*References:*

Bercik P, V. E., Foster JA, Macri J, Potter M, Huang X, Malinowski P, Jackson W, Blennerhassett P, Neufeld KA, Lu J, Khan WI, Corthesy-Theulaz I, Cherbut C, Bergonzelli GE, Collins SM. 2010. Chronic gastrointestinal inflammation induces anxiety-like behavior and alters central nervous system biochemistry in mice. Gastroenterology. 139(6): 2102-2112.

Bested Alison C , A. C. Logan and E. M. Selhub. 2013 Intestinal microbiota, probiotics and mental health: from Metchnikoff to modern advances: part III – convergence toward clinical trials.Gut Pathogens 5(4).

Borovikova,L.V., Ivanova,S., Zhang,M., Yang,H., Botchkina,G.I., Watkins,L.R., et al. 2000. Vagus nerve stimulation attenuates the systemic inflammatory response to endotoxin. *Nature* 405, 458–462.

[Borre YE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Borre%20YE%5BAuthor%5D&cauthor=true&cauthor_uid=24997043), [Moloney RD](https://www.ncbi.nlm.nih.gov/pubmed/?term=Moloney%20RD%5BAuthor%5D&cauthor=true&cauthor_uid=24997043), [Clarke G](https://www.ncbi.nlm.nih.gov/pubmed/?term=Clarke%20G%5BAuthor%5D&cauthor=true&cauthor_uid=24997043), [Dinan TG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dinan%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=24997043), [Cryan JF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cryan%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=24997043). 2014 The impact of microbiota on brain and behavior: mechanisms & therapeutic potential. [Adv Exp Med Biol.](https://www.ncbi.nlm.nih.gov/pubmed/24997043) 817: 373-403.

Bourre, J. 2005. Dietary omega-3 fatty acids and psychiatry: mood, behavior, stress, depression, dementia and aging. J Nutr Health Aging 9 (1): 31-38.

Bravo JA, F. P., Chew MV, Escaravage E, Savignac HM, Dinan TG, Bienenstock J, Cryan JF. 2011. Ingestion of *Lactobacillus* strain regulates emotional behavior and central GABA receptor expression in a mouse via the vagus nerve." Proc Natl Acad Sci U S A.

Burokas A, [Arboleya S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Arboleya%20S%5BAuthor%5D&cauthor=true&cauthor_uid=28242013), Moloney RD, [Peterson VL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Peterson%20VL%5BAuthor%5D&cauthor=true&cauthor_uid=28242013), Murphy K, Clarke G, Stanton C, Dinan TG, Cryan JF. 2017 Targeting the Microbiota-Gut-Brain Axis: Prebiotics Have Anxiolytic and Antidepressant-like Effects and Reverse the Impact of Chronic Stress in Mice. [Biol Psychiatry.](https://www.ncbi.nlm.nih.gov/pubmed/28242013) 2017 82(7):472-487

Clarke,G., Quigley,E.M., Cryan,J.F.,and Dinan, T.G.2009.Irritable bowel syndrome: towards biomarker identification. *TrendsMol.Med.* 15, 478–489. doi:10.1016/j.molmed.2009.08.001

Collins,S.M.,and Bercik,P. 2013.Gutmicro- biota: intestinal bacteria influence brain activity in healthy humans. *Nat.Rev.Gastroenterol. Hepatol.* 10, 326–327.doi:10.1038/nrgastro. 2013.76

Coppen A1, B.-G. C. 2005. Treatment of depression: time to consider folic acid and vitamin B12. J Psychopharmacol. 19 (1): 59-65.

Cryan JF, Kaupmann K 2005 Don’t worry ‘B’ happy!: A role for GABA(B) receptors in anxiety and depression. Trends Pharmacol Sci 26:36–43.

