

References

- Abdou, A. M., S. Higashiguchi, K. Horie, et al. "Relaxation and Immunity Enhancement Effects of γ -Aminobutyric Acid (GABA) Administration in Humans." *BioFactors* 26, no. 3 (2006): 201-208. doi:10.1002/biof.5520260305.
- Anderson, E., and G. Shivakumar. "Effects of Exercise and Physical Activity on Anxiety." *Frontiers in Psychiatry* 4 (April 23, 2013): 27. doi:10.3389/fpsyg.2013.00027.
- Anderson, S., J. Panka, R. Rakobitsch, et al. "Anxiety and Methylenetetrahydrofolate Reductase Mutation Treated With S-Adenosyl Methionine and Methylated B Vitamins." *Integrative Medicine* 15, no. 2 (April 2016): 48-52.
- Archana, R., and A. Namasivayam. "Antistressor Effect of *Withania somnifera*." *Journal of Ethnopharmacology* 64, no. 1 (January 1999): 91-93. doi:10.1016/s0378-8741(98)00107-x.
- Bailey, M. T., S. E. Dowd, J. D. Galley, et al. "Exposure to a Social Stressor Alters the Structure of the Intestinal Microbiota: Implications for Stressor-induced Immunomodulation." *Brain, Behavior, and Immunity* 25, no. 3 (March 2011): 397-407. doi:10.1016/j.bbi.2010.10.023.
- Balon, R., and C. Ramesh. "Calcium Channel Blockers for Anxiety Disorders?" *Annals of Clinical Psychiatry* 8, no. 4 (December 1996): 215-220. doi:10.3109/10401239609147764.
- Banderet, L. E., and H. R. Lieberman. "Treatment with Tyrosine, a Neurotransmitter Precursor, Reduces Environmental Stress in Humans." *Brain Research Bulletin* 22, no. 4 (April 1989): 759-762. doi:10.1016/0361-9230(89)90096-8.

Bannai, M., N. Kawai, K. Ono, et al. "The Effects of Glycine on Subjective Daytime Performance in Partially Sleep-Restricted Healthy Volunteers." *Frontiers in Neurology* 3 (April 18, 2012). doi:10.3389/fneur.2012.00061.

Barbalho, S. M., R. D. A. Goulart, K. Quesada, et al. "Inflammatory Bowel Disease: Can Omega-3 Fatty Acids Really Help?" *Annals of Gastroenterology* 29, no. 1 (January-March 2016): 37-43.

Barrett, E., R. P. Ross, P. W. O'Toole, et al. "-Aminobutyric Acid Production by Culturable Bacteria from the Human Intestine." *Journal of Applied Microbiology* 113, no. 2 (August 2012): 411-417. doi:10.1111/j.1365-2672.2012.05344.x.

Bell, D. S. "Metformin-Induced Vitamin B12 Deficiency Presenting as a Peripheral Neuropathy." *Southern Medical Journal* 103, no. 3 (March 2010): 265-267. doi:10.1097/smj.0b013e3181ce0e4d.

Bedrosian, T. A., and R. J. Nelson. "Timing of Light Exposure Affects Mood and Brain Circuits." *Translational Psychiatry* 7, no. 1 (January 31, 2017). doi:10.1038/tp.2016.262.

Benton, D., and R. Cook. "The Impact of Selenium Supplementation on Mood." *Biological Psychiatry* 29, no. 11 (June 1, 1991): 1092-1098. doi:10.1016/0006-3223(91)90251-g.

Bercik, P., E. Denou, J.h Collins, et al. "The Intestinal Microbiota Affect Central Levels of Brain-Derived Neurotropic Factor and Behavior in Mice." *Gastroenterology* 141, no. 2 (August 2011): 599-609. doi:10.1053/j.gastro.2011.04.052.

Bhutada, P., Y. Mundhada, K. Bansod, et al. "Reversal by Quercetin of Corticotrophin Releasing Factor Induced Anxiety- and Depression-like Effect in Mice." *Progress in Neuro-Psychopharmacology and Biological Psychiatry* 34, no. 6 (August 16, 2010): 955-960. doi:10.1016/j.pnpbp.2010.04.025.

Bjelland, I., G. S. Tell, S. E. Vollset, et al. "Choline in Anxiety and Depression: The Hordaland Health Study." *The American Journal of Clinical Nutrition* 90, no. 4 (October 2009): 1056-1060. doi:10.3945/ajcn.2009.27493.

