

- Aboukhatwa, M., Dosanjh, L., Luo, Y., 2010. Antidepressants are a rational complementary therapy for the treatment of Alzheimer's disease. *Mol. Neurodegener.* 5(10):1-17.
- Anacker, C., Zunszain, P.A., Cattaneo, A., Carvalho, L.A., Garabedian, M.J., Thuret, S., et al., 2011. Antidepressants increase human hippocampal neurogenesis by activating glucocorticoid receptor. *Mol. Psychiatry.* 16(7):738-750.
- Andrus, B.M., Blizinsky, K., Vedell, P.T., Dennis, K., Shukla, P.K., Schaffer, D.J., et al., 2012. Gene expression patterns in the hippocampus and amygdala of endogenous depression and chronic stress models. *Mol. Psychiatry.* 17:49-61.
- Asnis, G.M., Kohn, S.R., Henderson M., Brown, N.L., 2004. SSRIs versus Non-SSRIs in Post-traumatic Stress Disorder An Update with Recommendations. *Drugs.* 64(4):383-404.
- Astur, R.S., Germain, S.A.S., Tolin, D., Ford, J., Russell, D., Stevens, M., 2006. Hippocampus Function Predicts Severity of Post-Traumatic Stress Disorder. *Cyberpsychol. Behav.* 9(2):234-240.
- Baumeister P., Luo, S., Skarnes, W.C., Sui, G., Seto, E., Shi, Y., et al., 2005. Endoplasmic Reticulum Stress Induction of the Grp78/BiP Promoter: Activating Mechanisms Mediated by YY1 and Its Interactive Chromatin Modifiers. *Mol. Cell. Biol.* 25(11):4529-4540.
- Berumen, L.C., Rodríguez, A., Miledi, R., García-Alcocer, G., 2012. Serotonin Receptors in Hippocampus. *Sci. World J.* 2012: 1-15.
- Capoccia, S., Berry, A., Bellisario V., Vacirca, D., Ortona, E., Alleva, E., et al., 2013. Quality and Timing of Stressors Differentially Impact on Brain Plasticity and Neuroendocrine-Immune Function in Mice. *Neural Plast.* 2013:1-8.
- Chen, G., Gong, M., Yan, M., Zhang, X. 2013. Sevoflurane Induces Endoplasmic Reticulum Stress Mediated Apoptosis in Hippocampal Neurons of Aging Rats. *PLOS ONE.* 8(2):1-8.
- David, & Arkeman, H., 2008. Evaluation of the oral toxicity of formaldehyde in rats. *Univ. Med.* 27(3):106-112.
- Diamond, D.M., Campbell, A.M., Park, C.R., Woodson, J.C., Conrad, C.D., Bachstetter, A.D., et al., 2006. Influence of predator stress on the consolidation versus retrieval of the long-term spatial memory and hippocampal spinogenesis. *Hippocampus.* 16:571-576.
- Food and Drug Administration, 2014. *Zoloft (sertraline hydrochloride) Tablets and Oral Concentrate.* Food and Drug Administration, Rockville.

Friedman, M.J., Marmar, C.R., Baker, D.G., Sikes, C.R., Farfel, G.M., 2007. Randomized, double-blind comparison of sertraline and placebo for posttraumatic stress disorder in a department of veterans affairs setting. *J. Clin. Psychiatry*. 68:711-720.

Fujita, E., Kuroku, Y., Jimbo, A., Isoai, A., Maruyama, K., Momoi, T., 2002. Caspase-12 processing and fragment translocation into nuclei of tunicamycin-treated cells. *Cell Death Differ*. 9:1108-1114.

Gorbatyuk, M.S. & Gorbatyuk, O.S., 2013. The Molecular Chaperone GRP78/BiP as a Therapeutic Target for Neurodegenerative Disorders: A Mini Review. *J. Genet. Syndr. Gene Ther*. 4(2):1-4.

Han, F., Yan, S., Shi Y., 2013. Single-Prolonged Stress Induces Endoplasmic Reticulum - Dependent Apoptosis in the Hippocampus in a Rat Model of Post-Traumatic Stress Disorder. *PLOS ONE*. 8(7):1-12.

Hart, J.J., Kimbrell, T., Fauver, P., Cherry, B.J., Pitcock, J., Booe, L.Q., et al., 2008. Cognitive Dysfunctions Associated With PTSD: Evidence from World War II Prisoners of War. *J. Neuropsych. Clin. N*. 20:309–316.

