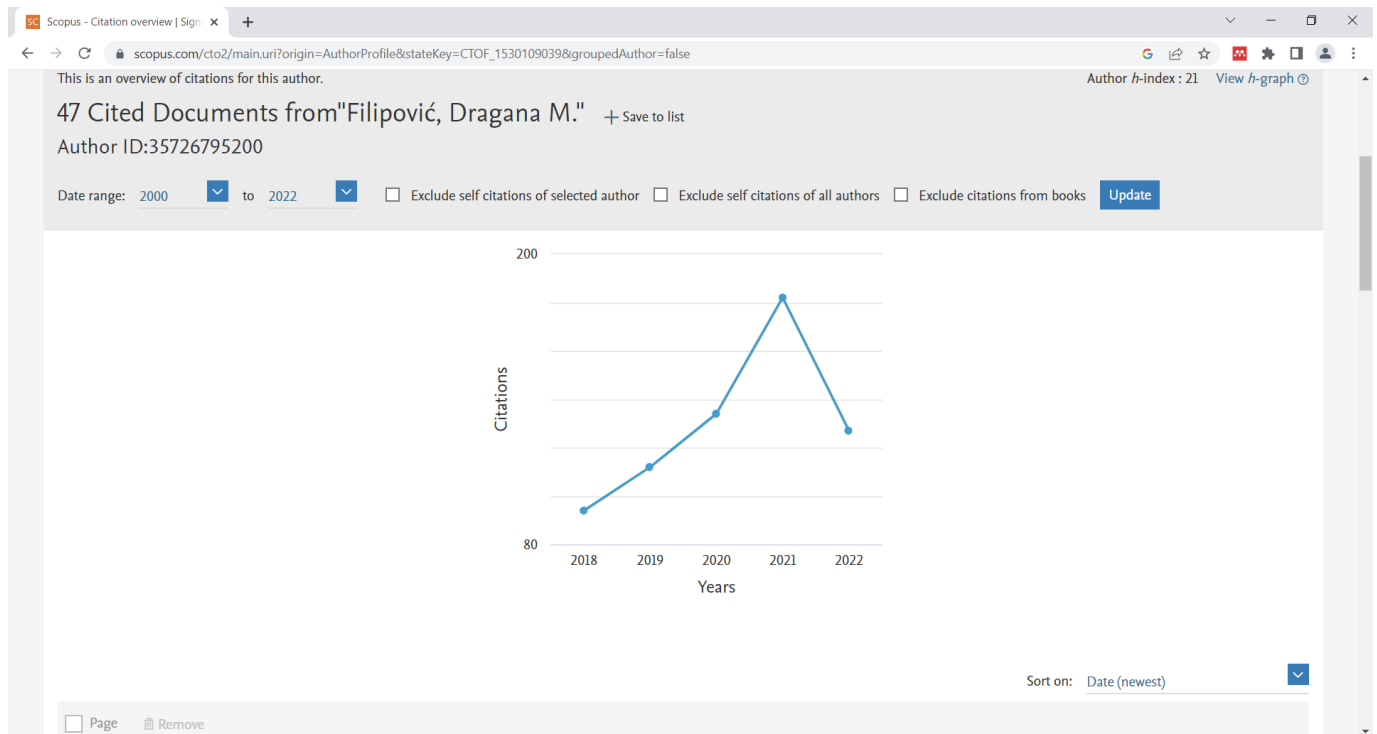


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Tianeptine modulates synaptic vesicle dynamics and favors synaptic mitochondria processes in socially isolated rats

Perić, I., Costina, V., Djordjević, S., ...Borgwardt, S., **Filipović, D.**

Scientific Reports, 2021, 11(1), 17747

Heterocitat : 1

Citiran u :

Zhang H, Chen Y, Zhang J, Li C, Zhang Z, Pan C, Cheng S, Yang X, Meng P, Jia Y, Wen Y, Liu H, Zhang F. Assessing the joint effects of mitochondrial function and human behavior on the risks of anxiety and depression. *J Affect Disord.* 2022 Oct 5; 320:561-567. doi: 10.1016/j.jad.2022.09.157.

Fluoxetine exerts subregion/layer specific effects on parvalbumin/GAD67 protein expression in the dorsal hippocampus of male rats showing social isolation-induced depressive-like behaviour

Perić, I., Stanisavljević, A., Gass, P., **Filipović, D.**

Brain Research Bulletin, 2021, 173, pp. 174–183

Heterocitati : 3

Citiran u :

Mehla J, Deibel SH, Karem H, Hossain S, Lacoursiere SG, Sutherland RJ, Mohajerani MH, McDonald RJ. Dramatic impacts on brain pathology, anxiety, and cognitive function in the knock-in APP^{NL-G-F} mouse model of Alzheimer disease following long-term voluntary exercise. *Alzheimers Res Ther.* 2022 Sep 30;14(1):143. doi: 10.1186/s13195-022-01085-6. PMID: 36180883; PMCID: PMC9526288.

Keloglan Musuroglu S, Ozturk DM, Sahin L, Cevik OS, Cevik K. Environmental enrichment as a strategy: Attenuates the anxiety and memory impairment in social isolation stress. *Int J Dev Neurosci.* 2022 Oct;82(6):499-512. doi: 10.1002/jdn.10205. Epub 2022 Jun 28. PMID: 35724417.

Perez-Rando M, Carceller H, Castillo-Gomez E, Bueno-Fernandez C, García-Mompó C, Gilabert-Juan J, Guirado R, Pesarico AP, Nacher J. Impact of stress on inhibitory neuronal circuits, our tribute to Bruce McEwen. *Neurobiol Stress.* 2022 May 13; 19:100460. doi: 10.1016/j.ynstr.2022.100460. PMID: 35734023; PMCID: PMC9207718.

Hippocampal synaptoproteomic changes of susceptibility and resilience of male rats to chronic social isolation

Perić, I., Costina, V., Gass, P., Findeisen, P., **Filipović, D.**

Brain Research Bulletin, 2021, 166, pp. 128–141

Heterocitat : 1

Citiran u :

Larosa A, Wong TP. The hippocampus in stress susceptibility and resilience: Reviewing molecular and functional markers. *Prog Neuropsychopharmacol Biol Psychiatry.* 2022 Dec 20;119:110601. doi: 10.1016/j.pnpbp.2022.110601. Epub 2022 Jul 13. PMID: 35842073.

Tianeptine Enhances Energy-related Processes in the Hippocampal Non-synaptic Mitochondria in a Rat Model of Depression

Perić, I., Costina, V., Findeisen, P., Gass, P., **Filipović, D.**

Neuroscience, 2020, 451, pp. 111–125

Heterocitati : 3

Citiran u :

Elias E, Zhang AY, Manners MT. Novel Pharmacological Approaches to the Treatment of Depression. *Life (Basel).* 2022 Jan 28;12(2):196. doi: 10.3390/life12020196. PMID: 35207483; PMCID: PMC8879976.

Song X, Zheng Q, Zhang R, Wang M, Deng W, Wang Q, Guo W, Li T, Ma X. Potential Biomarkers for Predicting Depression in Diabetes Mellitus. *Front Psychiatry.* 2021 Nov 29; 12:731220. doi: 10.3389/fpsy.2021.731220. PMID: 34912246; PMCID: PMC8667273.

Głombik K, Budziszewska B, Basta-Kaim A. Mitochondria-targeting therapeutic strategies in the treatment of depression. *Mitochondrion*. 2021 May;58:169-178. doi: 10.1016/j.mito.2021.03.006. Epub 2021 Mar 22. PMID: 33766747.

Fluoxetine modulates neuronal activity in stress-related limbic areas of adult rats subjected to the chronic social isolation

Stanisavljević, A., Perić, I., Gass, P., ...Borgwardt, S., **Filipović, D.**

Brain Research Bulletin, 2020, 163, pp. 95–108

Heterocitat : 1

Citiran u :

Sah A, Kharitonova M, Mlyniec K. Neuronal correlates underlying the role of the zinc sensing receptor (GPR39) in passive-coping behaviour. *Neuropharmacology*. 2021 Oct 15;198:108752. doi: 10.1016/j.neuropharm.2021.108752. Epub 2021 Aug 12. PMID: 34390690.

Social isolation stress-resilient rats reveal energy shift from glycolysis to oxidative phosphorylation in hippocampal nonsynaptic mitochondria

Filipović, D., Perić, I., Costina, V., ...Gass, P., Findeisen, P.

Life Sciences, 2020, 254, 117790

Heterocitati : 4

Citiran u :

Sah A, Kharitonova M, Mlyniec K. Neuronal correlates underlying the role of the zinc sensing receptor (GPR39) in passive-coping behaviour. *Neuropharmacology*. 2021 Oct 15;198:108752. doi: 10.1016/j.neuropharm.2021.108752. Epub 2021 Aug 12. PMID: 34390690.

Sfera A, Osorio C, Rahman L, Zapata-Martín Del Campo CM, Maldonado JC, Jafri N, Cummings MA, Maurer S, Kozlakidis Z. PTSD as an Endothelial Disease: Insights From COVID-19. *Front Cell Neurosci*. 2021 Oct 29;15:770387. doi: 10.3389/fncel.2021.770387. PMID: 34776871; PMCID: PMC8586713.

Li, Y., Cai, X., Lu, Z., (...), Wang, Q., Wu, Y. Effect of Fluoxetine on Metabolic Diversity of Intestinal Microbiota in Rats With Depression | [氟西汀对抑郁模型大鼠肠道菌群代谢多样性的影响] 2021. *Chinese Journal of Gastroenterology* 26(6), pp. 342-347

Rappeneau V, Wilmes L, Touma C. Molecular correlates of mitochondrial dysfunctions in major depression: Evidence from clinical and rodent studies. *Mol Cell Neurosci*. 2020 Dec;109:103555. doi: 10.1016/j.mcn.2020.103555. Epub 2020 Sep 23. PMID: 32979495.

Clozapine increased c-Fos protein expression in several brain subregions of socially isolated rats

Stanisavljević, A., Perić, I., Bernardi, R.E., Gass, P., **Filipović, D.**

Brain Research Bulletin, 2019, 152, pp. 35–44

Heterocitati 6:

Citiran u :

Rocha A, Bellaver B, Souza DG, Schu G, Fontana IC, Venturin GT, Greggio S, Fontella FU, Schiavenin ML, Machado LS, Miron D, da Costa JC, Rosa-Neto P, Souza DO, Pellerin L, Zimmer ER. Clozapine induces astrocyte-dependent FDG-PET hypometabolism. *Eur J Nucl Med Mol Imaging*. 2022 Jun;49(7):2251-2264. doi: 10.1007/s00259-022-05682-3. Epub 2022 Feb 5. PMID: 35122511.

de Oliveira RP, de Andrade JS, Spina M, Chamon JV, Silva PHD, Werder AK, Ortolani D, Thomaz LSC, Romariz S, Ribeiro DA, Longo BM, Spadari RC, Viana MB, Melo-Thomas L, Céspedes IC, da Silva RCB. Clozapine prevented social interaction deficits and reduced c-Fos immunoreactivity expression in several brain areas of rats exposed to acute restraint stress. *PLoS One*. 2022 Mar 3;17(3):e0262728. doi: 10.1371/journal.pone.0262728. PMID: 35239670; PMCID: PMC8893644.

Taheri Zadeh Z, Rahmani S, Alidadi F, Joushi S, Esmailpour K. Depression, anxiety and other cognitive consequences of social isolation: Drug and non-drug treatments. *Int J Clin Pract.* 2021 Dec;75(12):e14949. doi: 10.1111/ijcp.14949. Epub 2021 Oct 14. PMID: 34614276.

Rowson SA, Pleil KE. Influences of Stress and Sex on the Paraventricular Thalamus: Implications for Motivated Behavior. *Front Behav Neurosci.* 2021 Feb 26;15:636203. doi: 10.3389/fnbeh.2021.636203. PMID: 33716683; PMCID: PMC7953143.

Rong-lin, C., Xue-fang, S., Qing, Y., (...), Xiao-tong, W., Ling, H. Effect of electroacupuncture pretreatment on the protein expression of c-fos in fastigial nucleus and lateral hypothalamus area in rats with acute myocardial ischemia-reperfusion injury | [电针预处理对急性心肌缺血再灌注损伤大鼠小脑顶核及下丘脑外侧区c-fos 蛋白表达的影响] 2021. *Journal of Acupuncture and Tuina Science* 19(1), pp. 10-18

Prakash N, Stark CJ, Keisler MN, Luo L, Der-Avakian A, Dulcis D. Serotonergic Plasticity in the Dorsal Raphe Nucleus Characterizes Susceptibility and Resilience to Anhedonia. *J Neurosci.* 2020 Jan 15;40(3):569-584. doi: 10.1523/JNEUROSCI.1802-19.2019. Epub 2019 Dec 2. PMID: 31792153; PMCID: PMC6961996.

Tianeptine antagonizes the reduction of PV+ and GAD67 cells number in dorsal hippocampus of socially isolated rats

Ivana, P., Andrijana, S., Dragos, I., ...Stefan, B., **Filipović, D.**
Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2019, 89, pp. 386–399
Heterocitati 9:
Citiran u :

Chen Y, Pan C, Cheng S, Li C, Zhang H, Zhang Z, Zhang J, Yao Y, Meng P, Yang X, Liu L, Cheng B, Jia Y, Wen Y, Zhang F. The interaction of early life factors and depression-associated loci affecting the age at onset of the depression. *Transl Psychiatry.* 2022 Jul 25;12(1):294. doi: 10.1038/s41398-022-02042-5. PMID: 35879288; PMCID: PMC9314326.

Zhou, H., Zhu, J., Jia, J., (...), Mu, Y., Lu, Y. The antidepressant effect of nucleus accumbens deep brain stimulation is mediated by parvalbumin-positive interneurons in the dorsal dentate gyrus 2022. *Neurobiology of Stress* 21,100492

Perez-Rando M, Carceller H, Castillo-Gomez E, Bueno-Fernandez C, García-Mompó C, Gilabert-Juan J, Guirado R, Pesarico AP, Nacher J. Impact of stress on inhibitory neuronal circuits, our tribute to Bruce McEwen. *Neurobiol Stress.* 2022 May 13;19:100460. doi: 10.1016/j.ynstr.2022.100460. PMID: 35734023; PMCID: PMC9207718.

Morais FA, Lemos IS, Matiola RT, Freitas MLS, Alano CG, Cabral J, Wessler LB, Generoso JS, Scaini G, Réus GZ, Streck EL. Coadministration of tianeptine alters behavioral parameters and levels of neurotrophins in a chronic model of Maple Syrup Urine disease. *Metab Brain Dis.* 2022 Jun;37(5):1585-1596. doi: 10.1007/s11011-022-00969-8. Epub 2022 Apr 8. PMID: 35394251.

Perlman G, Tanti A, Mechawar N. Parvalbumin interneuron alterations in stress-related mood disorders: A systematic review. *Neurobiol Stress.* 2021 Aug 12;15:100380. doi: 10.1016/j.ynstr.2021.100380. PMID: 34557569; PMCID: PMC8446799.

Wang J, Tang J, Liang X, Luo Y, Zhu P, Li Y, Xiao K, Jiang L, Yang H, Xie Y, Zhang L, Deng Y, Li J, Tang Y. Hippocampal PGC-1 α -mediated positive effects on parvalbumin interneurons are required for the antidepressant effects of running exercise. *Transl Psychiatry.* 2021 Apr 15;11(1):222. doi: 10.1038/s41398-021-01339-1. PMID: 33859158; PMCID: PMC8050070.

Czéh B, Simon M. Benefits of animal models to understand the pathophysiology of depressive disorders. *Prog Neuropsychopharmacol Biol Psychiatry*. 2021 Mar 2;106:110049. doi: 10.1016/j.pnpbp.2020.110049. Epub 2020 Jul 29. PMID: 32735913.

Dos Santos LC, Junqueira Ayres DD, de Sousa Pinto ÁA, Silveira MA, Albino MC, Holanda VAD, Lima RH, André E, Padovan CM, Gavioli EC, de Paula Soares V. Early and late behavioral consequences of ethanol withdrawal: focus on brain indoleamine 2,3 dioxygenase activity. *Alcohol*. 2021 Feb;90:1-9. doi: 10.1016/j.alcohol.2020.09.006. Epub 2020 Oct 5. PMID: 33031882.

Spijker S, Koskinen MK, Riga D. Incubation of depression: ECM assembly and parvalbumin interneurons after stress. *Neurosci Biobehav Rev*. 2020 Nov;118:65-79. doi: 10.1016/j.neubiorev.2020.07.015. Epub 2020 Jul 17. PMID: 32687884.

Brain Sub/Region-Specific Effects of Olanzapine on c-Fos Expression of Chronically Socially Isolated Rats

Stanisavljević, A., Perić, I., Gass, P., ...Borgwardt, S., **Filipović, D.**

Neuroscience, 2019, 396, pp. 46–65

Heterocitati 12:

Citiran u :

Guven EB, Pranic NM, Unal G. The differential effects of brief environmental enrichment following social isolation in rats. *Cogn Affect Behav Neurosci*. 2022 Aug;22(4):818-832. doi: 10.3758/s13415-022-00989-y. Epub 2022 Feb 23. PMID: 35199313; PMCID: PMC8865499.

Zhou G, Hu Y, Wang A, Guo M, Du Y, Gong Y, Ding L, Feng Z, Hou X, Xu K, Yu F, Li Z, Ba Y. Fluoride Stimulates Anxiety- and Depression-like Behaviors Associated with SIK2-CRTC1 Signaling Dysfunction. *J Agric Food Chem*. 2021 Nov 17;69(45):13618-13627. doi: 10.1021/acs.jafc.1c04907. Epub 2021 Nov 4. PMID: 34735150.

Küçükler S, Kandemir FM, Özdemir S, Çomaklı S, Caglayan C. Protective effects of rutin against deltamethrin-induced hepatotoxicity and nephrotoxicity in rats via regulation of oxidative stress, inflammation, and apoptosis. *Environ Sci Pollut Res Int*. 2021 Nov;28(44):62975-62990. doi: 10.1007/s11356-021-15190-w. Epub 2021 Jul 3. PMID: 34218375.

Sah A, Kharitonova M, Mlyniec K. Neuronal correlates underlying the role of the zinc sensing receptor (GPR39) in passive-coping behaviour. *Neuropharmacology*. 2021 Oct 15;198:108752. doi: 10.1016/j.neuropharm.2021.108752. Epub 2021 Aug 12. PMID: 34390690.

Felippe RM, Oliveira GM, Barbosa RS, Esteves BD, Gonzaga BMS, Horita SIM, Garzoni LR, Beghini DG, Araújo-Jorge TC, Fragozo VMS. Experimental Social Stress: Dopaminergic Receptors, Oxidative Stress, and c-Fos Protein Are Involved in Highly Aggressive Behavior. *Front Cell Neurosci*. 2021 Aug 17;15:696834. doi: 10.3389/fncel.2021.696834. PMID: 34489642; PMCID: PMC8418094.

Pohl TT, Jung O, Di Benedetto B, Young LJ, Bosch OJ. Microglia react to partner loss in a sex- and brain site-specific manner in prairie voles. *Brain Behav Immun*. 2021 Aug;96:168-186. doi: 10.1016/j.bbi.2021.05.026. Epub 2021 May 28. PMID: 34058309; PMCID: PMC8319132.

Yadav, R. Mutational conservation, evolutionary and functional understanding of proto-oncogene c-fos. 2021 *Journal of Experimental Biology and Agricultural Sciences* 9(4), pp. 464-471.

Sanson A, Riva MA. Anti-Stress Properties of Atypical Antipsychotics. *Pharmaceuticals (Basel)*. 2020 Oct 20;13(10):322. doi: 10.3390/ph13100322. PMID: 33092112; PMCID: PMC7589119.

Armstrong JL, Casey AB, Saraf TS, Mukherjee M, Booth RG, Canal CE. (S)-5-(2'-Fluorophenyl)-N,N-dimethyl-1,2,3,4-tetrahydronaphthalen-2-amine, a Serotonin Receptor Modulator, Possesses

Anticonvulsant, Prosocial, and Anxiolytic-like Properties in an *Fmr1* Knockout Mouse Model of Fragile X Syndrome and Autism Spectrum Disorder. *ACS Pharmacol Transl Sci*. 2020 Feb 21;3(3):509-523. doi: 10.1021/acspsci.9b00101. PMID: 32566916; PMCID: PMC7296548.

Azevedo H, Ferreira M, Costa RW, Russo V, Russo E, Mascarello A, Guimarães CRW. Preclinical characterization of ACH-000029, a novel anxiolytic compound acting on serotonergic and alpha-adrenergic receptors. *Prog Neuropsychopharmacol Biol Psychiatry*. 2019 Dec 20;95:109707. doi: 10.1016/j.pnpbp.2019.109707. Epub 2019 Jul 19. PMID: 31330215.

Mandai T, Kasahara M, Kurimoto E, Tanaka M, Suzuki M, Nakatani A, Kimura H. In Vivo Pharmacological Comparison of TAK-071, a Positive Allosteric Modulator of Muscarinic M₁ Receptor, and Xanomeline, an Agonist of Muscarinic M₁/M₄ Receptor, in Rodents. *Neuroscience*. 2019 Aug 21;414:60-76. doi: 10.1016/j.neuroscience.2019.07.003. Epub 2019 Jul 9. PMID: 31299348.

Pereda-Pérez I, Valencia A, Baliyan S, Núñez Á, Sanz-García A, Zamora B, Rodríguez-Fernández R, Esteban JA, Venero C. Systemic administration of a fibroblast growth factor receptor 1 agonist rescues the cognitive deficit in aged socially isolated rats. *Neurobiol Aging*. 2019 Jun;78:155-165. doi: 10.1016/j.neurobiolaging.2019.02.011. Epub 2019 Feb 20. PMID: 30928883.

Subregion-specific Protective Effects of Fluoxetine and Clozapine on Parvalbumin Expression in Medial Prefrontal Cortex of Chronically Isolated Rats

Todorović, N., Mičić, B., Schwirtlich, M., Stevanović, M., **Filipović, D.**

Neuroscience, 2019, 396, pp. 24–35

Heterocitati 14:

Citiran u :

Bravo L, Mariscal P, Llorca-Torralba M, López-Cepero JM, Nacher J, Berrocoso E. Altered expression of vesicular glutamate transporter-2 and cleaved caspase-3 in the locus coeruleus of nerve-injured rats. *Front Mol Neurosci*. 2022 Jul 27;15:918321. doi: 10.3389/fnmol.2022.918321. PMID: 35966012; PMCID: PMC9363707

Touchant M, Labonté B. Sex-Specific Brain Transcriptional Signatures in Human MDD and Their Correlates in Mouse Models of Depression. *Front Behav Neurosci*. 2022 May 3;16:845491. doi: 10.3389/fnbeh.2022.845491. PMID: 35592639; PMCID: PMC9110970.

Godoy LD, Prizon T, Rossignoli MT, Leite JP, Liberato JL. Parvalbumin Role in Epilepsy and Psychiatric Comorbidities: From Mechanism to Intervention. *Front Integr Neurosci*. 2022 Feb 17;16:765324. doi: 10.3389/fnint.2022.765324. PMID: 35250498; PMCID: PMC8891758.

Taheri Zadeh Z, Rahmani S, Alidadi F, Joushi S, Esmailpour K. Depression, anxiety and other cognitive consequences of social isolation: Drug and non-drug treatments. *Int J Clin Pract*. 2021 Dec;75(12):e14949. doi: 10.1111/ijcp.14949. Epub 2021 Oct 14. PMID: 34614276.

Ellis SN, Honeycutt JA. Sex Differences in Affective Dysfunction and Alterations in Parvalbumin in Rodent Models of Early Life Adversity. *Front Behav Neurosci*. 2021 Nov 4;15:741454. doi: 10.3389/fnbeh.2021.741454. PMID: 34803622; PMCID: PMC8600234.

Perlman G, Tanti A, Mechawar N. Parvalbumin interneuron alterations in stress-related mood disorders: A systematic review. *Neurobiol Stress*. 2021 Aug 12;15:100380. doi: 10.1016/j.ynstr.2021.100380. PMID: 34557569; PMCID: PMC8446799.

Fogaça MV, Wu M, Li C, Li XY, Picciotto MR, Duman RS. Inhibition of GABA interneurons in the mPFC is sufficient and necessary for rapid antidepressant responses. *Mol Psychiatry*. 2021 Jul;26(7):3277-3291. doi: 10.1038/s41380-020-00916-y. Epub 2020 Oct 17. PMID: 33070149; PMCID: PMC8052382.

Bueno-Fernandez C, Perez-Rando M, Alcaide J, Coviello S, Sandi C, Castillo-Gómez E, Nacher J. Long term effects of peripubertal stress on excitatory and inhibitory circuits in the prefrontal cortex of male and female mice. *Neurobiol Stress*. 2021 Apr 1;14:100322. doi: 10.1016/j.ynstr.2021.100322. PMID: 33869684; PMCID: PMC8045050.

Kaul D, Schwab SG, Mechawar N, Matosin N. How stress physically re-shapes the brain: Impact on brain cell shapes, numbers and connections in psychiatric disorders. *Neurosci Biobehav Rev*. 2021 May;124:193-215. doi: 10.1016/j.neubiorev.2021.01.025. Epub 2021 Feb 5. PMID: 33556389.

Moench KM, Breach MR, Wellman CL. Prior stress followed by a novel stress challenge results in sex-specific deficits in behavioral flexibility and changes in gene expression in rat medial prefrontal cortex. *Horm Behav*. 2020 Jan;117:104615. doi: 10.1016/j.yhbeh.2019.104615. Epub 2019 Oct 23. PMID: 31634476; PMCID: PMC6980662.

Alcaide J, Guirado R, Crespo C, Blasco-Ibáñez JM, Varea E, Sanjuan J, Nacher J. Alterations of perineuronal nets in the dorsolateral prefrontal cortex of neuropsychiatric patients. *Int J Bipolar Disord*. 2019 Nov 15;7(1):24. doi: 10.1186/s40345-019-0161-0. PMID: 31728775; PMCID: PMC6856240.

Page CE, Coutellier L. Prefrontal excitatory/inhibitory balance in stress and emotional disorders: Evidence for over-inhibition. *Neurosci Biobehav Rev*. 2019 Oct;105:39-51. doi: 10.1016/j.neubiorev.2019.07.024. Epub 2019 Aug 1. PMID: 31377218.

Pesarico AP, Bueno-Fernandez C, Guirado R, Gómez-Climent MÁ, Curto Y, Carceller H, Nacher J. Chronic Stress Modulates Interneuronal Plasticity: Effects on PSA-NCAM and Perineuronal Nets in Cortical and Extracortical Regions. *Front Cell Neurosci*. 2019 May 7;13:197. doi: 10.3389/fncel.2019.00197. PMID: 31133813; PMCID: PMC6524695.

Fogaça MV, Duman RS. Cortical GABAergic Dysfunction in Stress and Depression: New Insights for Therapeutic Interventions. *Front Cell Neurosci*. 2019 Mar 12;13:87. doi: 10.3389/fncel.2019.00087. PMID: 30914923; PMCID: PMC6422907.

Proteomic characterization of hippocampus of chronically socially isolated rats treated with fluoxetine: Depression-like behaviour and fluoxetine mechanism of action

Perić, I., Costina, V., Stanisavljević, A., Findeisen, P., **Filipović, D.**

Neuropharmacology, 2018, 135, pp. 268–283

Heterocitat : **15**

Citiran u :

Saland, S.K., Wilczak, K., Voss, E., Lam, T.K.T., Kabbaj, M. Sex- and estrous-cycle dependent dorsal hippocampal phosphoproteomic changes induced by low-dose ketamine (2022) *Scientific Reports*, 12 (1), art. no. 1820, .

Desai, R.I., Limoli, C.L., Stark, C.E.L., Stark, S.M. Impact of spaceflight stressors on behavior and cognition: A molecular, neurochemical, and neurobiological perspective (2022) *Neuroscience and Biobehavioral Reviews*, 138, art. no. 104676, .

Pinto, P.I., Anjos, L., Estêvão, M.D., Santos, S., Santa, C., Manadas, B., Monsinjon, T., Canário, A.V.M., Power, D.M. Proteomics of sea bass skin-scales exposed to the emerging pollutant fluoxetine compared to estradiol (2022) *Science of the Total Environment*, 814, art. no. 152671, .

Rayan, N.A., Kumar, V., Aow, J., Rastegar, N., Lim, M.G.L., O'Toole, N., Aliwarga, E., Arcego, D.M., Yeo, H.T.G., Wong, J.Y., Lee, M.Y., Schmidt, F., Haja, H.S., Tam, W.L., Zhang, T.-Y., Diorio, J., Anacker, C., Hen, R., Parent, C., Meaney, M.J., Prabhakar, S. Integrative multi-omics landscape of fluoxetine action across 27 brain regions reveals global increase in energy metabolism and region-specific chromatin remodelling (2022) *Molecular Psychiatry*, .

Clement, A., Madsen, M.J., Kastaniegaard, K., Wiborg, O., Asuni, A.A., Stensballe, A. Chronic Stress Induces Hippocampal Mitochondrial Damage in APPS1 Model Mice and Wildtype Littermates (2022) *Journal of Alzheimer's Disease*, 87 (1), pp. 259-272.

Taheri Zadeh, Z., Rahmani, S., Alidadi, F., Joushi, S., Esmailpour, K. Depression, anxiety and other cognitive consequences of social isolation: Drug and non-drug treatments (2021) *International Journal of Clinical Practice*, 75 (12), art. no. e14949, .

Cao, H., Zuo, C., Huang, Y., Zhu, L., Zhao, J., Yang, Y., Jiang, Y., Wang, F. Hippocampal proteomic analysis reveals activation of necroptosis and ferroptosis in a mouse model of chronic unpredictable mild stress-induced depression (2021) *Behavioural Brain Research*, 407, art. no. 113261, .

