 10.1155/2011/161358. Epub 2011

Oct 26. PubMed PMID: 22114588; PubMed Central PMCID: PMC3205659.

404: Al-Yafee YA, Al-Ayadhi LY, Haq SH, El-Ansary AK. Novel metabolic biomarkers

related to sulfur-dependent detoxification pathways in autistic patients of Saudi

Arabia. *BMC Neurol.* 2011 Nov 4;11:139. doi: 10.1186/1471-2377-11-139. PubMed

PMID: 22051046; PubMed Central PMCID: PMC3217885.

405: Liu SQ, Lei P, Lv Y, Wang SP, Yan XP, Ma HJ, Ma J. [Systematic review of

gastrointestinal injury caused by magnetic foreign body ingestions in children

and adolescence]. *Zhonghua Wei Chang Wai Ke Za Zhi.* 2011 Oct;14(10):756-61.

Review. Chinese. PubMed PMID: 22030770.

406: Wang L, Angley MT, Gerber JP, Sorich MJ. A review of candidate urinary biomarkers for autism spectrum disorder. *Biomarkers*. 2011 Nov;16(7):537-52. doi: 10.3109/1354750X.2011.598564. Review. PubMed PMID: 22022826.

407: Maenner MJ, Arneson CL, Levy SE, Kirby RS, Nicholas JS, Durkin MS. Brief report: Association between behavioral features and gastrointestinal problems among children with autism spectrum disorder. *J Autism Dev Disord*. 2012 Jul;42(7):1520-5. doi: 10.1007/s10803-011-1379-6. PubMed PMID: 22012246.

408: Toth K, Stobbe G. Diagnosis of autism spectrum disorders. *Pediatr Ann*. 2011 Oct;40(10):488-92. doi: 10.3928/00904481-20110914-05. PubMed PMID: 21973040.

409: Williams BL, Hornig M, Buie T, Bauman ML, Cho Paik M, Wick I, Bennett A, Jabado O, Hirschberg DL, Lipkin WI. Impaired carbohydrate digestion and transport and mucosal dysbiosis in the intestines of children with autism and gastrointestinal disturbances. *PLoS One*. 2011;6(9):e24585. doi: 10.1371/journal.pone.0024585. Epub 2011 Sep 16. PubMed PMID: 21949732; PubMed Central PMCID: PMC3174969.

410: Good P. Do salt cravings in children with autistic disorders reveal low blood sodium depleting brain taurine and glutamine? *Med Hypotheses*. 2011 Dec;77(6):1015-21. doi: 10.1016/j.mehy.2011.08.038. Epub 2011 Sep 16. PubMed PMID: 21925797.

411: Hills JI, Golub MS, Bettendorff L, Keen CL. The effect of thiamin tetrahydrofurfuryl disulfide on behavior of juvenile DBA/2J mice. *Neurotoxicol Teratol*. 2012 Mar;34(2):242-52. doi: 10.1016/j.ntt.2011.07.006. Epub 2011 Jul 24.

PubMed PMID: 21816221.

412: de Theije CG, Wu J, da Silva SL, Kamphuis PJ, Garssen J, Korte SM, Kraneveld AD. Pathways underlying the gut-to-brain connection in autism spectrum disorders as future targets for disease management. *Eur J Pharmacol.* 2011 Sep; 668 Suppl 1:S70-80. doi: 10.1016/j.ejphar.2011.07.013. Epub 2011 Jul 27. Review. PubMed PMID: 21810417.

413: Jyonouchi H, Geng L, Streck DL, Toruner GA. Children with autism spectrum disorders (ASD) who exhibit chronic gastrointestinal (GI) symptoms and marked fluctuation of behavioral symptoms exhibit distinct innate immune abnormalities and transcriptional profiles of peripheral blood (PB) monocytes. *J Neuroimmunol.* 2011 Sep 15;238(1-2):73-80. doi: 10.1016/j.jneuroim.2011.07.001. Epub 2011 Jul 30. PubMed PMID: 21803429.

414: Wang L, Christophersen CT, Sorich MJ, Gerber JP, Angley MT, Conlon MA. Low relative abundances of the mucolytic bacterium *Akkermansia muciniphila* and *Bifidobacterium* spp. in feces of children with autism. *Appl Environ Microbiol.* 2011 Sep;77(18):6718-21. doi: 10.1128/AEM.05212-11. Epub 2011 Jul 22. PubMed PMID: 21784919; PubMed Central PMCID: PMC3187122.

415: Brown AC, Mehl-Madrona L. Autoimmune and gastrointestinal dysfunctions: does a subset of children with autism reveal a broader connection? *Expert Rev Gastroenterol Hepatol.* 2011 Aug;5(4):465-77. doi: 10.1586/egh.11.46. Review. PubMed PMID: 21780894.

416: Finegold SM. *Desulfovibrio* species are potentially important in regressive autism. *Med Hypotheses.* 2011 Aug;77(2):270-4. doi: 10.1016/j.mehy.

2011.04.032.
Epub 2011 May 17. PubMed PMID: 21592674.

417: Matisz CE, McDougall JJ, Sharkey KA, McKay DM. Helminth parasites and the modulation of joint inflammation. *J Parasitol Res.* 2011;2011:942616. doi: 10.1155/2011/942616. Epub 2011 Apr 18. PubMed PMID: 21584243; PubMed Central PMCID: PMC3092582.

418: Wang LW, Tancredi DJ, Thomas DW. The prevalence of gastrointestinal problems in children across the United States with autism spectrum disorders from families with multiple affected members. *J Dev Behav Pediatr.* 2011 Jun;32(5):351-60. doi: 10.1097/DBP.0b013e31821bd06a. PubMed PMID: 21555957.

419: Finegold SM. State of the art; microbiology in health and disease. Intestinal bacterial flora in autism. *Anaerobe.* 2011 Dec;17(6):367-8. doi: 10.1016/j.anaerobe.2011.03.007. Epub 2011 Apr 16. PubMed PMID: 21524713.

420: Gonzalez A, Stombaugh J, Lozupone C, Turnbaugh PJ, Gordon JI, Knight R. The mind-body-microbial continuum. *Dialogues Clin Neurosci.* 2011;13(1):55-62. PubMed PMID: 21485746; PubMed Central PMCID: PMC3139398.

421: Patterson PH. Maternal infection and immune involvement in autism. *Trends Mol Med.* 2011 Jul;17(7):389-94. doi: 10.1016/j.molmed.2011.03.001. Epub 2011 Apr 7. Review. PubMed PMID: 21482187; PubMed Central PMCID: PMC3135697.

422: Whitehouse AJ, Maybery M, Wray JA, Hickey M. No association between early gastrointestinal problems and autistic-like traits in the general population. *Dev Med Child Neurol.* 2011 May;53(5):457-62. doi: 10.1111/j.1469-8749.2011.03915.x.

Epub 2011 Mar 21. PubMed PMID: 21418197.

423: Adams JB, Johansen LJ, Powell LD, Quig D, Rubin RA. Gastrointestinal flora and gastrointestinal status in children with autism--comparisons to typical children and correlation with autism severity. *BMC Gastroenterol.* 2011 Mar 16;11:22. doi: 10.1186/1471-230X-11-22. PubMed PMID: 21410934; PubMed Central PMCID: PMC3072352.

424: King CR. A novel embryological theory of autism causation involving endogenous biochemicals capable of initiating cellular gene transcription: a possible link between twelve autism risk factors and the autism 'epidemic'. *Med Hypotheses.* 2011 May;76(5):653-60. doi: 10.1016/j.mehy.2011.01.024. Epub 2011 Mar 8. PubMed PMID: 21388746.

425: Schnohr CW. [The gastrointestinal system's association with autism]. *Ugeskr Laeger.* 2011 Feb 21;173(8):581-3. Danish. PubMed PMID: 21333259.

426: Altieri L, Neri C, Sacco R, Curatolo P, Benvenuto A, Muratori F, Santocchi E, Bravaccio C, Lenti C, Sacconi M, Rigardetto R, Gandione M, Urbani A, Persico AM. Urinary p-cresol is elevated in small children with severe autism spectrum disorder. *Biomarkers.* 2011 May;16(3):252-60. doi: 10.3109/1354750X.2010.548010. Epub 2011 Feb 18. PubMed PMID: 21329489.

427: Ratajczak HV. Theoretical aspects of autism: biomarkers--a review. *J Immunotoxicol.* 2011 Jan-Mar;8(1):80-94. doi: 10.3109/1547691X.2010.538749. Review. PubMed PMID: 21299356.

428: Chen B, Girgis S, Elmasry M, El-Matary W. Abnormal Gastrointestinal

Histopathology in Children With Autism Spectrum Disorders. *J Pediatr Gastroenterol Nutr.* 2011 Feb 2. [Epub ahead of print] PubMed PMID: 21297509.

429: Frye RE, Rossignol DA. Mitochondrial dysfunction can connect the diverse medical symptoms associated with autism spectrum disorders. *Pediatr Res.* 2011 May;69(5 Pt 2):41R-7R. doi: 10.1203/PDR.0b013e318212f16b. Review. PubMed PMID: 21289536; PubMed Central PMCID: PMC3179978.

430: Rossignol DA, Frye RE. Mitochondrial dysfunction in autism spectrum disorders: a systematic review and meta-analysis. *Mol Psychiatry.* 2012 Mar;17(3):290-314. doi: 10.1038/mp.2010.136. Epub 2011 Jan 25. Review. PubMed PMID: 21263444; PubMed Central PMCID: PMC3285768.