- Blessing, E. M., M. M. Steenkamp, J. Manzanares, et al. "Cannabidiol as a Potential Treatment for Anxiety Disorders." *Neurotherapeutics* 12, no. 4 (October 2015): 825-836. doi:10.1007/s13311-015-0387-1.
- Bode, L. "Human Milk Oligosaccharides: Prebiotics and beyond." *Nutrition Reviews* 67, no. 2 (November 2009): 183-191. doi:10.1111/j.1753-4887.2009.00239.x.
- Bolander-Gouaille, C., and T. Bottiglieri. *Homocysteine: Related Vitamins and Neuropsychiatric Disorders*. Paris: Springer, 2007.
- Boonstra, E., R. De Kleijn, L. S. Colzato, et al. "Neurotransmitters as Food Supplements: The Effects of GABA on Brain and Behavior." *Frontiers in Psychology* 6 (2015): 1520. doi:10.3389/fpsyg.2015.01520.
- Bouayed, J., H. Rammal, and R. Soulimani. "Oxidative Stress and Anxiety: Relationship and Cellular Pathways." *Oxidative Medicine and Cellular Longevity* 2, no. 2 (April-June 2009): 63-67. doi:10.4161/oxim.2.2.7944.
- Brooks, K., and J. Carter. "Overtraining, Exercise, and Adrenal Insufficiency." *Journal of Novel Physiotherapies* 03, no. 125 (February 16, 2013). doi:10.4172/2165-7025.1000125.
- Brown, E. M., M. Włodarska, B. P. Willing, et al. "Diet and Specific Microbial Exposure Trigger Features of Environmental Enteropathy in a Novel Murine Model." *Nature Communications* 6, no. 7086 (August 4, 2015). doi:10.1038/ncomms8806.
- Brown, K., D. DeCoffe, E. Molcan, et al. "Diet-Induced Dysbiosis of the Intestinal Microbiota and the Effects on Immunity and Disease." *Nutrients* 4, no. 8 (August 2012): 1095-1119. doi:10.3390/nu4081095.
- Buydens-Branchey, L., M. Branchey, and J. R. Hibbeln. "Associations between Increases in Plasma N-3 Polyunsaturated Fatty Acids following Supplementation and Decreases in Anger and Anxiety in Substance Abusers." *Progress in Neuro-Psychopharmacology and Biological Psychiatry* 32, no. 2 (February 15, 2008): 568-575. doi:10.1016/j.pnpbp.2007.10.020.
- Bystritsky, A., L. Kerwin, and J. D. Feusner. "A Pilot Study of Rhodiola Rosea (Rhodax®) for Generalized Anxiety Disorder (GAD)." *The Journal of Alternative and Complementary Medicine* 14, no. 2 (March 2008): 175-180. doi:10.1089/acm.2007.7117.

Campbell, A. W. "Autoimmunity and the Gut." *Autoimmune Diseases* 2014 (2014): 1-12. doi:10.1155/2014/152428.

Campos-Rodríguez, R., M. Godínez-Victoria, E. Abarca-Rojano, et al. "Stress Modulates Intestinal Secretory Immunoglobulin A." *Frontiers in Integrative Neuroscience* 7, (2013): 86. doi:10.3389/fnint.2013.00086.

Carhart-Harris, R. L., and D. J. Nutt. "Serotonin and Brain Function: A Tale of Two Receptors." *Journal of Psychopharmacology* 31, no. 9 (September 2017): 1091-1120. doi:10.1177/0269881117725915.

Carobrez, A. P., K. V. Teixeira, and F. G. Graeff. "Modulation of Defensive Behavior by Periaqueductal Gray NMDA/glycine-B Receptor." *Neuroscience & Biobehavioral Reviews* 25, no. 7-8 (December 2001): 697-709. doi:10.1016/s0149-7634(01)00059-8.

Caruso, I., P. Sarzi Puttini, M. Cazzola, et al. "Double-Blind Study of 5-Hydroxytryptophan versus Placebo in the Treatment of Primary Fibromyalgia Syndrome." *Journal of International Medical Research* 18, no. 3 (May/June 1990): 201-209. doi:10.1177/030006059001800304.

Cellik-Guzel, E., E. Bakkal, S. Guzel, et al. "Can Low Brain-derived Neurotrophic Factor Levels be a Marker of the Presence of Depression in obese Women?" *Neuropsychiatric Disease and Treatment* 10 (November 5, 2014): 2079-2086. doi:10.2147/ndt.s72087.

Chacko, S. M., P. T. Thambi, R. Kuttan, et al. "Beneficial Effects of Green Tea: A Literature Review." *Chinese Medicine* 5, (2010): 13. doi:10.1186/1749-8546-5-13.

Chandrasekhar, K., J. Kapoor, and S. Anishetty. "A Prospective, Randomized Double-blind, Placebo-controlled Study of Safety and Efficacy of a High-concentration Full-spectrum Extract of Ashwagandha Root in Reducing Stress and Anxiety in Adults." *Indian Journal of Psychological Medicine* 34, no. 3 (July 2012): 255-262. doi:10.4103/0253-7176.106022.

Chhatre, S., T. Nesari, D. Kanchan, et al. "Phytopharmacological Overview of *Tribulus terrestris*." *Pharmacognosy Reviews* 8, no. 15 (January-June 2014): 45-51. doi:10.4103/0973-7847.125530.

Chorney, D. B., M. F. Detweiler, T. L. Morris, et al. "The Interplay of Sleep Disturbance, Anxiety, and Depression in Children." *Journal of Pediatric Psychology* 33, no. 4 (May 2008): 339-348. doi:10.1093/jpepsy/jsm105.