Chen, M.X., Cheng, S., Lei, L., Zhang, X.F., Liu, Q., Lin, A., Wallis, C.U., Lukowicz, M.J., Sham, P.C., Li, Q., Ao, L.J. The effects of maternal SSRI exposure on the serotonin system, prefrontal protein expression and behavioral development in male and female offspring rats (2021) *Neurochemistry International*, 146, art. no. 105041, .

Głombik, K., Budziszewska, B., Basta-Kaim, A. Mitochondria-targeting therapeutic strategies in the treatment of depression (2021) *Mitochondrion*, 58, pp. 169-178.

Duman, T., Akyüz, E., Bulut, H., Koçyiğit, A., Tülek, A., Karataş, E., Kırpınar, İ. Investigation of diagnostic proteins by 2d electrophoresis in major depression model induced by forced swim test in rats (2021) *Protein and Peptide Letters*, 28 (2), pp. 75-84.

Braz, G.R.F., Silva, S.C.D.A., Pedroza, A.A.D.S., de Lemos, M.D., de Lima, F.A., da Silva, A.I., Lagranha, C.J. Fluoxetine administration in juvenile overfed rats improves hypothalamic mitochondrial respiration and REDOX status and induces mitochondrial biogenesis transcriptional expression (2020) *European Journal of Pharmacology*, 881, art. no. 173200, .

Orlandi, C., Watkins, L.R. Orphan G protein coupled receptors in affective disorders (2020) *Genes*, 11 (6), art. no. 694, pp. 1-32.

Luo, J., Ji, Y.-F., Fang, Y., Zeng, J.-S., Liu, R., Zeng, N. Research progress in drug intervention in depression based on mitochondrial dysfunction (2020) *Chinese Journal of Pharmacology and Toxicology*, 34 (2), pp. 142-152.

Filiou, M.D., Sandi, C. Anxiety and Brain Mitochondria: A Bidirectional Crosstalk (2019) *Trends in Neurosciences*, 42 (9), pp. 573-588.

Song, T., Wu, H., Li, R., Xu, H., Rao, X., Gao, L., Zou, Y., Lei, H. Repeated fluoxetine treatment induces long-lasting neurotrophic changes in the medial prefrontal cortex of adult rats (2019) *Behavioural Brain Research*, 365, pp. 114-124.

Chronic Treatment with Fluoxetine or Clozapine of Socially Isolated Rats Prevents Subsector-Specific Reduction of Parvalbumin Immunoreactive Cells in the Hippocampus Filipović,

D., Stanisavljević, A., Jasnić, N., ...Perić, I., Gass, P.

Neuroscience, 2018, 371, pp. 384–394

Heterocitati: **28**

Citiran u :

Wellman, L.L., Adkins, A.M., Yoon, H., Britten, R.A., Sanford, L.D. Telemetry in Rats and Mice: Methodological Considerations and Example Studies of Stress and Anxiety in Ground-Based Spaceflight Analogs. 2023. *NeuroMethods* 190, pp. 201-222

- Zhou, H., Zhu, J., Jia, J., (...), Mu, Y., Lu, Y. The antidepressant effect of nucleus accumbens deep brain stimulation is mediated by parvalbumin-positive interneurons in the dorsal dentate gyrus. 2022. *Neurobiology of Stress* 21,100492.
- Perez-Rando, M., Carceller, H., Castillo-Gomez, E., Bueno-Fernandez, C., García-Mompó, C., Gilabert-Juan, J., Guirado, R., Pesarico, A.P., Nacher, J. Impact of stress on inhibitory neuronal circuits, our tribute to Bruce McEwen (2022) *Neurobiology of Stress*, 19, art. no. 100460, .
- Potrebić, M., Pavković, Ž., Puškaš, N., Pešić, V. The Influence of Social Isolation on Social Orientation, Sociability, Social Novelty Preference, and Hippocampal Parvalbumin-Expressing Interneurons in Peripubertal Rats – Understanding the Importance of Meeting Social Needs in Adolescence (2022) *Frontiers in Behavioral Neuroscience*, 16, art. no. 872628, .
- Godoy, L.D., Prizon, T., Rossignoli, M.T., Leite, J.P., Liberato, J.L. Parvalbumin Role in Epilepsy and Psychiatric Comorbidities: From Mechanism to Intervention (2022) *Frontiers in Integrative Neuroscience*, 16, art. no. 765324, .
- Chen, S., Chen, F., Amin, N., Ren, Q., Ye, S., Hu, Z., Tan, X., Jiang, M., Fang, M. Defects of parvalbumin-positive interneurons in the ventral dentate gyrus region are implicated depression-like behavior in mice (2022) *Brain, Behavior, and Immunity*, 99, pp. 27-42.
- Taheri Zadeh, Z., Rahmani, S., Alidadi, F., Joushi, S., Esmailpour, K. Depression, anxiety and other cognitive consequences of social isolation: Drug and non-drug treatments (2021) *International Journal of Clinical Practice*, 75 (12), art. no. e14949, .
- Perlman, G., Tanti, A., Mechawar, N. Parvalbumin interneuron alterations in stress-related mood disorders: A systematic review (2021) *Neurobiology of Stress*, 15, art. no. 100380, .
- Varga, T.G., de Toledo Simões, J.G., Siena, A., Henrique, E., da Silva, R.C.B., dos Santos Bioni, V., Ramos, A.C., Rosenstock, T.R. Haloperidol rescues the schizophrenia-like phenotype in adulthood after rotenone administration in neonatal rats (2021) *Psychopharmacology*, 238 (9), pp. 2569-2585.
- Parellada, E., Gassó, P. Glutamate and microglia activation as a driver of dendritic apoptosis: a core pathophysiological mechanism to understand schizophrenia (2021) *Translational Psychiatry*, 11 (1), art. no. 271, .
- Czéh, B., Simon, M. Benefits of animal models to understand the pathophysiology of depressive disorders (2021) *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 106, art. no. 110049, .
- Albrecht, A., Redavide, E., Regev-Tsur, S., Stork, O., Richter-Levin, G. Hippocampal GABAergic interneurons and their co-localized neuropeptides in stress vulnerability and resilience (2021) *Neuroscience and Biobehavioral Reviews*, 122, pp. 229-244.
- Pesarico, A.P., Chagas, P.M., Nacher, J. Editorial: Animal Models of Stress - Current Knowledge and Potential Directions (2021) *Frontiers in Behavioral Neuroscience*, 15, art. no. 655214, .
- Willey, J.S., Britten, R.A., Blaber, E., Tahimic, C.G.T., Chancellor, J., Mortreux, M., Sanford, L.D., Kubik, A.J., Delp, M.D., Mao, X.W. The individual and combined effects of spaceflight radiation and microgravity on biologic systems and functional outcomes (2021) *Journal of Environmental Science and Health, Part C: Toxicology and Carcinogenesis*, 39 (2), pp. 129-179.
- Wang, Y., Yin, X.-Y., He, X., Zhou, C.-M., Shen, J.-C., Tong, J.-H. Parvalbumin interneuron-mediated neural disruption in an animal model of postintensive care syndrome: prevention by fluoxetine (2021) *Aging*, 13 (6), pp. 8720-8736.
- Bassett, B., Subramaniam, S., Fan, Y., Varney, S., Pan, H., Carneiro, A.M.D., Chung, C.Y. Minocycline alleviates depression-like symptoms by rescuing decrease in neurogenesis in dorsal hippocampus via blocking microglia activation/phagocytosis (2021) *Brain, Behavior, and Immunity*, 91, pp. 519-530.

Umschweif, G., Greengard, P., Sagi, Y. The dentate gyrus in depression (2021) *European Journal of Neuroscience*, 53 (1), pp. 39-64.

Spijker, S., Koskinen, M.-K., Riga, D. Incubation of depression: ECM assembly and parvalbumin interneurons after stress (2020) *Neuroscience and Biobehavioral Reviews*, 118, pp. 65-79.

Begni, V., Sanson, A., Pfeiffer, N., Brandwein, C., Inta, D., Talbot, S.R., Riva, M.A., Gass, P., Mallien, A.S. Social isolation in rats: Effects on animal welfare and molecular markers for neuroplasticity (2020) *PLoS ONE*, 15 (10 October), art. no. e0240439, .

Sanson, A., Riva, M.A. Anti-stress properties of atypical antipsychotics (2020) *Pharmaceuticals*, 13 (10), art. no. 322, pp. 1-23.

Martínez-Pinteño, A., García-Cerro, S., Mas, S., Torres, T., Boloc, D., Rodríguez, N., Lafuente, A., Gassó, P., Arnaiz, J.A., Parellada, E. The positive allosteric modulator of the mGlu2 receptor JNJ-46356479 partially improves neuropathological deficits and schizophrenia-like behaviors in a postnatal ketamine mice model (2020) *Journal of Psychiatric Research*, 126, pp. 8-18.

Yi, Y., Song, Y., Lu, Y. Parvalbumin Interneuron Activation-Dependent Adult Hippocampal Neurogenesis Is Required for Treadmill Running to Reverse Schizophrenia-Like Phenotypes (2020) *Frontiers in Cell and Developmental Biology*, 8, art. no. 24, .

Bos, J.J., Vinck, M., Marchesi, P., Keestra, A., van Mourik-Donga, L.A., Jackson, J.C., Verschure, P.F.M.J., Pennartz, C.M.A. Multiplexing of Information about Self and Others in Hippocampal Ensembles (2019) *Cell Reports*, 29 (12), pp. 3859-3871.e6.

Esquivel-Rendón, E., Vargas-Mireles, J., Cuevas-Olguín, R., Miranda-Morales, M., Acosta-Mares, P., García-Oscos, F., Pineda, J.C., Salgado, H., Rose-John, S., Atzori, M. Interleukin 6 Dependent Synaptic Plasticity in a Social Defeat-Susceptible Prefrontal Cortex Circuit (2019) *Neuroscience*, 414, pp. 280-296.

Mandai, T., Kasahara, M., Kurimoto, E., Tanaka, M., Suzuki, M., Nakatani, A., Kimura, H. In Vivo Pharmacological Comparison of TAK-071, a Positive Allosteric Modulator of Muscarinic M1 Receptor, and Xanomeline, an Agonist of Muscarinic M1/M4 Receptor, in Rodents (2019) *Neuroscience*, 414, pp. 60-76.

Song, T., Wu, H., Li, R., Xu, H., Rao, X., Gao, L., Zou, Y., Lei, H. Repeated fluoxetine treatment induces long-lasting neurotrophic changes in the medial prefrontal cortex of adult rats (2019) *Behavioural Brain Research*, 365, pp. 114-124.

Pesarico, A.P., Bueno-Fernandez, C., Guirado, R., Gómez-Climent, M.Á., Curto, Y., Carceller, H., Nacher, J. Chronic stress modulates interneuronal plasticity: Effects on PSA-NCAM and perineuronal nets in cortical and extracortical regions (2019) *Frontiers in Cellular Neuroscience*, 13, art. no. 197, .

Rossetti, A.C., Serena Paladini, M., Colombo, M., Gruca, P., Lason-Tyburkiewicz, M., Tota-Glowczyk, K., Papp, M., Riva, M.A., Molteni, R. Chronic stress exposure reduces parvalbumin expression in the rat hippocampus through an imbalance of redox mechanisms: Restorative effect of the antipsychotic lurasidone (2018) *International Journal of Neuropsychopharmacology*, 21 (9), pp. 883-893.

The antidepressant- and anxiolytic-like effects of fluoxetine and clozapine in chronically isolated rats involve inhibition of hippocampal TNF- α

Todorović, N., **Filipović, D.** *Pharmacology Biochemistry and Behavior*, 2017, 163, pp. 57–65

Heterocitati **23**:

Citiran u :

Dahchour A. Anxiolytic and antidepressive potentials of rosmarinic acid: A review with a focus on antioxidant and anti-inflammatory effects. *Pharmacol Res.* 2022 Oct;184:106421. doi: 10.1016/j.phrs.2022.106421. Epub 2022 Sep 9. PMID: 36096427.

Gaszner T, Farkas J, Kun D, Ujvári B, Berta G, Csernus V, Füredi N, Kovács LÁ, Hashimoto H, Reglődi D, Kormos V, Gaszner B. Fluoxetine treatment supports predictive validity of the three hit model of depression in male PACAP heterozygous mice and underpins the impact of early life adversity on therapeutic efficacy. *Front Endocrinol (Lausanne)*. 2022 Sep 23;13:995900. doi: 10.3389/fendo.2022.995900. PMID: 36213293; PMCID: PMC9537566.

Grigoryan GA, Pavlova IV, Zaichenko MI. Effects of Social Isolation on the Development of Anxiety and Depression-Like Behavior in Model Experiments in Animals. *Neurosci Behav Physiol*. 2022;52(5):722-738. doi: 10.1007/s11055-022-01297-1. Epub 2022 Sep 14. PMID: 36119650; PMCID: PMC9471030.

Flanagan TW, Nichols CD. Psychedelics and Anti-inflammatory Activity in Animal Models. *Curr Top Behav Neurosci*. 2022;56:229-245. doi: 10.1007/7854_2022_367. PMID: 35546383.

Taheri Zadeh Z, Rahmani S, Alidadi F, Joushi S, Esmailpour K. Depression, anxiety and other cognitive consequences of social isolation: Drug and non-drug treatments. *Int J Clin Pract*. 2021 Dec;75(12):e14949. doi: 10.1111/ijcp.14949. Epub 2021 Oct 14. PMID: 34614276.

Salihu SA, Ghafari H, Ahmadimanesh M, Gortany NK, Shafaroodi H, Ghazi-Khansari M. Glatiramer acetate attenuates depressive/anxiety-like behaviors and cognitive deficits induced by post-weaning social isolation in male mice. *Psychopharmacology (Berl)*. 2021 Aug;238(8):2121-2132. doi: 10.1007/s00213-021-05836-5. Epub 2021 Apr 2. PMID: 33797571.

Collins ML, Cheney GA, Yehl JL, Sullivan GA, Stewart JT, Catalano G. Postviral Depression. *J Psychiatr Pract*. 2021 Mar 5;27(2):126-130. doi: 10.1097/PRA.0000000000000508. PMID: 33656819.

Chen L, Ke Y, Ma H, Gao L, Zhou Y, Zhu H, Liu H, Zhang F, Zhou W. Fluoxetine and Ketamine Reverse the Depressive but Not Anxiety Behavior Induced by Lesion of Cholinergic Neurons in the Horizontal Limb of the Diagonal Band of Broca in Male Rat. *Front Behav Neurosci*. 2021 Feb 18;15:602708. doi: 10.3389/fnbeh.2021.602708. PMID: 33679340; PMCID: PMC7930217.

Li W, Ali T, He K, Liu Z, Shah FA, Ren Q, Liu Y, Jiang A, Li S. Ibrutinib alleviates LPS-induced neuroinflammation and synaptic defects in a mouse model of depression. *Brain Behav Immun*. 2021 Feb;92:10-24. doi: 10.1016/j.bbi.2020.11.008. Epub 2020 Nov 10. PMID: 33181270.

Dionisie V, Filip GA, Manea MC, Manea M, Riga S. The anti-inflammatory role of SSRI and SNRI in the treatment of depression: a review of human and rodent research studies. *Inflammopharmacology*. 2021 Feb;29(1):75-90. doi: 10.1007/s10787-020-00777-5. Epub 2020 Nov 8. PMID: 33164143.

Scarborough J, Mueller FS, Weber-Stadlbauer U, Mattei D, Opitz L, Cattaneo A, Richetto J. A novel murine model to study the impact of maternal depression and antidepressant treatment on biobehavioral functions in the offspring. *Mol Psychiatry*. 2021 Nov;26(11):6756-6772. doi: 10.1038/s41380-021-01145-7. Epub 2021 May 17. PMID: 34002019; PMCID: PMC8760069.

Willey JS, Britten RA, Blaber E, Tahimic CGT, Chancellor J, Mortreux M, Sanford LD, Kubik AJ, Delp MD, Mao XW. The individual and combined effects of spaceflight radiation and microgravity on biologic systems and functional outcomes. *J Environ Sci Health C Toxicol Carcinog*. 2021;39(2):129-179. doi: 10.1080/26896583.2021.1885283. PMID: 33902391; PMCID: PMC8274610.

Cunha MP, Machado DG, Mancini G, Glaser V, de Paula Martins R, de Bem AF, Latini A, Dafre AL, Rodrigues ALS. The effect of voluntary wheel running on the antioxidant status is dependent on sociability conditions. *Pharmacol Biochem Behav*. 2020 Nov;198:173018. doi: 10.1016/j.pbb.2020.173018. Epub 2020 Aug 20. PMID: 32827504; PMCID: PMC7438373.

Ali T, Hao Q, Ullah N, Rahman SU, Shah FA, He K, Zheng C, Li W, Murtaza I, Li Y, Jiang Y, Tan Z, Li S. Melatonin Act as an Antidepressant via Attenuation of Neuroinflammation by Targeting Sirt1/Nrf2/HO-1

Signaling. *Front Mol Neurosci.* 2020 Jun 12;13:96. doi: 10.3389/fnmol.2020.00096. PMID: 32595452; PMCID: PMC7304371.

Alshammari MA, Khan MR, Majid Mahmood H, Alshehri AO, Alasmari FF, Alqahtani FM, Alasmari AF, Alsharari SD, Alhossan A, Ahmad SF, Nadeem A, Alshammari TK. Systemic TNF- α blockade attenuates anxiety and depressive-like behaviors in *db/db* mice through downregulation of inflammatory signaling in peripheral immune cells. *Saudi Pharm J.* 2020 May;28(5):621-629. doi: 10.1016/j.jsps.2020.04.001. Epub 2020 Apr 9. PMID: 32435144; PMCID: PMC7229333.

Diviccaro S, Melcangi RC, Giatti S. Post-finasteride syndrome: An emerging clinical problem. *Neurobiol Stress.* 2019 Dec 26;12:100209. doi: 10.1016/j.ynstr.2019.100209. PMID: 32435662; PMCID: PMC7231981.

Martinez-Muniz GA, Wood SK. Sex Differences in the Inflammatory Consequences of Stress: Implications for Pharmacotherapy. *J Pharmacol Exp Ther.* 2020 Oct;375(1):161-174. doi: 10.1124/jpet.120.266205. Epub 2020 Aug 5. PMID: 32759370; PMCID: PMC7569308.

Lee B, Yeom M, Shim I, Lee H, Hahm DH. Protective Effects of Quercetin on Anxiety-Like Symptoms and Neuroinflammation Induced by Lipopolysaccharide in Rats. *Evid Based Complement Alternat Med.* 2020 Apr 28;2020:4892415. doi: 10.1155/2020/4892415. PMID: 32419805; PMCID: PMC7204389.

Uzelac TN, Nikolić-Kokić AL, Spasić SD, Mačvanin MT, Nikolić MR, Mandić LM, Jovanović VB. Opposite clozapine and ziprasidone effects on the reactivity of plasma albumin SH-group are the consequence of their different binding properties dependent on protein fatty acids content. *Chem Biol Interact.* 2019 Sep 25;311:108787. doi: 10.1016/j.cbi.2019.108787. Epub 2019 Aug 7. PMID: 31400341.

Vasileva LV, Ivanovska MV, Murdjeva MA, Saracheva KE, Georgiev MI. Immunoregulatory natural compounds in stress-induced depression: An alternative or an adjunct to conventional antidepressant therapy? *Food Chem Toxicol.* 2019 May;127:81-88. doi: 10.1016/j.fct.2019.03.004. Epub 2019 Mar 8. PMID: 30858105.

Flores-Ramirez FJ, Parise LF, Alipio JB, Garcia-Carachure I, Castillo SA, Rodriguez M, Themman A, Lira O, Preciado-Piña J, Iñiguez SD. Adolescent fluoxetine history impairs spatial memory in adult male, but not female, C57BL/6 mice. *J Affect Disord.* 2019 Apr 15;249:347-356. doi: 10.1016/j.jad.2019.02.051. Epub 2019 Feb 19. PMID: 30807936; PMCID: PMC6951803.

Shal B, Khan A, Naveed M, Ullah Khan N, Ihsan-UI-Haq, D AlSharari S, Kim YS, Khan S. Effect of 25-methoxy hispidol A isolated from *Poncirus trifoliata* against bacteria-induced anxiety and depression by targeting neuroinflammation, oxidative stress and apoptosis in mice. *Biomed Pharmacother.* 2019 Mar;111:209-223. doi: 10.1016/j.biopha.2018.12.047. Epub 2018 Dec 22. PMID: 30583228.

Fourrier C, Bosch-Bouju C, Boursereau R, Sauvart J, Aubert A, Capuron L, Ferreira G, Layé S, Castanon N. Brain tumor necrosis factor- α mediates anxiety-like behavior in a mouse model of severe obesity. *Brain Behav Immun.* 2019 Mar;77:25-36. doi: 10.1016/j.bbi.2018.11.316. Epub 2018 Nov 30. PMID: 30508579.

Fluoxetine reverses behavior changes in socially isolated rats: role of the hippocampal GSH-dependent defense system and proinflammatory cytokines

Perić, I., Stanisavljević, A., Gass, P., **Filipović, D.**

European Archives of Psychiatry and Clinical Neuroscience, 2017, 267(8), pp. 737–749

Heterocitati **16**:

Citiran u :

Aswar, U., Shende, H., Aswar, M. Buspirone, a 5-HT_{1A} agonist attenuates social isolation-induced behavior deficits in rats: A comparative study with fluoxetine (2022) *Behavioural Pharmacology*, 33 (5), pp. 309-321.

Subba, R., Ahmad, M.H., Ghosh, B., Mondal, A.C. Targeting NRF2 in Type 2 diabetes mellitus and depression: Efficacy of natural and synthetic compounds (2022) *European Journal of Pharmacology*, 925, art. no. 174993, .

Lima, S., Sousa, N., Patrício, P., Pinto, L. The underestimated sex: A review on female animal models of depression (2022) *Neuroscience and Biobehavioral Reviews*, 133, art. no. 104498, .

Pilarzyk, K., Farmer, R., Porcher, L., Kelly, M.P. The Role of PDE11A4 in Social Isolation-Induced Changes in Intracellular Signaling and Neuroinflammation (2021) *Frontiers in Pharmacology*, 12, art. no. 749628, .

Maghsoud-Nia, L., Asle-Rousta, M., Rahnema, M., Amini, R. Sesame Oil and Its Component Oleic Acid Ameliorate Behavioral and Biochemical Alterations in Socially Isolated Rats (2021) *Iranian Journal of Science and Technology, Transaction A: Science*, 45 (4), pp. 1155-1163.

Ji, Y., Luo, J., Zeng, J., Fang, Y., Liu, R., Luan, F., Zeng, N. Xiaoyao Pills Ameliorate Depression-like Behaviors and Oxidative Stress Induced by Olfactory Bulbectomy in Rats via the Activation of the PIK3CA-AKT1-NFE2L2/BDNF Signaling Pathway (2021) *Frontiers in Pharmacology*, 12, art. no. 643456, .

Dionisie, V., Filip, G.A., Manea, M.C., Manea, M., Riga, S. The anti-inflammatory role of SSRI and SNRI in the treatment of depression: a review of human and rodent research studies (2021) *Inflammopharmacology*, 29 (1), pp. 75-90.

Rappeneau, V., Wilmes, L., Touma, C. Molecular correlates of mitochondrial dysfunctions in major depression: Evidence from clinical and rodent studies (2020) *Molecular and Cellular Neuroscience*, 109, art. no. 103555.

Panossian, A., Cave, M.W., Patel, B.A., Brooks, E.L., Flint, M.S., Yeoman, M.S. Effects of age and social isolation on murine hippocampal biochemistry and behavior (2020) *Mechanisms of Ageing and Development*, 191, art. no. 111337,

Braz, G.R.F., Silva, S.C.D.A., Pedroza, A.A.D.S., de Lemos, M.D., de Lima, F.A., da Silva, A.I., Lagranha, C.J. Fluoxetine administration in juvenile overfed rats improves hypothalamic mitochondrial respiration and REDOX status and induces mitochondrial biogenesis transcriptional expression (2020) *European Journal of Pharmacology*, 881, art. no. 173200,

Zalachoras, I., Hollis, F., Ramos-Fernández, E., Trovo, L., Sonnay, S., Geiser, E., Preitner, N., Steiner, P., Sandi, C., Morató, L. Therapeutic potential of glutathione-enhancers in stress-related psychopathologies (2020) *Neuroscience and Biobehavioral Reviews*, 114, pp. 134-155.

Begni, V., Zampar, S., Longo, L., Riva, M.A. Sex Differences in the Enduring Effects of Social Deprivation during Adolescence in Rats: Implications for Psychiatric Disorders (2020) *Neuroscience*, 437, pp. 11-22.

Panwar, R., Sivakumar, M., Menon, V., Vairappan, B. Changes in the levels of comet parameters before and after fluoxetine therapy in major depression patients (2020) *Anatomy and Cell Biology*, 53 (2), pp. 194-200.

Ting, E.Y.-C., Yang, A.C., Tsai, S.-J. Role of interleukin-6 in depressive disorder (2020) *International Journal of Molecular Sciences*, 21 (6), art. no. 2194, .

Zhang, D., Babayan, L., Ho, H., Heaney, A.P. Chromogranin A regulates neuroblastoma proliferation and phenotype (2019) *Biology Open*, 8 (3), art. no. bio036566, .

Elsaed, W.M., Alahmadi, A.M., Al-Ahmadi, B.T., Taha, J.A., Tarabishi, R.M. Gastroprotective and antioxidant effects of fluvoxamine on stress-induced peptic ulcer in rats (2018) *Journal of Taibah University Medical Sciences*, 13 (5), pp. 422-431.

Hippocampal BDNF in physiological conditions and social isolation

Zaletel, I., **Filipović, D.**, Puškaš, N.

Reviews in the Neurosciences, 2017, 28(6), pp. 675–692

Heterocitati **49**:

Citiran u :

Bui, B.P., Nguyen, P.L., Do, H.T.T., Cho, J. Anxiolytic effect of Korean Red Ginseng through upregulation of serotonin and GABA transmission and BDNF expression in immobilized mice. 2022. *Journal of Ginseng Research* 46(6), pp. 819-829

Abdelmeguid NE, Hammad TM, Abdel-Moneim AM, Salam SA. Effect of Epigallocatechin-3-gallate on Stress-Induced Depression in a Mouse Model: Role of Interleukin-1 β and Brain-Derived Neurotrophic Factor. *Neurochem Res.* 2022 Nov;47(11):3464-3475. doi: 10.1007/s11064-022-03707-9. Epub 2022 Aug 8. PMID: 35939172; PMCID: PMC9546794.

Keloglan Musuroglu S, Ozturk DM, Sahin L, Cevik OS, Cevik K. Environmental enrichment as a strategy: Attenuates the anxiety and memory impairment in social isolation stress. *Int J Dev Neurosci.* 2022 Oct;82(6):499-512. doi: 10.1002/jdn.10205. Epub 2022 Jun 28. PMID: 35724417.

Li B, Guo Y, Deng Y, Zhao S, Li C, Yang J, Li Q, Yan Y, Li F, Li X, Rong S. Association of social support with cognition among older adults in China: A cross-sectional study. *Front Public Health.* 2022 Sep 26;10:947225. doi: 10.3389/fpubh.2022.947225. PMID: 36225770; PMCID: PMC9548585.

Carboni E, Carta AR. BDNF Alterations in Brain Areas and the Neurocircuitry Involved in the Antidepressant Effects of Ketamine in Animal Models, Suggest the Existence of a Primary Circuit of Depression. *J Integr Neurosci.* 2022 Aug 16;21(5):144. doi: 10.31083/j.jin2105144. PMID: 36137960.

Wang SD, Wang X, Zhao Y, Xue BH, Wang XT, Chen YX, Zhang ZQ, Tian YR, Xie F, Qian LJ. Homocysteine-Induced Disturbances in DNA Methylation Contribute to Development of Stress-Associated Cognitive Decline in Rats. *Neurosci Bull.* 2022 Aug;38(8):887-900. doi: 10.1007/s12264-022-00852-7. Epub 2022 Apr 18. PMID: 35435568; PMCID: PMC9352847.

Rodríguez-Carrillo A, D'Cruz SC, Mustieles V, Suárez B, Smagulova F, David A, Peinado F, Artacho-Cordón F, López LC, Arrebola JP, Olea N, Fernández MF, Freire C. Exposure to non-persistent pesticides, BDNF, and behavioral function in adolescent males: Exploring a novel effect biomarker approach. *Environ Res.* 2022 Aug;211:113115. doi: 10.1016/j.envres.2022.113115. Epub 2022 Mar 12. PMID: 35292247.

Lee B, Shin E, Song I, Chang B. Depression in Adolescence and Brain-Derived Neurotrophic Factor. *Front Mol Neurosci.* 2022 Jul 7;15:947192. doi: 10.3389/fnmol.2022.947192. PMID: 35875661; PMCID: PMC9302599.

Desai RI, Limoli CL, Stark CEL, Stark SM. Impact of spaceflight stressors on behavior and cognition: A molecular, neurochemical, and neurobiological perspective. *Neurosci Biobehav Rev.* 2022 Jul;138:104676. doi: 10.1016/j.neubiorev.2022.104676. Epub 2022 Apr 22. PMID: 35461987.

Wei P, Lyu W, Xu L, Feng H, Zhou H, Li J. $\alpha 7$ Nicotinic Acetylcholine Receptor May Be a Pharmacological Target for Perioperative Neurocognitive Disorders. *Front Pharmacol.* 2022 Jun 3;13:907713. doi: 10.3389/fphar.2022.907713. PMID: 35721159; PMCID: PMC9204176.