431: Angelidou A, Alysandratos KD, Asadi S, Zhang B, Francis K, Vasiadi M, Kalogeromitros D, Theoharides TC. Brief report: "allergic symptoms" in children with Autism Spectrum Disorders. More than meets the eye? *J Autism Dev Disord.* 2011 Nov;41(11):1579-85. doi: 10.1007/s10803-010-1171-z. Review. PubMed PMID: 21210299.

432: Theoharides TC, Angelidou A, Alysandratos KD, Zhang B, Asadi S, Francis K, Toniato E, Kalogeromitros D. Mast cell activation and autism. *Biochim Biophys Acta.* 2012 Jan;1822(1):34-41. doi: 10.1016/j.bbadis.2010.12.017. Epub 2010 Dec 28. Review. PubMed PMID: 21193035.

433: Belotto KC, Raposo NR, Ferreira AS, Gattaz WF. Relative bioavailability of two oral formulations of risperidone 2 mg: A single-dose, randomized-sequence, open-label, two-period crossover comparison in healthy Brazilian volunteers. *Clin Ther.* 2010 Nov;32(12):2106-15. doi: 10.1016/j.clinthera.2010.11.006. PubMed PMID:

21118746.

434: Ekiel A, Aptekorz M, Kazek B, Wiechuła B, Wilk I, Martirosian G. [Intestinal microflora of autistic children]. *Med Dosw Mikrobiol.* 2010;62(3): 237-43. Polish. PubMed PMID: 21114016.

435: Godzien J, Ciborowski M, Angulo S, Ruperez FJ, Martínez MP, Señorans FJ, Cifuentes A, Ibañez E, Barbas C. Metabolomic approach with LC-QTOF to study the effect of a nutraceutical treatment on urine of diabetic rats. *J Proteome Res.* 2011 Feb 4;10(2):837-44. doi: 10.1021/pr100993x. Epub 2010 Dec 20. PubMed PMID: 21087057.

436: MacFabe DF, Cain NE, Boon F, Ossenkopp KP, Cain DP. Effects of the enteric bacterial metabolic product propionic acid on object-directed behavior, social behavior, cognition, and neuroinflammation in adolescent rats: Relevance to autism spectrum disorder. *Behav Brain Res.* 2011 Feb 2;217(1):47-54. doi: 10.1016/j.bbr.2010.10.005. Epub 2010 Oct 16. PubMed PMID: 20937326.

437: Pang KH, Croaker GD. Constipation in children with autism and autistic spectrum disorder. *Pediatr Surg Int.* 2011 Apr;27(4):353-8. doi: 10.1007/s00383-010-2680-8. Epub 2010 Aug 10. PubMed PMID: 20697898.

438: de Magistris L, Familiari V, Pascotto A, Sapone A, Frolli A, Iardino P, Carteni M, De Rosa M, Francavilla R, Riegler G, Militerni R, Bravaccio C. Alterations of the intestinal barrier in patients with autism spectrum disorders and in their first-degree relatives. *J Pediatr Gastroenterol Nutr.* 2010 Oct;51(4):418-24. doi: 10.1097/MPG.0b013e3181dcc4a5. PubMed PMID: 20683204.

439: Rada RE. Controversial issues in treating the dental patient with autism. *J Am Dent Assoc.* 2010 Aug;141(8):947-53. Review. PubMed PMID: 20675420.

440: Bauman ML. Medical comorbidities in autism: challenges to diagnosis and treatment. *Neurotherapeutics.* 2010 Jul;7(3):320-7. doi: 10.1016/j.nurt.2010.06.001. Review. PubMed PMID: 20643385; PubMed Central PMCID: PMC5084236.

441: Turlejski K. Focus on autism. *Acta Neurobiol Exp (Wars).* 2010;70(2):117-8. PubMed PMID: 20642023.

442: White CM, Ji S, Cai H, Maudsley S, Martin B. Therapeutic potential of vasoactive intestinal peptide and its receptors in neurological disorders. *CNS Neurol Disord Drug Targets.* 2010 Nov;9(5):661-6. Review. PubMed PMID: 20632962; PubMed Central PMCID: PMC2967653.

443: Kazek B, Huzarska M, Grzybowska-Chlebowczyk U, Kajor M, Ciupińska-Kajor M, Woś H, Marszał E. Platelet and intestinal 5-HT_{2A} receptor mRNA in autistic spectrum disorders – results of a pilot study. *Acta Neurobiol Exp (Wars).* 2010;70(2):232-8. Erratum in: *Acta Neurobiol Exp (Wars).* 2010;70(4):468. PubMed PMID: 20628446.

444: Cubala-Kucharska M. The review of most frequently occurring medical disorders related to aetiology of autism and the methods of treatment. *Acta Neurobiol Exp (Wars).* 2010;70(2):141-6. Review. PubMed PMID: 20628438.

445: Jarocka-Cyrta E, Wasilewska J, Kaczmarek MG. Eosinophilic esophagitis as a cause of feeding problems in autistic boy. The first reported case. *J Autism Dev Disord.* 2011 Mar;41(3):372-4. doi: 10.1007/s10803-010-1059-y. PubMed

PMID:
20625807.

446: Scarpinato N, Bradley J, Kurbjun K, Bateman X, Holtzer B, Ely B. Caring for the child with an autism spectrum disorder in the acute care setting. *J Spec Pediatr Nurs.* 2010 Jul;15(3):244–54. doi: 10.1111/j.1744–6155.2010.00244.x. Review. PubMed PMID: 20618639.

447: Finegold SM, Dowd SE, Gontcharova V, Liu C, Henley KE, Wolcott RD, Youn E, Summanen PH, Granpeesheh D, Dixon D, Liu M, Molitoris DR, Green JA 3rd. Pyrosequencing study of fecal microflora of autistic and control children. *Anaerobe.* 2010 Aug;16(4):444–53. doi: 10.1016/j.anaerobe.2010.06.008. Epub 2010 Jul 9. PubMed PMID: 20603222.

448: Autism spectrum disorders and the gut. Consensus recommendations for evaluation and treatment. *Harv Ment Health Lett.* 2010 Apr;26(10):4. PubMed PMID: 20499455.

449: George M, Heeney MM, Woolf AD. Encephalopathy from lead poisoning masquerading as a flu-like syndrome in an autistic child. *Pediatr Emerg Care.* 2010 May;26(5):370–3. doi: 10.1097/PEC.0b013e3181db2237. PubMed PMID: 20453792.

450: Shaw W. Increased urinary excretion of a 3-(3-hydroxyphenyl)-3-hydroxypropionic acid (HPPA), an abnormal phenylalanine metabolite of *Clostridia* spp. in the gastrointestinal tract, in urine samples from patients with autism and schizophrenia. *Nutr Neurosci.* 2010 Jun;13(3):135–43. doi: 10.1179/147683010X12611460763968. PubMed PMID: 20423563.

451: Xia W, Zhou Y, Sun C, Wang J, Wu L. A preliminary study on nutritional

status and intake in Chinese children with autism. Eur J Pediatr. 2010 Oct;169(10):1201-6. doi: 10.1007/s00431-010-1203-x. Epub 2010 Apr 27. PubMed PMID: 20422215.

452: Rashid F, Davies L, Iftikhar SY. Magnetised intragastric foreign body collection and autism: An advice for carers and literature review. Autism. 2010 Mar;14(2):139-45. doi: 10.1177/1362361309356858. Review. PubMed PMID: 20395283.

453: Sarachana T, Zhou R, Chen G, Manji HK, Hu VW. Investigation of post-transcriptional gene regulatory networks associated with autism spectrum disorders by microRNA expression profiling of lymphoblastoid cell lines. Genome Med. 2010 Apr 7;2(4):23. doi: 10.1186/gm144. PubMed PMID: 20374639; PubMed Central PMCID: PMC2873801.

454: Bradstreet JJ, Smith S, Baral M, Rossignol DA. Biomarker-guided interventions of clinically relevant conditions associated with autism spectrum disorders and attention deficit hyperactivity disorder. Altern Med Rev. 2010 Apr;15(1):15-32. Review. PubMed PMID: 20359266.

455: Ahearn WH. What Every Behavior Analyst Should Know About the "MMR Causes Autism" Hypothesis. Behav Anal Pract. 2010 Spring;3(1):46-50. PubMed PMID: 22479671; PubMed Central PMCID: PMC3004684.

456: Brown A, Chow D, Murakami S, Goh W, Perreira A, Kwee S, Sil P, Leroy M. Possible gastrointestinal symptoms in a subset of children with autism. Expert Rev Gastroenterol Hepatol. 2010 Apr;4(2):125-7. doi: 10.1586/egh.10.17. PubMed PMID: 20350258.

457: Yap IK, Angley M, Veselkov KA, Holmes E, Lindon JC, Nicholson JK. Urinary

metabolic phenotyping differentiates children with autism from their unaffected siblings and age-matched controls. *J Proteome Res.* 2010 Jun 4;9(6):2996-3004. doi: 10.1021/pr901188e. PubMed PMID: 20337404.

458: Munasinghe SA, Oliff C, Finn J, Wray JA. Digestive enzyme supplementation for autism spectrum disorders: a double-blind randomized controlled trial. *J Autism Dev Disord.* 2010 Sep;40(9):1131-8. doi: 10.1007/s10803-010-0974-2. PubMed PMID: 20204691.

459: Carbone PS, Farley M, Davis T. Primary care for children with autism. *Am Fam Physician.* 2010 Feb 15;81(4):453-60. PubMed PMID: 20148499.

460: Martirosian G. [Clostridium spp. spores in pathomechanism of autism]. *Wiad Lek.* 2009;62(2):119-22. Review. Polish. PubMed PMID: 20141061.