[Desbonnet L](https://www.ncbi.nlm.nih.gov/pubmed/?term=Desbonnet%20L%5BAuthor%5D&cauthor=true&cauthor_uid=18456279), [Garrett L](https://www.ncbi.nlm.nih.gov/pubmed/?term=Garrett%20L%5BAuthor%5D&cauthor=true&cauthor_uid=18456279), [Clarke G](https://www.ncbi.nlm.nih.gov/pubmed/?term=Clarke%20G%5BAuthor%5D&cauthor=true&cauthor_uid=18456279), [Bienenstock J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bienenstock%20J%5BAuthor%5D&cauthor=true&cauthor_uid=18456279), [Dinan TG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dinan%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=18456279). 2008 The probiotic Bifidobacteria infantis: An assessment of potential antidepressant properties in the rat. [J Psychiatr Res.](https://www.ncbi.nlm.nih.gov/pubmed/18456279) Dec;43(2):164-74.

[Dinan TG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dinan%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=25772005), [Stilling RM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Stilling%20RM%5BAuthor%5D&cauthor=true&cauthor_uid=25772005), [Stanton C](https://www.ncbi.nlm.nih.gov/pubmed/?term=Stanton%20C%5BAuthor%5D&cauthor=true&cauthor_uid=25772005), [Cryan JF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cryan%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=25772005) 2015 Collective unconscious: how gut microbes shape human behavior. [J Psychiatr Res.](https://www.ncbi.nlm.nih.gov/pubmed/25772005) 63:1-9

[Dinan TG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dinan%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=25288135), [Borre YE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Borre%20YE%5BAuthor%5D&cauthor=true&cauthor_uid=25288135), Cryan JF 2014 Genomics of schizophrenia: time to consider the gut microbiome? [Mol Psychiatry.](https://www.ncbi.nlm.nih.gov/pubmed/25288135);19(12):1252-7.

# [Dinan TG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dinan%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=28806201), [Cryan JF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cryan%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=28806201). 2017 Brain-Gut-Microbiota Axis and Mental Health. [Psychosom Med.](https://www.ncbi.nlm.nih.gov/pubmed/28806201) 2017 Oct;79(8):920-926.

# *ElAidy, S. Dinan, T.G. and Cryan J.F. 2014* Immune modulation of the brain-gut-microbe axis Frontiers in microbiology OPINION ARTICLE*,49.*

# [El Aidy S](https://www.ncbi.nlm.nih.gov/pubmed/?term=El%20Aidy%20S%5BAuthor%5D&cauthor=true&cauthor_uid=26589226), [Stilling R](https://www.ncbi.nlm.nih.gov/pubmed/?term=Stilling%20R%5BAuthor%5D&cauthor=true&cauthor_uid=26589226), [Dinan TG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dinan%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=26589226), [Cryan JF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cryan%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=26589226) 2016 Microbiome to Brain: Unravelling the Multidirectional Axes of Communication. [Adv Exp Med Biol.](https://www.ncbi.nlm.nih.gov/pubmed/26589226) 2016; 874:301-36.

Freeman MP, H. J., Wisner KL, Davis JM, Mischoulon D, Peet M, Keck PE Jr, Marangell LB, Richardson AJ, Lake J, Stoll AL. 2006. Omega-3 fatty acids: evidence basis for treatment and future research in psychiatry. J Clin Psychiatry. 67(12): 1954-1967.

 Funkhouser, L. J., and Bordenstein, S. R. (2013). Mom knows best: the universality of maternal microbial transmission. *PLoS Biol*. 11:e1001631. doi: 10.1371/journal.pbio.1001631

Girard SA, B. T., Kaloustian S, Lada-Moldovan L, Rondeau I, Tompkins TA, Godbout R. 2009. *Lactobacillus helveticus* and *Bifidobacterium longum* taken in combination reduce the apoptosis propensity in the limbic system after myocardial infarction in a rat model. Br J Nutr. 102: 1420-1425.