- Comai, S., and G. Gobbi. "Unveiling the Role of Melatonin MT2 Receptors in Sleep, Anxiety and Other Neuropsychiatric Diseases: A Novel Target in Psychopharmacology." *Journal of Psychiatry & Neuroscience* 39, no. 1 (January 2014): 6-21. doi:10.1503/jpn.130009.
- Copeland, W. E., L. Shanahan, C. Worthman, A. Angold, and E. J. Costello. "Generalized Anxiety and C-reactive Protein Levels: A Prospective, Longitudinal Analysis." *Psychological Medicine* 42, no. 12 (2012): 2641-650. doi:10.1017/s0033291712000554.
- Crinnion, W. J. *The CDC Fourth National Report on Human Exposure to Environmental Chemicals*. Report. 2nd ed. Vol. 5. July 2009. 101-109.
- Dang-Vu, T. T., M. Desseilles, P. Peigneux, et al. "A Role for Sleep in Brain Plasticity." *Pediatric Rehabilitation* 9, no. 2 (April-June 2006): 98-118.
- De La Mora, M. P., A. Gallegos-Cari, Y. Arizmendi-García, et al. "Role of Dopamine Receptor Mechanisms in the Amygdaloid Modulation of Fear and Anxiety: Structural and Functional Analysis." *Progress in Neurobiology* 90, no. 2 (February 9, 2010): 198-216. doi:10.1016/j.pneurobio.2009.10.010.
- De Oliveira, I. J., V. V. De Souza, V. Motta, et al. "Effects of Oral Vitamin C Supplementation on Anxiety in Students: A Double-Blind, Randomized, Placebo-Controlled Trial." *Pakistan Journal of Biological Sciences* 18, no. 1 (January 2015): 11-18. doi:10.3923/pjbs.2015.11.18.
- Dickerson, F. B., C. Stallings, A. Origoni, et al. "Effect of Probiotic Supplementation on Schizophrenia Symptoms and Association With Gastrointestinal Functioning." *The Primary Care Companion For CNS Disorders* 16, no. 1 (2014). doi:10.4088/pcc.13m01579.
- Dinan, T. G., and J. F. Cryan. "Regulation of the Stress Response by the Gut Microbiota: Implications for Psychoneuroendocrinology." *Psychoneuroendocrinology* 37, no. 9 (September 2012): 1369-1378. doi:10.1016/j.psyneuen.2012.03.007.
- Dubey, V. K., F. Ansari, D. Vohora, et al. "Possible Involvement of Corticosterone and Serotonin in Antidepressant and Antianxiety Effects of Chromium Picolinate in Chronic Unpredictable Mild Stress Induced Depression and Anxiety in Rats." *Journal of Trace Elements in Medicine and Biology* 29 (January 2015): 222-226. doi:10.1016/j.jtemb.2014.06.014.

- Dulbecco, P., and V. Savarino. "Therapeutic Potential of Curcumin in Digestive Diseases." *World Journal of Gastroenterology* 19, no. 48 (December 28, 2013): 9256–9270. doi:10.3748/wjg.v19.i48.9256.
- Dum, R. P., D. J. Leinthal, and P. L. Strick. "Motor, Cognitive, and Affective Areas of the Cerebral Cortex Influence the Adrenal Medulla." *Proceedings of the National Academy of Sciences of the United States of America* 113, no. 35 (August 30, 2016): 9922–9927. doi:10.1073/pnas.1605044113.
- El Idrissi, A., and E. Trenkner. "Taurine as a Modulator of Excitatory and Inhibitory Neurotransmission." *Neurochemical Research* 29, no. 1 (January 2004): 189–197. doi:10.1023/b:nere.0000010448.17740.6e.
- Farach, F. J., L. D. Pruitt, J. J. Jun, et al. "Pharmacological Treatment of Anxiety Disorders: Current Treatments and Future Directions." *Journal of Anxiety Disorders* 26, no. 8 (December 2012): 833–843. doi:10.1016/j.janxdis.2012.07.009.
- Fenoglio, K. A., K. L. Brunson, and T. Z. Baram. "Hippocampal Neuroplasticity Induced by Early-life Stress: Functional and Molecular Aspects." *Frontiers in Neuroendocrinology* 27, no. 2 (July 2006): 180–192. doi:10.1016/j.yfrne.2006.02.001.
- Feusner, J. D., L. Kerwin, S. Saxena, et al. "Differential Efficacy of Memantine for Obsessive-compulsive Disorder vs. Generalized Anxiety Disorder: An Open-label Trial." *Psychopharmacology Bulletin* 42, no. 1 (2009): 81–93.
- Fioravanti, M., and A. E. Buckley. "Citicoline (Cognizin) in the Treatment of Cognitive Impairment." *Clinical Interventions in Aging* 1, no. 3 (2006): 247–251. doi:10.2147/ciia.2006.1.3.247.
- Forsythe, P., J. Bienenstock, and W. A. Kunze. "Vagal Pathways for Microbiome-Brain-Gut Axis Communication." *Advances in Experimental Medicine and Biology Microbial Endocrinology: The Microbiota-Gut-Brain Axis in Health and Disease* 817 (2014): 115–133. doi:10.1007/978-1-4939-0897-4_5.
- Freestone, P. P., M. Lyte, C. P. Neal, et al. "The Mammalian Neuroendocrine Hormone Norepinephrine Supplies Iron for Bacterial Growth in the Presence of Transferrin or Lactoferrin." *Journal of Bacteriology* 182, no. 21 (November 2000): 6091–6098. doi:10.1128/jb.182.21.6091-6098.2000.