461: Buie T, Fuchs GJ 3rd, Furuta GT, Kooros K, Levy J, Lewis JD, Wershil BK, Winter H. Recommendations for evaluation and treatment of common gastrointestinal problems in children with ASDs. *Pediatrics.* 2010 Jan;125 Suppl 1:S19-29. doi: 10.1542/peds.2009-1878D. PubMed PMID: 20048084.

462: Buie T, Campbell DB, Fuchs GJ 3rd, Furuta GT, Levy J, Vandewater J, Whitaker AH, Atkins D, Bauman ML, Beaudet AL, Carr EG, Gershon MD, Hyman SL, Jirapinyo P, Jyonouchi H, Kooros K, Kushak R, Levitt P, Levy SE, Lewis JD, Murray KF, Natowicz MR, Sabra A, Wershil BK, Weston SC, Zeltzer L, Winter H. Evaluation, diagnosis, and treatment of gastrointestinal disorders in individuals with ASDs: a consensus report. *Pediatrics.* 2010 Jan;125 Suppl 1:S1-18. doi: 10.1542/peds.2009-1878C. PubMed PMID: 20048083.

463: Coury D. Medical treatment of autism spectrum disorders. *Curr Opin Neurol*. 2010 Apr;23(2):131-6. doi: 10.1097/WCO.0b013e32833722fa. Review. PubMed PMID: 20087181.

464: Theoharides TC. Autism spectrum disorders and mastocytosis. *Int J Immunopathol Pharmacol*. 2009 Oct-Dec;22(4):859-65. PubMed PMID: 20074449.

465: Chen B, Girgis S, El-Matary W. Childhood autism and eosinophilic colitis. *Digestion*. 2010;81(2):127-9. doi: 10.1159/000252765. Epub 2010 Jan 9. PubMed PMID: 20068312.

466: Russo AJ, Krigsman A, Jepson B, Wakefield A. Decreased Serum Hepatocyte Growth Factor (HGF) in Autistic Children with Severe Gastrointestinal Disease. *Biomark Insights*. 2009 Nov 27;4:181-90. PubMed PMID: 20029653; PubMed Central PMCID: PMC2796865.

467: Mulder EJ, Anderson GM, Kemperman RF, Oosterloo-Duinkerken A, Minderaa RB, Kema IP. Urinary excretion of 5-hydroxyindoleacetic acid, serotonin and 6-sulphatoxymelatonin in normoserotonemic and hyperserotonemic autistic individuals. *Neuropsychobiology*. 2010;61(1):27-32. doi: 10.1159/000258640. Epub 2009 Nov 13. PubMed PMID: 19923863.

468: Reichelt KL, Knivsberg AM. The possibility and probability of a gut-to-brain connection in autism. *Ann Clin Psychiatry*. 2009 Oct-Dec;21(4):205-11. Review. PubMed PMID: 19917211.

469: Mouridsen SE, Rich B, Isager T. A longitudinal study of gastrointestinal diseases in individuals diagnosed with infantile autism as children. *Child Care*

Health Dev. 2010 May;36(3):437-43. doi: 10.1111/j.1365-2214.2009.01021.x. Epub 2009 Nov 2. PubMed PMID: 19886906.

470: Henney HR 3rd, Chez M. Pediatric safety of tizanidine: clinical adverse event database and retrospective chart assessment. Paediatr Drugs. 2009;11(6):397-406. doi: 10.2165/11316090-000000000-00000. PubMed PMID: 19877725.

471: Genuis SJ. Is autism reversible? Acta Paediatr. 2009 Oct;98(10):1575-8. doi: 10.1111/j.1651-2227.2009.01495.x. PubMed PMID: 19843021.

472: Cook EH Jr. Literature review: gastrointestinal symptoms in ASD, brain structure of identical twins with ASD. Autism Res. 2009 Oct;2(5):285-6. doi: 10.1002/aur.95. Review. PubMed PMID: 19839058.

473: Coury D, Jones NE, Klatka K, Winklosky B, Perrin JM. Healthcare for children with autism: the Autism Treatment Network. Curr Opin Pediatr. 2009 Dec;21(6):828-32. doi: 10.1097/MOP.0b013e328331eaaa. Review. PubMed PMID: 19745738.

474: Wang L, Angley MT, Gerber JP, Young RL, Abarno DV, McKinnon RA, Sorich MJ. Is urinary indolyl-3-acryloylglycine a biomarker for autism with gastrointestinal symptoms? Biomarkers. 2009 Dec;14(8):596-603. doi: 10.3109/13547500903183962. PubMed PMID: 19697973.

475: Chapter MC, White CM, DeRidder A, Chadwick W, Martin B, Maudsley S. Chemical modification of class II G protein-coupled receptor ligands: frontiers in the development of peptide analogs as neuroendocrine pharmacological therapies. Pharmacol Ther. 2010 Jan;125(1):39-54. doi: 10.1016/j.pharmthera.2009.07.006. Epub 2009 Aug 15. Review. PubMed PMID: 19686775; PubMed Central PMCID:

PMC2815023.

476: Listernick R. An 8-year-old girl with kidney failure. *Pediatr Ann.* 2009 Jul;38(7):355-8. PubMed PMID: 19685653.

477: Hsu CL, Lin CY, Chen CL, Wang CM, Wong MK. The effects of a gluten and casein-free diet in children with autism: a case report. *Chang Gung Med J.* 2009 Jul-Aug;32(4):459-65. PubMed PMID: 19664354.

478: Russo AJ, Neville L, Wroge C. Low Serum Alpha-1 Antitrypsin (AAT) in Family Members of Individuals with Autism Correlates with PiMZ Genotype. *Biomark Insights.* 2009 Mar 18;4:45-56. PubMed PMID: 19652762; PubMed Central PMCID: PMC2716675.

479: Gilger MA, Redel CA. Autism and the gut. *Pediatrics.* 2009 Aug;124(2):796-8. doi: 10.1542/peds.2009-0741. Epub 2009 Jul 27. PubMed PMID: 19651594.

480: Ibrahim SH, Voigt RG, Katusic SK, Weaver AL, Barbaresi WJ. Incidence of gastrointestinal symptoms in children with autism: a population-based study. *Pediatrics.* 2009 Aug;124(2):680-6. doi: 10.1542/peds.2008-2933. Epub 2009 Jul 27. PubMed PMID: 19651585; PubMed Central PMCID: PMC2747040.

481: Wasilewska J, Jarocka-Cyrta E, Kaczmarek M. [Gastrointestinal abnormalities in children with autism]. *Pol Merkur Lekarski.* 2009 Jul;27(157):40-3. Review. Polish. PubMed PMID: 19650428.

482: Theoharides TC, Kempuraj D, Redwood L. Autism: an emerging 'neuroimmune disorder' in search of therapy. *Expert Opin Pharmacother.* 2009 Sep;10(13):2127-43. doi: 10.1517/14656560903107789. Review. PubMed PMID:

19640207.

483: Morris CR, Agin MC. Syndrome of allergy, apraxia, and malabsorption: characterization of a neurodevelopmental phenotype that responds to omega 3 and vitamin E supplementation. *Altern Ther Health Med*. 2009 Jul-Aug;15(4):34-43. PubMed PMID: 19623831.

484: Genuis SJ, Bouchard TP. Celiac disease presenting as autism. *J Child Neurol*. 2010 Jan;25(1):114-9. doi: 10.1177/0883073809336127. Epub 2009 Jun 29. PubMed PMID: 19564647.

485: Campbell DB, Warren D, Sutcliffe JS, Lee EB, Levitt P. Association of MET with social and communication phenotypes in individuals with autism spectrum disorder. *Am J Med Genet B Neuropsychiatr Genet*. 2010 Mar 5;153B(2):438-446. doi: 10.1002/ajmg.b.30998. PubMed PMID: 19548256.

486: Smith RA, Farnworth H, Wright B, Allgar V. Are there more bowel symptoms in children with autism compared to normal children and children with other developmental and neurological disorders?: A case control study. *Autism*. 2009 Jul;13(4):343-55. doi: 10.1177/1362361309106418. PubMed PMID: 19535465.

487: Silverman RD. Litigation, regulation, and education--protecting the public's health through childhood immunization. *N Engl J Med*. 2009 Jun 11;360(24):2500-1. doi: 10.1056/NEJMp0901598. PubMed PMID: 19516031.

488: Stewart AM. When vaccine injury claims go to court. *N Engl J Med*. 2009 Jun 11;360(24):2498-500. doi: 10.1056/NEJMp0902316. PubMed PMID: 19516030.

489: Hu VW, Nguyen A, Kim KS, Steinberg ME, Sarachana T, Scully MA, Soldin SJ, Luu T, Lee NH. Gene expression profiling of lymphoblasts from autistic and nonaffected sib pairs: altered pathways in neuronal development and steroid biosynthesis. *PLoS One*. 2009 Jun 3;4(6):e5775. doi: 10.1371/journal.pone.0005775. PubMed PMID: 19492049; PubMed Central PMCID: PMC2685981.

490: Jyonouchi H. Food allergy and autism spectrum disorders: is there a link? *Curr Allergy Asthma Rep*. 2009 May;9(3):194–201. Review. PubMed PMID: 19348719.

491: Sandhu B, Steer C, Golding J, Emond A. The early stool patterns of young children with autistic spectrum disorder. *Arch Dis Child*. 2009 Jul;94(7):497–500. doi: 10.1136/adc.2008.148866. Epub 2009 Mar 26. PubMed PMID: 19329445.