Pagliusi M Jr, Franco D, Cole S, Morais-Silva G, Chandra R, Fox ME, Iñiguez SD, Sartori CR, Lobo MK. The BDNF-TrkB Pathway Acts Through Nucleus Accumbens D2 Expressing Neurons to Mediate Stress Susceptible Outcomes. *Front Psychiatry.* 2022 Jun 2;13:854494. doi: 10.3389/fpsy.2022.854494. PMID: 35722560; PMCID: PMC9200970.

Zarneshan SN, Fakhri S, Khan H. Targeting Akt/CREB/BDNF signaling pathway by ginsenosides in neurodegenerative diseases: A mechanistic approach. *Pharmacol Res.* 2022 Mar;177:106099. doi: 10.1016/j.phrs.2022.106099. Epub 2022 Jan 26. PMID: 35092819.

Yu L, Wang Y, Zhang H, Li M, Chen G, Hao J, Xie M. Involvement of purinergic P2Y1R in antidepressant-like effects of electroacupuncture treatment on social isolation stress mice. *Purinergic Signal*. 2022 Jan 30. doi: 10.1007/s11302-021-09827-1. Epub ahead of print. PMID: 35094240.

Rodríguez-Carrillo A, Mustieles V, D'Cruz SC, Legoff L, Gil F, Olmedo P, Reina-Pérez I, Mundo A, Molina M, Smagulova F, David A, Freire C, Fernández MF. Exploring the relationship between metal exposure, BDNF, and behavior in adolescent males. *Int J Hyg Environ Health*. 2022 Jan;239:113877. doi: 10.1016/j.ijheh.2021.113877. Epub 2021 Oct 28. PMID: 34757248.

Abulizi A, Ran J, Ye Y, An Y, Zhang Y, Huang Z, Lin S, Zhou H, Lin D, Wang L, Lin Z, Li M, Yang B. Ganoderic acid improves 5-fluorouracil-induced cognitive dysfunction in mice. *Food Funct*. 2021 Dec 13;12(24):12325-12337. doi: 10.1039/d1fo03055h. PMID: 34821902.

Cheng Y, Cui Y, Zhai Y, Xin W, Yu Y, Liang J, Li S, Sun H. Neuroprotective Effects of Exogenous Irisin in Kainic Acid-Induced Status Epilepticus. *Front Cell Neurosci*. 2021 Oct 1;15:738533. doi: 10.3389/fncel.2021.738533. PMID: 34658794; PMCID: PMC8517324.

Cui FH, Li J, Li KZ, Xie YG, Zhao XL. Effects of sevoflurane exposure during different stages of pregnancy on the brain development of rat offspring. *J Anesth*. 2021 Oct;35(5):654-662. doi: 10.1007/s00540-021-02972-2. Epub 2021 Jul 19. PMID: 34279702; PMCID: PMC8460505.

Wang S, Huang G, Yan J, Li C, Feng J, Chen Q, Zheng X, Li H, Li J, Wang L, Li H. Influence of aging on chronic unpredictable mild stress-induced depression-like behavior in male C57BL/6J mice. *Behav Brain Res*. 2021 Sep 24;414:113486. doi: 10.1016/j.bbr.2021.113486. Epub 2021 Jul 22. PMID: 34302872.

Badowska-Szalewska E, Lietzau G, Moryś J, Kowiański P. Role of brain-derived neurotrophic factor in shaping the behavioural response to environmental stressors. *Folia Morphol (Warsz)*. 2021;80(3):487-504. doi: 10.5603/FM.a2021.0079. Epub 2021 Aug 19. PMID: 34410003.

Lopez J, Bagot RC. Defining Valid Chronic Stress Models for Depression With Female Rodents. *Biol Psychiatry*. 2021 Aug 15;90(4):226-235. doi: 10.1016/j.biopsych.2021.03.010. Epub 2021 Mar 13. PMID: 33965195.

Salihu SA, Ghafari H, Ahmadimanesh M, Gortany NK, Shafaroodi H, Ghazi-Khansari M. Glatiramer acetate attenuates depressive/anxiety-like behaviors and cognitive deficits induced by post-weaning social isolation in male mice. *Psychopharmacology (Berl)*. 2021 Aug;238(8):2121-2132. doi: 10.1007/s00213-021-05836-5. Epub 2021 Apr 2. PMID: 33797571.

Jiang N, Huang H, Wang H, Lv J, Zeng G, Wang Q, Bao Y, Chen Y, Liu XM. The antidepressant-like effects of Shen Yuan: Dependence on hippocampal BDNF-TrkB signaling activation in chronic social defeat depression-like mice. *Phytother Res*. 2021 Jan 20. doi: 10.1002/ptr.7017. Epub ahead of print. PMID: 33474783.

Carboni E, Carta AR, Carboni E, Novelli A. Repurposing Ketamine in Depression and Related Disorders: Can This Enigmatic Drug Achieve Success? *Front Neurosci*. 2021 Apr 30;15:657714. doi: 10.3389/fnins.2021.657714. PMID: 33994933; PMCID: PMC8120160.

Almeida FB, Barros HMT, Pinna G. Neurosteroids and Neurotrophic Factors: What Is Their Promise as Biomarkers for Major Depression and PTSD? *Int J Mol Sci*. 2021 Feb 10;22(4):1758. doi: 10.3390/ijms22041758. PMID: 33578758; PMCID: PMC7916492.

Koute V, Michalopoulou A, Siokas V, Aloizou AM, Rikos D, Bogdanos DP, Kontopoulos E, Grivea IN, Syrogiannopoulos GA, Papadimitriou A, Hadjigeorgiou GM, Dardiotis E. Val66Met polymorphism is associated with decreased likelihood for pediatric headache and migraine. *Neurol Res*. 2021 Sep;43(9):715-723. doi: 10.1080/01616412.2021.1922181. Epub 2021 May 17. PMID: 34000980.

Frantsiyants, E.M., Bandovkina, V.A., Kaplieva, I.V., (...), Kotieva, I.M., Trepitaki, L.K. Effect of malignant growth and chronic neurogenic pain on neurotrophin levels in rat brain. 2021. Bulletin of Siberian Medicine 20(1), pp. 112-118.

Holmes A, Xu Y, Lee J, Maniskas ME, Zhu L, McCullough LD, Venna VR. Post-Stroke Social Isolation Reduces Cell Proliferation in the Dentate Gyrus and Alters miRNA Profiles in the Aged Female Mice Brain. Int J Mol Sci. 2020 Dec 24;22(1):99. doi: 10.3390/ijms22010099. PMID: 33374156; PMCID: PMC7795886.

Hasler G, Haynes M, Müller ST, Tuura R, Ritter C, Buchmann A. The Association Between Adolescent Residential Mobility and Adult Social Anxiety, BDNF and Amygdala-Orbitofrontal Functional Connectivity in Young Adults With Higher Education. Front Psychiatry. 2020 Dec 21;11:561464. doi: 10.3389/fpsy.2020.561464. PMID: 33408651; PMCID: PMC7779475.

Bobermin LD, Quincozes-Santos A, Santos CL, Varela APM, Teixeira TF, Wartchow KM, Lissner LJ, da Silva A, Thomaz NK, Santi L, Beys-da-Silva WO, Roehe PM, Sesterheim P, Guimarães JA, Gonçalves CA, Souza DO. Zika virus exposure affects neuron-glia communication in the hippocampal slices of adult rats. Sci Rep. 2020 Dec 10;10(1):21604. doi: 10.1038/s41598-020-78735-y. PMID: 33303883; PMCID: PMC7729948.

Misztak P, Pańczyszyn-Trzewik P, Nowak G, Sowa-Kućma M. Epigenetic marks and their relationship with BDNF in the brain of suicide victims. PLoS One. 2020 Sep 24;15(9):e0239335. doi: 10.1371/journal.pone.0239335. PMID: 32970734; PMCID: PMC7513998.

Lima MN, Oliveira HA, Fagundes PM, Estado V, Silva AYO, Freitas RJRX, Passos BABR, Oliveira KS, Batista CN, Vallochi AL, Rocco PRM, Castro-Faria-Neto HC, Maron-Gutierrez T. Mesenchymal stromal cells protect against vascular damage and depression-like behavior in mice surviving cerebral malaria. Stem Cell Res Ther. 2020 Aug 26;11(1):367. doi: 10.1186/s13287-020-01874-6. PMID: 32843073; PMCID: PMC7448996.

Han Z, Wang Y, Qi L, Wang J, Wong J, Chen J, Luo X, Wang QM. Differential Association of Serum BDNF With Poststroke Depression and Poststroke Anxiety. Arch Phys Med Rehabil. 2020 Aug;101(8):1355-1366. doi: 10.1016/j.apmr.2020.04.011. Epub 2020 May 19. PMID: 32416148.

Anand SK, Mondal AC. Neuroanatomical distribution and functions of brain-derived neurotrophic factor in zebrafish (*Danio rerio*) brain. J Neurosci Res. 2020 May;98(5):754-763. doi: 10.1002/jnr.24536. Epub 2019 Sep 18. PMID: 31532010.

Tufano M, Pinna G. Is There a Future for PPARs in the Treatment of Neuropsychiatric Disorders? Molecules. 2020 Feb 27;25(5):1062. doi: 10.3390/molecules25051062. PMID: 32120979; PMCID: PMC7179196.

Alzoubi KH, Abdel-Hafiz L, Khabour OF, El-Elimat T, Alzubi MA, Alali FQ. Evaluation of the Effect of *Hypericum triquetrifolium* Turra on Memory Impairment Induced by Chronic Psychosocial Stress in Rats: Role of BDNF. Drug Des Devel Ther. 2020 Dec 1;14:5299-5314. doi: 10.2147/DDDT.S278153. PMID: 33299301; PMCID: PMC7720289.

Zhou XT, Bao WD, Liu D, Zhu LQ. Targeting the Neuronal Activity of Prefrontal Cortex: New Directions for the Therapy of Depression. Curr Neuropharmacol. 2020;18(4):332-346. doi: 10.2174/1570159X17666191101124017. PMID: 31686631; PMCID: PMC7327942.

Yan L, Xu X, He Z, Wang S, Zhao L, Qiu J, Wang D, Gong Z, Qiu X, Huang H. Antidepressant-Like Effects and Cognitive Enhancement of Coadministration of Chaihu Shugan San and Fluoxetine: Dependent on the BDNF-ERK-CREB Signaling Pathway in the Hippocampus and Frontal Cortex. Biomed Res Int. 2020 Feb 22;2020:2794263. doi: 10.1155/2020/2794263. PMID: 32185198; PMCID: PMC7060874.

Sjörs Dahlman A, Blennow K, Zetterberg H, Glise K, Jonsdottir IH. Growth factors and neurotrophins in patients with stress-related exhaustion disorder. *Psychoneuroendocrinology*. 2019 Nov;109:104415. doi: 10.1016/j.psyneuen.2019.104415. Epub 2019 Aug 20. PMID: 31472432.

Giacobbo BL, de Freitas BS, Vedovelli K, Schlemmer LM, Pires VN, Antoniazzi V, Santos CSD, Paludo L, Borges JV, de Lima DB, Schröder N, de Vries EFJ, Bromberg E. Long-term environmental modifications affect BDNF concentrations in rat hippocampus, but not in serum. *Behav Brain Res*. 2019 Oct 17;372:111965. doi: 10.1016/j.bbr.2019.111965. Epub 2019 May 21. PMID: 31125621.

Cannizzaro E, Ramaci T, Cirrincione L, Plescia F. Work-Related Stress, Physio-Pathological Mechanisms, and the Influence of Environmental Genetic Factors. *Int J Environ Res Public Health*. 2019 Oct 21;16(20):4031. doi: 10.3390/ijerph16204031. PMID: 31640269; PMCID: PMC6843930.

Zakopoulou V, Vlaikou AM, Darsinou M, Papadopoulou Z, Theodoridou D, Papageorgiou K, Alexiou GA, Bougias H, Siafaka V, Zoccolotti P, Chrousos GP, Syrrou M, Michaelidis TM. Linking Early Life Hypothalamic-Pituitary-Adrenal Axis Functioning, Brain Asymmetries, and Personality Traits in Dyslexia: An Informative Case Study. *Front Hum Neurosci*. 2019 Oct 1;13:327. doi: 10.3389/fnhum.2019.00327. PMID: 31632253; PMCID: PMC6779713.

Nelson ST, Hsiao L, Turgeon SM. Sex and housing conditions modify the effects of adolescent caffeine exposure on anxiety-like and depressive-like behavior in the rat. *Behav Pharmacol*. 2019 Oct;30(7):539-546. doi: 10.1097/FBP.0000000000000489. PMID: 31045871.

Viana Borges J, Souza de Freitas B, Antoniazzi V, de Souza Dos Santos C, Vedovelli K, Naziaseno Pires V, Paludo L, Martins de Lima MN, Bromberg E. Social isolation and social support at adulthood affect epigenetic mechanisms, brain-derived neurotrophic factor levels and behavior of chronically stressed rats. *Behav Brain Res*. 2019 Jul 2;366:36-44. doi: 10.1016/j.bbr.2019.03.025. Epub 2019 Mar 14. PMID: 30880220.

Sosanya NM, Garza TH, Stacey W, Crimmins SL, Christy RJ, Cheppudira BP. Involvement of brain-derived neurotrophic factor (BDNF) in chronic intermittent stress-induced enhanced mechanical allodynia in a rat model of burn pain. *BMC Neurosci*. 2019 Apr 24;20(1):17. doi: 10.1186/s12868-019-0500-1. PMID: 31014242; PMCID: PMC6480655.

Ledreux A, Håkansson K, Carlsson R, Kidane M, Columbo L, Terjestam Y, Ryan E, Tusch E, Winblad B, Daffner K, Granholm AC, Mohammed AKH. Differential Effects of Physical Exercise, Cognitive Training, and Mindfulness Practice on Serum BDNF Levels in Healthy Older Adults: A Randomized Controlled Intervention Study. *J Alzheimers Dis*. 2019;71(4):1245-1261. doi: 10.3233/JAD-190756. PMID: 31498125.

Grech AM, Ratnayake U, Hannan AJ, van den Buuse M, Hill RA. Sex-Dependent Effects of Environmental Enrichment on Spatial Memory and Brain-Derived Neurotrophic Factor (BDNF) Signaling in a Developmental "Two-Hit" Mouse Model Combining BDNF Haploinsufficiency and Chronic Glucocorticoid Stimulation. *Front Behav Neurosci*. 2018 Oct 9;12:227. doi: 10.3389/fnbeh.2018.00227. PMID: 30356704; PMCID: PMC6189322.

Gonçalves LV, Herlinger AL, Ferreira TAA, Coitinho JB, Pires RGW, Martins-Silva C. Environmental enrichment cognitive neuroprotection in an experimental model of cerebral ischemia: biochemical and molecular aspects. *Behav Brain Res*. 2018 Aug 1;348:171-183. doi: 10.1016/j.bbr.2018.04.023. Epub 2018 Apr 21. PMID: 29684474.

Matt L, Eckert P, Panford-Walsh R, Geisler HS, Bausch AE, Manthey M, Müller NIC, Harasztosi C, Rohbock K, Ruth P, Friauf E, Ott T, Zimmermann U, Rüttiger L, Schimmang T, Knipper M, Singer W. Visualizing BDNF Transcript Usage During Sound-Induced Memory Linked Plasticity. *Front Mol Neurosci*. 2018 Jul 31;11:260. doi: 10.3389/fnmol.2018.00260. PMID: 30127717; PMCID: PMC6089339.

Caraci F, Spampinato SF, Morgese MG, Tascetta F, Salluzzo MG, Giambirtone MC, Caruso G, Munafò A, Torrisi SA, Leggio GM, Trabace L, Nicoletti F, Drago F, Sortino MA, Copani A. Neurobiological links between depression and AD: The role of TGF- β 1 signaling as a new pharmacological target. *Pharmacol Res.* 2018 Apr;130:374-384. doi: 10.1016/j.phrs.2018.02.007. Epub 2018 Feb 10. PMID: 29438781.

Prefrontal cortical glutathione-dependent defense and proinflammatory mediators in chronically isolated rats: Modulation by fluoxetine or clozapine

Todorović, N., **Filipović, D.**

Neuroscience, 2017, 355, pp. 49–60

Heterocitati **6**:

Citiran u :

Uehara T, Kurachi M, Kondo T, Abe H, Itoh H, Sumiyoshi T, Suzuki M. Apocynin-Tandospiro Derivatives Suppress Methamphetamine-Induced Hyperlocomotion in Rats with Neonatal Exposure to Dizocilpine. *J Pers Med.* 2022 Feb 27;12(3):366. doi: 10.3390/jpm12030366. PMID: 35330366; PMCID: PMC8951253.

Dionisie V, Filip GA, Manea MC, Manea M, Riga S. The anti-inflammatory role of SSRI and SNRI in the treatment of depression: a review of human and rodent research studies. *Inflammopharmacology.* 2021 Feb;29(1):75-90. doi: 10.1007/s10787-020-00777-5. Epub 2020 Nov 8. PMID: 33164143.

Rappeneau V, Wilmes L, Touma C. Molecular correlates of mitochondrial dysfunctions in major depression: Evidence from clinical and rodent studies. *Mol Cell Neurosci.* 2020 Dec;109:103555. doi: 10.1016/j.mcn.2020.103555. Epub 2020 Sep 23. PMID: 32979495.

Cunha MP, Machado DG, Mancini G, Glaser V, de Paula Martins R, de Bem AF, Latini A, Dafre AL, Rodrigues ALS. The effect of voluntary wheel running on the antioxidant status is dependent on sociability conditions. *Pharmacol Biochem Behav.* 2020 Nov;198:173018. doi: 10.1016/j.pbb.2020.173018. Epub 2020 Aug 20. PMID: 32827504; PMCID: PMC7438373

Adetunji, O.A., Ayodeji, A.O., Adetayo, L.I., Adeboye, E.C., Toyin, A.I. Anti-depressant activities of theobroma cacao extract on reserpine-induced depression in female wistar rats.2020. *Journal of Krishna Institute of Medical Sciences University* 9(1), pp. 27-35

Mello BSF, Chaves Filho AJM, Custódio CS, Cordeiro RC, Miyajima F, de Sousa FCF, Vasconcelos SMM, de Lucena DF, Macedo D. Sex influences in behavior and brain inflammatory and oxidative alterations in mice submitted to lipopolysaccharide-induced inflammatory model of depression. *J Neuroimmunol.* 2018 Jul 15;320:133-142. doi: 10.1016/j.jneuroim.2018.04.009. Epub 2018 Apr 14. PMID: 29681406.

Chronic fluoxetine treatment directs energy metabolism towards the citric acid cycle and oxidative phosphorylation in rat hippocampal nonsynaptic mitochondria

Filipović, D., Costina, V., Perić, I., Stanisavljević, A., Findeisen, P.

Brain Research, 2017, 1659, pp. 41–54.

Heterocitati **18**:

Citiran u :

Qi, Y.-J., Lu, Y.-R., Shi, L.-G., Demmers, J.A.A., Bezstarosti, K., Rijkers, E., Balesar, R., Swaab, D., Bao, A.-M. Distinct proteomic profiles in prefrontal subareas of elderly major depressive disorder and bipolar disorder patients (2022) *Translational Psychiatry*, 12 (1), art. no. 275, .

Colville, C., Alcaraz, A.J., Green, D., Park, B., Xia, J., Soufan, O., Hruška, P., Potěšil, D., Zdráhal, Z., Crump, D., Basu, N., Hogan, N., Hecker, M. Characterizing toxicity pathways of fluoxetine to predict adverse outcomes in adult fathead minnows (*Pimephales promelas*) (2022) *Science of the Total Environment*, 817, art. no. 152747,

Schmidt, C.A. Prescription drugs and mitochondrial metabolism (2022) *Bioscience Reports*, 42 (4), art. no. BSR20211813,

Rayan, N.A., Kumar, V., Aow, J., Rastegar, N., Lim, M.G.L., O'Toole, N., Aliwarga, E., Arcego, D.M., Yeo, H.T.G., Wong, J.Y., Lee, M.Y., Schmidt, F., Haja, H.S., Tam, W.L., Zhang, T.-Y., Diorio, J., Anacker, C., Hen, R., Parent, C., Meaney, M.J., Prabhakar, S. Integrative multi-omics landscape of fluoxetine action across 27 brain regions reveals global increase in energy metabolism and region-specific chromatin remodelling (2022) *Molecular Psychiatry*, .

Głombik, K., Budziszewska, B., Basta-Kaim, A. Mitochondria-targeting therapeutic strategies in the treatment of depression (2021) *Mitochondrion*, 58, pp. 169-178.

Allen, J., Kalynchuk, L.E., Caruncho, H.J. Mitochondrial dysfunction and affective disorders: Focus on diet, exercise, and aging (2021) *Mitochondrial Dysfunction and Nanotherapeutics: Aging, Diseases, and Nanotechnology-Related Strategies in Mitochondrial Medicine*, pp. 3-34.

Rappeneau, V., Wilmes, L., Touma, C. Molecular correlates of mitochondrial dysfunctions in major depression: Evidence from clinical and rodent studies (2020) *Molecular and Cellular Neuroscience*, 109, art. no. 103555, .

Medeiros, G.C., Roy, D., Kontos, N., Beach, S.R. Post-stroke depression: A 2020 updated review (2020) *General Hospital Psychiatry*, 66, pp. 70-80.

Chan, S.T., McCarthy, M.J., Vawter, M.P. Psychiatric drugs impact mitochondrial function in brain and other tissues (2020) *Schizophrenia Research*, 217, pp. 136-147.

Anderson, G., Maes, M. Role of opioidergic system in regulating depression pathophysiology (2020) *Current Pharmaceutical Design*, 26 (41), pp. 5317-5334.

Frantzi, M., Latosinska, A., Mischak, H. Proteomics in Drug Development: The Dawn of a New Era? (2019) *Proteomics - Clinical Applications*, 13 (2), art. no. 1800087, .

Silva, T.L.A., Braz, G.R.F., Silva, S.C.D.A., Pedroza, A.A.D.S., Freitas, C.D.M., Ferreira, D.J.S., da Silva, A.I., Lagranha, C.J. Serotonin transporter inhibition during neonatal period induces sex-dependent effects on mitochondrial bioenergetics in the rat brainstem (2018) *European Journal of Neuroscience*, 48 (1), pp. 1620-1634.

Allen, J., Romay-Tallon, R., Brymer, K.J., Caruncho, H.J., Kalynchuk, L.E. Mitochondria and mood: Mitochondrial dysfunction as a key player in the manifestation of depression (2018) *Frontiers in Neuroscience*, 12 (JUN), art. no. 386,

Hu, Q., Shen, P., Bai, S., Dong, M., Liang, Z., Chen, Z., Wang, W., Wang, H., Gui, S., Li, P., Xie, P. Metabolite-related antidepressant action of diterpene ginkgolides in the prefrontal cortex (2018) *Neuropsychiatric Disease and Treatment*, 14, pp. 999-1011.

Villa, R.F., Ferrari, F., Moretti, A. Post-stroke depression: Mechanisms and pharmacological treatment (2018) *Pharmacology and Therapeutics*, 184, pp. 131-144.

Petschner, P., Gonda, X., Baksa, D., Eszlari, N., Trivaks, M., Juhasz, G., Bagdy, G. Genes Linking Mitochondrial Function, Cognitive Impairment and Depression are Associated with Endophenotypes Serving Precision Medicine (2018) *Neuroscience*, 370, pp. 207-217.

Głombik, K., Stachowicz, A., Trojan, E., Olszanecki, R., Ślusarczyk, J., Suski, M., Chamera, K., Budziszewska, B., Lasoń, W., Basta-Kaim, A. Evaluation of the effectiveness of chronic antidepressant drug treatments in the hippocampal mitochondria – A proteomic study in an animal model of depression (2017) *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 78, pp. 51-60.

Villa, R.F., Ferrari, F., Bagini, L., Gorini, A., Brunello, N., Tascetta, F. Mitochondrial energy metabolism of rat hippocampus after treatment with the antidepressants desipramine and fluoxetine (2017) *Neuropharmacology*, 121, pp. 30-38.

Olanzapine alleviates oxidative stress in the liver of socially isolated rats

Stanisavljevic, A., Peric, I., Pantelic, M., Filipovic, D.M.

Canadian Journal of Physiology and Pharmacology, 2017, 95(6), pp. 634–640

Heterocitati **8**:

Citiran u :

Bove, M., Lama, A., Schiavone, S., Pirozzi, C., Tucci, P., Sikora, V., Trinchese, G., Corso, G., Morgese, M.G., Trabace, L. Social isolation triggers oxidative status and impairs systemic and hepatic insulin sensitivity in normoglycemic rats (2022) *Biomedicine and Pharmacotherapy*, 149, art. no. 112820, .

Allahgholipour, S.Z., Farzipour, S., Ghasemi, A., Asgarian-Omran, H., Hosseinimehr, S.J. The Radiosensitizing Effect of Olanzapine as an Antipsychotic Medication on Glioblastoma Cell (2022) *Current Radiopharmaceuticals*, 15 (1), pp. 50-55.

Török, B., Fodor, A., Klausz, B., Varga, J., Zelena, D. Ameliorating schizophrenia-like symptoms in vasopressin deficient male Brattleboro rat by chronic antipsychotic treatment (2021) *European Journal of Pharmacology*, 909, art. no. 174383, .

Xiu, M.H., Li, Z., Chen, D.C., Chen, S., Curbo, M.E., Wu, H.E., Tong, Y.S., Tan, S.P., Zhang, X.Y. Interrelationships between BDNF, Superoxide Dismutase, and Cognitive Impairment in Drug-Naive First-Episode Patients with Schizophrenia (2020) *Schizophrenia Bulletin*, 46 (6), pp. 1498-1510.

Cunha, M.P., Machado, D.G., Mancini, G., Glaser, V., de Paula Martins, R., de Bem, A.F., Latini, A., Dafre, A.L., Rodrigues, A.L.S. The effect of voluntary wheel running on the antioxidant status is dependent on sociability conditions (2020) *Pharmacology Biochemistry and Behavior*, 198, art. no. 173018, .

Li, H., Xia, N. The role of oxidative stress in cardiovascular disease caused by social isolation and loneliness (2020) *Redox Biology*, 37, art. no. 101585, .

Asghari, M., Shaghghi, Z., Farzipour, S., Ghasemi, A., Hosseinimehr, S.J. Radioprotective effect of olanzapine as an anti-psychotic drug against genotoxicity and apoptosis induced by ionizing radiation on human lymphocytes (2019) *Molecular Biology Reports*, 46 (6), pp. 5909-5917.

Pontes-Neto, J.G., Fontes, D.A.F., de Lyra, M.A.M., Brito, M.D.R.M.D., Chaves, L.L., Rolim-Neto, P.J., De La Roca Soares, M.F., Quintans Júnior, L.J., de Freitas, R.M., Soares-Sobrinho, J.L. Evaluation of antioxidant potencial of novel CaAl and NiAl layered double hydroxides loaded with olanzapine (2018) *Life Sciences*, 207, pp. 246-252.

Oxidative and nitrosative stress pathways in the brain of socially isolated adult male rats demonstrating depressive- and anxiety-like symptoms

Filipović, D., Todorović, N., Bernardi, R.E., Gass, P.

Brain Structure and Function, 2017, 222(1)

Heterocitati **67**:

Citiran u :

Aswar, U., Shende, H., Aswar, M. Buspirone, a 5-HT_{1A} agonist attenuates social isolation-induced behavior deficits in rats: A comparative study with fluoxetine (2022) *Behavioural Pharmacology*, 33 (5), pp. 309-321.