- Galland, L. "The Gut Microbiome and the Brain." *Journal of Medicinal Food* 17, no. 12 (December 2014): 1261-1272. doi:10.1089/jmf.2014.7000.
- Gilbody, S., S. Lewis, and T. Lightfoot. "Methylenetetrahydrofolate Reductase (MTHFR) Genetic Polymorphisms and Psychiatric Disorders: A HuGE Review." *American Journal of Epidemiology* 165, no. 1 (January 1, 2007): 1-13. doi:10.1093/aje/kwj347.
- Goyal, M., S. Singh, E. M. S. Sibinga, et al. "Meditation Programs for Psychological Stress and Well-being." *JAMA Internal Medicine* 174, no. 3 (March 2014): 357-368. doi:10.1001/jamainternmed.2013.13018.
- Guo, S., R. Al-Sadi, H. M. Said, et al. "Lipopolysaccharide Causes an Increase in Intestinal Tight Junction Permeability in Vitro and in Vivo by Inducing Enterocyte Membrane Expression and Localization of TLR-4 and CD14." *The American Journal of Pathology* 182, no. 2 (February 2013): 375-387. doi:10.1016/j.ajpath.2012.10.014.
- Hasegawa, M., S. Yada, M., Z. Liu, et al. "Interleukin-22 Regulates the Complement System to Promote Resistance against Pathobionts after Pathogen-Induced Intestinal Damage." *Immunity* 41, no. 4 (October 16, 2014): 620-632. doi:10.1016/j.immuni.2014.09.010.
- Henschel, Angela M., Susanne M. Cabrera, Mary L. Kaldunski, Shuang Jia, Rhonda Geoffrey, Mark F. Roethle, Vy Lam, Yi-Guang Chen, Xujing Wang, Nita H. Salzman, and Martin J. Hessner. "Modulation of the Diet and Gastrointestinal Microbiota Normalizes Systemic Inflammation and -cell Chemokine Expression Associated with Autoimmune Diabetes Susceptibility." *Plos One* 13, no. 1 (January 02, 2018). doi:10.1371/journal.pone.0190351.
- Herman, J. P., J. M. McIlveen, S. Ghosal, et al. "Regulation of the Hypothalamic-Pituitary-Adrenocortical Stress Response." *Comprehensive Physiology* 6, no. 2 (March 15, 2016): 603-621. doi:10.1002/cphy.c150015.
- Hinz, M., A. Stein, and T. Uncini. "5-HTP Efficacy and Contraindications." *Neuropsychiatric Disease and Treatment* 8 (2012): 323-328. doi:10.2147/ndt.s33259.
- Hollon, Justin, Elaine Puppa, Bruce Greenwald, Eric Goldberg, Anthony Guerrero, and Alessio Fasano. "Effect of Gliadin on Permeability of Intestinal Biopsy Explants from Celiac Disease Patients and Patients with Non-Celiac Gluten Sensitivity." *Nutrients* 7, no. 3 (March 2015): 1565-576. doi:10.3390/nu7031565.

Irvine, D. G., W. Bayne, H. Miyashita, et al. "Identification of Kryptopyrrole in Human Urine and Its Relation to Psychosis." *Nature* 224, no. 5221 (November 22, 1969): 811-813. doi:10.1038/224811a0.

Ishihara, K., and T. Hirano. "IL-6 in Autoimmune Disease and Chronic Inflammatory Proliferative Disease." *Cytokine & Growth Factor Reviews* 13, no. 4-5 (August-October 2002): 357-68. doi:10.1016/s1359-6101(02)00027-8.

Ito, T., and R. T. Jensen. "Association of Long-Term Proton Pump Inhibitor Therapy with Bone Fractures and Effects on Absorption of Calcium, Vitamin B12, Iron, and Magnesium." *Current Gastroenterology Reports* 12, no. 6 (December 2010): 448-457. doi:10.1007/s11894-010-0141-0.

Jahnen-Dechent, W., and M. Ketteler. "Magnesium Basics." *Clinical Kidney Journal* 5, no. 1 (February 2012). doi:10.1093/ndtplus/sfr163.

Jerath, R., J. W. Edry, V. A. Barnes, et al. "Physiology of Long Pranayamic Breathing: Neural Respiratory Elements May Provide a Mechanism That Explains How Slow Deep Breathing Shifts the Autonomic Nervous System." *Medical Hypotheses* 67, no. 3 (2006): 566-571. doi:10.4172/2157-7595.1000252.

Jiang, H., T. Xie, D. B. Ramsden, et al. "Human Catechol-O-methyltransferase Down-regulation by Estradiol." *Neuropharmacology* 45, no. 7 (December 1, 2003): 1011-1018. doi:10.1016/s0028-3908(03)00286-7.

Juneja, L. R., D. C. Chu, T. Okubo, et al. "L-theanine—a Unique Amino Acid of Green Tea and Its Relaxation Effect in Humans." *Trends in Food Science & Technology* 10, no. 6-7 (June 1999): 199-204. doi:10.1016/s0924-2244(99)00044-8.

Kennedy, D. O. "B Vitamins and the Brain: Mechanisms, Dose and Efficacy—A Review." *Nutrients* 8, no. 2 (January 27, 2016): 68. doi:10.3390/nu8020068.

Kennedy, D. O., W. Little, and A. B. Scholey. "Attenuation of Laboratory-Induced Stress in Humans After Acute Administration of Melissa officinalis (Lemon Balm)." *Psychosomatic Medicine* 66, no. 4 (July/August 2004): 607-613. doi:10.1097/01.psy.0000132877.72833.71.

Kim, S. H., S. H. Baik, C. S. Park, et al. "Reduced Striatal Dopamine D2 Receptors in People with Internet Addiction." *NeuroReport* 22, no. 8 (June 11, 2011): 407-411. doi:10.1097/wnr.0b013e328346e16e.

Kimura, I., D. Inoue, T. Maeda, et al. "Short-chain Fatty Acids and Ketones Directly Regulate Sympathetic Nervous System via G Protein-coupled Receptor 41 (GPR41)." *Proceedings of the National Academy of Sciences* 108, no. 19 (May 10, 2011): 8030-8035. doi:10.1073/pnas.1016088108.

Kimura, K., M. Ozeki, L. R. Juneja, et al. "L-Theanine Reduces Psychological and Physiological Stress Responses." *Biological Psychology* 74, no. 1 (January 2007): 39-45. doi:10.1016/j.biopsych.2006.06.006.