 Goehler Lisa E , M. L., and Ron P.A. Gaykema 2007. Infection-induced viscerosensory signals from the gut enhance anxiety: implications for psychoneuroimmunology, [Brain Behav Immun. 21(6): 721–726.](https://www.ncbi.nlm.nih.gov/entrez/eutils/elink.fcgi?dbfrom=pubmed&retmode=ref&cmd=prlinks&id=17428636)

Harbour-McMenamin,D., Smith,E.M., and Blalock, J.E. 1985 . Bacterial lipopolysaccharide induction of leukocyte-derived corticotropin and endorphins. *Infect.Immun.* 48, 813–817.

Hibbeln JR, Salem N. Dietary polyunsaturated fatty acids and depression: When cholesterol does not satisfy. Am J Clin Nutr. 1995;62(1):1-9.

Hsiao, E.Y. McBride, S.W., Hsien, S. Sharon, G., Hyde, E.R., McCue, T., Codelli, J.A., Chow, J., Reisman, S.E., Petrosino, J.F. , Patterson, P.H. and Mazmanian, S.K. 2013. The microbiota modulates gut physiology and behavioural abnormalities associated with autism, Cell. 2013 December 19; 155(7): 1451–1463.

Jung IH, Jung MA, Kim EJ, Han MJ, Kim DH 2012 Lactobacillus pentosus var. plantarum C29 protects scopolamine-induced memory deficit in mice. J Appl Microbiol, 113:1498–1506

Karimi K, Inman MD, Bienenstock J, Forsythe P (2009) *Lactobacillus reuteri*-induced regulatory T cells protect against an allergic airway response in mice. Am J Respir Crit Care Med 179:186–193

[Kelly JR](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kelly%20JR%5BAuthor%5D&cauthor=true&cauthor_uid=28966571), [Minuto C](https://www.ncbi.nlm.nih.gov/pubmed/?term=Minuto%20C%5BAuthor%5D&cauthor=true&cauthor_uid=28966571), [Cryan JF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cryan%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=28966571), [Clarke G](https://www.ncbi.nlm.nih.gov/pubmed/?term=Clarke%20G%5BAuthor%5D&cauthor=true&cauthor_uid=28966571), [Dinan TG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dinan%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=28966571)2017 Cross Talk: The Microbiota and Neurodevelopmental Disorders. [Front Neurosci.](https://www.ncbi.nlm.nih.gov/pubmed/28966571) 11:490

Khanum, K. G. P. a. F. 2012 Neuroprotective potential of phytochemicals. Pharmacogn Rev. 6 (12): 81-90.

[Lach G](https://www.ncbi.nlm.nih.gov/pubmed/?term=Lach%20G%5BAuthor%5D&cauthor=true&cauthor_uid=29134359), Schellekens H, Dinan TG, Cryan JF 2018. Anxiety, Depression, and the Microbiome: A Role for Gut Peptides. [Neurotherapeutics.](https://www.ncbi.nlm.nih.gov/pubmed/29134359) 15(1):36-59.

Liu, H., Wang, X., Wang, H.-D., Wu, J., Ren, J., Meng, L., et al. (2012). *Escherichia coli* noncoding RNAs can affect gene expression and physiology of *Caenorhabditis elegans*. *Nat. Commun*. 3, 1073.

Logan AC, K. M. 2005. Major depressive disorder: probiotics may be an adjuvant therapy.Med Hypotheses.(64(3)): 533-538.

[Luczynski](https://www.ncbi.nlm.nih.gov/pubmed/?term=Luczynski%20P%5BAuthor%5D&cauthor=true&cauthor_uid=26912607), P.,  [McVey Neufeld](https://www.ncbi.nlm.nih.gov/pubmed/?term=McVey%20Neufeld%20KA%5BAuthor%5D&cauthor=true&cauthor_uid=26912607), K.,  [Oriach](https://www.ncbi.nlm.nih.gov/pubmed/?term=Oriach%20CS%5BAuthor%5D&cauthor=true&cauthor_uid=26912607), C. S, [Clarke](https://www.ncbi.nlm.nih.gov/pubmed/?term=Clarke%20G%5BAuthor%5D&cauthor=true&cauthor_uid=26912607), G., [Dinan](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dinan%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=26912607), T.G., and [Cryan](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cryan%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=26912607), J. F. 2016 Growing up in a Bubble: Using Germ-Free Animals to Assess the Influence of the Gut Microbiota on Brain and Behavior [Int J Neuropsychopharmacol.](https://www.ncbi.nlm.nih.gov/pubmed/26912607) 19(8)