DOI: 10.1097/FBP.0000000000000679

Guven, E.B., Pranic, N.M., Unal, G. The differential effects of brief environmental enrichment following social isolation in rats (2022) *Cognitive, Affective and Behavioral Neuroscience*, 22 (4), pp. 818-832. DOI: 10.3758/s13415-022-00989-y

Elsaid, S., Rubin-Kahana, D.S., Kloiber, S., Kennedy, S.H., Chavez, S., Foll, B.L. Neurochemical Alterations in Social Anxiety Disorder (SAD): A Systematic Review of Proton Magnetic Resonance Spectroscopic Studies (2022) *International Journal of Molecular Sciences*, 23 (9), art. no. 4754, DOI: 10.3390/ijms23094754

Zhang, Y., Fang, Y.-C., Cui, L.-X., Jiang, Y.-T., Luo, Y.-S., Zhang, W., Yu, D.-X., Wen, J., Zhou, T.-T. Zhi-Zi-Chi Decoction Reverses Depressive Behaviors in CUMS Rats by Reducing Oxidative Stress Injury Via Regulating GSH/GSSG Pathway. (2022) *Frontiers in Pharmacology*, 13, art. no. 887890, DOI: 10.3389/fphar.2022.887890

Liao, H., Fan, P., Ruan, H., Gong, N., Qiu, W., Zhang, Y., Li, X., Li, H., Zhang, M. Experiences of social isolation among patients with neuromyelitis optica spectrum disorder in China: A qualitative study (2022) *Multiple Sclerosis and Related Disorders*, 60, art. no. 103711, DOI: 10.1016/j.msard.2022.103711

Grigoryan, G.A., Pavlova, I.V., Zaichenko, M.I. Effects of Social Isolation on the Development of Anxiety and Depression-Like Behavior in Model Experiments in Animals (2022) *Neuroscience and Behavioral Physiology*, DOI: 10.1007/s11055-022-01297-1

Guo, H., Zheng, L., Xu, H., Pang, Q., Ren, Z., Gao, Y., Wang, T. Neurobiological Links between Stress, Brain Injury, and Disease (2022) *Oxidative Medicine and Cellular Longevity*, 2022, art. no. 8111022, DOI: 10.1155/2022/8111022

Razavi, Y., Keyhanfar, F., Shabani, R., Haghparast, A., Mehdizadeh, M. Therapeutic Effects of Cannabidiol on Methamphetamine Abuse: A Review of Preclinical Study (2021) *Iranian Journal of Pharmaceutical Research*, 20 (4), pp. 152-164. DOI: 10.22037/ijpr.2021.114918.15106

Maghsoud-Nia, L., Asle-Rousta, M., Rahnema, M., Amini, R. Sesame Oil and Its Component Oleic Acid Ameliorate Behavioral and Biochemical Alterations in Socially Isolated Rats (2021) *Iranian Journal of Science and Technology, Transaction A: Science*, 45 (4), pp. 1155-1163. DOI: 10.1007/s40995-021-01098-0

Shin, D., Rhee, S.J., Lee, J., Yeo, I., Do, M., Joo, E.-J., Jung, H.Y., Roh, S., Lee, S.-H., Kim, H., Bang, M., Lee, K.Y., Kwon, J.S., Ha, K., Ahn, Y.M., Kim, Y. Quantitative Proteomic Approach for Discriminating Major Depressive Disorder and Bipolar Disorder by Multiple Reaction Monitoring-Mass Spectrometry (2021) *Journal of Proteome Research*, 20 (6), pp. 3188-3203. DOI: 10.1021/acs.jproteome.1c00058

Trujillo-Mayol, I., Guerra-Valle, M., Casas-Forero, N., Sobral, M.M.C., Viegas, O., Alarcón-Enos, J., Ferreira, I.M., Pinho, O. Western Dietary Pattern Antioxidant Intakes and Oxidative Stress: Importance during the SARS-CoV-2/COVID-19 Pandemic (2021) *Advances in Nutrition*, 12 (3), pp. 670-681. DOI: 10.1093/advances/nmaa171

Ji, Y., Luo, J., Zeng, J., Fang, Y., Liu, R., Luan, F., Zeng, N. Xiaoyao Pills Ameliorate Depression-like Behaviors and Oxidative Stress Induced by Olfactory Bulbectomy in Rats via the Activation of the PIK3CA-AKT1-NFE2L2/BDNF Signaling Pathway (2021) *Frontiers in Pharmacology*, 12, art. no. 643456, DOI: 10.3389/fphar.2021.643456

Arabi, M., Nasab, S.H., Lorigooini, Z., Boroujeni, S.N., Mortazavi, S.M., Anjomshoa, M., Amini-Khoei, H. Auraptene exerts protective effects on maternal separation stress-induced changes in behavior, hippocampus, heart and serum of mice (2021) *International Immunopharmacology*, 93, art. no. 107436, . DOI: 10.1016/j.intimp.2021.107436

Demin, K.A., Smagin, D.A., Kovalenko, I.L., Strekalova, T., Galstyan, D.S., Kolesnikova, T.O., De Abreu, M.S., Galyamina, A.G., Bashirzade, A., Kalueff, A.V. CNS genomic profiling in the mouse chronic social stress model implicates a novel category of candidate genes integrating affective pathogenesis (2021) *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 105, art. no. 110086, DOI: 10.1016/j.pnpbp.2020.110086

Mo, Y., Lai, W., Zhong, Y., Hu, Z., You, M., Du, M., Wang, P., Wu, X., Chen, C., He, H., Gao, Z., Xu, Y., Wang, D., Cui, L., Yang, Y. TXNIP contributes to bone loss via promoting the mitochondrial oxidative phosphorylation during glucocorticoid-induced osteoporosis (2021) *Life Sciences*, 266, art. no. 118938. DOI: 10.1016/j.lfs.2020.118938

Zhang, Y., Luo, Y., Zhang, D., Pang, B., Wen, J., Zhou, T. Predicting a Potential Link to Antidepressant Effect: Neuroprotection of Zhi-zi-chi Decoction on Glutamate-induced Cytotoxicity in PC12 Cells (2021) *Frontiers in Pharmacology*, 11, art. no. 625108 DOI: 10.3389/fphar.2020.625108

Póchlópek, S., Aebischer, D., Bartusik-Aebischer, D. ANTIOXIDANT PROPERTIES OF PERIWINKLE (VINCA MINOR L.) (2021) *A Biochemical View of Antioxidants*, pp. 25-30. DOCUMENT TYPE: Book Chapter

Grigoryan, G.A., Pavlova, L.V., Zaichenko, M.I. INFLUENCE OF SOCIAL ISOLATION ON DEVELOPMENT OF ANXIOUS AND DEPRESSIVE-LIKE BEHAVIOR IN EXPERIMENTAL ANIMAL MODELS (2021) *Zhurnal Vyshei Nervnoi Deyatelnosti Imeni I.P. Pavlova*, 71 (6), pp. 760-784. DOI: 10.31857/S0044467721060058

Unal, G. Social isolation as a laboratory model of depression (2021) *Mental Health Effects of COVID-19*, pp. 133-151. DOI: 10.1016/B978-0-12-824289-6.00005-2

Martorell, M., Lucas, X., Alarcón-Zapata, P., Capó, X., Quetglas-Llabrés, M.M., Tejada, S., Sureda, A. Targeting xanthine oxidase by natural products as a therapeutic approach for mental disorders (2021) *Current Pharmaceutical Design*, 27 (3), pp. 367-382 DOI: 10.2174/1381612826666200621165839

Paladini, M.S., Spero, V., Begni, V., Marchisella, F., Guidi, A., Gruca, P., Lason, M., Litwa, E., Papp, M., Riva, M.A., Molteni, R. Behavioral and molecular effects of the antipsychotic drug blonanserin in the chronic mild stress model (2021) *Pharmacological Research*, 163, art. no. 105330, DOI: 10.1016/j.phrs.2020.105330

Kang, I., Kondo, D., Kim, J., Lyoo, I.K., Yurgelun-Todd, D., Hwang, J., Renshaw, P.F. Elevating the level of hypoxia inducible factor may be a new potential target for the treatment of depression (2021) *Medical Hypotheses*, 146, art. no. 110398. DOI: 10.1016/j.mehy.2020.110398

Tomova, L., Tye, K., Saxe, R. The neuroscience of unmet social needs (2021) *Social Neuroscience*, 16 (3), pp. 221-231. DOI: 10.1080/17470919.2019.1694580

Bonea, M., Filip, G.A., Toma, V.A., Baldea, I., Berghian, A.S., Decea, N., Olteanu, D., Moldovan, R., Crivii, C., Vinasă, R.C., Micluția, I.V. The Modulatory Effect of Metformin on Ethanol-Induced Anxiety, Redox Imbalance, and Extracellular Matrix Levels in the Brains of Wistar Rats

(2020) *Journal of Molecular Neuroscience*, 70 (12), pp. 1943-1961.
DOI: 10.1007/s12031-020-01593-w

Niu, L., Luo, S.S., Xu, Y., Wang, Z., Luo, D., Yang, H., Li, W., He, J., Zhong, X.L., Liu, Z.H., Zeng, J.Y., Cao, W.Y., Wan, W. The critical role of the hippocampal NLRP3 inflammasome in social isolation-induced cognitive impairment in male mice (2020) *Neurobiology of Learning and Memory*, 175, art. no. 107301, DOI: 10.1016/j.nlm.2020.107301

Cunha, M.P., Machado, D.G., Mancini, G., Glaser, V., de Paula Martins, R., de Bem, A.F., Latini, A., Dafre, A.L., Rodrigues, A.L.S. The effect of voluntary wheel running on the antioxidant status is dependent on sociability conditions (2020) *Pharmacology Biochemistry and Behavior*, 198, art. no. 173018, DOI: 10.1016/j.pbb.2020.173018

Begni, V., Sanson, A., Pfeiffer, N., Brandwein, C., Inta, D., Talbot, S.R., Riva, M.A., Gass, P., Mallien, A.S. Social isolation in rats: Effects on animal welfare and molecular markers for neuroplasticity (2020) *PLoS ONE*, 15 (10 October), art. no. e0240439, DOI: 10.1371/journal.pone.0240439

Li, H., Xia, N. The role of oxidative stress in cardiovascular disease caused by social isolation and loneliness (2020) *Redox Biology*, 37, art. no. 101585, DOI: 10.1016/j.redox.2020.101585

Dehkohne, S.G., Azadi, S., Rasouli-Azad, M., Jalilian, J., Ghasemineghad, A., Vahed, N., Razzaghi, F., Jafari, L., Abbaszadeh-Mashkani, S. Metabolic syndrome parameters in psychiatric disease: Current knowledge and future perspectives (2020) *International Journal of Pharmaceutical Research*, 12 (3), pp. 1039-1061. DOI: 10.31838/ijpr/2020.12.03.157

Fedotova, I.V., Vasil'yeva, T.N., Blinova, T.V., Umnyagina, I.A., Lyapina, Y.V., Nekrasova, M.M., Strakhova, L.A., Zuyev, A.V. Assessment of indicators of nervous and emotional stress in medical center personnel depending on the characteristics of their professional activity (2020) *Meditsina Truda I Promyshlennaya Ekologiya*, 60 (10), pp. 650-657. DOI: 10.31089/1026-9428-2020-60-10-650-657

Oh, H.-M., Lee, J.-S., Kim, S.-W., Oh, Y.-T., Kim, W.-Y., Lee, S.-B., Cho, Y.-R., Jeon, Y.-J., Cho, J.-H., Son, C.-G. Uwhangchungsimwon, a standardized herbal drug, exerts an anti-depressive effect in a social isolation stress-induced mouse model (2020) *Frontiers in Pharmacology*, 10, art. no. 1674 DOI: 10.3389/fphar.2019.01674

Almeida, J., Oliveira, L.A., Benini, R., Crestani, C.C. Role of hippocampal nitrenergic neurotransmission in behavioral and cardiovascular dysfunctions evoked by chronic social stress (2020) *Nitric Oxide - Biology and Chemistry*, 94, pp. 114-124. DOI: 10.1016/j.niox.2019.11.004

Frinchi, M., Nuzzo, D., Scaduto, P., Di Carlo, M., Massenti, M.F., Belluardo, N., Mudò, G. Anti-inflammatory and antioxidant effects of muscarinic acetylcholine receptor (mAChR) activation in the rat hippocampus (2019) *Scientific Reports*, 9 (1), art. no. 14233, DOI: 10.1038/s41598-019-50708-w

Michels, S., Dolga, A.M., Braun, M.D., Kisko, T.M., Sungur, A.Ö., Witt, S.H., Rietschel, M., Dempfle, A., Wöhr, M., Schwarting, R.K.W., Culmsee, C. Interaction of the Psychiatric Risk Gene *Cacna1c* With Post-weaning Social Isolation or Environmental Enrichment Does Not Affect Brain Mitochondrial Bioenergetics in Rats (2019) *Frontiers in Cellular Neuroscience*, 13, art. no. 483, DOI: 10.3389/fncel.2019.00483

Gądek-Michalska, A., Tadeusz, J., Bugajski, A., Bugajski, J. Chronic Isolation Stress Affects Subsequent Crowding Stress-Induced Brain Nitric Oxide Synthase (NOS) Isoforms and Hypothalamic-Pituitary-Adrenal (HPA) Axis Responses (2019) *Neurotoxicity Research*, 36 (3), pp. 523-539.
DOI: 10.1007/s12640-019-00067-1

Dowell, J., Elser, B.A., Schroeder, R.E., Stevens, H.E. Cellular stress mechanisms of prenatal maternal stress: Heat shock factors and oxidative stress (2019) *Neuroscience Letters*, 709, art. no. 134368
DOI: 10.1016/j.neulet.2019.134368.

Jiang, Y., Botchway, B.O.A., Hu, Z., Fang, M. Overexpression of SIRT1 Inhibits Corticosterone-Induced Autophagy (2019) *Neuroscience*, 411, pp. 11-22.
DOI: 10.1016/j.neuroscience.2019.05.035

Manouze, H., Ghestem, A., Poillerat, V., Bennis, M., Ba-M'hamed, S., Benliel, J.J., Becker, C., Bernard, C. Effects of single cage housing on stress, cognitive, and seizure parameters in the rat and mouse pilocarpine models of epilepsy (2019) *eNeuro*, 6 (4), art. no. ENEURO.0179-18.2019,
DOI: 10.1523/ENEURO.0179-18.2019

Zorzo, C., Méndez-López, M., Méndez, M., Arias, J.L. Adult social isolation leads to anxiety and spatial memory impairment: Brain activity pattern of COx and c-Fos (2019) *Behavioural Brain Research*, 365, pp. 170-177.
DOI: 10.1016/j.bbr.2019.03.011

Belleau, E.L., Treadway, M.T., Pizzagalli, D.A. The Impact of Stress and Major Depressive Disorder on Hippocampal and Medial Prefrontal Cortex Morphology (2019) *Biological Psychiatry*, 85 (6), pp. 443-453.
DOI: 10.1016/j.biopsych.2018.09.031

Millett, C.E., Phillips, B.E., Saunders, E.F.H. The Sex-specific Effects of LPS on Depressive-like Behavior and Oxidative Stress in the Hippocampus of the Mouse (2019) *Neuroscience*, 399, pp. 77-88.
DOI: 10.1016/j.neuroscience.2018.12.008

De Oca, M.A.P.-M., Gutiérrez-Mariscal, M., Salmerón-Jiménez, M.F., Jaimes-Hoy, L., Charli, J.-L., Joseph-Bravo, P. Voluntary exercise-induced activation of thyroid axis and reduction of white fat depots is attenuated by chronic stress in a sex dimorphic pattern in adult rats (2019) *Frontiers in Endocrinology*, 10 (JUN), art. no. 418,
DOI: 10.3389/fendo.2019.00418

Haj-Mirzaian, A., Nikbakhsh, R., Ramezanzadeh, K., Rezaee, M., Amini-Khoei, H., Haj-Mirzaian, A., Ghesmati, M., Afshari, K., Haddadi, N.-S., Dehpour, A.R. Involvement of opioid system in behavioral despair induced by social isolation stress in mice (2019) *Biomedicine and Pharmacotherapy*, 109, pp. 938-944.
DOI: 10.1016/j.biopha.2018.10.144

Tutakhail, A., Nazary, Q.A., Lebsir, D., Kerdine-Romer, S., Coudore, F. Induction of brain Nrf2-HO-1 pathway and antinociception after different physical training paradigms in mice (2018) *Life Sciences*, 209, pp. 149-156.
DOI: 10.1016/j.lfs.2018.08.004

Gong, H., Su, W.-J., Cao, Z.-Y., Lian, Y.-J., Peng, W., Liu, Y.-Z., Zhang, Y., Liu, L.-L., Wu, R., Wang, B., Zhang, T., Wang, Y.-X., Jiang, C.-L. Hippocampal Mrp8/14 signaling plays a critical role in the manifestation of depressive-like behaviors in mice (2018) *Journal of Neuroinflammation*, 15 (1), art. no. 252.
DOI: 10.1186/s12974-018-1296-0

Mumtaz, F., Khan, M.I., Zubair, M., Dehpour, A.R. Neurobiology and consequences of social isolation stress in animal model—A comprehensive review (2018) *Biomedicine and Pharmacotherapy*, 105, pp. 1205-1222.

DOI: 10.1016/j.biopha.2018.05.086

Wang, B., Chen, X., Zhou, T., Wang, X. Antidepressant-like effects of embelin and its possible mechanisms of action in chronic unpredictable stress-induced mice(2018) *Neurological Research*, 40 (8), pp. 666-676.

DOI: 10.1080/01616412.2018.1460705

Hollis, F., Mitchell, E.S., Canto, C., Wang, D., Sandi, C. Medium chain triglyceride diet reduces anxiety-like behaviors and enhances social competitiveness in rats (2018) *Neuropharmacology*, 138, pp. 245-256.

DOI: 10.1016/j.neuropharm.2018.06.017

Fedoce, A.D.G., Ferreira, F., Bota, R.G., Bonet-Costa, V., Sun, P.Y., Davies, K.J.A. The role of oxidative stress in anxiety disorder: cause or consequence? (2018) *Free Radical Research*, 52 (7), pp. 737-750.

DOI: 10.1080/10715762.2018.1475733

Pellissier, L.P., Gandía, J., Laboute, T., Becker, J.A.J., Le Merrer, J. μ opioid receptor, social behaviour and autism spectrum disorder: reward matters (2018) *British Journal of Pharmacology*, 175 (14), pp. 2750-2769.

DOI: 10.1111/bph.13808

Gomes, C., Martinho, F.C., Barbosa, D.S., Antunes, L.S., Póvoa, H.C.C., Baltus, T.H.L., Morelli, N.R., Vargas, H.O., Nunes, S.O.V., Anderson, G., Maes, M. Increased Root Canal Endotoxin Levels are Associated with Chronic Apical Periodontitis, Increased Oxidative and Nitrosative Stress, Major Depression, Severity of Depression, and a Lowered Quality of Life (2018) *Molecular Neurobiology*, 55 (4), pp. 2814-2827.

DOI: 10.1007/s12035-017-0545-z

Xia, N., Li, H. Loneliness, Social Isolation, and Cardiovascular Health (2018) *Antioxidants and Redox Signaling*, 28 (9), pp. 837-851.

DOI: 10.1089/ars.2017.7312

Golbidi, S., Li, H., Laher, I. Oxidative Stress: A Unifying Mechanism for Cell Damage Induced by Noise, (Water-Pipe) Smoking, and Emotional Stress - Therapeutic Strategies Targeting Redox Imbalance (2018) *Antioxidants and Redox Signaling*, 28 (9), pp. 741-759.

DOI: 10.1089/ars.2017.7257

Cao, M., Hu, P.-P., Zhang, Y.-L., Yan, Y.-X., Shields, C.B., Zhang, Y.-P., Hu, G., Xiao, M. Enriched physical environment reverses spatial cognitive impairment of socially isolated APPswe/PS1dE9 transgenic mice before amyloidosis onset (2018) *CNS Neuroscience and Therapeutics*, 24 (3), pp. 202-211.

DOI: 10.1111/cns.12790

Hoyer, C., Sartorius, A., Aksay, S.S., Bumb, J.M., Janke, C., Thiel, M., Haffner, D., Leifheit-Nestler, M., Kranaster, L. Electroconvulsive therapy enhances the anti-ageing hormone Klotho in the cerebrospinal fluid of geriatric patients with major depression (2018) *European Neuropsychopharmacology*, 28 (3), pp. 428-435.

DOI: 10.1016/j.euroneuro.2017.12.012

Petschner, P., Gonda, X., Baksa, D., Eszlari, N., Trivaks, M., Juhasz, G., Bagdy, G. Genes Linking Mitochondrial Function, Cognitive Impairment and Depression are Associated with Endophenotypes Serving Precision Medicine (2018) *Neuroscience*, 370, pp. 207-217.

DOI: 10.1016/j.neuroscience.2017.09.049

Fernandes, L.M.P., Lopes, K.S., Santana, L.N.S., Fontes-Júnior, E.A., Ribeiro, C.H.M.A., Silva, M.C.F., de Oliveira Paraense, R.S., Crespo-López, M.E., Gomes, A.R.Q., Lima, R.R., Monteiro, M.C., Maia, C.S.F. Repeated cycles of binge-like ethanol intake in adolescent female rats induce motor function impairment and oxidative damage in motor cortex and liver, but not in blood (2018) *Oxidative Medicine and Cellular Longevity*, 2018, art. no. 3467531, DOI: 10.1155/2018/3467531

Djordjevic, N.Z., Paunović, M.G., Peulić, A.S. Anxiety-like behavioural effects of extremely low-frequency electromagnetic field in rats (2017) *Environmental Science and Pollution Research*, 24 (27), pp. 21693-21699. DOI: 10.1007/s11356-017-9710-1

Corcoba, A., Gruetter, R., Do, K.Q., Duarte, J.M.N. Social isolation stress and chronic glutathione deficiency have a common effect on the glutamine-to-glutamate ratio and myo-inositol concentration in the mouse frontal cortex (2017) *Journal of Neurochemistry*, 142 (5), pp. 767-775. DOI: 10.1111/jnc.14116

Shimamoto, A., Rappeneau, V. Sex-dependent mental illnesses and mitochondria (2017) *Schizophrenia Research*, 187, pp. 38-46. DOI: 10.1016/j.schres.2017.02.025

Murínová, J., Hlaváčová, N., Chmelová, M., Riečanský, I. The evidence for altered BDNF expression in the brain of rats reared or housed in social isolation: A systematic review (2017) *Frontiers in Behavioral Neuroscience*, 11, art. no. 101, DOI: 10.3389/fnbeh.2017.00101

Tang, H.-L., Zhang, G., Ji, N.-N., Du, L., Chen, B.-B., Hua, R., Zhang, Y.-M. Toll-Like Receptor 4 in Paraventricular Nucleus Mediates Visceral Hypersensitivity Induced by Maternal Separation (2017) *Frontiers in Pharmacology*, 8 (MAY), art. no. 309 DOI: 10.3389/fphar.2017.00309

Campos, A.C., Fogaça, M.V., Scarante, F.F., Joca, S.R.L., Sales, A.J., Gomes, F.V., Sonogo, A.B., Rodrigues, N.S., Galve-Roperh, I., Guimarães, F.S. Plastic and neuroprotective mechanisms involved in the therapeutic effects of cannabidiol in psychiatric disorders (2017) *Frontiers in Pharmacology*, 8 (MAY), art. no. 269. DOI: 10.3389/fphar.2017.00269

Gawali, N.B., Bulani, V.D., Gursahani, M.S., Deshpande, P.S., Kothavade, P.S., Juvekar, A.R. Agmatine attenuates chronic unpredictable mild stress-induced anxiety, depression-like behaviours and cognitive impairment by modulating nitrergic signalling pathway (2017) *Brain Research*, 1663, pp. 66-77. DOI: 10.1016/j.brainres.2017.03.004

Mehta, V., Parashar, A., Udayabanu, M. Quercetin prevents chronic unpredictable stress induced behavioral dysfunction in mice by alleviating hippocampal oxidative and inflammatory stress (2017) *Physiology and Behavior*, 171, pp. 69-78. DOI: 10.1016/j.physbeh.2017.01.006

Hritcu, L., Ionita, R., Postu, P.A., Gupta, G.K., Turkez, H., Lima, T.C., Carvalho, C.U.S., De Sousa, D.P. Antidepressant flavonoids and their relationship with oxidative stress (2017) *Oxidative Medicine and Cellular Longevity*, 2017, art. no. 5762172, DOI: 10.1155/2017/5762172

Cunha, M.P. An update on the neuroprotective effects of creatine in central nervous system diseases (2017) *Creatine: Biosynthesis, Health Effects and Clinical Perspectives*, pp. 1-82. DOCUMENT TYPE: Book Chapter

Chronic stress, hippocampus and parvalbumin-positive interneurons: What do we know so far?

Zaletel, I., **Filipović, D.**, Puškaš, N.

Reviews in the Neurosciences, 2016, 27(4), pp. 397–409

Heterocitati 33 :

Citiran u :

Hu, Y.-Q., Niu, T.-T., Xu, J.-M., Peng, L., Sun, Q.-H., Huang, Y., Zhou, J., Ding, Y.-Q. Negative air ion exposure ameliorates depression-like behaviors induced by chronic mild stress in mice (2022) Environmental Science and Pollution Research, 29 (41), pp. 62626-62636.
DOI: 10.1007/s11356-022-20144-x

Lin, L., Zhang, J., Dai, X., Xiao, N., Ye, Q., Chen, X. A Moderate Duration of Stress Promotes Behavioral Adaptation and Spatial Memory in Young C57BL/6J Mice (2022) Brain Sciences, 12 (8), art. no. 1081,
DOI: 10.3390/brainsci12081081

Li, B., Zhang, D., Verkhatsky, A. Astrocytes in Post-traumatic Stress Disorder (2022) Neuroscience Bulletin, 38 (8), pp. 953-965.
DOI: 10.1007/s12264-022-00845-6

Serradas, M.L., Stein, V., Gellner, A.-K. Long-term changes of parvalbumin- and somatostatin-positive interneurons of the primary motor cortex after chronic social defeat stress depend on individual stress-vulnerability (2022) Frontiers in Psychiatry, 13, art. no. 946719
DOI: 10.3389/fpsy.2022.946719

Potrebić, M., Pavković, Ž., Puškaš, N., Pešić, V. The Influence of Social Isolation on Social Orientation, Sociability, Social Novelty Preference, and Hippocampal Parvalbumin-Expressing Interneurons in Peripubertal Rats – Understanding the Importance of Meeting Social Needs in Adolescence (2022) Frontiers in Behavioral Neuroscience, 16, art. no. 872628
DOI: 10.3389/fnbeh.2022.872628

Tomar, A., McHugh, T.J. The impact of stress on the hippocampal spatial code (2022) Trends in Neurosciences, 45 (2), pp. 120-132.
DOI: 10.1016/j.tins.2021.11.005

Zhu, X., Grace, A.A. Sex- and exposure age-dependent effects of adolescent stress on ventral tegmental area dopamine system and its afferent regulators (2022) Molecular Psychiatry, DOI: 10.1038/s41380-022-01820-3

Chen, S., Chen, F., Amin, N., Ren, Q., Ye, S., Hu, Z., Tan, X., Jiang, M., Fang, M. Defects of parvalbumin-positive interneurons in the ventral dentate gyrus region are implicated depression-like behavior in mice (2022) Brain, Behavior, and Immunity, 99, pp. 27-42.
DOI: 10.1016/j.bbi.2021.09.013

Perlman, G., Tanti, A., Mechawar, N. Parvalbumin interneuron alterations in stress-related mood disorders: A systematic review (2021) Neurobiology of Stress, 15, art. no. 100380,
DOI: 10.1016/j.ynstr.2021.100380

Lu, J., Tjia, M., Mullen, B., Cao, B., Lukasiewicz, K., Shah-Morales, S., Weiser, S., Cameron, L.P., Olson, D.E., Chen, L., Zuo, Y. An analog of psychedelics restores functional neural circuits disrupted by unpredictable stress (2021) Molecular Psychiatry, 26 (11), pp. 6237-6252.
DOI: 10.1038/s41380-021-01159-1

Tomar, A., Polygalov, D., McHugh, T.J. Differential Impact of Acute and Chronic Stress on CA1 Spatial Coding and Gamma Oscillations (2021) Frontiers in Behavioral Neuroscience, 15, art. no. 710725,
DOI: 10.3389/fnbeh.2021.710725

Leschik, J., Lutz, B., Gentile, A. Stress-related dysfunction of adult hippocampal neurogenesis—an attempt for understanding resilience? (2021) *International Journal of Molecular Sciences*, 22 (14), art. no. 7339,
DOI: 10.3390/ijms22147339

Wang, J., Tang, J., Liang, X., Luo, Y., Zhu, P., Li, Y., Xiao, K., Jiang, L., Yang, H., Xie, Y., Zhang, L., Deng, Y., Li, J., Tang, Y. Hippocampal PGC-1 α -mediated positive effects on parvalbumin interneurons are required for the antidepressant effects of running exercise (2021) *Translational Psychiatry*, 11 (1), art. no. 222,
DOI: 10.1038/s41398-021-01339-1

Khera, T., Rangasamy, V. Cognition and Pain: A Review (2021) *Frontiers in Psychology*, 12, art. no. 673962.
DOI: 10.3389/fpsyg.2021.673962

Albrecht, A., Redavide, E., Regev-Tsur, S., Stork, O., Richter-Levin, G. Hippocampal GABAergic interneurons and their co-localized neuropeptides in stress vulnerability and resilience (2021) *Neuroscience and Biobehavioral Reviews*, 122, pp. 229-244.
DOI: 10.1016/j.neubiorev.2020.11.002

Ortiz, J.B., Newbern, J., Conrad, C.D. Chronic stress has different immediate and delayed effects on hippocampal calretinin- and somatostatin-positive cells (2021) *Hippocampus*, 31 (2), pp. 221-231.
DOI: 10.1002/hipo.23285

Zhang, S., Hu, S., Dong, W., Huang, S., Jiao, Z., Hu, Z., Dai, S., Yi, Y., Gong, X., Li, K., Wang, H., Xu, D. Prenatal dexamethasone exposure induces anxiety- and depressive-like behavior of male offspring rats through intrauterine programming of the activation of NRG1-ErbB4 signaling in hippocampal PV interneurons (2021) *Cell Biology and Toxicology*, .
DOI: 10.1007/s10565-021-09621-0

Šutulović, N., Grubač, Ž., Šuvakov, S., Jerotić, D., Puškaš, N., MacUt, D., Rašić-Marković, A., Simić, T., Stanojlović, O., Hrnčić, D. Experimental Chronic Prostatitis/Chronic Pelvic Pain Syndrome Increases Anxiety-Like Behavior: The Role of Brain Oxidative Stress, Serum Corticosterone, and Hippocampal Parvalbumin-Positive Interneurons (2021) *Oxidative Medicine and Cellular Longevity*, 2021, art. no. 6687493,
DOI: 10.1155/2021/6687493

Zhang, L., Wu, C., Martel, D.T., West, M., Sutton, M.A., Shore, S.E. Noise Exposure Alters Glutamatergic and GABAergic Synaptic Connectivity in the Hippocampus and Its Relevance to Tinnitus (2021) *Neural Plasticity*, 2021, art. no. 8833087,
DOI: 10.1155/2021/8833087

Demin, K.A., Taranov, A.S., Ilyin, N.P., Lakstygai, A.M., Volgin, A.D., de Abreu, M.S., Strelakova, T., Kalueff, A.V. Understanding neurobehavioral effects of acute and chronic stress in zebrafish (2021) *Stress*, 24 (1), pp. 1-18.
DOI: 10.1080/10253890.2020.1724948

Yang, C., Tang, J., Liang, X., Qi, Y., Luo, Y., Xie, Y., Wang, J., Jiang, L., Zhou, C., Huang, C., Tang, Y. Anti-LINGO-1 antibody treatment improves chronic stress-induced spatial memory impairments and oligodendrocyte loss in the hippocampus (2020) *Behavioural Brain Research*, 393, art. no. 112765
DOI: 10.1016/j.bbr.2020.112765