492: Albay R 3rd, Chen A, Anderson GM, Tatevosyan M, Janusonis S. Relationships among body mass, brain size, gut length, and blood tryptophan and serotonin in young wild-type mice. *BMC Physiol*. 2009 Mar 25;9:4. doi: 10.1186/1472-6793-9-4. PubMed PMID: 19321004; PubMed Central PMCID: PMC2671477.

493: Sempere A, Fons C, Arias A, Rodríguez-Pombo P, Colomer R, Merinero B, Alcaide P, Capdevila A, Ribes A, Artuch R, Campistol J. Creatine transporter deficiency in two adult patients with static encephalopathy. *J Inherit Metab Dis*. 2009 Dec;32 Suppl 1:S91–6. doi: 10.1007/s10545-009-1083-2. Epub 2009 Mar 25. Review. PubMed PMID: 19319661.

494: Castellani ML, Conti CM, Kempuraj DJ, Salini V, Vecchiet J, Tete S, Ciampoli C, Conti F, Cerulli G, Caraffa A, Antinolfi P, Galzio R, Shaik Y, Theoharides TC, De Amicis D, Perrella A, Cuccurullo C, Boscolo P, Felaco M, Doyle R, Verrocchio

C, Fulcheri M. Autism and immunity: revisited study. Int J Immunopathol Pharmacol. 2009 Jan-Mar;22(1):15-9. Review. PubMed PMID: 19309548.

495: Campbell DB, Buie TM, Winter H, Bauman M, Sutcliffe JS, Perrin JM, Levitt P. Distinct genetic risk based on association of MET in families with co-occurring autism and gastrointestinal conditions. Pediatrics. 2009 Mar;123(3):1018-24. doi: 10.1542/peds.2008-0819. Erratum in: Pediatrics. 2009 Apr;123(4):1255. PubMed PMID: 19255034.

496: Galiatsatos P, Gologan A, Lamoureux E. Autistic enterocolitis: fact or fiction? Can J Gastroenterol. 2009 Feb;23(2):95-8. Review. PubMed PMID: 19214283; PubMed Central PMCID: PMC2694587.

497: Handen BL, Melmed RD, Hansen RL, Aman MG, Burnham DL, Bruss JB, McDougale CJ. A double-blind, placebo-controlled trial of oral human immunoglobulin for gastrointestinal dysfunction in children with autistic disorder. J Autism Dev Disord. 2009 May;39(5):796-805. doi: 10.1007/s10803-008-0687-y. Epub 2009 Jan 16. PubMed PMID: 19148734.

498: Russo AJ. Anti-metallothionein IgG and levels of metallothionein in autistic children with GI disease. Drug Healthc Patient Saf. 2009;1:1-8. Epub 2009 Jan 8. PubMed PMID: 21701604; PubMed Central PMCID: PMC3108685.

499: Russo AJ, Krigsman A, Jepson B, Wakefield A. Low serum myeloperoxidase in autistic children with gastrointestinal disease. Clin Exp Gastroenterol. 2009;2:85-94. Epub 2009 Aug 11. PubMed PMID: 21694831; PubMed Central PMCID: PMC3108639.

500: Blaylock RL. A possible central mechanism in autism spectrum disorders, part
1. *Altern Ther Health Med*. 2008 Nov-Dec;14(6):46-53. Review. PubMed
PMID:
19043938.

501: Valicenti-McDermott MD, McVicar K, Cohen HJ, Wershil BK, Shinnar S.
Gastrointestinal symptoms in children with an autism spectrum disorder
and
language regression. *Pediatr Neurol*. 2008 Dec;39(6):392-8. doi:
10.1016/j.pediatrneurol.2008.07.019. PubMed PMID: 19027584.

502: [Autism and gastrointestinal disease: a different point of view].
*Pediatr
Med Chir*. 2008 May-Jun;30(3):141-5. Review. Italian. PubMed PMID:
19024857.

503: Theoharides TC, Doyle R. Autism, gut-blood-brain barrier, and
mast cells. *J
Clin Psychopharmacol*. 2008 Oct;28(5):479-83. doi: 10.1097/JCP.
0b013e3181845f48.
Review. PubMed PMID: 18794641.

504: Nikolov RN, Bearss KE, Lettinga J, Erickson C, Rodowski M, Aman
MG,
McCracken JT, McDougale CJ, Tierney E, Vitiello B, Arnold LE, Shah B,
Posey DJ,
Ritz L, Scahill L. Gastrointestinal symptoms in a sample of children
with
pervasive developmental disorders. *J Autism Dev Disord*. 2009 Mar;
39(3):405-13.
doi: 10.1007/s10803-008-0637-8. Epub 2008 Sep 13. PubMed PMID:
18791817.

505: Hornig M, Briese T, Buie T, Bauman ML, Lauwers G, Siemetzki U,
Hummel K,
Rota PA, Bellini WJ, O'Leary JJ, Sheils O, Alden E, Pickering L,
Lipkin WI. Lack
of association between measles virus vaccine and autism with
enteropathy: a
case-control study. *PLoS One*. 2008 Sep 4;3(9):e3140. doi:
10.1371/journal.pone.0003140. PubMed PMID: 18769550; PubMed Central
PMCID:
PMC2526159.

506: Galasso C, Lo-Castro A, Lalli C, Nardone AM, Gullotta F, Curatolo P.

Deletion 2q37: an identifiable clinical syndrome with mental retardation and

autism. *J Child Neurol*. 2008 Jul;23(7):802-6. doi: 10.1177/0883073808314150.

PubMed PMID: 18658079.

507: Theoharides TC, Doyle R, Francis K, Conti P, Kalogeromitros D. Novel

therapeutic targets for autism. *Trends Pharmacol Sci*. 2008 Aug;29(8):375-82. doi:

10.1016/j.tips.2008.06.002. Epub 2008 Jul 6. Review. PubMed PMID: 18606459.

508: McGinnis WR, Audhya T, Walsh WJ, Jackson JA, McLaren-Howard J, Lewis A,

Lauda PH, Bibus DM, Journak F, Lietha R, Hoffer A. Discerning the Mauve factor,

Part 2. *Altern Ther Health Med*. 2008 May-Jun;14(3):56-62. Review.

PubMed PMID:

18517107.

509: Phelan MC. Deletion 22q13.3 syndrome. *Orphanet J Rare Dis*. 2008 May 27;3:14.

doi: 10.1186/1750-1172-3-14. PubMed PMID: 18505557; PubMed Central

PMCID:

PMC2427010.

510: Janusonis S. Origin of the blood hyperserotonemia of autism. *Theor Biol Med*

Model. 2008 May 22;5:10. doi: 10.1186/1742-4682-5-10. PubMed PMID: 18498654;

PubMed Central PMCID: PMC2488334.

511: Baird G, Charman T, Pickles A, Chandler S, Loucas T, Meldrum D, Carcani-Rathwell I, Serkana D, Simonoff E. Regression, developmental trajectory

and associated problems in disorders in the autism spectrum: the SNAP study. *J*

Autism Dev Disord. 2008 Nov;38(10):1827-36. doi: 10.1007/s10803-008-0571-9. Epub

2008 May 1. PubMed PMID: 18449635.

512: Shultz SR, MacFabe DF, Ossenkopp KP, Scratch S, Whelan J, Taylor R, Cain DP.
Intracerebroventricular injection of propionic acid, an enteric bacterial metabolic end-product, impairs social behavior in the rat: implications for an animal model of autism. *Neuropharmacology*. 2008 May;54(6):901-11. doi: 10.1016/j.neuropharm.2008.01.013. Epub 2008 Feb 13. PubMed PMID: 18395759.

513: McGinnis WR, Audhya T, Walsh WJ, Jackson JA, McLaren-Howard J, Lewis A, Lauda PH, Bibus DM, Jurnak F, Lietha R, Hoffer A. Discerning the Mauve Factor, Part 1. *Altern Ther Health Med*. 2008 Mar-Apr;14(2):40-50. Review. Erratum in: *Altern Ther Health Med*. 2008 May-Jun;14(3):15. PubMed PMID: 18383989.

514: Kring SR, Greenberg JS, Seltzer MM. Adolescents and Adults with Autism with and without Co-morbid Psychiatric Disorders: Differences in Maternal Well-Being. *J Ment Health Res Intellect Disabil*. 2008 Apr 1;1(2):53-74. PubMed PMID: 20556237; PubMed Central PMCID: PMC2885815.

515: Russo AF. Anti-metallothionein IgG and levels of metallothionein in autistic families. *Swiss Med Wkly*. 2008 Feb 9;138(5-6):70-7. PubMed PMID: 18365350.

516: Cass H, Gringras P, March J, McKendrick I, O'Hare AE, Owen L, Pollin C. Absence of urinary opioid peptides in children with autism. *Arch Dis Child*. 2008 Sep;93(9):745-50. doi: 10.1136/adc.2006.114389. Epub 2008 Mar 12. PubMed PMID: 18337276.

517: Davis LK, Meyer KJ, Rudd DS, Librant AL, Epping EA, Sheffield VC, Wassink TH. Pax6 3' deletion results in aniridia, autism and mental retardation. *Hum*

Genet. 2008 May;123(4):371-8. doi: 10.1007/s00439-008-0484-x. Epub 2008 Mar 6.
Review. PubMed PMID: 18322702; PubMed Central PMCID: PMC2719768.

518: Robertson MA, Sigalet DL, Holst JJ, Meddings JB, Wood J, Sharkey KA.
Intestinal permeability and glucagon-like peptide-2 in children with autism: a controlled pilot study. J Autism Dev Disord. 2008 Jul;38(6):1066-71. doi: 10.1007/s10803-007-0482-1. Epub 2008 Feb 29. PubMed PMID: 18311517.