Lyte,M.2011.Probiotics function mechanistically as delivery vehicles for neuroactive compounds: microbial endocrinology in the design and use of probiotics. *Bioessays* 33, 574–581.

Ma D, Forsythe P, Bienenstock J 2004 Live *Lactobacillus reuteri* is essential for the inhibitory effect on tumor necrosis factor alpha-induced interleukin-8 expression. Infect Immun 72:5308–5314.

 Maier,S.F.,Goehler,L.E.,Fleshner,M.,and Watkins,L.R.1998.The role of the vagus nerve in cytokine-to-brain communication. *Ann. N.Y.Acad.Sci.* 840, 289–300.

Matthews DM, Jenks SM: Effect of *Mycobacterium vaccae* on learning in mice, Proceedings of the American Society for Microbiology 110th General Meeting. San Diego, California: Poster 641; 2010

Matthews DM, J. S. 2013 Ingestion of Mycobacterium vaccae decreases anxiety-related behavior and improves learning in mice. Behav Processes. 96: 27-35.

Messaoudi M, L. R., Violle N, Javelot H, Desor D, Nejdi A, Bisson JF, Rougeot C, Pichelin M, Cazaubiel M, Cazaubiel JM. 2011. Assessment of psychotropic-like properties of a probiotic formulation (Lactobacillus helveticus R0052 and Bifidobacterium longum R0175) in rats and human subjects. Br J Nutr. 105(5): 755-764.

Messay B, L. A., Marsland AL. 2012. Current understanding of the bi-directional relationship of major depression with inflammation. Biol Mood Anxiety Disord. 2(4).

Miller AH, Maletic V, Raison CL. 2009 Inflammation and its discontents: the role of cytokines in the pathophysiology of major depression. Biol Psychiatry 2009, 65:732-741.

Moloney,R.D.,Desbonnet,L.,Clarke,G.,Dinan,T. G., and Cryan, .F.2014. The microbiome: stress, health and disease. *Mamm.Genome* 25, 49–74

[O'Mahony SM](https://www.ncbi.nlm.nih.gov/pubmed/?term=O'Mahony%20SM%5BAuthor%5D&cauthor=true&cauthor_uid=18723164)1, [Marchesi JR](https://www.ncbi.nlm.nih.gov/pubmed/?term=Marchesi%20JR%5BAuthor%5D&cauthor=true&cauthor_uid=18723164), [Scully P](https://www.ncbi.nlm.nih.gov/pubmed/?term=Scully%20P%5BAuthor%5D&cauthor=true&cauthor_uid=18723164), [Codling C](https://www.ncbi.nlm.nih.gov/pubmed/?term=Codling%20C%5BAuthor%5D&cauthor=true&cauthor_uid=18723164), [Ceolho AM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ceolho%20AM%5BAuthor%5D&cauthor=true&cauthor_uid=18723164), [Quigley EM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Quigley%20EM%5BAuthor%5D&cauthor=true&cauthor_uid=18723164), [Cryan JF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cryan%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=18723164), [Dinan TG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dinan%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=18723164). 2009. Early life stress alters behavior, immunity, and microbiota in rats: implications for irritable bowel syndrome and psychiatric illnesses. [Biol Psychiatry.](https://www.ncbi.nlm.nih.gov/pubmed/18723164) 2009 Feb 1;65(3):263-7.

Parker G, G. N., Brotchie H, Heruc G, Rees AM, Hadzi-Pavlovic D. 2006. Omega-3 fatty acids and mood disorders. Am J Psychiatry. 163(6): 969-978.