Yang, L., Wang, J., Wang, D., Hu, G., Liu, Z., Yan, D., Serikuly, N., Alpyshov, E.T., Demin, K.A., Strelakova, T., de Abreu, M.S., Song, C., Kalueff, A.V. Delayed behavioral and genomic responses to acute combined stress in zebrafish, potentially relevant to PTSD and other stress-related disorders: Focus

on neuroglia, neuroinflammation, apoptosis and epigenetic modulation (2020) *Behavioural Brain Research*, 389, art. no. 112644,
DOI: 10.1016/j.bbr.2020.112644

Zhou, Y.-F., Huang, J.-C., Zhang, P., Fan, F.-M., Chen, S., Fan, H.-Z., Cui, Y.-M., Luo, X.-G., Tan, S.-P., Wang, Z.-R., Feng, W., Yuan, Y., Yang, F.-D., Savransky, A., Ryan, M., Goldwaser, E., Chiappelli, J., Rowland, L.M., Kochunov, P., Tan, Y.-L., Hong, L.E. Choroid Plexus Enlargement and Allostatic Load in Schizophrenia (2020) *Schizophrenia Bulletin*, 46 (3), pp. 722-731.
DOI: 10.1093/schbul/sbz100

Vittengl, J.R., Stutzman, S., Atluru, A., Jarrett, R.B. Do Cognitive Therapy Skills Neutralize Lifetime Stress to Improve Treatment Outcomes in Recurrent Depression? (2020) *Behavior Therapy*,
DOI: 10.1016/j.beth.2019.10.008

Schifani, C., Hafizi, S., Tseng, H.-H., Gerritsen, C., Kenk, M., Wilson, A.A., Houle, S., Rusjan, P.M., Mizrahi, R. Preliminary data indicating a connection between stress-induced prefrontal dopamine release and hippocampal TSPO expression in the psychosis spectrum (2019) *Schizophrenia Research*, 213, pp. 80-86.
DOI: 10.1016/j.schres.2018.10.008

Stajic, D., Selakovic, D., Jovicic, N., Joksimovic, J., Arsenijevic, N., Lukic, M.L., Rosic, G. The role of galectin-3 in modulation of anxiety state level in mice (2019) *Brain, Behavior, and Immunity*, 78, pp. 177-187.
DOI: 10.1016/j.bbi.2019.01.019

Selakovic, D., Joksimovic, J., Jovicic, N., Mitrovic, S., Mihailovic, V., Katanic, J., Milovanovic, D., Pantovic, S., Mijailovic, N., Rosic, G. The impact of hippocampal sex hormones receptors in modulation of depressive-like behavior following chronic anabolic androgenic steroids and exercise protocols in rats (2019) *Frontiers in Behavioral Neuroscience*, 13, art. no. 19,
DOI: 10.3389/fnbeh.2019.00019

Rossetti, A.C., Serena Paladini, M., Colombo, M., Gruca, P., Lason-Tyburkiewicz, M., Tota-Glowczyk, K., Papp, M., Riva, M.A., Molteni, R. Chronic stress exposure reduces parvalbumin expression in the rat hippocampus through an imbalance of redox mechanisms: Restorative effect of the antipsychotic lurasidone (2018) *International Journal of Neuropsychopharmacology*, 21 (9), pp. 883-893.
DOI: 10.1093/ijnp/pyy046

Selakovic, D., Joksimovic, J., Zaletel, I., Puskas, N., Matovic, M., Rosic, G. The opposite effects of nandrolone decanoate and exercise on anxiety levels in rats may involve alterations in hippocampal parvalbumin-positive interneurons (2017) *PLoS ONE*, 12 (12), art. no. e0189595,
DOI: 10.1371/journal.pone.0189595

Lalonde, R., Strazielle, C. Neuroanatomical pathways underlying the effects of hypothalamo-hypophysial-adrenal hormones on exploratory activity (2017) *Reviews in the Neurosciences*, 28 (6), pp. 617-648.
DOI: 10.1515/revneuro-2016-0075

Albrecht, A., Müller, I., Ardi, Z., Çalışkan, G., Gruber, D., Ivens, S., Segal, M., Behr, J., Heinemann, U., Stork, O., Richter-Levin, G. Neurobiological consequences of juvenile stress: A GABAergic perspective on risk and resilience (2017) *Neuroscience and Biobehavioral Reviews*, 74, pp. 21-43.
DOI: 10.1016/j.neubiorev.2017.01.005

Gomes, F.V., Grace, A.A. Prefrontal cortex dysfunction increases susceptibility to schizophrenia-like changes induced by adolescent stress exposure (2017) *Schizophrenia Bulletin*, 43 (3), pp. 592-600.
DOI: 10.1093/schbul/sbw156

Csabai, D., Seress, L., Varga, Z., Ábrahám, H., Miseta, A., Wiborg, O., Czéh, B. Electron Microscopic Analysis of Hippocampal Axo-Somatic Synapses in a Chronic Stress Model for Depression (2017) *Hippocampus*, 27 (1), pp. 17-27.
DOI: 10.1002/hipo.22650

Olanzapine modulation of hepatic oxidative stress and inflammation in socially isolated rats

Todorović, N., Tomanović, N., Gass, P., **Filipović, D.**
European Journal of Pharmaceutical Sciences, 2016, 81, pp. 94–102, 3382
Heterocitati 22 :
Citiran u :

Abdullah, S.I., Al-Bayti, A.A.H., Salih, M.J., Merkhan, M.M. Histological and Biochemical Changes Associated with Blocking of Serotonin Receptor (2022) *Tropical Journal of Natural Product Research*, 6 (8), pp. 1189-1192.
DOI: 10.26538/tjnpr/v6i8.4

Bove, M., Lama, A., Schiavone, S., Pirozzi, C., Tucci, P., Sikora, V., Trinchese, G., Corso, G., Morgese, M.G., Trabace, L. Social isolation triggers oxidative status and impairs systemic and hepatic insulin sensitivity in normoglycemic rats (2022) *Biomedicine and Pharmacotherapy*, 149, art. no. 112820,
DOI: 10.1016/j.biopha.2022.112820

Allahgholipour, S.Z., Farzipour, S., Ghasemi, A., Asgarian-Omran, H., Hosseinimehr, S.J. The Radiosensitizing Effect of Olanzapine as an Antipsychotic Medication on Glioblastoma Cell (2022) *Current Radiopharmaceuticals*, 15 (1), pp. 50-55.
DOI: 10.2174/1874471014666210120100448

Ahmed, S.H., El Wahab, A., Almaaty, A.H.A., El-Rahman, H.A.A. Effect of maternal desvenlafaxine administration on the liver of albino rat fetuses (2022) *Journal of Biotech Research*, 13, pp. 116-129.

Wang, C., Wang, C., Ren, L., Chen, S., Chen, W.-H., Li, Y. The protein kinase D1-mediated inflammatory pathway is involved in olanzapine-induced impairment of skeletal muscle insulin signaling in rats (2021) *Life Sciences*, 270, art. no. 119037
DOI: 10.1016/j.lfs.2021.119037

Todorović Vukotić, N., Đorđević, J., Pejić, S., Đorđević, N., Pajović, S.B. Antidepressants- and antipsychotics-induced hepatotoxicity (2021) *Archives of Toxicology*, 95 (3), pp. 767-789.
DOI: 10.1007/s00204-020-02963-4

Jansen van Vuren, E., Steyn, S.F., Brink, C.B., Möller, M., Viljoen, F.P., Harvey, B.H. The neuropsychiatric manifestations of COVID-19: Interactions with psychiatric illness and pharmacological treatment (2021) *Biomedicine and Pharmacotherapy*, 135, art. no. 111200,
DOI: 10.1016/j.biopha.2020.111200

Hao, Y., Song, K., Zhang, M., Liu, H., Qi, Z., Feng, C., Wang, Y. Investigation of transcriptome profile of ischemia/reperfusion injury of abdominal skin flaps in rats after methane-rich saline treatment using RNA-seq (2021) *Clinical Hemorheology and Microcirculation*, 78 (2), pp. 127-138.
DOI: 10.3233/CH-201046

Cunha, M.P., Machado, D.G., Mancini, G., Glaser, V., de Paula Martins, R., de Bem, A.F., Latini, A., Dafre, A.L., Rodrigues, A.L.S. The effect of voluntary wheel running on the antioxidant status is dependent on sociability conditions (2020) *Pharmacology Biochemistry and Behavior*, 198, art. no. 173018, . Cited 1 time.
DOI: 10.1016/j.pbb.2020.173018

Mitrovic, M., Nikolic Turnic, T., Zivkovic, V., Pavic, Z., Vranic, A., Srejovic, I., Sretenovic, J., Bolevich, S., Jakovljevic, V.L. High-protein diet and omega-3 fatty acids improve redox status in olanzapine-treated rats (2020) *Molecular and Cellular Biochemistry*, 468 (1-2), pp. 143-152.
DOI: 10.1007/s11010-020-03718-6

Chen, C., Yin, Q., Tian, J., Gao, X., Qin, X., Du, G., Zhou, Y. Studies on the potential link between antidepressant effect of Xiaoyao San and its pharmacological activity of hepatoprotection based on multi-platform metabolomics (2020) *Journal of Ethnopharmacology*, 249, art. no. 112432,
DOI: 10.1016/j.jep.2019.112432

Mohammed, A., El-Bakly, W.M., Ali, A., El-Demerdash, E. Rosuvastatin improves olanzapine's effects on behavioral impairment and hippocampal, hepatic and metabolic damages in isolated reared male rats (2020) *Behavioural Brain Research*, 378, art. no. 112305,
DOI: 10.1016/j.bbr.2019.112305

Pontes-Neto, J.G., Lyra, M.A.M., Soares, M.F.L.R., Chaves, L.L., Soares-Sobrinho, J.L. Intercalation of olanzapine into CaAl and NiAl Layered Double Hydroxides for dissolution rate improvement: Synthesis, characterization and in vitro toxicity (2019) *Journal of Drug Delivery Science and Technology*, 52, pp. 986-996.
DOI: 10.1016/j.jddst.2019.05.034

Youssef, S., Salah, M. Differential expression of CD3, TNF- α , and VEGF induced by olanzapine on the spleen of adult male albino rats and the possible protective role of Vitamin C (2019) *Biomedicines*, 7 (2), art. no. 39,
DOI: 10.3390/biomedicines7020039

Zhu, Y., Zhao, Y.-F., Liu, R.-S., Xiong, Y.-J., Shen, X., Wang, Y., Liang, Z.-Q. Olanzapine induced autophagy through suppression of NF- κ B activation in human glioma cells (2019) *CNS Neuroscience and Therapeutics*, 25 (9), pp. 911-921.
DOI: 10.1111/cns.13127

Stapel, B., Sieve, I., Falk, C.S., Bleich, S., Hilfiker-Kleiner, D., Kahl, K.G. Second generation atypical antipsychotics olanzapine and aripiprazole reduce expression and secretion of inflammatory cytokines in human immune cells (2018) *Journal of Psychiatric Research*, 105, pp. 95-102.
DOI: 10.1016/j.jpsychires.2018.08.017

Fond, G., Resseguier, N., Schürhoff, F., Godin, O., Andrianarisoa, M., Brunel, L., Bulzacka, E., Aouizerate, B., Berna, F., Capdevielle, D., Chereau, I., D'Amato, T., Dubertret, C., Dubreucq, J., Faget, C., Gabayet, F., Lançon, C., Llorca, P.M., Mallet, J., Misdrahi, D., Passerieux, C., Rey, R., Schandrin, A., Urbach, M., Vidailhet, P., Boyer, L., Leboyer, M., Blanc, O., Chereau-Boudet, I., Chesnoy-Servanin, G., Danion, J.M., Deloge, A., Delorme, C., Denizot, H., Dorey, J.M., Fluttaz, C., Fond, G., Fonteneau, S., Giraud-Baro, E., Hardy-Bayle, M.C., Lacelle, D., Laouamri, H., Le Gloahec, T., Le Strat, Y., Metairie, E., Offerlin-Meyer, I., Peri, P., Pires, S., Portalier, C., Roman, C., Sebilleau, M., Tessier, A., Tronche, A.M., Vaillant, F., Vehier, A., Vilain, J., Vilà, E., Yazbek, H., Zinetti-Bertschy, A. Relationships between low-grade peripheral inflammation and psychotropic drugs in schizophrenia: results from the national FACE-SZ cohort (2018) *European Archives of Psychiatry and Clinical Neuroscience*, 268 (6), pp. 541-553.
DOI: 10.1007/s00406-017-0847-1

Pontes-Neto, J.G., Fontes, D.A.F., de Lyra, M.A.M., Brito, M.D.R.M.D., Chaves, L.L., Rolim-Neto, P.J., De La Roca Soares, M.F., Quintans Júnior, L.J., de Freitas, R.M., Soares-Sobrinho, J.L. Evaluation of antioxidant potencial of novel CaAl and NiAl layered double hydroxides loaded with olanzapine (2018) *Life Sciences*, 207, pp. 246-252.
DOI: 10.1016/j.lfs.2018.05.031

Oliveira, V.A., Favero, G., Stacchiotti, A., Giugno, L., Buffoli, B., de Oliveira, C.S., Lavazza, A., Albanese, M., Rodella, L.F., Pereira, M.E., Rezzani, R.; Acute mercury exposition of virgin, pregnant, and lactating

rats: Histopathological kidney and liver evaluations (2017) *Environmental Toxicology*, 32 (5), pp. 1500-1512.

DOI: 10.1002/tox.22370

Dönmez, Y.E., Özcan, O., Soyulu, N., Sarloğlu, F.K., Selimoğlu, A. Management of hepatotoxicity induced by the use of olanzapine (2017) *Journal of Child and Adolescent Psychopharmacology*, 27 (3), pp. 293-294.

DOI: 10.1089/cap.2016.0178

Cortelazzo, A., De Felice, C., Guerranti, R., Signorini, C., Leoncini, S., Zollo, G., Leoncini, R., Timperio, A.M., Zolla, L., Ciccoli, L., Hayek, J. Expression and oxidative modifications of plasma proteins in autism spectrum disorders: Interplay between inflammatory response and lipid peroxidation (2016) *Proteomics - Clinical Applications*, 10 (11), pp. 1103-1112.

DOI: 10.1002/prca.201500076

Balmus, I.M., Ciobica, A., Antioch, I., Dobrin, R., Timofte, D. Oxidative Stress Implications in the Affective Disorders: Main Biomarkers, Animal Models Relevance, Genetic Perspectives, and Antioxidant Approaches (2016) *Oxidative Medicine and Cellular Longevity*, 2016, art. no. 3975101

DOI: 10.1155/2016/3975101

Chronic administration of fluoxetine or clozapine induces oxidative stress in rat liver: A histopathological study

Zlatković, J., Todorović, N., Tomanović, N., ...Djurdjević, A., **Filipović, D.**

European Journal of Pharmaceutical Sciences, 2014, 59(1), pp. 20–30

Heterocitati 42 :

Citiran u :

Mu, W., Xu, G., Wei, Z., Wang, Z., Qin, Q., Lin, L., Ren, L., Liu, T., Fang, Z., Yang, Y., Zhao, J., Wang, J., Zhan, X., Xiao, X., Bai, Z. The role of NLRP3 inflammasome in psychotropic drug-induced hepatotoxicity (2022) *Cell Death Discovery*, 8 (1), art. no. 313

DOI: 10.1038/s41420-022-01109-y

Bouvier, M.-L., Fehsel, K., Schmitt, A., Meisenzahl-Lechner, E., Gaebel, W., von Wilmsdorff, M. Sex-dependent effects of long-term clozapine or haloperidol medication on red blood cells and liver iron metabolism in Sprague Dawley rats as a model of metabolic syndrome (2022) *BMC Pharmacology and Toxicology*, 23 (1), art. no. 8,

DOI: 10.1186/s40360-021-00544-4

Beigi, T., Safi, A., Satvati, M., Kalantari-Hesari, A., Ahmadi, R., Meshkibaf, M.-H. Protective role of ellagic acid and taurine against fluoxetine induced hepatotoxic effects on biochemical and oxidative stress parameters, histopathological changes, and gene expressions of IL-1 β , NF- κ B, and TNF- α in male Wistar rats (2022) *Life Sciences*, 304, art. no. 120679,

DOI: 10.1016/j.lfs.2022.120679

Jia, X., Wen, X., Russo, D.P., Aleksunes, L.M., Zhu, H. Mechanism-driven modeling of chemical hepatotoxicity using structural alerts and an in vitro screening assay (2022) *Journal of Hazardous Materials*, 436, art. no. 129193,

DOI: 10.1016/j.jhazmat.2022.129193

Mohamed Kamel, G.A., Harahsheh, E., Hussein, S. Mechanisms underlying the hepatoprotective effect of silymarin on fluoxetine-induced liver injury in rats: the implication of peroxisome proliferator-activated receptor-gamma (PPAR- γ) (2022) *Comparative Clinical Pathology*, 31 (4), pp. 689-698.

DOI: 10.1007/s00580-022-03369-7

Sadasivam, N., Kim, Y.-J., Radhakrishnan, K., Kim, D.-K. Oxidative Stress, Genomic Integrity, and Liver Diseases (2022) *Molecules*, 27 (10), art. no. 3159
DOI: 10.3390/molecules27103159

Chiejina, C.O., Anih, L., Okoye, C., Aguzie, I.O., Ali, D., Kumar, G., Nwani, C.D. Haloperidol alters the behavioral, hematological and biochemical parameters of freshwater African catfish, *Clarias gariepinus* (Burchell 1822) (2022) *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, 254, art. no. 109292
DOI: 10.1016/j.cbpc.2022.109292

Sernoskie, S.C., Lobach, A.R., Kato, R., Jee, A., Weston, J.K., Uetrecht, J. Clozapine Induces an Acute Proinflammatory Response That Is Attenuated by Inhibition of Inflammasome Signaling: Implications for Idiosyncratic Drug-Induced Agranulocytosis (2022) *Toxicological Sciences*, 186 (1), pp. 70-82.
DOI: 10.1093/toxsci/kfab154

Kuhestani, S., Shokrzadeh, M., Aghajanshakeri, S., Shokrzadeh, S. Protective Effects of Simvastatin on Cytotoxicity and Oxidative Stress in Human Gingival Fibroblasts Cells Exposed to Venlafaxine (2022) *Journal of Mazandaran University of Medical Sciences*, 31 (205), pp. 81-88.

Srasri, M., Srivilai, P., Loutchanwoot, P. Assessment of 28-day oral exposure to *Pueraria candollei* var. *mirifica* (Fabaceae) roots on pituitary-ovarian axis function and selected metabolic parameters in ovary-intact rats (2022) *Toxicology Reports*, 9, pp. 1831-1845.
DOI: 10.1016/j.toxrep.2022.09.013

Ahmed, S.H., El Wahab, A., Almaaty, A.H.A., El-Rahman, H.A.A. Effect of maternal desvenlafaxine administration on the liver of albino rat fetuses (2022) *Journal of Biotech Research*, 13, pp. 116-129.

Yamindago, A., Lee, N., Lee, N., Jo, Y., Woo, S., Yum, S. Fluoxetine in the environment may interfere with the neurotransmission or endocrine systems of aquatic animals (2021) *Ecotoxicology and Environmental Safety*, 227, art. no. 112931,
DOI: 10.1016/j.ecoenv.2021.112931

Mohamed Kamel, G.A. Vinpocetine attenuates fluoxetine-induced liver damage in rats; Role of Nrf2 and PPAR- γ (2021) *Human and Experimental Toxicology*, 40 (12), pp. S509-S518.
DOI: 10.1177/09603271211051597

Dada, F.A., Oyeleye, S.I., Adefegha, S.A., Babatola, L.J., Adebayo, A. Evaluation of different almond (*Terminalia catappa*) extracts against oxidative stress induced by cyclosporine in brain and liver of rats (2021) *Journal of Complementary and Integrative Medicine*, 18 (4), pp. 727-735.
DOI: 10.1515/jcim-2020-0193

Belica-Pacha, S., Małecka, M., Daško, M., Miłowska, K., Bryszewska, M., Budryn, G., Oracz, J., Pałecz, B. The interaction of heptakis (2,6-di-o-methyl)- β -cyclodextrin with mianserin hydrochloride and its influence on the drug toxicity (2021) *International Journal of Molecular Sciences*, 22 (17), art. no. 9419,
DOI: 10.3390/ijms22179419

Sernoskie, S.C., Jee, A., Uetrecht, J.P. The emerging role of the innate immune response in idiosyncratic drug reactions (2021) *Pharmacological Reviews*, 73 (3), pp. 861-896.
DOI: 10.1124/pharmrev.120.000090

Todorović Vukotić, N., Đorđević, J., Pejić, S., Đorđević, N., Pajović, S.B. Antidepressants- and antipsychotics-induced hepatotoxicity (2021) *Archives of Toxicology*, 95 (3), pp. 767-789.
DOI: 10.1007/s00204-020-02963-4

Platanić Arizanović, L., Nikolić-Kokić, A., Brkljačić, J., Tatalović, N., Miler, M., Oreščanin-Dušić, Z., Vidonja Uzelac, T., Nikolić, M., Milošević, V., Blagojević, D., Spasić, S., Miljević, Č. Effects of several atypical antipsychotics clozapine, sertindole or ziprasidone on hepatic antioxidant enzymes: Possible role in drug-induced liver dysfunction (2021) *Journal of Toxicology and Environmental Health - Part A: Current Issues*, 84 (4), pp. 173-182.

DOI: 10.1080/15287394.2020.1844827

Ziegler, M., Eckstein, H., Ottmann, S., Reinelt, L., Stepinski, S., Köhler, H.-R., Triebkorn, R. Biochemical and cellular biomarkers in brown trout (*Salmo trutta f. fario*) in response to the antidepressants citalopram and venlafaxine (2020) *Environmental Sciences Europe*, 32 (1), art. no. 158,

DOI: 10.1186/s12302-020-00437-z

Cunha, M.P., Machado, D.G., Mancini, G., Glaser, V., de Paula Martins, R., de Bem, A.F., Latini, A., Dafre, A.L., Rodrigues, A.L.S. The effect of voluntary wheel running on the antioxidant status is dependent on sociability conditions (2020) *Pharmacology Biochemistry and Behavior*, 198, art. no. 173018,

DOI: 10.1016/j.pbb.2020.173018

Geib, T., Thulasingam, M., Haeggström, J.Z., Sleno, L. Investigation of Clozapine and Olanzapine Reactive Metabolite Formation and Protein Binding by Liquid Chromatography-Tandem Mass Spectrometry (2020) *Chemical Research in Toxicology*, 33 (9), pp. 2420-2431.

DOI: 10.1021/acs.chemrestox.0c00191

Belica-Pacha, S., Miłowska, K., Ionov, M., Bryszewska, M., Buczkowski, A., Budryn, G., Oracz, J., Zaczyńska, D., Wróblewska, A., Urbaniak, P., Pałecz, B. The impact of β -cyclodextrin on biological and chemical properties of mianserin hydrochloride in aqueous solution

(2020) *Journal of Molecular Liquids*, 314, art. no. 113589

DOI: 10.1016/j.molliq.2020.113589

Ştefan, M.-G., Kiss, B., Gutleb, A.C., Loghin, F. Redox metabolism modulation as a mechanism in SSRI toxicity and pharmacological effects (2020) *Archives of Toxicology*, 94 (5), pp. 1417-1441.

DOI: 10.1007/s00204-020-02721-6

Nowakowska, K., Giebułtowicz, J., Kamaszewski, M., Adamski, A., Szudrowicz, H., Ostaszewska, T., Solarska-Dzięciółowska, U., Nałęcz-Jawecki, G., Wroczyński, P., Drobniewska, A. Acute exposure of zebrafish (*Danio rerio*) larvae to environmental concentrations of selected antidepressants: Bioaccumulation, physiological and histological changes (2020) *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, 229, art. no. 108670,

DOI: 10.1016/j.cbpc.2019.108670

Ungvari, Z., Tarantini, S., Yabluchanskiy, A., Csiszar, A. Potential Adverse Cardiovascular Effects of Treatment With Fluoxetine and Other Selective Serotonin Reuptake Inhibitors (SSRIs) in Patients With Geriatric Depression: Implications for Atherogenesis and Cerebromicrovascular Dysregulation (2019) *Frontiers in Genetics*, 10, art. no. 898,

DOI: 10.3389/fgene.2019.00898

Akool, E.-S. Molecular Mechanisms of the Protective Role of Wheat Germ Oil Against Oxidative Stress-Induced Liver Disease (2019) *Dietary Interventions in Liver Disease: Foods, Nutrients, and Dietary Supplements*, pp. 233-238.

DOI: 10.1016/B978-0-12-814466-4.00019-7

Romanova, O.L., Sudukov, D.V., Golubev, M.A., Blagonravov, M.L., Goshkoev, V.V., Churilov, A.A. Pathologic changes in the liver during acute exposure to clozapine and its combination with ethanol (Experimental study) (2019) *Obshchaya Reanimatologiya*, 15 (2), pp. 27-35.

DOI: 10.15360/1813-9779-2019-2-27-35

Khan, Z.N., Sabino, I.T., de Souza Melo, C.G., Martini, T., da Silva Pereira, H.A.B., Buzalaf, M.A.R. Liver Proteome of Mice with Distinct Genetic Susceptibilities to Fluorosis Treated with Different Concentrations of F in the Drinking Water (2019) *Biological Trace Element Research*, 187 (1), pp. 107-119.
DOI: 10.1007/s12011-018-1344-8

Tilmant, K., Gerets, H., De Ron, P., Hanon, E., Bento-Pereira, C., Atienzar, F.A. In vitro screening of cell bioenergetics to assess mitochondrial dysfunction in drug development (2018) *Toxicology in Vitro*, 52, pp. 374-383.
DOI: 10.1016/j.tiv.2018.07.012

Elgebaly, H.A., Mosa, N.M., Allach, M., El-massry, K.F., El-Ghorab, A.H., Al Hroob, A.M., Mahmoud, A.M. Olive oil and leaf extract prevent fluoxetine-induced hepatotoxicity by attenuating oxidative stress, inflammation and apoptosis (2018) *Biomedicine and Pharmacotherapy*, 98, pp. 446-453.
DOI: 10.1016/j.biopha.2017.12.101

Khaksar, M., Oryan, A., Sayyari, M., Rezaabakhsh, A., Rahbarghazi, R. Protective effects of melatonin on long-term administration of fluoxetine in rats (2017) *Experimental and Toxicologic Pathology*, 69 (8), pp. 564-574.
DOI: 10.1016/j.etp.2017.05.002

Mitic, M., Brkic, Z., Lukic, I., Adzic, M. Convergence of glycogen synthase kinase 3 β and GR signaling in response to fluoxetine treatment in chronically stressed female and male rats (2017) *Behavioural Brain Research*, 333, pp. 295-303.
DOI: 10.1016/j.bbr.2017.07.014

Costa Silva, R.A., da Silva, C.R., de Andrade Neto, J.B., da Silva, A.R., Campos, R.S., Sampaio, L.S., do Nascimento, F.B.S.A., da Silva Gaspar, B., da Cruz Fonseca, S.G., Josino, M.A.A., Grangeiro, T.B., Gaspar, D.M., de Lucena, D.F., de Moraes, M.O., Cavalcanti, B.C., Nobre Júnior, H.V. In vitro anti-Candida activity of selective serotonin reuptake inhibitors against fluconazole-resistant strains and their activity against biofilm-forming isolates (2017) *Microbial Pathogenesis*, 107, pp. 341-348. Cited 28 times.
DOI: 10.1016/j.micpath.2017.04.008

Choi, Y., Jeong, H.J., Liu, Q.F., Oh, S.T., Koo, B.-S., Kim, Y., Chung, I.-W., Kim, Y.S., Jeon, S. Clozapine Improves Memory Impairment and Reduces A β Level in the Tg-APP^{swe}/PS1^{dE9} Mouse Model of Alzheimer's Disease (2017) *Molecular Neurobiology*, 54 (1), pp. 450-460.
DOI: 10.1007/s12035-015-9636-x

Sebastiano, M., Chastel, O., De Thoisy, B., Eens, M., Costantini, D. Oxidative stress favours herpes virus infection in vertebrates: A meta-analysis (2016) *Current Zoology*, 62 (4), pp. 325-332.
DOI: 10.1093/cz/zow019

Braz, G.R.F., Pedroza, A.A., Nogueira, V.O., De Vasconcelos Barros, M.A., De Moura Freitas, C., De Brito Alves, J.L., Da Silva, A.I., Costa-Silva, J.H., Lagranha, C.J. Serotonin modulation in neonatal age does not impair cardiovascular physiology in adult female rats: Hemodynamics and oxidative stress analysis (2016) *Life Sciences*, 145, pp. 42-50.
DOI: 10.1016/j.lfs.2015.12.024

Yilmaz, A., Elbey, B., Yazgan, Ü.C., Dönder, A., Arslan, N., Arslan, S., Alabalik, U., Aslanhan, H. Protective effects of caffeic acid phenethyl ester on fluoxetine-induced hepatotoxicity: An experimental study (2016) *BioMed Research International*, 2016, art. no. 1247191
DOI: 10.1155/2016/1247191

Yilmaz, E.D., Üstündağ, M.F., Gençer, A.G., Kivrak, Y., Ünal, Ö., Bilici, M. Levels of nitric oxide, asymmetric dimethyl arginine, symmetric dimethyl arginine, and L-arginine in patients with obsessive-compulsive disorder (2016) *Turkish Journal of Medical Sciences*, 46 (3), pp. 775-782.
DOI: 10.3906/sag-1503-100

Li, S., Tan, H.-Y., Wang, N., Zhang, Z.-J., Lao, L., Wong, C.-W., Feng, Y. The role of oxidative stress and antioxidants in liver diseases (2015) *International Journal of Molecular Sciences*, 16 (11), pp. 26087-26124.