King, D. E., A. G. Mainous, M. E. Geesey, et al. "Dietary Magnesium and C-reactive Protein Levels." *Journal of the American College of Nutrition* 24, no. 3 (June 2005): 166-171. doi:10.1080/07315724.2005.10719461.

Kobayashi, K. "Role of Catecholamine Signaling in Brain and Nervous System Functions: New Insights from Mouse Molecular Genetic Study." *Journal of Investigative Dermatology Symposium Proceedings* 6, no. 1 (November 2001): 115-121. doi:10.1046/j.0022-202x.2001.00011.x.

Kozloski, M. J., L. P. Schumm, and M. K. McClintock. "The Utility and Dynamics of Salivary Sex Hormone Measurements in the National Social Life, Health, and Aging Project, Wave 2." *The Journals of Gerontology: Series B* 69, no. Issue Suppl_2 (November 2014): S215-S228. doi:10.1093/geronb/gbu123.

Lakhan, S. E., and K. F. Vieira. "Nutritional Therapies for Mental Disorders." *Nutrition Journal* 7, no. 2 (January 21, 2008). doi:10.1186/1475-2891-7-2.

Lam, J. R., J. L. Schneider, W. Zhao, et al. "Proton Pump Inhibitor and Histamine 2 Receptor Antagonist Use and Vitamin B12 Deficiency." *JAMA* 310, no. 22 (December 11, 2013): 2435-2442. doi:10.1001/jama.2013.280490.

Lee, B., B. Sur, M. Yeom, et al. "Effect of Berberine on Depression- and Anxiety-Like Behaviors and Activation of the Noradrenergic System Induced by Development of Morphine Dependence in Rats." *The Korean Journal of Physiology & Pharmacology* 16, no. 6 (December 2012): 379-386. doi:10.4196/kjpp.2012.16.6.379.

Lenze, E. J., R. C. Mantella, P. Shi, et al. "Elevated Cortisol in Older Adults With Generalized Anxiety Disorder Is Reduced by Treatment: A Placebo-Controlled Evaluation of Escitalopram." *The American Journal of Geriatric Psychiatry* 19, no. 5 (May 2011): 482-490. doi:10.1097/jgp.0b013e3181ec806c.

Lionetti, E., S. Leonardi, C. Franzonello, et al. "Gluten Psychosis: Confirmation of a New Clinical Entity." *Nutrients* 7, no. 7 (July 2015): 5532-5539. doi:10.3390/nu7075235.

Liu, T., and J. Borjigin. "Relationship between Nocturnal Serotonin Surge and Melatonin Onset in Rodent Pineal Gland." *Journal of Circadian Rhythms* 4 (September 27, 2006): 12. doi:10.1186/1740-3391-4-12.

Lomax, A. R., and P. C. Calder. "Probiotics, Immune Function, Infection and Inflammation: A Review of the Evidence from Studies Conducted in Humans." *Current Pharmaceutical Design* 15, no. 13 (2009): 1428-1518. doi:10.2174/138161209788168155.

López-Corcuera, B., A. Geerlings, and C. Aragón. "Glycine Neurotransmitter Transporters: An Update." *Molecular Membrane Biology* 18, no. 1 (January-March 2001): 13-20. doi:10.1080/09687680120521.

MacDonald, T. T., and S. L. F. Pender. "Proteolytic Enzymes in Inflammatory Bowel Disease." *Inflammatory Bowel Diseases* 4, no. 2 (May 1998): 157-164. doi:10.1002/ibd.3780040211.

Maes, M., M. Kubera, J. C. Leunis. "The Gut-Brain Barrier in Major Depression: Intestinal Mucosal Dysfunction with an Increased Translocation of LPS from Gram Negative Enterobacteria (Leaky Gut) Plays a Role in the Inflammatory Pathophysiology of Depression." *Neuro Endocrinology Letters* 29, no. 1 (February 2008): 117-124.

Mahapatra, A. "Overeating, Obesity, and Dopamine Receptors." *ACS Chemical Neuroscience* 1, no. 5 (May 19, 2010): 346-347. doi:10.1021/cn100044y.

Maintz, L., and N. Novak. "Histamine and Histamine Intolerance." *The American Journal of Clinical Nutrition* 85, no. 5 (May 1, 2007): 1185-1196. doi:10.1093/ajcn/85.5.1185.

Manichanh, C., J. Reeder, P. Gibert, E. Varela, M. Llopis, M. Antolin, R. Guigo, R. Knight, and F. Guarner. "Reshaping the Gut Microbiome with

Bacterial Transplantation and Antibiotic Intake." *Genome Research* 20, no. 10 (October 2010): 1411-419. doi:10.1101/gr.107987.110.

Marriott, B. M. *Food Components to Enhance Performance: An Evaluation of Potential Performance-enhancing Food Components for Operational Rations*. Washington, D.C.: National Academy Press, 1994.

Martinucci, I., C. Blandizzi, N. De Bortoli, et al. "Genetics and Pharmacogenetics of Aminergic Transmitter Pathways in Functional Gastrointestinal Disorders." *Pharmacogenomics* 16, no. 5 (2015): 523-539. doi:10.2217/pgs.15.12.

McCarty, M. F. "High-dose Pyridoxine as an 'anti-stress' Strategy." *Medical Hypotheses* 54, no. 5 (May 2000): 803-807. doi:10.1054/mehy.1999.0955.

Meaden, S., and B. Koskella. "Exploring the Risks of Phage Application in the Environment." *Frontiers in Microbiology* 4 (November 29, 2013): 358. doi:10.3389/fmicb.2013.00358.