Hashimoto, K., 2009. Sigma-1 Receptors and Selective Serotonin Reuptake Inhibitors: Clinical Implications of their Relationship. *Cent. Nerv. Syst. Agents. Med. Chem*. 9:197-204.

Hayashi, T. & Su, T., 2007. Sigma-1 Receptor Chaperones at the ER-Mitochondrion Interface Regulate Ca<sup>2+</sup> Signaling and Cell Survival. *Cell*. 131:596–610.

Henze, D.A., Wittner, L., Buzsáki, G., 2002. Single granule cells reliably discharge targets in the hippocampal CA3 network *in vivo*. *Nat. Neurosci*. 5(8):790-795.

Hindmarch, I. & Hashimoto, K., 2010. Cognition and depression: the effects of fluvoxamine, a sigma-1 receptor agonist, reconsidered. *Hum. Psychopharmacol. Clin. Exp*. 25:193–200.

Ishima, T., Fujita, Y., Kohno, M., Kunitachi, S., Horio, M., Takatsu, Y., et al., 2009. Improvement of Phencyclidine-Induced Cognitive Deficits in Mice by Subsequent Subchronic Administration of Fluvoxamine, but not Sertraline. *Open Clin. Chem. J*. 2:7-11.

Ishisaka, M., Kudo, T., Shimazawa, M., Kakefuda, K., Oyagi, A., Hyakkoku, K., et al., 2011. Restraint-Induced Expression of Endoplasmic Reticulum Stress-Related Genes in the Mouse Brain. *Pharmacol. Pharm*. 2:10-16.

Joca, S.R.L, Ferreira, F.R., Guimarães, F.S., 2007. Modulation of stress consequences by hippocampal monoaminergic, glutamatergic and nitrenergic neurotransmitter systems. *Stress*. 10(3):227-249.

Jurgens, C.W., Hammar, H.M., Lichter, J.A., Boese, S.J., Nelson, BW, Goldenstein, B.L, et al., 2007. Alpha2A adrenergic receptor activation inhibits epileptiform activity in the rat hippocampal CA3 region. *Mol. Pharmacol.* 71(6):1572-1581.

Kays, J.L., Hurley, R.A., Taber, KH., 2012. The Dynamic Brain: Neuroplasticity and Mental Health. *J. Neuropsych. Clin. N.* 24(2):118-124.

Kim, J.J. & Diamond, D.M., 2002. The stressed hippocampus, synaptic plasticity and lost memories. *Nat. Rev. Neurosci.* 3:453-462.

Kogure, K., Nakamura, K., Ikeda, S., Kitahara, Y., Nishimura, T., Iwamune, M., et al., 2012. Glucose-Regulated Protein, 78-kilodalton as a Modulator of Luteinizing Hormone Receptor Expression in Luteinizing Granulosa Cells in Rats. *Biol. Reprod.* 2012:1-29.

Liu, X., Wang, M., Chen, H., Guo, Y., Ma, F., Shi, F., et al., 2013. Hypothermia Protects the Brain from Transient Global Ischemia/Reperfusion by Attenuating Endoplasmic Reticulum Response-Induced Apoptosis through CHOP. *PLOS ONE.* 8(1):1-8.

Logue, S.E., Gorman, A.M., Cleary, P., Keogh, N., Samali, A., 2013. Currents Concepts in ER Stress-Induced Apoptosis. *J. Carcinog. Mutagen.* 6: 1-7.

Malhotra, J.D. & Kaufman, R.J., 2011. ER Stress and Its Functional Link to Mitochondria: Role in Cell Survival and Death. *Cold Spring Harb. Perspect. Biol.* 3:1-13.

Monleon, S., Vinader-Caerols, C., Arenas, M.C., Parra, A., 2008. Antidepressant drugs and memory: Insights from animal studies. *Eur. Neuropsychopharmacol.* 18:235-248

Murrough, J.W., Czermak, C., Henry, S., Nabulsi, N., Gallezot, J., Gueorguieva, R., et al., 2011. The Effect of Early Trauma Exposure on Serotonin Type 1B Receptor Expression Revealed by Reduced Selective Radioligand Binding. *Arch. Gen. Psychiatry.*;68(9):892-900.

Nakazawa, K., McHugh, T.J, Wilson, M.A., Tonegawa, S., 2004. NMDA Receptors, Place Cells and Hippocampal Spatial Memory. *Nat. Rev. Neurosci.* 5:361-372.