DOI: 10.3390/ijms161125942

Zhou, B.-H., Zhao, J., Liu, J., Zhang, J.-L., Li, J., Wang, H.-W. Fluoride-induced oxidative stress is involved in the morphological damage and dysfunction of liver in female mice (2015) *Chemosphere*, 139, pp. 504-511.

DOI: 10.1016/j.chemosphere.2015.08.030

da Silva, A.I., Braz, G.R.F., Silva-Filho, R., Pedroza, A.A., Ferreira, D.S., de Castro, R.M., Lagranha, C. Effect of fluoxetine treatment on mitochondrial bioenergetics in central and peripheral rat tissues (2015) *Applied Physiology, Nutrition and Metabolism*, 40 (6), pp. 565-574.

DOI: 10.1139/apnm-2014-0462

Adzic, M., Mitic, M., Lukic, I., Djordjevic, J., Radojic, M.B. Role of fluoxetine on depression-related pathophysiological mechanisms (2015) *Fluoxetine: Pharmacology, Mechanisms of Action and Potential Side Effects*, pp. 227-278.

DOCUMENT TYPE: Book Chapter

Different susceptibility of prefrontal cortex and hippocampus to oxidative stress following chronic social isolation stress

Zlatković, J., Todorović, N., Bošković, M., ...Demajo, M., **Filipović, D.**

Molecular and Cellular Biochemistry, 2014, 393(1-2), pp. 43–57

Heterocitati 72 :

Citiran u :

Güven, E.B., Pranic, N.M., Unal, G. The differential effects of brief environmental enrichment following social isolation in rats (2022) *Cognitive, Affective and Behavioral Neuroscience*, 22 (4), pp. 818-832.

DOI: 10.3758/s13415-022-00989-y

Nemutlu Samur, D., Akçay, G., Yıldırım, S., Özkan, A., Çeker, T., Derin, N., Tanrıöver, G., Aslan, M., Açar, A., Özbey, G. Vortioxetine ameliorates motor and cognitive impairments in the rotenone-induced Parkinson's disease via targeting TLR-2 mediated neuroinflammation (2022) *Neuropharmacology*, 208, art. no. 108977

DOI: 10.1016/j.neuropharm.2022.108977

Abu-Elfotuh, K., Al-Najjar, A.H., Mohammed, A.A., Aboutaleb, A.S., Badawi, G.A. Fluoxetine ameliorates Alzheimer's disease progression and prevents the exacerbation of cardiovascular dysfunction of socially isolated depressed rats through activation of Nrf2/HO-1 and hindering TLR4/NLRP3 inflammasome signaling pathway (2022) *International Immunopharmacology*, 104, art. no. 108488

DOI: 10.1016/j.intimp.2021.108488

Pan, S., Ma, Y., Yang, R., Lu, X., You, Q., Ye, T., Huang, C. Indole-3-Carbinol Selectively Prevents Chronic Stress-Induced Depression-but not Anxiety-Like Behaviors via Suppressing Pro-Inflammatory Cytokine Production and Oxido-Nitrosative Stress in the Brain (2022) *Frontiers in Pharmacology*, 13, art. no. 829966,

DOI: 10.3389/fphar.2022.829966

Faborode, O.S., Dalle, E., Mabandla, M.V. Inescapable footshocks induce molecular changes in the prefrontal cortex of rats in an amyloid-beta-42 model of Alzheimer's disease (2022) *Behavioural Brain Research*, 419, art. no. 113679,

DOI: 10.1016/j.bbr.2021.113679

Grigoryan, G.A., Pavlova, I.V., Zaichenko, M.I. Effects of Social Isolation on the Development of Anxiety and Depression-Like Behavior in Model Experiments in Animals (2022) *Neuroscience and Behavioral Physiology*,
DOI: 10.1007/s11055-022-01297-1

Yin, W., Swanson, S.P., Biltz, R.G., Goodman, E.J., Gallagher, N.R., Sheridan, J.F., Godbout, J.P. Unique brain endothelial profiles activated by social stress promote cell adhesion, prostaglandin E2 signaling, hypothalamic–pituitary–adrenal axis modulation, and anxiety (2022) *Neuropsychopharmacology*,
DOI: 10.1038/s41386-022-01434-x

Benham, R.S., Choi, C., Hodgson, N.W., Hewage, N.B., Kastli, R., Donahue, R.J., Muschamp, J.W., Engin, E., Carlezon, W.A., Hensch, T.K., Rudolph, U. α 2-containing γ -aminobutyric acid type A receptors promote stress resiliency in male mice (2021) *Neuropsychopharmacology*, 46 (12), pp. 2197-2206.
DOI: 10.1038/s41386-021-01144-w

Wang, H.-Q., Yang, S.-W., Gao, Y., Liu, Y.-J., Li, X., Ai, Q.-D., Lin, M.-Y., Yang, Y.-T., Zeng, Q., Zhang, Y., Wang, Z.-Z., Chen, N.-H. Novel antidepressant mechanism of ginsenoside Rg1: Regulating biosynthesis and degradation of connexin43 (2021) *Journal of Ethnopharmacology*, 278, art. no. 114212
DOI: 10.1016/j.jep.2021.114212

Phasuk, S., Varinthra, P., Nitjapol, A., Bandasak, K., Liu, I.Y. Peroxiredoxin 6 knockout mice demonstrate anxiety behavior and attenuated contextual fear memory after receiving acute immobilization stress (2021) *Antioxidants*, 10 (9), art. no. 1416,
DOI: 10.3390/antiox10091416

Kolar, D., Kleteckova, L., Brozka, H., Vales, K. Mini-review: Brain energy metabolism and its role in animal models of depression, bipolar disorder, schizophrenia and autism (2021) *Neuroscience Letters*, 760, art. no. 136003,
DOI: 10.1016/j.neulet.2021.136003

Ferland-Beckham, C., Chaby, L.E., Daskalakis, N.P., Knox, D., Liberzon, I., Lim, M.M., McIntyre, C., Perrine, S.A., Risbrough, V.B., Sabban, E.L., Jeromin, A., Haas, M. Systematic Review and Methodological Considerations for the Use of Single Prolonged Stress and Fear Extinction Retention in Rodents (2021) *Frontiers in Behavioral Neuroscience*, 15, art. no. 652636.
DOI: 10.3389/fnbeh.2021.652636

Garrigos, D., Martínez-Morga, M., Toval, A., Kutsenko, Y., Barreda, A., Do Couto, B.R., Navarro-Mateu, F., Ferran, J.L. A Handful of Details to Ensure the Experimental Reproducibility on the FORCED Running Wheel in Rodents: A Systematic Review (2021) *Frontiers in Endocrinology*, 12, art. no. 638261,
DOI: 10.3389/fendo.2021.638261

Scharf, I., Stoldt, M., Libbrecht, R., Höpfner, A.L., Jongepier, E., Kever, M., Foitzik, S. Social isolation causes downregulation of immune and stress response genes and behavioural changes in a social insect (2021) *Molecular Ecology*, 30 (10), pp. 2378-2389.
DOI: 10.1111/mec.15902

Emmerzaal, T.L., Jacobs, L., Geenen, B., Verweij, V., Morava, E., Rodenburg, R.J., Kozicz, T. Chronic fluoxetine or ketamine treatment differentially affects brain energy homeostasis which is not exacerbated in mice with trait suboptimal mitochondrial function (2021) *European Journal of Neuroscience*, 53 (9), pp. 2986-3001.
DOI: 10.1111/ejn.14901

Le, T.M., Wang, W., Zhornitsky, S., Dhingra, I., Chen, Y., Zhang, S., Li, C.-S.R. The Neural Processes Interlinking Social Isolation, Social Support, and Problem Alcohol Use (2021) *International Journal of Neuropsychopharmacology*, 24 (4), pp. 333-343.
DOI: 10.1093/ijnp/pyaa086

Amiri, S., Dizaji, R., Momeny, M., Gauvin, E., Hosseini, M.-J. Clozapine attenuates mitochondrial dysfunction, inflammatory gene expression, and behavioral abnormalities in an animal model of schizophrenia (2021) *Neuropharmacology*, 187, art. no. 108503,
DOI: 10.1016/j.neuropharm.2021.108503

Huang, T., Guo, W., Wang, Y., Chang, L., Shang, N., Chen, J., Fan, R., Zhang, L., Gao, X., Niu, Q., Zhang, Q. Involvement of Mitophagy in Aluminum Oxide Nanoparticle-Induced Impairment of Learning and Memory in Mice (2021) *Neurotoxicity Research*, 39 (2), pp. 378-391.
DOI: 10.1007/s12640-020-00283-0

Grigoryan, G.A., Pavlova, L.V., Zaichenko, M.I. INFLUENCE OF SOCIAL ISOLATION ON DEVELOPMENT OF ANXIOUS AND DEPRESSIVE-LIKE BEHAVIOR IN EXPERIMENTAL ANIMAL MODELS (2021) *Zhurnal Vyshei Nervnoi Deyatelnosti Imeni I.P. Pavlova*, 71 (6), pp. 760-784.
DOI: 10.31857/S0044467721060058

Karimani, A., Ramezani, N., Afkhami Goli, A., Nazem Shirazi, M.H., Nourani, H., Jafari, A.M. Subchronic neurotoxicity of diazinon in albino mice: Impact of oxidative stress, AChE activity, and gene expression disturbances in the cerebral cortex and hippocampus on mood, spatial learning, and memory function (2021) *Toxicology Reports*, 8, pp. 1280-1288.
DOI: 10.1016/j.toxrep.2021.06.017

Savage, K., Kingshott, D., Gubko, A., Thee, A.W.T., Burjawi, T., Croft, K., Sarris, J., Stough, C. The Relationship between Oxidative Stress and Anxiety in a Healthy Older Population (2021) *Experimental Aging Research*, 47 (4), pp. 322-346.
DOI: 10.1080/0361073X.2021.1883966

Du Preez, A., Law, T., Onorato, D., Lim, Y.M., Eiben, P., Musaelyan, K., Egeland, M., Hye, A., Zunszain, P.A., Thuret, S., Pariante, C.M., Fernandes, C. The type of stress matters: repeated injection and permanent social isolation stress in male mice have a differential effect on anxiety- and depressive-like behaviours, and associated biological alterations (2020) *Translational Psychiatry*, 10 (1), art. no. 325
DOI: 10.1038/s41398-020-01000-3

Cunha, M.P., Machado, D.G., Mancini, G., Glaser, V., de Paula Martins, R., de Bem, A.F., Latini, A., Dafre, A.L., Rodrigues, A.L.S. The effect of voluntary wheel running on the antioxidant status is dependent on sociability conditions (2020) *Pharmacology Biochemistry and Behavior*, 198, art. no. 173018,
DOI: 10.1016/j.pbb.2020.173018

Li, H., Xia, N. The role of oxidative stress in cardiovascular disease caused by social isolation and loneliness (2020) *Redox Biology*, 37, art. no. 101585,
DOI: 10.1016/j.redox.2020.101585

Raony, Í., de Figueiredo, C.S., Pandolfo, P., Giestal-de-Araujo, E., Oliveira-Silva Bomfim, P., Savino, W. Psycho-Neuroendocrine-Immune Interactions in COVID-19: Potential Impacts on Mental Health (2020) *Frontiers in Immunology*, 11, art. no. 1170
DOI: 10.3389/fimmu.2020.01170

Gomes, J.A.S., Silva, J.F., Marçal, A.P., Silva, G.C., Gomes, G.F., de Oliveira, A.C.P., Soares, V.L., Oliveira, M.C., Ferreira, A.V.M., Aguiar, D.C. High-refined carbohydrate diet consumption induces neuroinflammation and anxiety-like behavior in mice (2020) *Journal of Nutritional Biochemistry*, 77, art. no. 108317
DOI: 10.1016/j.jnutbio.2019.108317

Sinha, P., Chakrabarti, N., Ghosh, N., Mitra, S., Dalui, S., Bhattacharyya, A. Alterations of thyroidal status in brain regions and hypothalamo-pituitary-blood-thyroid-axis associated with dopaminergic depletion in substantia nigra and ROS formation in different brain regions after MPTP treatment in adult male mice (2020) *Brain Research Bulletin*, 156, pp. 131-140.
DOI: 10.1016/j.brainresbull.2019.12.013

Mohammed, A., El-Bakly, W.M., Ali, A., El-Demerdash, E. Rosuvastatin improves olanzapine's effects on behavioral impairment and hippocampal, hepatic and metabolic damages in isolated reared male rats (2020) *Behavioural Brain Research*, 378, art. no. 112305,
DOI: 10.1016/j.bbr.2019.112305

Henry, S., Shi, L., Alexander, V., O'neal, R., Carey, S., Spittler, H.D., Leonard, D., Chastain, G., Hassan, L., Jindal, M. "JUMPing into Diabetes Control": A Group-Setting Self-Empowerment Lifestyle Intervention among Diabetes Patients (2020) *Healthcare (Switzerland)*, 8 (2), art. no. 90,
DOI: 10.3390/healthcare8020090

Moradi-Kor, N., Dadkhah, M., Ghanbari, A., Rashidipour, H., Bandegi, A.R., Barati, M., Kokhaei, P., Rashidy-Pour, A. Protective effects of spirulina platensis, voluntary exercise and environmental interventions against adolescent stress-induced anxiety and depressive-like symptoms, oxidative stress and alterations of bdnf and 5ht-3 receptors of the prefrontal cortex in female rats (2020) *Neuropsychiatric Disease and Treatment*, 16, pp. 1777-1794.
DOI: 10.2147/NDT.S247599

Almeida, J., Oliveira, L.A., Benini, R., Crestani, C.C. Role of hippocampal nitrenergic neurotransmission in behavioral and cardiovascular dysfunctions evoked by chronic social stress (2020) *Nitric Oxide - Biology and Chemistry*, 94, pp. 114-124.
DOI: 10.1016/j.niox.2019.11.004

Monte, A.S., da Silva, F.E.R., Lima, C.N.D.C., Vasconcelos, G.S., Gomes, N.S., Miyajima, F., Vasconcelos, S.M.M., Gama, C.S., Seeman, M.V., de Lucena, D.F., Macedo, D.S. Sex influences in the preventive effects of N-acetylcysteine in a two-hit animal model of schizophrenia (2020) *Journal of Psychopharmacology*, 34 (1), pp. 125-136.
DOI: 10.1177/0269881119875979

Hare, B.D., Shinohara, R., Liu, R.J., Pothula, S., DiLeone, R.J., Duman, R.S. Optogenetic stimulation of medial prefrontal cortex Drd1 neurons produces rapid and long-lasting antidepressant effects (2019) *Nature Communications*, 10 (1), art. no. 223
DOI: 10.1038/s41467-018-08168-9

Pérez, M.Á., Morales, C., Santander, O., García, F., Gómez, I., Peñaloza-Sancho, V., Fuentealba, P., Dagnino-Subiabre, A., Moya, P.R., Fuenzalida, M. Ketamine-Treatment During Late Adolescence Impairs Inhibitory Synaptic Transmission in the Prefrontal Cortex and Working Memory in Adult Rats (2019) *Frontiers in Cellular Neuroscience*, 13, art. no. 372
DOI: 10.3389/fncel.2019.00372

Atrooz, F., Liu, H., Kochi, C., Salim, S. Early Life Sleep Deprivation: Role of Oxido-Inflammatory Processes (2019) *Neuroscience*, 406, pp. 22-37.
DOI: 10.1016/j.neuroscience.2019.02.021

Youssef, D.A., El-Fayoumi, H.M., Mahmoud, M.F. Beta-caryophyllene alleviates diet-induced neurobehavioral changes in rats: The role of CB2 and PPAR- γ receptors (2019) *Biomedicine and Pharmacotherapy*, 110, pp. 145-154.
DOI: 10.1016/j.biopha.2018.11.039

Aschbacher, K., Mason, A.E. Eustress, distress, and oxidative stress: Promising pathways for mind-body medicine (2019) *Oxidative Stress: Eustress and Distress*, pp. 583-617.
DOI: 10.1016/B978-0-12-818606-0.00029-8

Khani, F., Radahmadi, M., Alaei, H., Jafari, E. Effects of crocin on cognitive and spatial memories in rats under chronic isolation stress (2018) *Physiology and Pharmacology (Iran)*, 22 (4), pp. 254-268.

Famitafreshi, H., Karimian, M. Assessment of Improvement in Oxidative Stress Indices with Resocialization in Memory Retrieval in Y-Maze in Male Rats (2018) *Journal of Experimental Neuroscience*,
DOI: 10.1177/1179069518820323

Novaes, L.S., dos Santos, N.B., Dragunas, G., Perfetto, J.G., Leza, J.C., Scavone, C., Munhoz, C.D. Repeated Restraint Stress Decreases Na,K-ATPase Activity via Oxidative and Nitrosative Damage in the Frontal Cortex of Rats (2018) *Neuroscience*, 393, pp. 273-283.
DOI: 10.1016/j.neuroscience.2018.09.037

Alzoubi, K.H., Hasan, Z.A., Khabour, O.F., Mayyas, F.A., Al Yacoub, O.N., Banihani, S.A., Azab, M.A., Alrabadi, N. The effect of high-fat diet on seizure threshold in rats: Role of oxidative stress (2018) *Physiology and Behavior*, 196, pp. 1-7.
DOI: 10.1016/j.physbeh.2018.08.011

You, R., Ho, Y.-S., Hung, C.H.-L., Liu, Y., Huang, C.-X., Chan, H.-N., Ho, S.-L., Lui, S.-Y., Li, H.-W., Chang, R.C.-C. Silica nanoparticles induce neurodegeneration-like changes in behavior, neuropathology, and affect synapse through MAPK activation (2018) *Particle and Fibre Toxicology*, 15 (1), art. no. 28, .
DOI: 10.1186/s12989-018-0263-3

Xia, N., Li, H. Loneliness, Social Isolation, and Cardiovascular Health (2018) *Antioxidants and Redox Signaling*, 28 (9), pp. 837-851.
DOI: 10.1089/ars.2017.7312

Xia, C.-Y., Wang, Z.-Z., Zhang, Z., Chen, J., Wang, Y.-Y., Lou, Y.-X., Gao, Y., Luo, P., Ren, Q., Du, G.-H., Chen, N.-H. Corticosterone impairs gap junctions in the prefrontal cortical and hippocampal astrocytes via different mechanisms (2018) *Neuropharmacology*, 131, pp. 20-30.
DOI: 10.1016/j.neuropharm.2017.12.003

Koo, Y.S., Kim, H., Park, J.H., Kim, M.J., Shin, Y.-I., Choi, B.T., Lee, S.-Y., Shin, H.K. Indoleamine 2,3-dioxygenase-dependent neurotoxic kynurenine metabolism contributes to poststroke depression induced in mice by ischemic stroke along with spatial restraint stress (2018) *Oxidative Medicine and Cellular Longevity*, 2018, art. no. 2413841,
DOI: 10.1155/2018/2413841

Oh, D.-R., Kim, Y., Choi, E.-J., Jo, A., Shin, J., Kang, H., Lee, S.-G., Kim, J., Kim, Y.R., Choi, C.Y. Antidepressant Effects of *Vaccinium bracteatum* via Protection Against Hydrogen Peroxide-Induced Oxidative Stress and Apoptosis (2018) *American Journal of Chinese Medicine*, 46 (7), pp. 1499-1518.
DOI: 10.1142/S0192415X18500775

Wang, B., Jin, X., Kuang, X., Tian, S. Chronic administration of parecoxib exerts anxiolytic-like and memory enhancing effects and modulates synaptophysin expression in mice (2017) *BMC Anesthesiology*, 17 (1), art. no. 152
DOI: 10.1186/s12871-017-0443-y

Korem, N., Lange, R., Hillard, C.J., Akirav, I. Role of beta-catenin and endocannabinoids in the nucleus accumbens in extinction in rats exposed to shock and reminders (2017) *Neuroscience*, 357, pp. 285-294.
DOI: 10.1016/j.neuroscience.2017.06.015

Li, C.-F., Chen, X.-Q., Chen, S.-M., Chen, X.-M., Geng, D., Liu, Q., Yi, L.-T. Evaluation of the toxicological properties and anti-inflammatory mechanism of *Hemerocallis citrina* in LPS-induced depressive-like mice (2017) *Biomedicine and Pharmacotherapy*, 91, pp. 167-173.
DOI: 10.1016/j.biopha.2017.04.089

Ibi, M., Liu, J., Arakawa, N., Kitaoka, S., Kawaji, A., Matsuda, K.-I., Iwata, K., Matsumoto, M., Katsuyama, M., Zhu, K., Teramukai, S., Furuyashiki, T., Yabe-Nishimura, C. Depressive-like behaviors are regulated by NOX1/NADPH oxidase by redox modification of NMDA receptor 1 (2017) *Journal of Neuroscience*, 37 (15), pp. 4200-4212.
DOI: 10.1523/JNEUROSCI.2988-16.2017

De Moura, A.C., Brito, V.B., Porawski, M., Saffi, J., Giovenardi, M. Low maternal care is associated with increased oxidative stress in the brain of lactating rats (2017) *Brain Research*, 1655, pp. 17-22
DOI: 10.1016/j.brainres.2016.11.010

Famitafreshi, H., Karimian, M. Evaluation of oxidative stress indices in withdrawal period from morphine in hippocampus and prefrontal cortex in pair and isolated male rats (2017) *Immunology, Endocrine and Metabolic Agents in Medicinal Chemistry*, 17 (2), pp. 96-104.
DOI: 10.2174/1871522217666170815162503

Miyamoto, T., Funakami, Y., Kawashita, E., Nomura, A., Sugimoto, N., Saeki, H., Tsubota, M., Ichida, S., Kawabata, A. Repeated cold stress enhances the acute restraint stress-induced hyperthermia in mice (2017) *Biological and Pharmaceutical Bulletin*, 40 (1), pp. 11-16.
DOI: 10.1248/bpb.b16-00343

Çakır, Ö.K., Ellek, N., Salehin, N., Hamamcı, R., Keleş, H., Kayalı, D.G., Akakın, D., Yüksel, M., Özbeyli, D. Protective effect of low dose caffeine on psychological stress and cognitive function (2017) *Physiology and Behavior*, 168, pp. 1-10.
DOI: 10.1016/j.physbeh.2016.10.010

Ribeiro, M.L., Moreira, L.M., Arçari, D.P., dos Santos, L.F., Marques, A.C., Pedrazzoli, J., Cerutti, S.M. Protective effects of chronic treatment with a standardized extract of *Ginkgo biloba* L. in the prefrontal cortex and dorsal hippocampus of middle-aged rats (2016) *Behavioural Brain Research*, 313, pp. 144-150.
DOI: 10.1016/j.bbr.2016.06.029

Sumis, A., Cook, K.L., Andrade, F.O., Hu, R., Kidney, E., Zhang, X., Kim, D., Carney, E., Nguyen, N., Yu, W., Bouker, K.B., Cruz, I., Clarke, R., Hilakivi-Clarke, L. Social isolation induces autophagy in the mouse mammary gland: Link to increased mammary cancer risk (2016) *Endocrine-Related Cancer*, 23 (10), pp. 839-856.
DOI: 10.1530/ERC-16-0359

Gómez-Galán, M., Femenía, T., Åberg, E., Graae, L., Van Eeckhaut, A., Smolders, I., Brené, S., Lindskog, M. Running opposes the effects of social isolation on synaptic plasticity and transmission in a rat model of depression (2016) *PLoS ONE*, 11 (10), art. no. e0165071,
DOI: 10.1371/journal.pone.0165071

Vargas, J., Junco, M., Gomez, C., Lajud, N. Early life stress increases metabolic risk, HPA axis reactivity, and depressive-like behavior when combined with postweaning social isolation in rats (2016) *PLoS ONE*, 11 (9), art. no. e0162665,
DOI: 10.1371/journal.pone.0162665

Wincewicz, D., Juchniewicz, A., Waszkiewicz, N., Braszko, J.J. Angiotensin II type 1 receptor blockade by telmisartan prevents stress-induced impairment of memory via HPA axis deactivation and up-regulation of brain-derived neurotrophic factor gene expression (2016) *Pharmacology Biochemistry and Behavior*, 148, p. 108-118.
DOI: 10.1016/j.pbb.2016.06.010

Pereira, V.H., Marques, F., Lages, V., Pereira, F.G., Patchev, A., Almeida, O.F.X., Almeida-Palha, J., Sousa, N., Cerqueira, J.J. Glucose intolerance after chronic stress is related with downregulated PPAR- γ in adipose tissue (2016) *Cardiovascular Diabetology*, 15 (1), art. no. 114
DOI: 10.1186/s12933-016-0433-2

Haj-Mirzaian, A., Amiri, S., Amini-Khoei, H., Rahimi-Balaei, M., Kordjazy, N., Olson, C.O., Rastegar, M., Naserzadeh, P., Marzban, H., Dehpour, A.R., Hosseini, M.-J., Samiei, E., Mehr, S.E. Attenuation of oxidative and nitrosative stress in cortical area associates with antidepressant-like effects of tropisetron in male mice following social isolation stress (2016) *Brain Research Bulletin*, 124, pp. 150-163.
DOI: 10.1016/j.brainresbull.2016.04.018

do Prado, C.H., Narahari, T., Holland, F.H., Lee, H.-N., Murthy, S.K., Brenhouse, H.C. Effects of early adolescent environmental enrichment on cognitive dysfunction, prefrontal cortex development, and inflammatory cytokines after early life stress (2016) *Developmental Psychobiology*, 58 (4), pp. 482-491.
DOI: 10.1002/dev.21390

Freiman, S.V., Onufriev, M.V., Stepanichev, M.Y., Moiseeva, Y.V., Lazareva, N.A., Gulyaeva, N.V. The stress effects of a single injection of isotonic saline solution: systemic (blood) and central (frontal cortex and dorsal and ventral hippocampus) (2016) *Neurochemical Journal*, 10 (2), pp. 115-119.
DOI: 10.1134/S1819712416020033

Schuch, F.B., Deslandes, A.C., Stubbs, B., Gosmann, N.P., Silva, C.T.B.D., Fleck, M.P.D.A. Neurobiological effects of exercise on major depressive disorder: A systematic review (2016) *Neuroscience and Biobehavioral Reviews*, 61, pp. 1-11.
DOI: 10.1016/j.neubiorev.2015.11.012

Haj-Mirzaian, A., Amiri, S., Kordjazy, N., Momeny, M., Razmi, A., Rahimi-Balaei, M., Amini-Khoei, H., Marzban, H., Mehr, S.E., Dehpour, A.R., Ghaffari, S.H. Lithium attenuated the depressant and anxiogenic effect of juvenile social stress through mitigating the negative impact of interleukin-1 β and nitric oxide on hypothalamic-pituitary-adrenal axis function (2016) *Neuroscience*, 315, pp. 271-285.
DOI: 10.1016/j.neuroscience.2015.12.024

Pesarico, A.P., Stangherlin, E.C., Mantovani, A.C., Zeni, G., Nogueira, C.W. 7-Fluoro-1,3-diphenylisoquinoline-1-amine abolishes depressive-like behavior and prefrontal cortical oxidative damage induced by acute restraint stress in mice (2015) *Physiology and Behavior*, 149, pp. 294-302.
DOI: 10.1016/j.physbeh.2015.06.018

Mejia-Carmona, G.E., Gosselink, K.L., Pérez-Ishiwara, G., Martínez-Martínez, A. Oxidant/antioxidant effects of chronic exposure to predator odor in prefrontal cortex, amygdala, and hypothalamus (2015) *Molecular and Cellular Biochemistry*, 406 (1-2), pp. 121-129.
DOI: 10.1007/s11010-015-2430-2

Fletcher, K.L., Whitley, B.N., Treidel, L.A., Thompson, D., Williams, A., Noguera, J.C., Stevenson, J.R., Haussmann, M.F. Voluntary locomotor activity mitigates oxidative damage associated with isolation stress in the prairie vole (*Microtus ochrogaster*) (2015) *Biology Letters*, 11 (7), art. no. 20150178
DOI: 10.1098/rsbl.2015.0178

Aron, A.W., Staff, I., Fortunato, G., McCullough, L.D. Prestroke living situation and depression contribute to initial stroke severity and stroke recovery (2015) *Journal of Stroke and Cerebrovascular Diseases*, 24 (2), pp. 492-499.
DOI: 10.1016/j.jstrokecerebrovasdis.2014.09.024

Djordjevic, J., Djordjevic, A., Adzic, M., Mitic, M., Lukic, I., Radojicic, M.B. Alterations in the Nrf2-Keap1 signaling pathway and its downstream target genes in rat brain under stress (2015) *Brain Research*, 1602 (C), pp. 20-31.