519: Waller KL, McBride SM, Kim K, McDonald TV. Characterization of two putative potassium channels in Plasmodium falciparum. Malar J. 2008 Jan 24;7:19. doi: 10.1186/1475-2875-7-19. PubMed PMID: 18218136; PubMed Central PMCID: PMC2263067.

520: Hansen RL, Ozonoff S, Krakowiak P, Angkustsiri K, Jones C, Deprey LJ, Le DN, Croen LA, Hertz-Picciotto I. Regression in autism: prevalence and associated factors in the CHARGE Study. Ambul Pediatr. 2008 Jan-Feb;8(1):25-31. doi: 10.1016/j.ambp.2007.08.006. PubMed PMID: 18191778.

521: Xue Ming, Brimacombe M, Chaaban J, Zimmerman-Bier B, Wagner GC. Autism spectrum disorders: concurrent clinical disorders. J Child Neurol. 2008 Jan;23(1):6-13. Epub 2007 Dec 3. PubMed PMID: 18056691.

522: Falk RE, Casas KA. Chromosome 2q37 deletion: clinical and molecular aspects. Am J Med Genet C Semin Med Genet. 2007 Nov 15;145C(4):357-71. Review. PubMed PMID: 17910077.

523: Campbell DB, D'Oronzio R, Garbett K, Ebert PJ, Mirnics K, Levitt P, Persico AM. Disruption of cerebral cortex MET signaling in autism spectrum disorder. Ann Neurol. 2007 Sep;62(3):243-50. PubMed PMID: 17696172.

524: Kamiński S, Cieslińska A, Kostyra E. Polymorphism of bovine beta-casein and its potential effect on human health. J Appl Genet. 2007;48(3):189-98. Review. PubMed PMID: 17666771.

525: Kline AD, Grados M, Sponseller P, Levy HP, Blagowidow N, Schoedel C, Rampolla J, Clemens DK, Krantz I, Kimball A, Pichard C, Tuchman D. Natural history of aging in Cornelia de Lange syndrome. Am J Med Genet C Semin Med Genet. 2007 Aug 15;145C(3):248-60. Review. PubMed PMID: 17640042; PubMed Central PMCID: PMC4902018.

526: Casanova MF. The minicolumnopathy of autism: A link between migraine and gastrointestinal symptoms. Med Hypotheses. 2008;70(1):73-80. Epub 2007 Jun 14. PubMed PMID: 17574771; PubMed Central PMCID: PMC2211386.

527: Adams JB, Romdalvik J, Ramanujam VM, Legator MS. Mercury, lead, and zinc in baby teeth of children with autism versus controls. J Toxicol Environ Health A. 2007 Jun;70(12):1046-51. PubMed PMID: 17497416.

528: Fernell E, Fagerberg UL, Hellström PM. No evidence for a clear link between active intestinal inflammation and autism based on analyses of faecal calprotectin and rectal nitric oxide. Acta Paediatr. 2007 Jul;96(7):1076-9. Epub 2007 Apr 27. PubMed PMID: 17465982.

529: Boorom KF. Is this recently characterized gastrointestinal pathogen responsible for rising rates of inflammatory bowel disease (IBD) and IBD associated autism in Europe and the United States in the 1990s? Med Hypotheses. 2007;69(3):652-9. Epub 2007 Mar 26. PubMed PMID: 17382484.

530: Conyers R, Efron D. Agitation and weight loss in an autistic boy. J Paediatr Child Health. 2007 Mar;43(3):186-7. PubMed PMID: 17316195.

531: Hwang JB, Park MH, Choi SO, Park WH, Kim AS. How strong construction toy magnets are! A gastro-gastro-duodenal fistula formation. J Pediatr Gastroenterol Nutr. 2007 Feb;44(2):291-2. PubMed PMID: 17255849.

532: Levy SE, Souders MC, Ittenbach RF, Giarelli E, Mulberg AE, Pinto-Martin JA. Relationship of dietary intake to gastrointestinal symptoms in children with autistic spectrum disorders. Biol Psychiatry. 2007 Feb 15;61(4):492-7. Epub 2007 Jan 3. PubMed PMID: 17207470.

533: Bradstreet JJ, Smith S, Granpeesheh D, El-Dahr JM, Rossignol D. Spironolactone might be a desirable immunologic and hormonal intervention in autism spectrum disorders. Med Hypotheses. 2007;68(5):979-87. Epub 2006 Dec 5. PubMed PMID: 17150311.

534: Rossignol DA. Hyperbaric oxygen therapy might improve certain pathophysiological findings in autism. Med Hypotheses. 2007;68(6):1208-27. Epub 2006 Dec 4. PubMed PMID: 17141962.

535: Troost PW, Steenhuis MP, Tuynman-Qua HG, Kalverdijk LJ, Buitelaar JK, Minderaa RB, Hoekstra PJ. Atomoxetine for attention-deficit/hyperactivity disorder symptoms in children with pervasive developmental disorders: a pilot study. J Child Adolesc Psychopharmacol. 2006 Oct;16(5):611-9. PubMed PMID: 17069549.

536: Campbell DB, Sutcliffe JS, Ebert PJ, Militerni R, Bravaccio C, Trillo S, Elia M, Schneider C, Melmed R, Sacco R, Persico AM, Levitt P. A

genetic variant
that disrupts MET transcription is associated with autism. Proc Natl
Acad Sci U S
A. 2006 Nov 7;103(45):16834-9. Epub 2006 Oct 19. PubMed PMID:
17053076; PubMed
Central PMCID: PMC1838551.

537: Kugathasan S. Pediatric inflammatory bowel disease: clinical and
therapeutic
aspects. Curr Opin Gastroenterol. 2001 Jul;17(4):350-5. PubMed PMID:
17031182.

538: Croen LA, Najjar DV, Ray GT, Lotspeich L, Bernal P. A comparison
of health
care utilization and costs of children with and without autism
spectrum disorders
in a large group-model health plan. Pediatrics. 2006 Oct;
118(4):e1203-11. PubMed
PMID: 17015508.

539: Nishijima I, Yamagata T, Spencer CM, Weeber EJ, Alekseyenko O,
Sweatt JD,
Momoi MY, Ito M, Armstrong DL, Nelson DL, Paylor R, Bradley A.
Secretin
receptor-deficient mice exhibit impaired synaptic plasticity and
social behavior.
Hum Mol Genet. 2006 Nov 1;15(21):3241-50. Epub 2006 Sep 28. PubMed
PMID:
17008357; PubMed Central PMCID: PMC2593392.

540: Janusonis S, Anderson GM, Shifrovich I, Rakic P. Ontogeny of
brain and blood
serotonin levels in 5-HT receptor knockout mice: potential relevance
to the
neurobiology of autism. J Neurochem. 2006 Nov;99(3):1019-31. Epub 2006
Sep 18.
PubMed PMID: 16981893.

541: MacFabe DF, Cain DP, Rodriguez-Capote K, Franklin AE, Hoffman JE,
Boon F,
Taylor AR, Kavaliers M, Ossenkopp KP. Neurobiological effects of
intraventricular
propionic acid in rats: possible role of short chain fatty acids on
the
pathogenesis and characteristics of autism spectrum disorders. Behav

Brain Res.
2007 Jan 10;176(1):149-69. Epub 2006 Sep 1. PubMed PMID: 16950524.

542: De S, Ghosh S, Dutta SK. Congener specific polychlorinated biphenyl metabolism by human intestinal microbe Clostridium species: Comparison with human liver cell line-HepG2. Indian J Microbiol. 2006 Sep;46(3):199-207. PubMed PMID: 25838614; PubMed Central PMCID: PMC4380240.

543: Thornjóðleifsson B, Davíðsdóttir K, Agnarsson U, Theodórs A, Gunnarsdóttir A, Møller E, Jónsdóttir A, Sigbórsson G, Kjeld M, Bjarnason I. [Effect of Pentavac and MMR vaccination on the intestine.]. Laeknabladid. 2002 Jun;88(6):491-4. Icelandic. PubMed PMID: 16940633.

544: Schneider CK, Melmed RD, Barstow LE, Enriquez FJ, Ranger-Moore J, Ostrem JA. Oral human immunoglobulin for children with autism and gastrointestinal dysfunction: a prospective, open-label study. J Autism Dev Disord. 2006 Nov;36(8):1053-64. PubMed PMID: 16845577.

545: Richler J, Luyster R, Risi S, Hsu WL, Dawson G, Bernier R, Dunn M, Hepburn S, Hyman SL, McMahon WM, Goudie-Nice J, Minshew N, Rogers S, Sigman M, Spence MA, Goldberg WA, Tager-Flusberg H, Volkmar FR, Lord C. Is there a 'regressive phenotype' of Autism Spectrum Disorder associated with the measles-mumps-rubella vaccine? A CPEA Study. J Autism Dev Disord. 2006 Apr;36(3):299-316. PubMed PMID: 16729252.

546: Wier ML, Yoshida CK, Odouli R, Grether JK, Croen LA. Congenital anomalies associated with autism spectrum disorders. Dev Med Child Neurol. 2006 Jun;48(6):500-7. PubMed PMID: 16700944.

547: Harrington JW, Rosen L, Garnecho A, Patrick PA. Parental

perceptions and use
of complementary and alternative medicine practices for children with
autistic
spectrum disorders in private practice. J Dev Behav Pediatr. 2006 Apr;
27(2
Suppl):S156-61. PubMed PMID: 16685182.