Nishimura, T., Ishima, T., Iyo, M., Hashimoto, K., 2008. Potentiation of Nerve Growth Factor-Induced Neurite Outgrowth by Fluvoxamine: Role of Sigma-1 Receptors, IP3 Receptors and Cellular Signaling Pathways. *PLOS ONE.* 3(7):1-9.

Noori, N., Bangash, M.Y., Motaghinejad, M., Hosseini, P., Noudoost, B., 2014. Kefir protective effects against nicotine cessation-induced anxiety and cognition impairments in rats. *Adv. Biomed. Res.* 3:1-7.

Oquendo, M., Brent, D.A., Birmaher, B., Greenhill, L., Kolko, D., Stanley, B., et al., 2005. Posttraumatic Stress Disorder Comorbid With Major Depression: Factors Mediating the Association With Suicidal Behavior. *Am. J. Psychiatry.* 162:560-566.

Pal, A., Fontanilla, D., Gopalakrishnan, A., Chae, Y., Markley, J.L., Ruoho, A.E., 2012. The sigma-1 receptor protects against cellular oxidative stress and activates antioxidant response elements. *Eur. J. Pharmacol.* 682:1-19.

Pereira, C.M.F., 2013. Crosstalk between Endoplasmic Reticulum Stress and Protein Misfolding in Neurodegenerative Diseases. *ISRN Cell Biol.* 2013:1-22.

Pitman, R.K., Rasmusson, A.M., Koenen, K.C., Shin, L.M., Orr, S.P., Gilbertson, M.W., et al., 2012. Biological studies of post-traumatic stress disorder. *Nat. Rev. Neurosci.* 13:769-787.

Racek, T., Buhlmann, S., Rüst, F., Knoll, S., Alla, V., Pützer, B.M., 2008. Transcriptional repression of the Prosurvival Endoplasmic Reticulum Chaperone GRP78/BIP by E2F1. *J. Biol. Chem.* 283:34305-34314.

Ravindran, L.N. & Stein, M.B., 2009. Pharmacotherapy of PTSD: Premises, principles, and priorities. *Brain Res.* 2009:1-16.

Schönthal, A.H., 2012. Endoplasmic Reticulum Stress: Its Role in Disease and Novel Prospects for Therapy. *Scientifica.* 2012:1-26.

Serafini, G., 2012. Neuroplasticity and major depression, the role of modern antidepressant drugs. *World J. Psychiatry.* 2(3):49-57.

Shin, L.M., Shin, P.S., Heckers, S., Krangel, T.S., Macklin, M.L., Orr, S.P., et al. 2004. Hippocampal Function in Posttraumatic Stress Disorder. *Hippocampus.* 14:292-300.

Taler, M., Miron, O., Gil-Ad, I., Weizman, A., 2013. Neuroprotective and procognitive effects of sertraline: *In vitro* and *in vivo* studies. *Neurosci. Lett.* 550(2013):93-97.

van Waarde, A., Ramakrishnan, N.K., Rybczynska, A.A., Elsinga, P.H., Ishiwata, K., Nijholt, I.M., et al., 2011. The cholinergic system, sigma-1 receptors and cognition. *Behav. Brain Res.* 221:543-554.

Wang, H.N., Peng, Y., Tan, Q.R., Chen, Y.C., Zhang, R.G., Qiao, Y.T., et al., 2010. Quetiapine Ameliorates Anxiety-Like Behavior and Cognitive Impairments in Stressed Rats: Implications for the Treatment of Posttraumatic Stress Disorder. *Physiol. Res.* 59: 263-271.

Wann, B.P., Bah, T.M., Boucher, M., Courtemanche, J., Marec, N.L., Rousseau, G., et al., 2007. Vulnerability for apoptosis in the limbic system after myocardial infarction in rats: a possible model for human postinfarct major depression. *J. Psychiatry Neurosci.* 32(1):11-6.

Wible, C.G., 2013. Hippocampal Physiology, Structure and Function and the Neuroscience of Schizophrenia: A Unified Account of Declarative Memory Deficits, Working Memory Deficits and Schizophrenic Symptoms. *Behav. Sci.* 3:298-315.

Williams, B.L. & Lipkin, W.I., 2006. Endoplasmic Reticulum Stress and Neurodegeneration in Rats Neonatally Infected with Borna Disease Virus. *J. Virol.* 80(17):8613-8626.

Yamamoto, S., Morinobu, S., Takei, S., Fuchikami, M., Matsuki, A., Yamawaki S., et al., 2009. Single prolonged stress: toward an animal model of posttraumatic stress disorder. *Depress. Anxiety.* 26:1110-1117.