Meyers, S. "Use of Neurotransmitter Precursors for Treatment of Depression." *Alternative Medicine Review* 5, no. 1 (February 2000): 64-71.

Milles SS, Muggia AL, Spiro HM. Colonic histological changes induced by 5-fluorouracil. *Gastroenterology*. 1962;43:391.

Monteleone, P., L. Beinat, C. Tanzillo, et al. "Effects of Phosphatidylserine on the Neuroendocrine Response to Physical Stress in Humans." *Neuroendocrinology* 52, no. 3 (September 1990): 243-248. doi:10.1159/000125593.

Moorthy, D., I. Peter, T. M. Scott, et al. "Status of Vitamins B-12 and B-6 but Not of Folate, Homocysteine, and the Methylenetetrahydrofolate Reductase C677T Polymorphism Are Associated with Impaired Cognition and Depression in Adults." *The Journal of Nutrition* 142, no. 8 (August 2012): 1554-1560. doi:10.3945/jn.112.161828.

Moreira, C. G., R. Russell, A. A. Mishra, et al. "Bacterial Adrenergic Sensors Regulate Virulence of Enteric Pathogens in the Gut." Edited by C. S. Hardwood. *MBio* 7, no. 3 (June 7, 2016): 1-14. doi:10.1128/mbio.00826-16.

Mueller, N. T., E. Bakacs, J. Combellick, et al. "The Infant Microbiome Development: Mom Matters." *Trends in Molecular Medicine* 21, no. 2 (February 2015): 109-117. doi:10.1016/j.molmed.2014.12.002.

Mulder, R. T., and C. M. Frampton. "Outcome of Mood Disorders before Psychopharmacology: A Systematic Review." *Australian & New Zealand Journal of Psychiatry* 48, no. 3 (March 2014): 224-236. doi:10.1177/0004867413514490.

Onken, J. E., P. K. Greer, B. Calingaert, et al. "Bromelain Treatment Decreases Secretion of Pro-inflammatory Cytokines and Chemokines by Colon Biopsies in Vitro." *Clinical Immunology* 126, no. 3 (March 2008): 345-352. doi:10.1016/j.clim.2007.11.002.

Opara, E. C., A. Petro, A. Tevrizian, et al. "L-Glutamine Supplementation of a High Fat Diet Reduces Body Weight and Attenuates Hyperglycemia and Hyperinsulinemia in C57BL/6J Mice." *The Journal of Nutrition* 126, no. 1 (January 01, 1996): 273-279. doi:10.1093/jn/126.1.273.

Padayatty, S. J., J. L. Doppman, R. Chang, et al. "Human Adrenal Glands Secrete Vitamin C in Response to Adrenocorticotrophic Hormone." *The American Journal of Clinical Nutrition* 86, no. 1 (July 1, 2007): 145-149. doi:10.1093/ajcn/86.1.145.

Pizzorno, J. "Glutathione!" *Integrative Medicine* 13, no. 1 (February 2014): 8-12.

Paine, N. J., L. L. Watkins, J. A. Blumenthal, et al. "Association of Depressive and Anxiety Symptoms With 24-Hour Urinary Catecholamines in Individuals With Untreated High Blood Pressure." *Psychosomatic Medicine* 77, no. 2 (February/March 2015): 136-144. doi:10.1097/psy.0000000000000144.

Palatnik, A., K. Frolov, M. Fux, et al. "Double-Blind, Controlled, Crossover Trial of Inositol Versus Fluvoxamine for the Treatment of Panic Disorder." *Journal of Clinical Psychopharmacology* 21, no. 3 (June 2001): 335-339. doi:10.1097/00004714-200106000-00014.

Papakostas, G. I., D. Mischoulon, I. Shyu, et al. "S-Adenosyl Methionine (SAMe) Augmentation of Serotonin Reuptake Inhibitors for Antidepressant Nonresponders With Major Depressive Disorder: A Double-Blind, Randomized Clinical Trial." *American Journal of Psychiatry* 167, no. 8 (August 2010): 942-948. doi:10.1176/appi.ajp.2009.09081198.

Rahal, A., A. Kumar, V. Singh, et al. "Oxidative Stress, Prooxidants, and Antioxidants: The Interplay." *BioMed Research International* 2014 (January 23, 2014): 1-19. doi:10.1155/2014/761264.