548: Valicenti-McDermott M, McVicar K, Rapin I, Wershil BK, Cohen H,
Shinnar S.
Frequency of gastrointestinal symptoms in children with autistic
spectrum
disorders and association with family history of autoimmune disease. J
Dev Behav
Pediatr. 2006 Apr;27(2 Suppl):S128-36. PubMed PMID: 16685179.

549: Niehus R, Lord C. Early medical history of children with autism
spectrum
disorders. J Dev Behav Pediatr. 2006 Apr;27(2 Suppl):S120-7. PubMed
PMID:
16685178.

550: Herbert MR, Russo JP, Yang S, Roohi J, Blaxill M, Kahler SG,
Cremer L,
Hatchwell E. Autism and environmental genomics. Neurotoxicology. 2006
Sep;27(5):671-84. Epub 2006 Mar 28. Review. PubMed PMID: 16644012.

551: Reichelt KL, Skjeldal O. IgA antibodies in Rett syndrome. Autism.
2006
Mar;10(2):189-97. PubMed PMID: 16613867.

552: Snape KM, Fahey MC, McGillivray G, Gupta P, Milewicz DM,
Delatycki MB.
Long-term survival in a child with severe congenital contractural
arachnodactyly,
autism and severe intellectual disability. Clin Dysmorphol. 2006 Apr;
15(2):95-9.
PubMed PMID: 16531736.

553: Cohly HH, Panja A. Immunological findings in autism. Int Rev
Neurobiol.
2005;71:317-41. Review. PubMed PMID: 16512356.

554: Clement HW, Pschibul A, Schulz E. Effects of secretin on

extracellular GABA
and other amino acid concentrations in the rat hippocampus. *Int Rev
Neurobiol.*
2005;71:239–71. Review. PubMed PMID: 16512354.

555: Ashwood P, Wakefield AJ. Immune activation of peripheral blood
and mucosal
CD3+ lymphocyte cytokine profiles in children with autism and
gastrointestinal
symptoms. *J Neuroimmunol.* 2006 Apr;173(1–2):126–34. Epub 2006 Feb 21.
PubMed
PMID: 16494951.

556: Dixon B. New worlds to explore. *Lancet Infect Dis.* 2006 Feb;6(2):
73. PubMed
PMID: 16439327.

557: Bell SJ, Grochoski GT, Clarke AJ. Health implications of milk
containing
beta-casein with the A2 genetic variant. *Crit Rev Food Sci Nutr.*
2006;46(1):93–100. Review. PubMed PMID: 16403684.

558: Pallanti S, Lassi S, La Malfa G, Campigli M, Di Rubbo R, Paolini
G, Cesarali
V. Short report: Autistic gastrointestinal and eating symptoms treated
with
secretin: a subtype of autism. *Clin Pract Epidemiol Ment Health.* 2005
Nov
15;1:24. PubMed PMID: 16287506; PubMed Central PMCID: PMC1308834.

559: Erickson CA, Stigler KA, Corkins MR, Posey DJ, Fitzgerald JF,
McDougle CJ.
Gastrointestinal factors in autistic disorder: a critical review. *J
Autism Dev
Disord.* 2005 Dec;35(6):713–27. Review. PubMed PMID: 16267642.

560: Parracho HM, Bingham MO, Gibson GR, McCartney AL. Differences
between the
gut microflora of children with autistic spectrum disorders and that
of healthy
children. *J Med Microbiol.* 2005 Oct;54(Pt 10):987–91. PubMed PMID:
16157555.

561: Liu Z, Li N, Neu J. Tight junctions, leaky intestines, and pediatric diseases. *Acta Paediatr.* 2005 Apr;94(4):386–93. Review. PubMed PMID: 16092447.

562: Williams KW, Wray JJ, Wheeler DM. Intravenous secretin for autism spectrum disorder. *Cochrane Database Syst Rev.* 2005 Jul 20;(3):CD003495. Review. Update in: *Cochrane Database Syst Rev.* 2012;4:CD003495. PubMed PMID: 16034901.

563: Janusonis S. Statistical distribution of blood serotonin as a predictor of early autistic brain abnormalities. *Theor Biol Med Model.* 2005 Jul 19;2:27. PubMed PMID: 16029508; PubMed Central PMCID: PMC1199627.

564: Wakefield AJ, Ashwood P, Limb K, Anthony A. The significance of ileo-colonic lymphoid nodular hyperplasia in children with autistic spectrum disorder. *Eur J Gastroenterol Hepatol.* 2005 Aug;17(8):827–36. PubMed PMID: 16003132.

565: Levy SE, Hyman SL. Novel treatments for autistic spectrum disorders. *Ment Retard Dev Disabil Res Rev.* 2005;11(2):131–42. Review. PubMed PMID: 15977319.

566: Jyonouchi H, Geng L, Ruby A, Reddy C, Zimmerman-Bier B. Evaluation of an association between gastrointestinal symptoms and cytokine production against common dietary proteins in children with autism spectrum disorders. *J Pediatr.* 2005 May;146(5):605–10. PubMed PMID: 15870662.

567: Rana M, Khanzode L, Karnik N, Saxena K, Chang K, Steiner H. Divalproex sodium in the treatment of pediatric psychiatric disorders. *Expert Rev Neurother.* 2005 Mar;5(2):165–76. Review. PubMed PMID: 15853487.

568: Welch MG, Welch-Horan TB, Anwar M, Anwar N, Ludwig RJ, Ruggiero DA. Brain effects of chronic IBD in areas abnormal in autism and treatment by single neuropeptides secretin and oxytocin. *J Mol Neurosci.* 2005;25(3):259-74. PubMed PMID: 15800379.

569: Balzola F, Barbon V, Repici A, Rizzetto M, Clauser D, Gandione M, Sapino A. Panenteric IBD-like disease in a patient with regressive autism shown for the first time by the wireless capsule enteroscopy: another piece in the jigsaw of this gut-brain syndrome? *Am J Gastroenterol.* 2005 Apr;100(4):979-81. PubMed PMID: 15784047.

570: Jyonouchi H, Geng L, Ruby A, Zimmerman-Bier B. Dysregulated innate immune responses in young children with autism spectrum disorders: their relationship to gastrointestinal symptoms and dietary intervention. *Neuropsychobiology.* 2005;51(2):77-85. PubMed PMID: 15741748.

571: Janusonis S. Serotonergic paradoxes of autism replicated in a simple mathematical model. *Med Hypotheses.* 2005;64(4):742-50. PubMed PMID: 15694691.

572: Adams JB, Holloway C. Pilot study of a moderate dose multivitamin/mineral supplement for children with autistic spectrum disorder. *J Altern Complement Med.* 2004 Dec;10(6):1033-9. Erratum in: *J Altern Complement Med.* 2005 Aug;11(4):749. PubMed PMID: 15673999.

573: Esch BE, Carr JE. Secretin as a treatment for autism: a review of the evidence. *J Autism Dev Disord.* 2004 Oct;34(5):543-56. Review. PubMed PMID: 15628608.

574: McGinnis WR. Oxidative stress in autism. *Altern Ther Health Med*. 2004 Nov-Dec;10(6):22-36; quiz 37, 92. Review. PubMed PMID: 15624347.

575: Ashwood P, Anthony A, Torrente F, Wakefield AJ. Spontaneous mucosal lymphocyte cytokine profiles in children with autism and gastrointestinal symptoms: mucosal immune activation and reduced counter regulatory interleukin-10. *J Clin Immunol*. 2004 Nov;24(6):664-73. PubMed PMID: 15622451.

576: Sturmey P. Secretin is an ineffective treatment for pervasive developmental disabilities: a review of 15 double-blind randomized controlled trials. *Res Dev Disabil*. 2005 Jan-Feb;26(1):87-97. Review. PubMed PMID: 15590241.

577: Köves K, Kausz M, Reser D, Illyés G, Takács J, Heinzlmann A, Gyenge E, Horváth K. Secretin and autism: a basic morphological study about the distribution of secretin in the nervous system. *Regul Pept*. 2004 Dec 15;123(1-3):209-16. PubMed PMID: 15518914.

578: Stringer MD. Informed consent and choice in cholecystectomy. *Pediatr Surg Int*. 2004 Oct;20(10):741-3. PubMed PMID: 15490193.

579: Martirosian G. [Anaerobic intestinal microflora in pathogenesis of autism?]. *Postepy Hig Med Dosw (Online)*. 2004;58:349-51. Review. Polish. PubMed PMID: 15459553.

580: Madsen KM, Vestergaard M. MMR vaccination and autism : what is the evidence for a causal association? *Drug Saf*. 2004;27(12):831-40. Review. PubMed PMID: 15366972.

581: Welch MG, Keune JD, Welch-Horan TB, Anwar N, Anwar M, Ludwig RJ, Ruggiero

DA. Secretin: hypothalamic distribution and hypothesized neuroregulatory role in autism. *Cell Mol Neurobiol.* 2004 Apr;24(2):219-41. PubMed PMID: 15176437.

582: Klein KC, Diehl EB. Relationship between MMR vaccine and autism. *Ann Pharmacother.* 2004 Jul-Aug;38(7-8):1297-300. Epub 2004 Jun 1. Review. PubMed PMID: 15173555.

583: Dogrukol-Ak D, Tore F, Tuncel N. Passage of VIP/PACAP/secretin family across the blood-brain barrier: therapeutic effects. *Curr Pharm Des.* 2004;10(12):1325-40. Review. PubMed PMID: 15134484.

584: Goldberg EA. The link between gastroenterology and autism. *Gastroenterol Nurs.* 2004 Jan-Feb;27(1):16-9. Review. PubMed PMID: 15075959.