Rao A Venket, A. C. B., Tracey M Beaulne, Martin A Katzman, Christina Iorio, John M Berardi and Alan C Logan 2009. A randomized, double-blind, placebo-controlled pilot study of a probiotic in emotional symptoms of chronic fatigue syndrome. Gut Pathogens 1: 1-6.

Reardon,C., Duncan,G.S., Brüstle,A., Brenner, D., Tusche,M.W., Olofsson,P.S., et al.2013. Lymphocyte-derived A Ch regulates local innate but not adaptive immunity. *Proc.Natl.Acad.Sci. U.S.A.* 110, 1410–1415.doi:10.1073/pnas.1221 655110

Roshchina,V.V.2010.Evolutionary considerations of neurotransmitters in microbial, plant, and animalcells, in *Microbial Endocrinology: Interkingdom Signalingin Ifectious Diseases and Health*, eds M.Lyteand P.P.E. Freestone (New York,NY:Springer),17–52.

Rühl,A., and Collins, S.M.1997.Role of nitric oxide in norepinephrine release from myenteric plexus *in vitro* and in Trichinella spiralis-infected rats. *Neurogastroenterol.Motil.* 9, 33–39.

Rühl,A., Hurst,S., and Collins,S.M.1994. Synergism between interleukins 1beta and 6 on noradrenergic nerves in rat myenteric plexus. *Gastroenterology* 107, 993–1001.

Sánchez-Villegas A, Verberne L, De Irala J, Ruíz-Canela M, Toledo E, Serra-Majem L,

Martínez-González MA: Dietary fat intake and the risk of depression: the SUN Project. PLoS One 2011, 6:e16268.

Sánchez-Villegas A, T. E., de Irala J, Ruiz-Canela M, Pla-Vidal J, Martínez-González MA. 2012. Fast-food and commercial baked goods consumption and the risk of depression. Public Health Nutr. 15(3): 424-432.

Sandhu KV, [Sherwin E](https://www.ncbi.nlm.nih.gov/pubmed/?term=Sherwin%20E%5BAuthor%5D&cauthor=true&cauthor_uid=27832936), [Schellekens H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Schellekens%20H%5BAuthor%5D&cauthor=true&cauthor_uid=27832936), [Stanton C](https://www.ncbi.nlm.nih.gov/pubmed/?term=Stanton%20C%5BAuthor%5D&cauthor=true&cauthor_uid=27832936), [Dinan TG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dinan%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=27832936), [Cryan JF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cryan%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=27832936). 2017 Feeding the microbiota-gut-brain axis: diet, microbiome, and neuropsychiatry. [Transl Res.](https://www.ncbi.nlm.nih.gov/pubmed/27832936);179:223-244.

# [Sarkar A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Sarkar%20A%5BAuthor%5D&cauthor=true&cauthor_uid=27793434), [Lehto SM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Lehto%20SM%5BAuthor%5D&cauthor=true&cauthor_uid=27793434), [Harty S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Harty%20S%5BAuthor%5D&cauthor=true&cauthor_uid=27793434), [Dinan TG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dinan%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=27793434), [Cryan JF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cryan%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=27793434), [Burnet PWJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Burnet%20PWJ%5BAuthor%5D&cauthor=true&cauthor_uid=27793434). 2016 Psychobiotics and the Manipulation of Bacteria-Gut-Brain Signals.. [Trends Neurosci.](https://www.ncbi.nlm.nih.gov/pubmed/27793434) Nov;39(11):763-781

Selhub Eva M , A. C. L. a. A. C. B. 2014. Fermented foods, microbiota, and mental health: ancient practice meets nutritional psychiatry. J Physiol Anthropol. 33 (1): 2.

 Shen Q, S. N., Li P. 2011. In vitro and in vivo antioxidant activity of Bifidobacterium animalis 01 isolated from centenarians. Curr Microbiol. 62(4).