- Rao, T. S. S., M. R. Asha, B. N. Ramesh, et al. "Understanding Nutrition, Depression and Mental Illnesses." *Indian Journal of Psychiatry* 50, no. 2 (April-June 2008): 77-82. doi:10.4103/0019-5545.42391.
- Rautava, S., and W. A. Walker. "Commensal Bacteria and Epithelial Cross Talk in the Developing Intestine." *Current Gastroenterology Reports* 9, no. 5 (October 2007): 385-392. doi:10.1007/s11894-007-0047-7.
- Reddy, D. S., B. W. O'Malley, and M. A. Rogawski. "Anxiolytic Activity of Progesterone in Progesterone Receptor Knockout Mice." *Neuropharmacology* 48, no. 1 (January 2005): 14-24. doi:10.1016/j.neuropharm.2004.09.002.
- Reynolds, E. "Vitamin B12, Folic Acid, and the Nervous System." *The Lancet Neurology* 5, no. 11 (November 2006): 949-960. doi:10.1016/s1474-4422(06)70598-1.
- Risbrough, V. B., and M. B. Stein. "Role of Corticotropin Releasing Factor in Anxiety Disorders: A Translational Research Perspective." *Hormones and Behavior* 50, no. 4 (November 2006): 550-561. doi:10.1016/j.yhbeh.2006.06.019.
- Robinson, K. J., and W. G. Gossman. *Palpitations*. Treasure Island, FL: StatPearls Publishing, 2018. June 14, 2017. <https://www.ncbi.nlm.nih.gov/books/NBK436016/>.
- Robinson, L., and R. Miller. "The Impact of Bisphenol A and Phthalates on Allergy, Asthma, and Immune Function: A Review of Latest Findings." *Current Environmental Health Reports* 2, no. 4 (December 2015): 379-387. doi:10.1007/s40572-015-0066-8.
- Russo, A. J. "Decreased Zinc and Increased Copper in Individuals with Anxiety." *Nutrition and Metabolic Insights* 4 (February 7, 2011): 1-5. doi:10.4137/nmi.s6349.
- Rybaczuk, L. A., M. J. Bashaw, D. R. Pathak, S. M. Moody, R. M. Gilders, and D. L. Holzschu. "An Overlooked Connection: Serotonergic Mediation of Estrogen-related Physiology and Pathology." *BMC Womens Health* 5, no. 12 (December 20, 2005). doi:10.1186/1472-6874-5-12.
- Saha, D. C., and R. A. Reimer. "Long-term Intake of a High Prebiotic Fiber Diet but Not High Protein Reduces Metabolic Risk after a High Fat Challenge and Uniquely Alters Gut Microbiota and Hepatic Gene

- Expression."Nutrition Research34, no. 9 (September 2014): 789-796. doi:10.1016/j.nutres.2014.08.004.
- Sahin, K., M. Onderci, M. Tuzcu, et al. "Effect of Chromium on Carbohydrate and Lipid Metabolism in a Rat Model of Type 2 Diabetes Mellitus: The Fat-fed, Streptozotocin-treated Rat."Metabolism56, no. 9 (September 1, 2007): 1233-1240. doi:10.1016/j.metabol.2007.04.021.
- Sakakeeny, L., R. Roubenoff, M. Obin, et al. "Plasma Pyridoxal-5-Phosphate Is Inversely Associated with Systemic Markers of Inflammation in a Population of U.S. Adults."The Journal of Nutrition142, no. 7 (July 2012): 1280-1285. doi:10.3945/jn.111.153056.
- Sandvik, A. K., J. J. Holst, and H. L. Waldum. "The Effect of Gastrin-Releasing Peptide on Acid Secretion and the Release of Gastrin, Somatostatin, and Histamine in the Totally Isolated, Vascularly Perfused Rat Stomach."Scandinavian Journal of Gastroenterology24, no. 1 (January 1989): 9-15. doi:10.3109/00365528909092232.
- Sansone, R. A., and L. A. Sansone. "SSRIs: Bad to the Bone?"Innovations in Clinical Neuroscience9, no. 7-8 (July 2012): 42-47.
- Sarris, J., G. I. Papakostas, O. Vitolo, et al. "S-adenosyl Methionine (SAMe) versus Escitalopram and Placebo in Major Depression RCT: Efficacy and Effects of Histamine and Carnitine as Moderators of Response."Journal of Affective Disorders164 (August 1, 2014): 76-81. doi:10.1016/j.jad.2014.03.041.
- Sartori, S. B., N. Whittle, A. Hetzenauer, et al. "Magnesium Deficiency Induces Anxiety and HPA Axis Dysregulation: Modulation by Therapeutic Drug Treatment."Neuropharmacology62, no. 1 (January 2012): 304-312. doi:10.1016/j.neuropharm.2011.07.027.
- Schmidt, K., P. J. Cowen, C. J. Harmer, et al. "Prebiotic Intake Reduces the Waking Cortisol Response and Alters Emotional Bias in Healthy Volunteers."European Neuropsychopharmacology232, no. 10 (May 2015): 1793-1801. doi:10.1007/s00213-014-3810-0.
- Scimemi, A., and M. Beato. "Determining the Neurotransmitter Concentration Profile at Active Synapses."Molecular Neurobiology40, no. 3 (December 2009): 289-306. doi:10.1007/s12035-009-8087-7.
- Selhub, E. M., A. C. Logan, and A. C. Bested. "Fermented Foods, Microbiota, and Mental Health: Ancient Practice Meets Nutritional

Psychiatry."Journal of Physiological Anthropology33, no. 1 (2014): 2. doi:10.1186/1880-6805-33-2.

Sharma, C., B. Sadek, S. N. Goyal, et al. "Small Molecules from Nature Targeting G-Protein Coupled Cannabinoid Receptors: Potential Leads for Drug Discovery and Development."Evidence-Based Complementary and Alternative Medicine2015 (2015): 1-26. doi:10.1155/2015/238482.

Simmons, Henry E., and Paul D. Stolley. "This Is Medical Progress?"JAMA227, no. 9 (March 04, 1974): 1023-028. doi:10.1001/jama.1974.03230220013002.

Slominski, A., I. Semak, A. Pisarchik, et al. "Conversion OfL-tryptophan to Serotonin and Melatonin in Human Melanoma Cells."FEBS Letters511, no. 1-3 (January 30, 2002): 102-106. doi:10.1016/s0014-5793(01)03319-1.

Smeland, O. B., T. W. Meisingset, K. Borges, et al. "Chronic Acetyl-L-carnitine Alters Brain Energy Metabolism and Increases Noradrenaline and Serotonin Content in Healthy Mice."Neurochemistry International61, no. 1 (July 2012): 100-107. doi:10.1016/j.neuint.2012.04.008.