585: Alamy SS, Jarskog LF, Sheitman BB, Lieberman JA. Secretin in a patient with treatment-resistant schizophrenia and prominent autistic features. *Schizophr Res.* 2004 Feb 1;66(2-3):183-6. PubMed PMID: 15061252.

586: Sheitman BB, Knable MB, Jarskog LF, Chakos M, Boyce LH, Early J, Lieberman JA. Secretin for refractory schizophrenia. *Schizophr Res.* 2004 Feb 1;66(2-3):177-81. PubMed PMID: 15061251.

587: Harvey P. MMR and autism: the debate continues. *Lancet.* 2004 Feb 14;363(9408):568; author reply 568-9. PubMed PMID: 14975624.

588: DeStefano F, Thompson WW. MMR vaccine and autism: an update of the scientific evidence. *Expert Rev Vaccines.* 2004 Feb;3(1):19-22. Review. PubMed PMID: 14761240.

589: Yang B, Goulet M, Boismenu R, Ferguson AV. Secretin depolarizes nucleus

tractus solitarius neurons through activation of a nonselective cationic conductance. *Am J Physiol Regul Integr Comp Physiol.* 2004 May; 286(5):R927-34. Epub 2004 Jan 8. PubMed PMID: 14715495.

590: Levy SE, Hyman SL. Use of complementary and alternative treatments for children with autistic spectrum disorders is increasing. *Pediatr Ann.* 2003 Oct;32(10):685-91. PubMed PMID: 14606219.

591: Murch S. Separating inflammation from speculation in autism. *Lancet.* 2003 Nov 1;362(9394):1498-9. PubMed PMID: 14602448.

592: Afzal N, Murch S, Thirrupathy K, Berger L, Fagbemi A, Heuschkel R. Constipation with acquired megarectum in children with autism. *Pediatrics.* 2003 Oct;112(4):939-42. PubMed PMID: 14523189.

593: Welch MG, Keune JD, Welch-Horan TB, Anwar N, Anwar M, Ruggiero DA. Secretin activates visceral brain regions in the rat including areas abnormal in autism. *Cell Mol Neurobiol.* 2003 Oct;23(4-5):817-37. PubMed PMID: 14514034.

594: DeFelice ML, Ruchelli ED, Markowitz JE, Strogatz M, Reddy KP, Kadivar K, Mulberg AE, Brown KA. Intestinal cytokines in children with pervasive developmental disorders. *Am J Gastroenterol.* 2003 Aug;98(8):1777-82. PubMed PMID: 12907332.

595: Levy SE, Souders MC, Wray J, Jawad AF, Gallagher PR, Coplan J, Belchic JK, Gerdes M, Mitchell R, Mulberg AE. Children with autistic spectrum disorders. I: comparison of placebo and single dose of human synthetic secretin. *Arch Dis Child.* 2003 Aug;88(8):731-6. PubMed PMID: 12876177; PubMed Central PMCID: PMC1719589.

596: Molloy CA, Manning-Courtney P. Prevalence of chronic gastrointestinal symptoms in children with autism and autistic spectrum disorders. *Autism*. 2003 Jun;7(2):165-71. PubMed PMID: 12846385.

597: Kuddo T, Nelson KB. How common are gastrointestinal disorders in children with autism? *Curr Opin Pediatr*. 2003 Jun;15(3):339-43. Review. PubMed PMID: 12806268.

598: White JF. Intestinal pathophysiology in autism. *Exp Biol Med (Maywood)*. 2003 Jun;228(6):639-49. Review. PubMed PMID: 12773694.

599: Field D, Garland M, Williams K. Correlates of specific childhood feeding problems. *J Paediatr Child Health*. 2003 May-Jun;39(4):299-304. PubMed PMID: 12755939.

600: Sugie Y, Sugie H, Fukuda T, Ito M, Ohzeki T. [Studies on the adverse effects of fluvoxamine treatment in children with autistic disorder: correlation with genetic polymorphism in serotonin related genes]. *No To Hattatsu*. 2003 May;35(3):233-7. Japanese. PubMed PMID: 12755054.

601: Mehta BK, Munir KM. Does the MMR vaccine and secretin or its receptor share an antigenic epitope? *Med Hypotheses*. 2003 May;60(5):650-3. PubMed PMID: 12710897.

602: Reichelt KL, Knivsberg AM. Can the pathophysiology of autism be explained by the nature of the discovered urine peptides? *Nutr Neurosci*. 2003 Feb;6(1):19-28. Review. PubMed PMID: 12608733.

603: Molloy CA, Manning-Courtney P, Swayne S, Bean J, Brown JM, Murray DS, Kinsman AM, Brasington M, Ulrich CD 2nd. Lack of benefit of intravenous synthetic human secretin in the treatment of autism. *J Autism Dev Disord*. 2002 Dec;32(6):545-51. PubMed PMID: 12553591.

604: Kidd PM. Autism, an extreme challenge to integrative medicine. Part 2: medical management. *Altern Med Rev*. 2002 Dec;7(6):472-99. Review. PubMed PMID: 12495373.

605: Honomichl RD, Goodlin-Jones BL, Burnham MM, Hansen RL, Anders TF. Secretin and sleep in children with autism. *Child Psychiatry Hum Dev*. 2002 Winter;33(2):107-23. PubMed PMID: 12462350; PubMed Central PMCID: PMC1201388.

606: Martínez-Bermejo A, Polanco I. [Neuropsychological changes in coeliac disease]. *Rev Neurol*. 2002 Feb;34 Suppl 1:S24-33. Review. Spanish. PubMed PMID: 12447786.

607: Thjodleifsson B, Davídsdóttir K, Agnarsson U, Sigthórsson G, Kjeld M, Bjarnason I. Effect of Pentavac and measles-mumps-rubella (MMR) vaccination on the intestine. *Gut*. 2002 Dec;51(6):816-7. PubMed PMID: 12427783; PubMed Central PMCID: PMC1773472.

608: Hardan AY, Handen BL. A retrospective open trial of adjunctive donepezil in children and adolescents with autistic disorder. *J Child Adolesc Psychopharmacol*. 2002 Fall;12(3):237-41. PubMed PMID: 12427297.

609: Serratrice J, Disdier P, Kaladjian A, Granel B, Azorin JM, Laugier R, Berenguer M, Weiller PJ. [Psychosis revealing a silent coeliac disease in a young women with trisomy 21]. *Presse Med*. 2002 Oct 12;31(33):1551-3. French.

PubMed
PMID: 12422480.

610: Garvey J. Diet in autism and associated disorders. J Fam Health Care. 2002;12(2):34-8. Review. PubMed PMID: 12415751.

611: Unis AS, Munson JA, Rogers SJ, Goldson E, Osterling J, Gabriels R, Abbott RD, Dawson G. A randomized, double-blind, placebo-controlled trial of porcine versus synthetic secretin for reducing symptoms of autism. J Am Acad Child Adolesc Psychiatry. 2002 Nov;41(11):1315-21. PubMed PMID: 12410073.

612: Ng SS, Yung WH, Chow BK. Secretin as a neuropeptide. Mol Neurobiol. 2002 Aug;26(1):97-107. Review. PubMed PMID: 12392059.

613: Jyonouchi H, Sun S, Itokazu N. Innate immunity associated with inflammatory responses and cytokine production against common dietary proteins in patients with autism spectrum disorder. Neuropsychobiology. 2002;46(2):76-84. PubMed PMID: 12378124.

614: Horvath K, Perman JA. Autistic disorder and gastrointestinal disease. Curr Opin Pediatr. 2002 Oct;14(5):583-7. Review. PubMed PMID: 12352252.

615: Black C, Kaye JA, Jick H. Relation of childhood gastrointestinal disorders to autism: nested case-control study using data from the UK General Practice Research Database. BMJ. 2002 Aug 24;325(7361):419-21. PubMed PMID: 12193358; PubMed Central PMCID: PMC119436.

616: Banks WA, Goulet M, Rusche JR, Niehoff ML, Boismenu R. Differential transport of a secretin analog across the blood-brain and blood-cerebrospinal

fluid barriers of the mouse. *J Pharmacol Exp Ther.* 2002 Sep;302(3):1062-9. PubMed PMID: 12183664.

617: Finegold SM, Molitoris D, Song Y, Liu C, Vaisanen ML, Bolte E, McTeague M, Sandler R, Wexler H, Marlowe EM, Collins MD, Lawson PA, Summanen P, Baysallar M, Tomzynski TJ, Read E, Johnson E, Rolfe R, Nasir P, Shah H, Haake DA, Manning P, Kaul A. Gastrointestinal microflora studies in late-onset autism. *Clin Infect Dis.* 2002 Sep 1;35(Suppl 1):S6-S16. PubMed PMID: 12173102.

618: Patel NC, Yeh JY, Shepherd MD, Crismon ML. Secretin treatment for autistic disorder: a critical analysis. *Pharmacotherapy.* 2002 Jul;22(7):905-14. Review. PubMed PMID: 12126223.

619: Sponheim E, Oftedal G, Helverschou SB. Multiple doses of secretin in the treatment of autism: a controlled study. *Acta Paediatr.* 2002;91(5):540-5. PubMed PMID: 12113323.

620: Kern JK, Van Miller S, Evans PA, Trivedi MH. Efficacy of porcine secretin in children with autism and pervasive developmental disorder. *J Autism Dev Disord.* 2002 Jun;32(3):153-60. PubMed PMID: 12108616.

621: Wakefield AJ. The gut-brain axis in childhood developmental disorders. *J Pediatr Gastroenterol Nutr.* 2002 May-Jun;34 Suppl 1:S14-7. Review. PubMed PMID: 12082381.