DOI: 10.1016/j.brainres.2015.01.010

Peñasco, S., Mela, V., López-Moreno, J.A., Viveros, M.-P., Marco, E.M.
Early maternal deprivation enhances voluntary alcohol intake induced by exposure to stressful events later in life (2015) *Neural Plasticity*, 2015, art. no. 342761
DOI: 10.1155/2015/342761

Fowler, A.-K., Thompson, J., Chen, L., Dagda, M., Dertien, J., Dossou, K.S.S., Moaddel, R., Bergeson, S.E., Kruman, I.I. Differential sensitivity of prefrontal cortex and hippocampus to alcohol-induced toxicity (2014) *PLoS ONE*, 9 (9), art. no. e106945
DOI: 10.1371/journal.pone.0106945

Protective effect of Hsp70i against chronic social isolation stress in the rat hippocampus

Zlatković, J., Bernardi, R.E., **Filipović, D.**
Journal of Neural Transmission, 2014, 121(1), pp. 3–14
Heterocitati 26 :
Citiran u :

Al Omran, A.J., Shao, A.S., Watanabe, S., Zhang, Z., Zhang, J., Xue, C., Watanabe, J., Davies, D.L., Shao, X.M., Liang, J. Social isolation induces neuroinflammation and microglia overactivation, while dihydromyricetin prevents and improves them (2022) *Journal of Neuroinflammation*, 19 (1), art. no. 2,
DOI: 10.1186/s12974-021-02368-9

Vrankova, S., Galandakova, Z., Benko, J., Cebova, M., Riecanaky, I., Pechanova, O. Duration of social isolation affects production of nitric oxide in the rat brain (2021) *International Journal of Molecular Sciences*, 22 (19), art. no. 10340,
DOI: 10.3390/ijms221910340

Scharf, I., Stoldt, M., Libbrecht, R., Höpfner, A.L., Jongepier, E., Kever, M., Foitzik, S. Social isolation causes downregulation of immune and stress response genes and behavioural changes in a social insect (2021) *Molecular Ecology*, 30 (10), pp. 2378-2389.
DOI: 10.1111/mec.15902

Rappeneau, V., Wilmes, L., Touma, C. Molecular correlates of mitochondrial dysfunctions in major depression: Evidence from clinical and rodent studies (2020) *Molecular and Cellular Neuroscience*, 109, art. no. 103555,
DOI: 10.1016/j.mcn.2020.103555

Cunha, M.P., Machado, D.G., Mancini, G., Glaser, V., de Paula Martins, R., de Bem, A.F., Latini, A., Dafre, A.L., Rodrigues, A.L.S. The effect of voluntary wheel running on the antioxidant status is dependent on sociability conditions (2020) *Pharmacology Biochemistry and Behavior*, 198, art. no. 173018
DOI: 10.1016/j.pbb.2020.173018

Ellison, A.R., Uren Webster, T.M., Rodriguez-Barreto, D., de Leaniz, C.G., Consuegra, S., Orozco-terWengel, P., Cable, J. Comparative transcriptomics reveal conserved impacts of rearing density on immune response of two important aquaculture species (2020) *Fish and Shellfish Immunology*, 104, pp. 192-201.
DOI: 10.1016/j.fsi.2020.05.043

Mazzei, L., Ruiz-Roso, M.B., de Las Heras, N., Ballesteros, S., Torrespalazzolo, C., Ferder, L., Camargo, A.B., Manucha, W. Alicin neuroprotective effect during oxidative/inflammatory injury involves AT1-Hsp70-iNOS counterbalance axis (2020) *Biocell*, 44 (4), pp. 671-681.
DOI: 10.32604/BIOCELL.2020.014175

Unno, K., Pervin, M., Taguchi, K., Konishi, T., Nakamura, Y. Green tea catechins trigger immediate-early genes in the hippocampus and prevent cognitive decline and lifespan shortening (2020) *Molecules*, 25 (7), art. no. 1484,
DOI: 10.3390/molecules25071484

Gądek-Michalska, A., Tadeusz, J., Bugajski, A., Bugajski, J. Chronic Isolation Stress Affects Subsequent Crowding Stress-Induced Brain Nitric Oxide Synthase (NOS) Isoforms and Hypothalamic-Pituitary-Adrenal (HPA) Axis Responses (2019) *Neurotoxicity Research*, 36 (3), pp. 523-539
DOI: 10.1007/s12640-019-00067-1

Chmelova, M., Balagova, L., Marko, M., Vrankova, S., Cebova, M., Jezova, D., Riecanaky, I., Hlavacova, N. Behavioral alterations induced by post-weaning isolation rearing of rats are accompanied by reduced VGF/BDNF/TrkB signaling in the hippocampus (2019) *Neurochemistry International*, 129, art. no. 104473,
DOI: 10.1016/j.neuint.2019.104473

Perepelkina, O.V., Ogienko, N.A., Lilp, I.G., Garbuz, D.G., Revishchin, A.V., Pavlova, G.V., Poletaeva, I.I. The Effect of a Single Heating Treatment on Laboratory Mice Behavior, Adult Neurogenesis, and the Expression of Heatshock Protein HSP-70 (2019) *Moscow University Biological Sciences Bulletin*, 74 (2), pp. 86-91.
DOI: 10.3103/S0096392519020093

Mumtaz, F., Khan, M.I., Zubair, M., Dehpour, A.R. bNeurobiology and consequences of social isolation stress in animal model—A comprehensive review (2018) *Biomedicine and Pharmacotherapy*, 105, pp. 1205-1222.
DOI: 10.1016/j.biopha.2018.05.086

Natarajan, K., Abraham, P., Kota, R., Isaac, B. NF- κ B-iNOS-COX2-TNF α inflammatory signaling pathway plays an important role in methotrexate induced small intestinal injury in rats (2018) *Food and Chemical Toxicology*, 118, pp. 766-783
DOI: 10.1016/j.fct.2018.06.040

Franklin, T.C., Xu, C., Duman, R.S. Depression and sterile inflammation: Essential role of danger associated molecular patterns (2018) *Brain, Behavior, and Immunity*, 72, pp. 2-13.
DOI: 10.1016/j.bbi.2017.10.025

Medendorp, W.E., Petersen, E.D., Pal, A., Wagner, L.-M., Myers, A.R., Hochgeschwender, U., Jenrow, K.A. Altered behavior in mice socially isolated during adolescence corresponds with immature dendritic spine morphology and impaired plasticity in the prefrontal cortex (2018) *Frontiers in Behavioral Neuroscience*, 12, art. no. 87,
DOI: 10.3389/fnbeh.2018.00087

Kurek, A., Głombik, K., Detka, J., Basta-Kaim, A., Kubera, M., Lasoń, W., Budziszewska, B. Regulators of glucocorticoid receptor function in an animal model of depression and obesity (2018) *Journal of Neuroendocrinology*, 30 (5), art. no. e12591,
DOI: 10.1111/jne.12591

Aykaç, A., Öncül, Ş., Onur, R. Social isolation and predator scent tests alter brain BDNF levels differentially according to gender, in rats and effects of fluoxetine (2018) *Marmara Pharmaceutical Journal*, 22 (2), pp. 190-198.
DOI: 10.12991/mpj.2018.56

Manucha, W. Nitric oxide pathways in neurotoxicity from glutamate- induced apoptosis: Emerging mitochondrial role (2017) *Psychiatry and Neuroscience Update*, 2, pp. 151-159.
DOI: 10.1007/978-3-319-53126-7_12

Manucha, W. Mitochondrial dysfunction associated with nitric oxide pathways in glutamate neurotoxicity [Disfunción mitocondrial asociada a las vías del óxido nítrico en la neurotoxicidad por glutamato] (2017) *Clinica e Investigacion en Arteriosclerosis*, 29 (2), pp. 92-97.
DOI: 10.1016/j.arteri.2016.04.002

Głombik, K., Stachowicz, A., Olszanecki, R., Ślusarczyk, J., Trojan, E., Lasoń, W., Kubera, M., Budziszewska, B., Spedding, M., Basta-Kaim, A. The effect of chronic tianeptine administration on the brain mitochondria: direct links with an animal model of depression (2016) *Molecular Neurobiology*, 53 (10), pp. 7351-7362.
DOI: 10.1007/s12035-016-9807-4

Amiri, S., Haj-Mirzaian, A., Amini-khoei, H., Shirzadian, A., Rahimi-Balaei, M., Razmi, A., Bergen, H., Rastegar, M., Kordjazy, N., Haj-Mirzaian, A., Ejtemai-Mehr, S., Dehpour, A.R. Lithium attenuates the proconvulsant effect of adolescent social isolation stress via involvement of the nitrergic system (2016) *Epilepsy and Behavior*, 61, pp. 6-13.
DOI: 10.1016/j.yebeh.2016.04.035

Wohleb, E.S., Franklin, T., Iwata, M., Duman, R.S. Integrating neuroimmune systems in the neurobiology of depression (2016) *Nature Reviews Neuroscience*, 17 (8), pp. 497-511.
DOI: 10.1038/nrn.2016.69

Amiri, S., Haj-Mirzaian, A., Amini-khoei, H., Momeny, M., Shirzadian, A., Balaei, M.R., Zarrinrad, G., Ghazi-Khansari, M., Azizi, R., Dehpour, A.R., Mehr, S.E. NMDA receptor antagonists attenuate the proconvulsant effect of juvenile social isolation in male mice (2016) *Brain Research Bulletin*, 121, pp. 158-168.
DOI: 10.1016/j.brainresbull.2016.01.013

Smirnov, A.V., Tyurenkov, I.N., Shmidt, M.V., Ekova, M.R., Mednikov, D.S., Borodin, D.D. Effect of Combined Stress on Morphological Changes and Expression of NO Synthases in Rat Ventral Hippocampus (2015) *Bulletin of Experimental Biology and Medicine*, 160 (1), pp. 96-99.
DOI: 10.1007/s10517-015-3107-2

Amiri, S., Shirzadian, A., Haj-Mirzaian, A., Imran-Khan, M., Balaei, M.R., Kordjazy, N., Dehpour, A.R., Mehr, S.E. Involvement of the nitrergic system in the proconvulsant effect of social isolation stress in male mice (2014) *Epilepsy and Behavior*, 41, pp. 158-163.
DOI: 10.1016/j.yebeh.2014.09.080

Sziks, E., Pap, D., Veres, G., Fekete, A., Tulassay, T., Vannay, A. Involvement of heat shock proteins in gluten-sensitive enteropathy (2014) *World Journal of Gastroenterology*, 20 (21), pp. 6495-6503.
DOI: 10.3748/wjg.v20.i21.6495

The differential effects of acute vs. chronic stress and their combination on hippocampal parvalbumin and inducible heat shock protein 70 expression

Filipović, D., Zlatković, J., Gass, P., Inta, D.
Neuroscience, 2013, 236, pp. 47–54
Heterocitati 50 :
Citiran u :

Zhou, H., Zhu, J., Jia, J., Xiang, W., Peng, H., Zhang, Y., Liu, B., Mu, Y., Lu, Y. The antidepressant effect of nucleus accumbens deep brain stimulation is mediated by parvalbumin-positive interneurons in the dorsal dentate gyrus (2022) *Neurobiology of Stress*, 21, art. no. 100492
DOI: 10.1016/j.ynstr.2022.100492

Serna-Rodríguez, M.F., Bernal-Vega, S., de la Barquera, J.A.O.-S., Camacho-Morales, A., Pérez-Maya, A.A. The role of damage associated molecular pattern molecules (DAMPs) and permeability of the blood-brain barrier in depression and neuroinflammation (2022) *Journal of Neuroimmunology*, 371, art. no. 577951
DOI: 10.1016/j.jneuroim.2022.577951

Zhuang, Q., Zhuang, S., Gong, Y., Li, S. Chronic β -Citronellol Inhalation Rescues Parvalbumin Expression Loss in Prefrontal Cortex of Chronic Restraint Stress Mice (2022) *Journal of Shanghai Jiaotong University (Science)*, 27 (4), pp. 512-520.
DOI: 10.1007/s12204-022-2455-0

Cozzani, M., Triventi, M., Bernardi, F. Maternal Stress and Pregnancy Outcomes Evidence from a Natural Experiment: The 2004 Madrid Train Bombings (2022) *European Sociological Review*, 38 (3), pp. 390-407.
DOI: 10.1093/esr/jcab045

Potrebić, M., Pavković, Ž., Puškaš, N., Pešić, V. The Influence of Social Isolation on Social Orientation, Sociability, Social Novelty Preference, and Hippocampal Parvalbumin-Expressing Interneurons in Peripubertal Rats – Understanding the Importance of Meeting Social Needs in Adolescence (2022) *Frontiers in Behavioral Neuroscience*, 16, art. no. 872628
DOI: 10.3389/fnbeh.2022.872628

Zhang, S., Cheon, M., Park, H., Kim, T., Chung, C. Interaction Between Glucocorticoid Receptors and FKBP5 in Regulating Neurotransmission of the Hippocampus (2022) *Neuroscience*, 483, pp. 95-103.
DOI: 10.1016/j.neuroscience.2021.12.020

Woodward, E.M., Coutellier, L. Age- and sex-specific effects of stress on parvalbumin interneurons in preclinical models: Relevance to sex differences in clinical neuropsychiatric and neurodevelopmental disorders (2021) *Neuroscience and Biobehavioral Reviews*, 131, pp. 1228-1242.
DOI: 10.1016/j.neubiorev.2021.10.031

Perlman, G., Tanti, A., Mechawar, N. Parvalbumin interneuron alterations in stress-related mood disorders: A systematic review (2021) *Neurobiology of Stress*, 15, art. no. 100380,
DOI: 10.1016/j.ynstr.2021.100380

Radovanovic, L., Petrovic, J., Saponjic, J. Hippocampal and reticulo-thalamic parvalbumin interneurons and synaptic re-organization during sleep disorders in the rat models of parkinson's disease neuropathology (2021) *International Journal of Molecular Sciences*, 22 (16), art. no. 8922
DOI: 10.3390/ijms22168922

Wang, J., Tang, J., Liang, X., Luo, Y., Zhu, P., Li, Y., Xiao, K., Jiang, L., Yang, H., Xie, Y., Zhang, L., Deng, Y., Li, J., Tang, Y. Hippocampal PGC-1 α -mediated positive effects on parvalbumin interneurons are required for the antidepressant effects of running exercise (2021) *Translational Psychiatry*, 11 (1), art. no. 222,
DOI: 10.1038/s41398-021-01339-1

Mao, M.-J., Gao, Y.-Z., Yang, J.-J., Zhou, Z.-Q., Ji, M.-H. Abnormal theta oscillation aggravated by chronic stress in the CA1 may mediate the deterioration of fear memory impairment induced by lipopolysaccharide (2021) *Brain Research Bulletin*, 171, pp. 172-182.
DOI: 10.1016/j.brainresbull.2021.03.012

Sánchez-González, A., Thougard, E., Tapias-Espinosa, C., Cañete, T., Sampedro-Viana, D., Saunders, J.M., Toneatti, R., Tobeña, A., González-Maeso, J., Aznar, S., Fernández-Teruel, A. Increased thin-spine density in frontal cortex pyramidal neurons in a genetic rat model of schizophrenia-relevant features (2021) *European Neuropsychopharmacology*, 44, pp. 79-91.
DOI: 10.1016/j.euroneuro.2021.01.006

Albrecht, A., Redavide, E., Regev-Tsur, S., Stork, O., Richter-Levin, G. Hippocampal GABAergic interneurons and their co-localized neuropeptides in stress vulnerability and resilience (2021) *Neuroscience and Biobehavioral Reviews*, 122, pp. 229-244.
DOI: 10.1016/j.neubiorev.2020.11.002

Ortiz, J.B., Newbern, J., Conrad, C.D. Chronic stress has different immediate and delayed effects on hippocampal calretinin- and somatostatin-positive cells (2021) *Hippocampus*, 31 (2), pp. 221-231. Cited 2 times.
DOI: 10.1002/hipo.23285

Begni, V., Sanson, A., Pfeiffer, N., Brandwein, C., Inta, D., Talbot, S.R., Riva, M.A., Gass, P., Mallien, A.S. Social isolation in rats: Effects on animal welfare and molecular markers for neuroplasticity (2020) *PLoS ONE*, 15 (10 October), art. no. e0240439
DOI: 10.1371/journal.pone.0240439

Sanson, A., Riva, M.A. Anti-stress properties of atypical antipsychotics (2020) *Pharmaceuticals*, 13 (10), art. no. 322, pp. 1-23.
DOI: 10.3390/ph13100322

Bouvier, M.-L., Fehsel, K., Schmitt, A., Meisenzahl-Lechner, E., Gaebel, W., von Wilmsdorff, M. Sex-dependent alterations of dopamine receptor and glucose transporter density in rat hypothalamus under long-term clozapine and haloperidol medication (2020) *Brain and Behavior*, 10 (8), art. no. e01694
DOI: 10.1002/brb3.1694
DOCUMENT TYPE: Article

Kang, D., Park, J., Shim, K. Heat treatment at an early age has effects on the resistance to chronic heat stress on broilers (2019) *Animals*, 9 (12), art. no. 1022
DOI: 10.3390/ani9121022

Taylor, S.F., Grove, T.B., Ellingrod, V.L., Tso, I.F. The fragile brain: Stress vulnerability, negative affect and gabaergic neurocircuits in psychosis (2019) *Schizophrenia Bulletin*, 45 (6), pp. 1170-1183.
DOI: 10.1093/schbul/sbz046

Clarke, D.J., Chohan, T.W., Kassem, M.S., Smith, K.L., Chesworth, R., Karl, T., Kuligowski, M.P., Fok, S.Y., Bennett, M.R., Arnold, J.C. Neuregulin 1 Deficiency Modulates Adolescent Stress-Induced Dendritic Spine Loss in a Brain Region-Specific Manner and Increases Complement 4 Expression in the Hippocampus (2019) *Schizophrenia Bulletin*, 45 (2), pp. 339-349.
DOI: 10.1093/schbul/sby029

Fogaça, M.V., Duman, R.S. Cortical GABAergic dysfunction in stress and depression: New insights for therapeutic interventions (2019) *Frontiers in Cellular Neuroscience*, 13, art. no. 87
DOI: 10.3389/fncel.2019.00087

Ruanglertboon, W., Kumarnsit, E., Dej-Adisai, S., Vongvatcharanon, U., Udomuksorn, W. The neuroprotective effect of nasturtium officinale on learning ability and density of parvalbumin neurons in the hippocampus of neurodegenerative-induced mice model (2019) *Sains Malaysiana*, 48 (10), pp. 2191-2199.
DOI: 10.17576/jsm-2019-4810-15

Deng, X., Gu, L., Sui, N., Guo, J., Liang, J. Parvalbumin interneuron in the ventral hippocampus functions as a discriminator in social memory (2019) *Proceedings of the National Academy of Sciences of the United States of America*, 116 (33), pp. 16583-16592.
DOI: 10.1073/pnas.1819133116

Rossetti, A.C., Serena Paladini, M., Colombo, M., Gruca, P., Lason-Tyburkiewicz, M., Tota-Glowczyk, K., Papp, M., Riva, M.A., Molteni, R. Chronic stress exposure reduces parvalbumin expression in the rat

hippocampus through an imbalance of redox mechanisms: Restorative effect of the antipsychotic lurasidone (2018) *International Journal of Neuropsychopharmacology*, 21 (9), pp. 883-893.
DOI: 10.1093/ijnp/pyy046

Franklin, T.C., Xu, C., Duman, R.S. Depression and sterile inflammation: Essential role of danger associated molecular patterns (2018) *Brain, Behavior, and Immunity*, 72, pp. 2-13.
DOI: 10.1016/j.bbi.2017.10.025

Schroeder, A., Van den Buuse, M., Hill, R.A. Reelin haploinsufficiency and late-adolescent corticosterone treatment induce long-lasting and female-specific molecular changes in the dorsal hippocampus (2018) *Brain Sciences*, 8 (7), art. no. 118,
DOI: 10.3390/brainsci8070118

Li, M.-X., Zheng, H.-L., Luo, Y., He, J.-G., Wang, W., Han, J., Zhang, L., Wang, X., Ni, L., Zhou, H.-Y., Hu, Z.-L., Wu, P.-F., Jin, Y., Long, L.-H., Zhang, H., Hu, G., Chen, J.-G., Wang, F. Gene deficiency and pharmacological inhibition of caspase-1 confers resilience to chronic social defeat stress via regulating the stability of surface AMPARs (2018) *Molecular Psychiatry*, 23 (3), pp. 556-568.
DOI: 10.1038/mp.2017.76

Yin, B., Gu, C., Lu, Y., Hegab, I.M., Yang, S., Wang, A., Wei, W. Repeated exposure to cat urine induces complex behavioral, hormonal, and c-fos mRNA responses in Norway rats (*Rattus norvegicus*) (2017) *Science of Nature*, 104 (7-8), art. no. 64,
DOI: 10.1007/S00114-017-1484-2

De Guevara-Miranda, D.L., Milloán, C., Rosell-Valle, C., Peárez-Fernaández, M., Missiroli, M., Serrano, A., Pavoán, F.J., De Fonseca, F.R., Martiánez-Losa, M., Alvarez-Dolado, M., Santián, L.J., Castilla-Ortega, E. Long-lasting memory deficits in mice withdrawn from cocaine are concomitant with neuroadaptations in hippocampal basal activity, GABAergic interneurons and adult neurogenesis (2017) *DMM Disease Models and Mechanisms*, 10 (3), pp. 323-336.
DOI: 10.1242/dmm.026682

Csabai, D., Seress, L., Varga, Z., Ábrahám, H., Miseta, A., Wiborg, O., Czéh, B. Electron Microscopic Analysis of Hippocampal Axo-Somatic Synapses in a Chronic Stress Model for Depression (2017) *Hippocampus*, 27 (1), pp. 17-27.
DOI: 10.1002/hipo.22650

Inta, I., Domonkos, E., Pfeiffer, N., Sprengel, R., Bettendorf, M., Lang, U.E., Inta, D., Gass, P. Puberty marks major changes in the hippocampal and cortical c-Fos activation pattern induced by NMDA receptor antagonists (2017) *Neuropharmacology*, 112, pp. 181-187.
DOI: 10.1016/j.neuropharm.2016.03.023

Shepard, R., Page, C.E., Coutellier, L. Sensitivity of the prefrontal GABAergic system to chronic stress in male and female mice: Relevance for sex differences in stress-related disorders (2016) *Neuroscience*, 332, pp. 1-12.
DOI: 10.1016/j.neuroscience.2016.06.038

Sehgal, S.A., Mannan, S., Ali, S. Pharmacoinformatic and molecular docking studies reveal potential novel antidepressants against neurodegenerative disorders by targeting HSPB8 (2016) *Drug Design, Development and Therapy*, 10, pp. 1605-1618.
DOI: 10.2147/DDDT.S101929

Lisek, M., Boczek, T., Ferenc, B., Zylinska, L. Regional brain dysregulation of Ca²⁺-handling systems in ketamine-induced rat model of experimental psychosis (2016) *Cell and Tissue Research*, 363 (3), pp. 609-620.
DOI: 10.1007/s00441-015-2332-3

Brzózka, M.M., Havemann-Reinecke, U., Wichert, S.P., Falkai, P., Rossner, M.J. Molecular signatures of psychosocial stress and cognition are modulated by chronic lithium treatment (2016) *Schizophrenia Bulletin*, 42, pp. S22-S33.
DOI: 10.1093/schbul/sbv194

Stults-Kolehmainen, M.A., Lu, T., Ciccolo, J.T., Bartholomew, J.B., Brotnow, L., Sinha, R. Higher chronic psychological stress is associated with blunted affective responses to strenuous resistance exercise: RPE, pleasure, pain (2016) *Psychology of Sport and Exercise*, 22, pp. 27-36.
DOI: 10.1016/j.psychsport.2015.05.004

Vogt, M.A., Vogel, A.S., Pfeiffer, N., Gass, P., Inta, D. Role of the nitric oxide donor sodium nitroprusside in the antidepressant effect of ketamine in mice (2015) *European Neuropsychopharmacology*, 25 (10), pp. 1848-1852.
DOI: 10.1016/j.euroneuro.2015.06.012

Ycaza Herrera, A., Mather, M. Actions and interactions of estradiol and glucocorticoids in cognition and the brain: Implications for aging women (2015) *Neuroscience and Biobehavioral Reviews*, 55, pp. 36-52.
DOI: 10.1016/j.neubiorev.2015.04.005

Ebrahimzadeh Bideskan, A.R., Lale Ataei, M., Mansouri, S., Hosseini, M. The effects of tamoxifen and soy on dark neuron production in hippocampal formation after pentylenetetrazole-induced repeated seizures in rats (2015) *Pathophysiology*, 22 (2), pp. 125-135.
DOI: 10.1016/j.pathophys.2015.04.001

Gutiérrez-Fernández, J., Del Castillo, J.D.L., Mañanes-González, S., Carrillo-Ávila, J.A., Gutiérrez, B., Cervilla, J.A., Sorlózano-Puerto, A. Different presence of chlamydia pneumoniae, herpes simplex virus type 1, human herpes virus 6, and toxoplasma gondii in schizophrenia: Meta-analysis and analytical study (2015) *Neuropsychiatric Disease and Treatment*, 11, pp. 843-852
DOI: 10.2147/NDT.S79285

Girard, F., Venail, J., Schwaller, B., Celio, M.R. The EF-hand Ca²⁺-binding protein super-family: A genome-wide analysis of gene expression patterns in the adult mouse brain (2015) *Neuroscience*, 294, pp. 116-155.
DOI: 10.1016/j.neuroscience.2015.02.018

Dang, W., Lu, H., Gao, Y., Xu, N., Qu, T., Liu, Y. Molecular analysis of inducible Heat shock protein 70 of *Pelodiscus sinensis* and its effects during pathogen (*Aeromonas hydrophila*) infection (2015) *Aquaculture*, 442, pp. 93-99.
DOI: 10.1016/j.aquaculture.2015.02.030

Czéh, B., Varga, Z.K.K., Henningsen, K., Kovács, G.L., Miseta, A., Wiborg, O. Chronic stress reduces the number of GABAergic interneurons in the adult rat hippocampus, dorsal-ventral and region-specific differences (2015) *Hippocampus*, 25 (3), pp. 393-405.
DOI: 10.1002/hipo.22382

Khodaie, B., Lotfinia, A.A., Ahmadi, M., Lotfinia, M., Jafarian, M., Karimzadeh, F., Coulon, P., Gorji, A. Structural and functional effects of social isolation on the hippocampus of rats with traumatic brain injury (2015) *Behavioural Brain Research*, 278, pp. 55-65.
DOI: 10.1016/j.bbr.2014.09.034

Vogt, M.A., Elkin, H., Pfeiffer, N., Sprengel, R., Gass, P., Inta, D. Impact of adolescent GluA1 AMPA receptor ablation in forebrain excitatory neurons on behavioural correlates of mood disorders (2014) *European Archives of Psychiatry and Clinical Neuroscience*, 264 (7), pp. 625-629.
DOI: 10.1007/s00406-014-0509-5

Vega-Rivera, N.M., Fernández-Guasti, A., Ramírez-Rodríguez, G., Estrada-Camarena, E. Forced swim and chronic variable stress reduced hippocampal cell survival in OVX female rats (2014) *Behavioural Brain Research*, 270, pp. 248-255.
DOI: 10.1016/j.bbr.2014.05.033

Hegab, I.M., Shang, G., Ye, M., Jin, Y., Wang, A., Yin, B., Yang, S., Wei, W. Defensive responses of Brandt's voles (*Lasiopodomys brandtii*) to chronic predatory stress (2014) *Physiology and Behavior*, 126, pp. 1-7.
DOI: 10.1016/j.physbeh.2013.12.001

Crabtree, G., Gogos, J.A. Synaptic plasticity, neural circuits and the emerging role of altered short-term information processing in schizophrenia (2014) *Frontiers in Synaptic Neuroscience*, 6 (OCT), art. no. 28
DOI: 10.3389/fnsyn.2014.00028

Inta, D., Renz, P., Lima-Ojeda, J.M., Dormann, C., Gass, P. Postweaning social isolation exacerbates neurotoxic effects of the NMDA receptor antagonist MK-801 in rats (2013) *Journal of Neural Transmission*, 120 (11), pp. 1605-1609.
DOI: 10.1007/s00702-013-1049-2

Jiang, Z., Cowell, R.M., Nakazawa, K. Convergence of genetic and environmental factors on parvalbumin-positive interneurons in schizophrenia (2013) *Frontiers in Behavioral Neuroscience*, (SEP), art. no. 116,
DOI: 10.3389/fnbeh.2013.00116

Significant increase in anxiety during aging in mGlu5 receptor knockout mice

[Inta, D.](#), [Vogt, M.A.](#), [Luoni, A.](#), [Filipovic D](#) ...[Riva, M.A.](#), [Gass, P.](#)

Behavioural Brain Research, 2013, 241(1), pp. 27–31

Heterocitati 27 :

Citiran u :

Maudes, E., Mannara, F., García-Serra, A., Radosevic, M., Mellado, A., Serafim, A.B., Planagumà, J., Sabater, L., Dalmau, J., Spatola, M. Human Metabotropic Glutamate Receptor 5 Antibodies Alter Receptor Levels and Behavior in Mice (2022) *Annals of Neurology*, 92 (1), pp. 81-86.
DOI: 10.1002/ana.26362

Xia, C.-Y., He, J., Du, L.-D., Yan, Y., Lian, W.-W., Xu, J.-K., Zhang, W.-K. Targeting the dysfunction of glutamate receptors for the development of novel antidepressants (2021) *Pharmacology and Therapeutics*, 226, art. no. 107875
DOI: 10.1016/j.pharmthera.2021.107875

Zangrandi, L., Schmuckermair, C., Ghareh, H., Castaldi, F., Heilbronn, R., Zernig, G., Ferraguti, F., Ramos-Prats, A. Loss of mglur5 in d1 receptor-expressing neurons improves stress coping (2021) *International Journal of Molecular Sciences*, 22 (15), art. no. 7826
DOI: 10.3390/ijms22157826

Liu, Y., Liu, Y., Guo, Y., Xu, L., Wang, H. Phlorizin exerts potent effects against aging induced by d-galactose in mice and PC12 cells (2021) *Food and Function*, 12 (5), pp. 2148-2160.
DOI: 10.1039/d0fo02707c

Ryu, T., Park, H.J., Kim, H., Cho, Y.-C., Kim, B.C., Jo, J., Seo, Y.-W., Choi, W.-S., Kim, K. Improved memory and reduced anxiety in δ -catenin transgenic mice (2019) *Experimental Neurology*, 318, pp. 22-31.
DOI: 10.1016/j.expneurol.2019.04.006

Ramos-Prats, A., Kölldorfer, J., Paolo, E., Zeidler, M., Schmid, G., Ferraguti, F. An appraisal of the influence of the metabotropic glutamate 5 (mglu5) receptor on sociability and anxiety (2019) *Frontiers in Molecular Neuroscience*, 12, art. no. 30