Söderholm, J. D., and M. H. Perdue. "Stress and gastrointestinal tract. II. Stress and intestinal barrier function."Physiology of the Gastrointestinal Tract 280, no. 1 (January 2001): 763-780. doi:10.1016/b978-012088394-3/50031-3.

Tufan, A. E., R. Bilici, G. Usta, et al. "Mood Disorder with Mixed, Psychotic Features Due to Vitamin B12 Deficiency in an Adolescent: Case Report."Child and Adolescent Psychiatry and Mental Health6, no. 1 (June 22, 2012): 25. doi:10.1186/1753-2000-6-25.

Solomonia, R., N. Gogichaishvili, M. Nozadze, et al. "Myo-Inositol Treatment and GABA-A Receptor Subunit Changes After Kainate-Induced Status Epilepticus."Cellular and Molecular Neurobiology33, no. 1 (January 2013): 119-127. doi:10.1007/s10571-012-9877-4.

Stahl, S. M., J. F. Pradko, B. R. Haight, et al. "A Review of the Neuropharmacology of Bupropion, a Dual Norepinephrine and Dopamine Reuptake Inhibitor."The Primary Care Companion to The Journal of Clinical Psychiatry6, no. 4 (2004): 159-166. doi:10.4088/pcc.v06n0403.

Staner, L. "Sleep and Anxiety Disorders."Dialogues in Clinical Neuroscience5, no. 3 (September 2003): 249-258.

Starks, M. A., S. L. Starks, M. Kingsley, et al. "The Effects of Phosphatidylserine on Endocrine Response to Moderate Intensity Exercise." *Journal of the International Society of Sports Nutrition* 5 (2008): 11. doi:10.1186/1550-2783-5-11.

Straub, R. H., R. Wiest, U. G. Strauch, et al. "The Role of the Sympathetic Nervous System in Intestinal Inflammation." *Gut* 55, no. 11 (November 2006): 1640-1649. doi:10.1136/gut.2006.091322.

Taiwo, A., F. B. Leite, G. M. Lucena, et al. "Anxiolytic and Antidepressant-like Effects of *Melissa officinalis* (lemon Balm) Extract in Rats: Influence of Administration and Gender." *Indian Journal of Pharmacology* 44, no. 2 (March 2012): 189-192. doi:10.4103/0253-7613.93846.

Van Epps, Heather L. "René Dubos: Unearthing Antibiotics." *The Journal of Experimental Medicine* 203, no. 2 (February 20, 2006): 259. doi:10.1084/jem.2032fta.

Walsham, N. E., and R. A. Sherwood. "Fecal Calprotectin in Inflammatory Bowel Disease." *Clinical and Experimental Gastroenterology* 9, no. 21 (January 28, 2016): 21-29. doi:10.2147/ceg.s51902.

Wang, L., T. J. Maher, and R. J. Wurtman. "Oral L-glutamine Increases GABA Levels in Striatal Tissue and Extracellular Fluid." *The FASEB Journal* 21, no. 4 (April 2007): 1227-1232. doi:10.1096/fj.06-7495com.

Wichers, M. C., G. H. Koek, G. Robaeys, et al. "IDO and Interferon- α induced Depressive Symptoms: A Shift in Hypothesis from Tryptophan Depletion to Neurotoxicity." *Molecular Psychiatry* 10, no. 6 (June 2004): 538-544. doi:10.1038/sj.mp.4001600.

Willmann, R., and C. Fuhrer. "Neuromuscular Synaptogenesis: Clustering of Acetylcholine Receptors Revisited." *Cellular and Molecular Life Sciences (CMLS)* 59, no. 8 (August 2002): 1296-1316. doi:10.1007/s00018-002-8509-4.

Wood, G. E., E. H. Norris, E. Waters, et al. "Chronic Immobilization Stress Alters Aspects of Emotionality and Associative Learning in the Rat." *Behavioral Neuroscience* 122, no. 2 (April 2008): 282-292. doi:10.1037/0735-7044.122.2.282.

Wu, A., E. E. Noble, E. Tyagi, et al. "Curcumin Boosts DHA in the Brain: Implications for the Prevention of Anxiety Disorders." *Biochimica Et*

Biophysica Acta (BBA) - Molecular Basis of Disease 1852, no. 5 (May 2015): 951-961. doi:10.1016/j.bbadi.2014.12.005.

Yakimova, K., H. Sann, H. A. Schmid, et al. "Effects of GABA Agonists and Antagonists on Temperature-sensitive Neurones in the Rat Hypothalamus." *The Journal of Physiology* 494, no. 1 (July 1, 1996): 217-230. doi:10.1113/jphysiol.1996.sp021486.

Yoshikawa, T., T. Nakamura, T. Shibakusa, et al. "Insufficient Intake of L-Histidine Reduces Brain Histamine and Causes Anxiety-Like Behaviors in Male Mice." *The Journal of Nutrition* 144, no. 10 (October 2014): 1637-1641. doi:10.3945/jn.114.196105.

Young, S. N. "L-Tyrosine to Alleviate the Effects of Stress?" *Journal of Psychiatry & Neuroscience* 32, no. 3. (May 2007): 224.

Zeisel, S. H., and K. A. da Costa. "Choline: An Essential Nutrient for Public Health." *Nutrition Reviews* 67, no. 11 (November 2009): 615-623. doi:10.1111/j.1753-4887.2009.00246.x.

Zhang, Z., A. S. Adelman, D. Rai, et al. "Amino Acid Profiles in Term and Preterm Human Milk through Lactation: A Systematic Review." *Nutrients* 5, no. 12 (December 2013): 4800-4821. doi:10.3390/nu5124800.