622: Horvath K, Perman JA. Autism and gastrointestinal symptoms. *Curr Gastroenterol Rep.* 2002 Jun;4(3):251-8. Review. PubMed PMID: 12010627.

623: Bowers L. An audit of referrals of children with autistic spectrum disorder

to the dietetic service. *J Hum Nutr Diet.* 2002 Apr;15(2):141-4. PubMed PMID: 11972743.

624: Uhlmann V, Martin CM, Sheils O, Pilkington L, Silva I, Killalea A, Murch SB, Walker-Smith J, Thomson M, Wakefield AJ, O'Leary JJ. Potential viral pathogenic mechanism for new variant inflammatory bowel disease. *Mol Pathol.* 2002 Apr;55(2):84-90. PubMed PMID: 11950955; PubMed Central PMCID: PMC1187154.

625: Wakefield AJ, Puleston JM, Montgomery SM, Anthony A, O'Leary JJ, Murch SH. Review article: the concept of entero-colonic encephalopathy, autism and opioid receptor ligands. *Aliment Pharmacol Ther.* 2002 Apr;16(4):663-74. Review. PubMed PMID: 11929383.

626: Corbett B, Khan K, Czapansky-Beilman D, Brady N, Dropik P, Goldman DZ, Delaney K, Sharp H, Mueller I, Shapiro E, Ziegler R. A double-blind, placebo-controlled crossover study investigating the effect of porcine secretin in children with autism. *Clin Pediatr (Phila).* 2001 Jun;40(6):327-31. PubMed PMID: 11824175.

627: Gandhi S, Rubinstein I, Tsueshita T, Onyuksel H. Secretin self-assembles and interacts spontaneously with phospholipids in vitro. *Peptides.* 2002 Jan;23(1):201-4. PubMed PMID: 11814635.

628: Kamińska B, Czaja M, Kozielska E, Mazur E, Korzon M. Use of secretin in the treatment of childhood autism. *Med Sci Monit.* 2002 Jan;8(1):RA22-6. Review. PubMed PMID: 11782669.

629: Lightdale JR, Hayer C, Duer A, Lind-White C, Jenkins S, Siegel B, Elliott GR, Heyman MB. Effects of intravenous secretin on language and behavior of

children with autism and gastrointestinal symptoms: a single-blinded, open-label pilot study. *Pediatrics*. 2001 Nov;108(5):E90. PubMed PMID: 11694674.

630: Fombonne E, Chakrabarti S. No evidence for a new variant of measles-mumps-rubella-induced autism. *Pediatrics*. 2001 Oct;108(4):E58. PubMed PMID: 11581466.

631: McGinnis WR. Mercury and autistic gut disease. *Environ Health Perspect*. 2001 Jul;109(7):A303-4. PubMed PMID: 11569621; PubMed Central PMCID: PMC1240394.

632: Roseman B, Schneider E, Crimmins D, Bostwick H, Visintainer P, Jaskow PA, Accardo P. What to measure in autism drug trials. *J Autism Dev Disord*. 2001 Jun;31(3):361-2. PubMed PMID: 11518490.

633: Linday LA, Tsiouris JA, Cohen IL, Shindlecker R, DeCresce R. Famotidine treatment of children with autistic spectrum disorders: pilot research using single subject research design. *J Neural Transm (Vienna)*. 2001;108(5):593-611. PubMed PMID: 11459079.

634: Asano E, Kuivaniemi H, Huq AH, Tromp G, Behen M, Rothermel R, Herron J, Chugani DC. A study of novel polymorphisms in the upstream region of vasoactive intestinal peptide receptor type 2 gene in autism. *J Child Neurol*. 2001 May;16(5):357-63. PubMed PMID: 11392521.

635: Halsey NA, Hyman SL; Conference Writing Panel.. Measles-mumps-rubella vaccine and autistic spectrum disorder: report from the New Challenges in Childhood Immunizations Conference convened in Oak Brook, Illinois, June 12-13, 2000. *Pediatrics*. 2001 May;107(5):E84. Review. PubMed PMID: 11331734.

636: Furlano RI, Anthony A, Day R, Brown A, McGarvey L, Thomson MA, Davies SE, Berelowitz M, Forbes A, Wakefield AJ, Walker-Smith JA, Murch SH. Colonic CD8 and gamma delta T-cell infiltration with epithelial damage in children with autism. *J Pediatr.* 2001 Mar;138(3):366-72. PubMed PMID: 11241044.

637: Page T. Metabolic approaches to the treatment of autism spectrum disorders. *J Autism Dev Disord.* 2000 Oct;30(5):463-9. PubMed PMID: 11098885.

638: Wakefield AJ, Anthony A, Murch SH, Thomson M, Montgomery SM, Davies S, O'Leary JJ, Berelowitz M, Walker-Smith JA. Enterocolitis in children with developmental disorders. *Am J Gastroenterol.* 2000 Sep;95(9):2285-95. Retraction in: *Am J Gastroenterol.* 2010 May;105(5):1214. PubMed PMID: 11007230.

639: Quigley EM, Hurley D. Autism and the gastrointestinal tract. *Am J Gastroenterol.* 2000 Sep;95(9):2154-6. Review. PubMed PMID: 11007210.

640: Sandler RH, Finegold SM, Bolte ER, Buchanan CP, Maxwell AP, Väisänen ML, Nelson MN, Wexler HM. Short-term benefit from oral vancomycin treatment of regressive-onset autism. *J Child Neurol.* 2000 Jul;15(7):429-35. PubMed PMID: 10921511.

641: Chez MG, Buchanan CP, Bagan BT, Hammer MS, McCarthy KS, Ovrutskaya I, Nowinski CV, Cohen ZS. Secretin and autism: a two-part clinical investigation. *J Autism Dev Disord.* 2000 Apr;30(2):87-94. PubMed PMID: 10832772.

642: Klaeger D, McDougle CJ. Secretin in autism--a parent's perspective. *J Autism Dev Disord.* 2000 Feb;30(1):72-3. PubMed PMID: 10819124.

643: Aman MG, Armstrong SA. Regarding secretin for treating autistic

disorder. J

Autism Dev Disord. 2000 Feb;30(1):71-2. PubMed PMID: 10819123.

644: Kawashima H, Mori T, Kashiwagi Y, Takekuma K, Hoshika A, Wakefield A.

Detection and sequencing of measles virus from peripheral mononuclear cells from

patients with inflammatory bowel disease and autism. Dig Dis Sci. 2000 Apr;45(4):723-9. PubMed PMID: 10759242.

645: Horvath K, Papadimitriou JC, Rabsztyrn A, Drachenberg C, Tildon JT.

Gastrointestinal abnormalities in children with autistic disorder. J Pediatr.

1999 Nov;135(5):559-63. PubMed PMID: 10547242.

646: Accardo P, Bostwick H. Zebras in the living room: the changing faces of

autism. J Pediatr. 1999 Nov;135(5):533-5. PubMed PMID: 10547235.

647: Ho PK, Fong RS, Kai HS, Lau EH, Ngan ES, Cotton CU, Chow BK. The human

secretin receptor gene: genomic organization and promoter characterization. FEBS

Lett. 1999 Jul 23;455(3):209-14. PubMed PMID: 10437774.

648: Horvath K, Stefanatos G, Sokolski KN, Wachtel R, Nabors L, Tildon JT.

Improved social and language skills after secretin administration in patients

with autistic spectrum disorders. J Assoc Acad Minor Phys. 1998;9(1):9-15. PubMed

PMID: 9585670.

649: Wakefield AJ, Murch SH, Anthony A, Linnell J, Casson DM, Malik M, Berelowitz

M, Dhillon AP, Thomson MA, Harvey P, Valentine A, Davies SE, Walker-Smith JA.

Ileal-lymphoid-nodular hyperplasia, non-specific colitis, and pervasive

developmental disorder in children. Lancet. 1998 Feb 28;351(9103):637-41. Erratum

in: Lancet. 2004 Mar 6;363(9411):750. Retraction in: Lancet. 2010 Feb 6;375(9713):445. PubMed PMID: 9500320.

650: D'Eufemia P, Celli M, Finocchiaro R, Pacifico L, Viozzi L, Zaccagnini M, Cardi E, Giardini O. Abnormal intestinal permeability in children with autism. *Acta Paediatr.* 1996 Sep;85(9):1076-9. PubMed PMID: 8888921.

651: Hagopian LP, Farrell DA, Amari A. Treating total liquid refusal with backward chaining and fading. *J Appl Behav Anal.* 1996 Winter;29(4):573-5. PubMed PMID: 8995838; PubMed Central PMCID: PMC1284012.

652: Endoscopic ultrasound--a marriage of inconvenience? *Lancet.* 1987 Aug 22;2(8556):431-2. PubMed PMID: 2887730.

653: Minderaa RB, Anderson GM, Volkmar FR, Akkerhuis GW, Cohen DJ. Urinary 5-hydroxyindoleacetic acid and whole blood serotonin and tryptophan in autistic and normal subjects. *Biol Psychiatry.* 1987 Aug;22(8):933-40. PubMed PMID: 2440483.

654: Rosenberger-Debiesse J, Coleman M. Preliminary evidence for multiple etiologies in autism. *J Autism Dev Disord.* 1986 Sep;16(3):385-92. PubMed PMID: 3558295.

655: DeMyer MK, Bryson CQ, Churchill DW. The earliest indicators of pathological development: comparison of symptoms during infancy and early childhood in normal, subnormal, schizophrenic and autistic children. *Res Publ Assoc Res Nerv Ment Dis.* 1973;51:298-32. PubMed PMID: 4749605.