Shreiner,A., Huffnagle,G.B., and Noverr,M.C. 2008 The“microflora hypothesis” of allergic disease,” in *GI Microbiota and Regulation of the Immune System*, eds G.B.HuffnagleandM.C. Noverr (Landes Bioscience and Springer Science + Business Media)

Smith JC Jr, M. E., McBean LD, Doft FS, Halsted JA. 1972. Effect of microorganisms upon zinc metabolism using germfree and conventional rats. 1972;. J Nutr. 102: 711–719.

Spengler,R.N.,Allen,R.M.,Remick,D.G., Strieter,R.M.,andKunkel,S.L.1990. Stimulation of alpha-adrenergic receptor augments the production of macrophage- derived tumor necrosis factor. *J. Immunol.* 145, 1430–1434.

Sternberg,E.M.(1997).Neural-immune interactions in health and disease. *J. Clin.Invest.* 100, 2641–2647.

[Stilling RM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Stilling%20RM%5BAuthor%5D&cauthor=true&cauthor_uid=24286462), [Dinan TG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dinan%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=24286462), [Cryan JF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cryan%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=24286462). 2014 Microbial genes, brain & behaviour - epigenetic regulation of the gut-brain axis [Genes Brain Behav.](https://www.ncbi.nlm.nih.gov/pubmed/24286462) 2014 Jan;13(1):69-86

Stilling, R. M. Bordenstein, S. R., Dinan, T.G. and J.F. Cryan 2014 Friends with social benefits: host-microbe interactions as a driver of brain evolution and development? Front. Cell. Infect. Microbiol., 29 October 2014

 Strawn, M. R. K. a. J. R. 2013. Role of Long-Chain Omega-3 Fatty Acids in Psychiatric Practice. PharmaNutrition. 1(2): 41-49.

Sudo Nobuyuki, Y. C., Yuji Aiba, Junko Sonoda, Naomi Oyama, Xiao-Nian Yu, Chiharu Kubo and Yasuhiro Koga 2004. Postnatal microbial colonization programs the hypothalamic–pituitary–adrenal system for stress response in mice. J Physiol Anthropol. 558(1): 263-275.

Tillish K, J. L., L. Kilpatrick, Z. Jiang, J. Stains, B. Ebrati, D. Guyonnet, S. Legrain-Raspaud, B. Trotin, B. Naliboff and and E. A. Mayer 2013. Consumption of Fermented Milk Product With Probiotic Modulates Brain Activity. Gastroenterology. 144(7).

Yary T, A. S., Soleimannejad K. 2013. Dietary intake of magnesium may modulate depression. Biol Trace Elem Res. 151 (3): 324-329.

Wang,Y.,and Kasper,L.H.2013.The role of microbiome in central nervous system disorders. *Brain. Behav. Immun.* doi: 10.1016/j.bbi.2013.12.015

[Wiley NC](https://www.ncbi.nlm.nih.gov/pubmed/?term=Wiley%20NC%5BAuthor%5D&cauthor=true&cauthor_uid=28727115), [Dinan TG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dinan%20TG%5BAuthor%5D&cauthor=true&cauthor_uid=28727115), [Ross RP](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ross%20RP%5BAuthor%5D&cauthor=true&cauthor_uid=28727115), [Stanton C](https://www.ncbi.nlm.nih.gov/pubmed/?term=Stanton%20C%5BAuthor%5D&cauthor=true&cauthor_uid=28727115), [Clarke G](https://www.ncbi.nlm.nih.gov/pubmed/?term=Clarke%20G%5BAuthor%5D&cauthor=true&cauthor_uid=28727115), [Cryan JF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cryan%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=28727115). 2017 The microbiota-gut-brain axis as a key regulator of neural function and the stress response: Implications for human and animal health. [J Anim Sci.](https://www.ncbi.nlm.nih.gov/pubmed/28727115%22%20%5Co%20%22Journal%20of%20animal%20science.) 2017 Jul;95(7):3225-3246.