DOI: 10.3389/fnmol.2019.00030

Coba, M.P., Ramaker, M.J., Ho, E.V., Thompson, S.L., Komiyama, N.H., Grant, S.G.N., Knowles, J.A., Dulawa, S.C. Dlgap1 knockout mice exhibit alterations of the postsynaptic density and selective reductions in sociability (2018) *Scientific Reports*, 8 (1), art. no. 2281, DOI: 10.1038/s41598-018-20610-y

Yao, N., Skiteva, O., Zhang, X., Svenningsson, P., Chergui, K. Ketamine and its metabolite (2R,6R)-hydroxynorketamine induce lasting alterations in glutamatergic synaptic plasticity in the mesolimbic circuit (2018) *Molecular Psychiatry*, 23 (10), pp. 2066-2077. DOI: 10.1038/mp.2017.239

Gatta, E., Mairesse, J., Deruyter, L., Marrocco, J., Van Camp, G., Bouwalerh, H., Lo Guidice, J.-M., Morley-Fletcher, S., Nicoletti, F., Maccari, S. Reduced maternal behavior caused by gestational stress is predictive of life span changes in risk-taking behavior and gene expression due to altering of the stress/anti-stress balance (2018) *NeuroToxicology*, 66, pp. 138-149. DOI: 10.1016/j.neuro.2018.04.005

Luoni, A., Gass, P., Brambilla, P., Ruggeri, M., Riva, M.A., Inta, D. Altered expression of schizophrenia-related genes in mice lacking mGlu5 receptors (2018) *European Archives of Psychiatry and Clinical Neuroscience*, 268 (1), pp. 77-87. DOI: 10.1007/s00406-016-0728-z

Sengmany, K., Gregory, K.J. Drugs to tune up glutamatergic systems: Modulators of glutamate metabotropic receptors (2018) *Neuromethods*, 130, pp. 227-261. DOI: 10.1007/978-1-4939-7228-9_8

Lang, E., Mallien, A.S., Vasilescu, A.-N., Hefter, D., Luoni, A., Riva, M.A., Borgwardt, S., Sprengel, R., Lang, U.E., Gass, P., Inta, D. Molecular and cellular dissection of NMDA receptor subtypes as antidepressant targets (2018) *Neuroscience and Biobehavioral Reviews*, 84, pp. 352-358. DOI: 10.1016/j.neubiorev.2017.08.012

Ding, J., Zhou, H.-H., Ma, Q.-R., He, Z.-Y., Ma, J.-B., Liu, Y.-M., Zhang, Y.-W., He, Y.-Q., Liu, J. Expression of NR1 and apoptosis levels in the hippocampal cells of mice treated with MK-801 (2017) *Molecular Medicine Reports*, 16 (6), pp. 8359-8364. DOI: 10.3892/mmr.2017.7674

Vasilescu, A.-N., Schweinfurth, N., Borgwardt, S., Gass, P., Lang, U.E., Inta, D., Eckart, S. Modulation of the activity of N-methyl-D-aspartate receptors as a novel treatment option for depression: Current clinical evidence and therapeutic potential of rapastinel (GLYX-13) (2017) *Neuropsychiatric Disease and Treatment*, 13, pp. 973-980. DOI: 10.2147/NDT.S119004

Nutsch, V.L., Bell, M.R., Will, R.G., Yin, W., Wolfe, A., Gillette, R., Dominguez, J.M., Gore, A.C. Aging and estradiol effects on gene expression in the medial preoptic area, bed nucleus of the stria terminalis, and posterodorsal medial amygdala of male rats (2017) *Molecular and Cellular Endocrinology*, 442, pp. 153-164. DOI: 10.1016/j.mce.2016.12.023

Amiri, S., Alijanpour, S., Tirgar, F., Haj-Mirzaian, A., Amini-Khoei, H., Rahimi-Balaei, M., Rastegar, M., Ghaderi, M., Ghazi-Khansari, M., Zarrindast, M.-R. NMDA receptors are involved in the antidepressant-like effects of capsaicin following amphetamine withdrawal in male mice (2016) *Neuroscience*, 329, pp. 122-133. DOI: 10.1016/j.neuroscience.2016.05.003

Kalinowska, M., Francesconi, A. Group I metabotropic glutamate receptor interacting proteins: Fine-tuning receptor functions in health and disease (2016) *Current Neuropharmacology*, 14 (5), pp. 494-503.
DOI: 10.2174/1570159X13666150515234434

Inta, I., Bettendorf, M., Gass, P. Conserved Hypothalamic c-Fos Activation Pattern Induced by the mGlu5 Receptor Antagonist MPEP during Peri-pubertal Development in Mice (2016) *Pharmacopsychiatry*, 49 (4), pp. 142-145.
DOI: 10.1055/s-0042-105018

Vogt, M.A., Mallien, A.S., Pfeiffer, N., Inta, I., Gass, P., Inta, D. Minocycline does not evoke anxiolytic and antidepressant-like effects in C57BL/6 mice (2016) *Behavioural Brain Research*, 301, pp. 96-101. Cited 28 times.
DOI: 10.1016/j.bbr.2015.12.015

Tsesis, S., Silberstein, T., Zlotnik, A., Boyko, M., Kuts, R., Azab, A.N. A lack of association between blood glutamate and anxiety levels in pre- delivery pregnant women (2016) *Current Pharmaceutical Analysis*, 12 (1), pp. 30-35.
DOI: 10.2174/1573412911666150421225230

Sengmany, K., Gregory, K.J. Metabotropic glutamate receptor subtype 5: molecular pharmacology, allosteric modulation and stimulus bias (2016) *British Journal of Pharmacology*, 173 (20), pp. 3001-3017.
DOI: 10.1111/bph.13281

Bentea, E., Demuyser, T., Van Liefferinge, J., Albertini, G., Deneyer, L., Nys, J., Merckx, E., Michotte, Y., Sato, H., Arckens, L., Massie, A., Smolders, I. Absence of system xc- in mice decreases anxiety and depressive-like behavior without affecting sensorimotor function or spatial vision (2015) *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 59, pp. 49-58.
DOI: 10.1016/j.pnpbp.2015.01.010

Vogt, M.A., Elkin, H., Pfeiffer, N., Sprengel, R., Gass, P., Inta, D. Impact of adolescent GluA1 AMPA receptor ablation in forebrain excitatory neurons on behavioural correlates of mood disorders (2014) *European Archives of Psychiatry and Clinical Neuroscience*, 264 (7), pp. 625-629.
DOI: 10.1007/s00406-014-0509-5

Nisticò, R., Nicoletti, F., Mango, D., Schepisi, C. Basic pharmacology of generalized anxiety disorder (2014) *New Perspectives on Generalized Anxiety Disorder*, pp. 69-82.
DOCUMENT TYPE: Book Chapter

Ménard, C., Quirion, R., Bouchard, S., Ferland, G., Gaudreau, P. Glutamatergic signaling and low prodynorphin expression are associated with intact memory and reduced anxiety in rat models of healthy aging (2014) *Frontiers in Aging Neuroscience*, 6 (MAY), art. no. Article 81
DOI: 10.3389/fnagi.2014.00081

Ménard, C., Tse, Y.C., Cavanagh, C., Chabot, J.-G., Herzog, H., Schwarzer, C., Wong, T.P., Quirion, R. Knockdown of prodynorphin gene prevents cognitive decline, reduces anxiety, and rescues loss of group 1 metabotropic glutamate receptor function in aging (2013) *Journal of Neuroscience*, 33 (31), pp. 12792-12804.
DOI: 10.1523/JNEUROSCI.0290-13.2013

Kreiner, G., Chmielarz, P., Roman, A., Nalepa, I. Gender differences in genetic mouse models evaluated for depressive-like and antidepressant behavior (2013) *Pharmacological Reports*, 65 (6), pp. 1580-1590.
DOI: 10.1016/S1734-1140(13)71519-6

Chronic social isolation induces NF- κ B activation and upregulation of iNOS protein expression in rat prefrontal cortex

Zlatković, J., Filipović, D.

Neurochemistry International, 2013, 63(3), pp. 172–179

Heterocitati 34 :

Citiran u :

Yao, G., Bai, Z., Niu, J., Zhang, R., Lu, Y., Gao, T., Wang, H. Astragalosin attenuates depression-like behaviors and memory deficits and promotes M2 microglia polarization by regulating IL-4R/JAK1/STAT6 signaling pathway in a murine model of perimenopausal depression (2022) *Psychopharmacology*, 239 (8), pp. 2421-2443.

DOI: 10.1007/s00213-022-06133-5

Coelho, A.A., Vila-Verde, C., Sartim, A.G., Uliana, D.L., Braga, L.A., Guimarães, F.S., Lisboa, S.F. Inducible Nitric Oxide Synthase Inhibition in the Medial Prefrontal Cortex Attenuates the Anxiogenic-Like Effect of Acute Restraint Stress via CB1 Receptors (2022) *Frontiers in Psychiatry*, 13, art. no. 923177, DOI: 10.3389/fpsy.2022.923177

Vrankova, S., Galandakova, Z., Benko, J., Cebova, M., Riečanský, I., Pechanova, O. Duration of social isolation affects production of nitric oxide in the rat brain (2021) *International Journal of Molecular Sciences*, 22 (19), art. no. 10340

DOI: 10.3390/ijms221910340

Maghsoud-Nia, L., Asle-Rousta, M., Rahnema, M., Amini, R. Sesame Oil and Its Component Oleic Acid Ameliorate Behavioral and Biochemical Alterations in Socially Isolated Rats (2021) *Iranian Journal of Science and Technology, Transaction A: Science*, 45 (4), pp. 1155-1163.

DOI: 10.1007/s40995-021-01098-0

Gu, Y., Zhu, D. nNOS-mediated protein-protein interactions: promising targets for treating neurological and neuropsychiatric disorders (2021) *Journal of Biomedical Research*, 35 (1), pp. 1-10.

DOI: 10.7555/JBR.34.20200108

Du Preez, A., Onorato, D., Eiben, I., Musaelyan, K., Egeland, M., Zunszain, P.A., Fernandes, C., Thuret, S., Pariante, C.M. Chronic stress followed by social isolation promotes depressive-like behaviour, alters microglial and astrocyte biology and reduces hippocampal neurogenesis in male mice (2021) *Brain, Behavior, and Immunity*, 91, pp. 24-47.

DOI: 10.1016/j.bbi.2020.07.015

Zavvari, F., Nahavandi, A. Fluoxetine increases hippocampal neural survival by improving axonal transport in stress-induced model of depression male rats (2020) *Physiology and Behavior*, 227, art. no. 113140,

DOI: 10.1016/j.physbeh.2020.113140

Arzate-Mejía, R.G., Lottenbach, Z., Schindler, V., Jawaid, A., Mansuy, I.M. Long-Term Impact of Social Isolation and Molecular Underpinnings (2020) *Frontiers in Genetics*, 11, art. no. 589621,

DOI: 10.3389/fgene.2020.589621

Peterman, J.L., White, J.D., Calcagno, A., Hagen, C., Quiring, M., Paulhus, K., Gurney, T., Eimerbrink, M.J., Curtis, M., Boehm, G.W., Chumley, M.J. Prolonged isolation stress accelerates the onset of Alzheimer's disease-related pathology in 5xFAD mice despite running wheels and environmental enrichment (2020) *Behavioural Brain Research*, 379, art. no. 112366,

DOI: 10.1016/j.bbr.2019.112366

Ge, F., Yang, H., Lu, W., Shi, H., Chen, Q., Luo, Y., Liu, L., Yan, J. Ovariectomy Induces Microglial Cell Activation and Inflammatory Response in Rat Prefrontal Cortices to Accelerate the Chronic Unpredictable Stress-Mediated Anxiety and Depression (2020) *BioMed Research International*, 2020, art. no. 3609758.

DOI: 10.1155/2020/3609758

DOCUMENT TYPE: Article

Yang, L., Chen, H., Wang, D., Nie, S., Du, J., Lu, M. PDTC Alleviates Depressive Symptoms and Colon Tissue Injury via Inhibiting NO Overproduction in CUMS Rats (2019) *Frontiers in Neuroscience*, 13, art. no. 1327,

DOI: 10.3389/fnins.2019.01327

Gądek-Michalska, A., Tadeusz, J., Bugajski, A., Bugajski, J. Chronic Isolation Stress Affects Subsequent Crowding Stress-Induced Brain Nitric Oxide Synthase (NOS) Isoforms and Hypothalamic-Pituitary-Adrenal (HPA) Axis Responses (2019) *Neurotoxicity Research*, 36 (3), pp. 523-539.

DOI: 10.1007/s12640-019-00067-1

Chmelova, M., Balagova, L., Marko, M., Vrankova, S., Cebova, M., Jezova, D., Riecanaky, I., Hlavacova, N. Behavioral alterations induced by post-weaning isolation rearing of rats are accompanied by reduced VGF/BDNF/TrkB signaling in the hippocampus (2019) *Neurochemistry International*, 129, art. no. 104473, DOI: 10.1016/j.neuint.2019.104473

Jiang, X., Wang, G., Lin, Q., Tang, Z., Yan, Q., Yu, X. Fucoxanthin prevents lipopolysaccharide-induced depressive-like behavior in mice via AMPK- NF- κ B pathway (2019) *Metabolic Brain Disease*, 34 (2), pp. 431-442.

DOI: 10.1007/s11011-018-0368-2

Zhu, L.-J., Ni, H.-Y., Chen, R., Chang, L., Shi, H.-J., Qiu, D., Zhang, Z., Wu, D.-L., Jiang, Z.-C., Xin, H.-L., Zhou, Q.-G., Zhu, D.-Y. Hippocampal nuclear factor kappa B accounts for stress-induced anxiety behaviors via enhancing neuronal nitric oxide synthase (nNOS)-carboxy-terminal PDZ ligand of nNOS-Dexras1 coupling (2018) *Journal of Neurochemistry*, 146 (5), pp. 598-612.

DOI: 10.1111/jnc.14478

Mumtaz, F., Khan, M.I., Zubair, M., Dehpour, A.R. Neurobiology and consequences of social isolation stress in animal model—A comprehensive review (2018) *Biomedicine and Pharmacotherapy*, 105, pp. 1205-1222.

DOI: 10.1016/j.biopha.2018.05.086

Franklin, T.C., Xu, C., Duman, R.S. Depression and sterile inflammation: Essential role of danger associated molecular patterns (2018) *Brain, Behavior, and Immunity*, 72, pp. 2-13.

DOI: 10.1016/j.bbi.2017.10.025

Macht, V.A., Reagan, L.P. Chronic stress from adolescence to aging in the prefrontal cortex: A neuroimmune perspective (2018) *Frontiers in Neuroendocrinology*, 49, pp. 31-42.

DOI: 10.1016/j.yfrne.2017.12.001

Gądek-Michalska, A., Bugajski, A., Tadeusz, J., Rachwalska, P., Bugajski, J. Chronic social isolation in adaptation of HPA axis to heterotypic stress (2017) *Pharmacological Reports*, 69 (6), pp. 1213-1223.

DOI: 10.1016/j.pharep.2017.08.011

Jiang, X., Liu, J., Lin, Q., Mao, K., Tian, F., Jing, C., Wang, C., Ding, L., Pang, C. Proanthocyanidin prevents lipopolysaccharide-induced depressive-like behavior in mice via neuroinflammatory pathway (2017) *Brain Research Bulletin*, 135, pp. 40-46.

DOI: 10.1016/j.brainresbull.2017.09.010

Cao, M., Pu, T., Wang, L., Marshall, C., He, H., Hu, G., Xiao, M. Early enriched physical environment reverses impairments of the hippocampus, but not medial prefrontal cortex, of socially-isolated mice (2017) *Brain, Behavior, and Immunity*, 64, pp. 232-243

DOI: 10.1016/j.bbi.2017.04.009

Famitafreshi, H., Karimian, M. Evaluation of oxidative stress indices in withdrawal period from morphine in hippocampus and prefrontal cortex in pair and isolated male rats (2017) *Immunology, Endocrine and Metabolic Agents in Medicinal Chemistry*, 17 (2), pp. 96-104.
DOI: 10.2174/1871522217666170815162503

Yu, X., Jiang, X., Zhang, X., Chen, Z., Xu, L., Chen, L., Wang, G., Pan, J. The effects of fisetin on lipopolysaccharide-induced depressive-like behavior in mice (2016) *Metabolic Brain Disease*, 31 (5), pp. 1011-1021.
DOI: 10.1007/s11011-016-9839-5

Vila-Verde, C., Marinho, A.L.Z., Lisboa, S.F., Guimarães, F.S. Nitric oxide in the prelimbic medial prefrontal cortex is involved in the anxiogenic-like effect induced by acute restraint stress in rats (2016) *Neuroscience*, 320, pp. 30-42.
DOI: 10.1016/j.neuroscience.2016.01.040

Amiri, S., Amini-Khoei, H., Haj-Mirzaian, A., Rahimi-Balaei, M., Naserzadeh, P., Dehpour, A., Mehr, S.E., Hosseini, M.-J. Tropicsetron attenuated the anxiogenic effects of social isolation by modulating nitrgergic system and mitochondrial function (2015) *Biochimica et Biophysica Acta - General Subjects*, 1850 (12), pp. 2464-2475.
DOI: 10.1016/j.bbagen.2015.09.009

Joca, S.R., Moreira, F.A., Wegener, G. Atypical neurotransmitters and the neurobiology of depression (2015) *CNS and Neurological Disorders - Drug Targets*, 14 (8), pp. 1001-1011.
DOI: 10.2174/1871527314666150909114804

Gao, B., Chang, C., Zhou, J., Zhao, T., Wang, C., Li, C., Gao, G. Pycnogenol Protects Against Rotenone-Induced Neurotoxicity in PC12 Cells Through Regulating NF- κ B-iNOS Signaling Pathway (2015) *DNA and Cell Biology*, 34 (10), pp. 643-649.
DOI: 10.1089/dna.2015.2953

Möller, M., Swanepoel, T., Harvey, B.H. Neurodevelopmental Animal Models Reveal the Convergent Role of Neurotransmitter Systems, Inflammation, and Oxidative Stress as Biomarkers of Schizophrenia: Implications for Novel Drug Development (2015) *ACS Chemical Neuroscience*, 6 (7), pp. 987-1016.
DOI: 10.1021/cn5003368

Amiri, S., Haj-Mirzaian, A., Rahimi-balaei, M., Razmi, A., Kordjazy, N., Shirzadian, A., Ejtemaei Mehr, S., Sianati, H., Dehpour, A.R. Co-occurrence of anxiety and depressive-like behaviors following adolescent social isolation in male mice; possible role of nitrgergic system (2015) *Physiology and Behavior*, 145, pp. 38-44.
DOI: 10.1016/j.physbeh.2015.03.032

Friedler, B., Crapser, J., McCullough, L. One is the deadliest number: the detrimental effects of social isolation on cerebrovascular diseases and cognition (2015) *Acta Neuropathologica*, 129 (4), pp. 493-509
DOI: 10.1007/s00401-014-1377-9

Cacioppo, J.T., Cacioppo, S., Capitanio, J.P., Cole, S.W. The neuroendocrinology of social isolation (2015) *Annual Review of Psychology*, 66, pp. 733-767.
DOI: 10.1146/annurev-psych-010814-015240

Verma, R., Friedler, B.D., Harris, N.M., McCullough, L.D. Pair housing reverses post-stroke depressive behavior in mice (2014) *Behavioural Brain Research*, 269, pp. 155-163.
DOI: 10.1016/j.bbr.2014.04.044

Santos, T.B., Céspedes, I.C., Viana, M.B. Chronic corticosterone administration facilitates aversive memory retrieval and increases GR/NOS immunoreactivity (2014) *Behavioural Brain Research*, 267, pp. 46-54.

DOI: 10.1016/j.bbr.2014.03.020

Tomaz, V.S., Cordeiro, R.C., Costa, A.M.N., De Lucena, D.F., Nobre Júnior, H.V., De Sousa, F.C.F., Vasconcelos, S.M.M., Vale, M.L., Quevedo, J., Macêdo, D. Antidepressant-like effect of nitric oxide synthase inhibitors and sildenafil against lipopolysaccharide-induced depressive-like behavior in mice (2014) *Neuroscience*, 268, pp. 236-246.

DOI: 10.1016/j.neuroscience.2014.03.025

Chronic isolation stress compromises JNK/c-Jun signaling in rat brain

[Filipović, D.](#), [Zlatković, J.](#), [Pavićević, I.](#), [Mandić, L.](#), [Demajo, M.](#)

Journal of Neural Transmission, 2012, 119(11), pp. 1275–1284

Heterocitati 3 :

Citiran u :

Xie, Z., Huang, S., Xie, S., Zhou, W., Li, C., Xing, Z., Wang, Z., Wu, Z., Li, M. Potential Correlation Between Depression-like Behavior and the Mitogen-Activated Protein Kinase Pathway in the Rat Hippocampus Following Spinal Cord Injury (2021) *World Neurosurgery*, 154, pp. e29-e38.

DOI: 10.1016/j.wneu.2021.06.093

Vargas, J., Junco, M., Gomez, C., Lajud, N. Early life stress increases metabolic risk, HPA axis reactivity, and depressive-like behavior when combined with postweaning social isolation in rats (2016) *PLoS ONE*, 11 (9), art. no. e0162665,

DOI: 10.1371/journal.pone.0162665

He, J., Liu, W., Wang, L. The mechanism of electroacupuncture at Quchi and Zusanli acupoints on cerebral ischemia and reperfusion injury based on TLR4/MyD88/JNK signal pathway (2016) *Chinese Journal of Rehabilitation Medicine*, 31 (8), pp. 847-851.

DOI: 10.3969/j.issn.1001-1242.2016.08.004

Bax and B-cell-lymphoma 2 mediate proapoptotic signaling following chronic isolation stress in rat brain

[Zlatković, J.](#), [Filipović, D.](#)

Neuroscience, 2012, 223, pp. 238–245

Heterocitati 19 :

Citiran u :

Coelho, A.A., Vila-Verde, C., Sartim, A.G., Uliana, D.L., Braga, L.A., Guimarães, F.S., Lisboa, S.F. Inducible Nitric Oxide Synthase Inhibition in the Medial Prefrontal Cortex Attenuates the Anxiogenic-Like Effect of Acute Restraint Stress via CB1 Receptors (2022) *Frontiers in Psychiatry*, 13, art. no. 923177, DOI: 10.3389/fpsy.2022.923177

Grigoryan, G.A., Pavlova, I.V., Zaichenko, M.I. Effects of Social Isolation on the Development of Anxiety and Depression-Like Behavior in Model Experiments in Animals (2022) *Neuroscience and Behavioral Physiology*,

DOI: 10.1007/s11055-022-01297-1

Perlman, G., Tanti, A., Mechawar, N. Parvalbumin interneuron alterations in stress-related mood disorders: A systematic review (2021) *Neurobiology of Stress*, 15, art. no. 100380,

DOI: 10.1016/j.ynstr.2021.100380

Vrankova, S., Galandakova, Z., Benko, J., Cebova, M., Riecanaky, I., Pechanova, O. Duration of social isolation affects production of nitric oxide in the rat brain (2021) *International Journal of Molecular Sciences*, 22 (19), art. no. 10340, DOI: 10.3390/ijms221910340

Soga, T., Nakajima, S., Kawaguchi, M., Parhar, I.S. Repressor element 1 silencing transcription factor /neuron-restrictive silencing factor (REST/NRSF) in social stress and depression (2021) *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 104, art. no. 110053, DOI: 10.1016/j.pnpbp.2020.110053

Grigoryan, G.A., Pavlova, L.V., Zaichenko, M.I. INFLUENCE OF SOCIAL ISOLATION ON DEVELOPMENT OF ANXIOUS AND DEPRESSIVE-LIKE BEHAVIOR IN EXPERIMENTAL ANIMAL MODELS (2021) *Zhurnal Vysshei Nervnoi Deyatelnosti Imeni I.P. Pavlova*, 71 (6), pp. 760-784. DOI: 10.31857/S0044467721060058

Rappeneau, V., Wilmes, L., Touma, C. Molecular correlates of mitochondrial dysfunctions in major depression: Evidence from clinical and rodent studies (2020) *Molecular and Cellular Neuroscience*, 109, art. no. 103555 DOI: 10.1016/j.mcn.2020.103555

Pereda-Pérez, I., Valencia, A., Baliyan, S., Núñez, Á., Sanz-García, A., Zamora, B., Rodríguez-Fernández, R., Esteban, J.A., Venero, C. Systemic administration of a fibroblast growth factor receptor 1 agonist rescues the cognitive deficit in aged socially isolated rats (2019) *Neurobiology of Aging*, 78, pp. 155-165. DOI: 10.1016/j.neurobiolaging.2019.02.011

Castaldo, P., Macri, M.L., Lariccia, V., Matteucci, A., Maiolino, M., Gratteri, S., Amoroso, S., Magi, S. Na⁺/Ca²⁺-exchanger 1 inhibition abolishes ischemic tolerance induced by ischemic preconditioning in different cardiac models (2017) *European Journal of Pharmacology*, 794, pp. 246-256. DOI: 10.1016/j.ejphar.2016.11.045

Vargas, J., Junco, M., Gomez, C., Lajud, N. Early life stress increases metabolic risk, HPA axis reactivity, and depressive-like behavior when combined with postweaning social isolation in rats (2016) *PLoS ONE*, 11 (9), art. no. e0162665 DOI: 10.1371/journal.pone.0162665

Jia, H.-M., Li, Q., Zhou, C., Yu, M., Yang, Y., Zhang, H.-W., Ding, G., Shang, H., Zou, Z.-M. Chronic unpredictable mild stress leads to altered hepatic metabolic profile and gene expression (2016) *Scientific Reports*, 6, art. no. 23441 DOI: 10.1038/srep23441

Głombik, K., Stachowicz, A., Ślusarczyk, J., Trojan, E., Budziszewska, B., Suski, M., Kubera, M., Lasoń, W., Wedzony, K., Olszanecki, R., Basta-Kaim, A. Maternal stress predicts altered biogenesis and the profile of mitochondrial proteins in the frontal cortex and hippocampus of adult offspring rats (2015) *Psychoneuroendocrinology*, 60, pp. 151-162. DOI: 10.1016/j.psyneuen.2015.06.015

Cacioppo, J.T., Cacioppo, S., Capitanio, J.P., Cole, S.W. The neuroendocrinology of social isolation (2015) *Annual Review of Psychology*, 66, pp. 733-767. DOI: 10.1146/annurev-psych-010814-015240

Santos, T.B., Céspedes, I.C., Viana, M.B. Chronic corticosterone administration facilitates aversive memory retrieval and increases GR/NOS immunoreactivity (2014) *Behavioural Brain Research*, 267, pp. 46-54. DOI: 10.1016/j.bbr.2014.03.020

Fatahi, Z., Zeighamy Alamdary, S., Khodagholi, F., Zareh Shahamati, S., Razavi, Y., Haghparast, A. Effect of physical stress on the alteration of mesolimbic system apoptotic factors in conditioned place preference paradigm (2014) *Pharmacology Biochemistry and Behavior*, 124, pp. 231-237.
DOI: 10.1016/j.pbb.2014.06.017

Liu, X., Gu, Q.-H., Duan, K., Li, Z. NMDA receptor-dependent LTD is required for consolidation but not acquisition of fear memory (2014) *Journal of Neuroscience*, 34 (26), pp. 8741-8748.
DOI: 10.1523/JNEUROSCI.2752-13.2014

Haghparast, A., Fatahi, Z., Alamdary, S.Z., Khodagholi, F. Changes in apoptotic factors in hypothalamus and hippocampus after acute and subchronic stress induction during conditioned place preference paradigm (2013) *EXCLI Journal*, 12, pp. 1001-1016. \

Pereira, V.S., Casarotto, P.C., Hiroaki-Sato, V.A., Sartim, A.G., Guimarães, F.S., Joca, S.R.L. Antidepressant- and anticomulsive-like effects of purinergic receptor blockade: Involvement of nitric oxide (2013) *European Neuropsychopharmacology*, 23 (12), pp. 1769-1778
DOI: 10.1016/j.euroneuro.2013.01.008

Keser, A., Nesil, T., Kanit, L., Pogun, S. Brain nitric oxide metabolites in rats preselected for nicotine preference and intake (2013) *Neuroscience Letters*, 545, pp. 102-106.
DOI: 10.1016/j.neulet.2013.04.027

The mGlu5 receptor antagonist MPEP activates specific stress-related brain regions and lacks neurotoxic effects of the NMDA receptor antagonist MK-801: Significance for the use as anxiolytic/antidepressant drug

[Inta, D.](#), [Filipovic, D.](#), [Lima-Ojeda, J.M.](#), ...[Gasparini, F.](#), [Gass, P.](#)

Neuropharmacology, 2012, 62(5-6), pp. 2034–2039

Heterocitati 23 :

Citiran u :

Uzungil, V., Tran, H., Aitken, C., Wilson, C., Opazo, C.M., Li, S., Payet, J.M., Mawal, C.H., Bush, A.I., Hale, M.W., Hannan, A.J., Renoir, T. Novel Antidepressant-Like Properties of the Iron Chelator Deferiprone in a Mouse Model of Depression (2022) *Neurotherapeutics*.
DOI: 10.1007/s13311-022-01257-0

Horváth, H.R., Fazekas, C.L., Balázsfi, D., Jain, S.K., Haller, J., Zelena, D. Contribution of Vesicular Glutamate Transporters to Stress Response and Related Psychopathologies: Studies in VGluT3 Knockout Mice (2018) *Cellular and Molecular Neurobiology*, 38 (1), pp. 37-52.
DOI: 10.1007/s10571-017-0528-7

Sherwin, E., Lennon, A., Harkin, A. Regional specific modulation of stress-induced neuronal activation associated with the PSD95/NOS Interaction Inhibitor ZL006 in the wistar kyoto rat (2017) *International Journal of Neuropsychopharmacology*, 20 (10), pp. 833-843.
DOI: 10.1093/ijnp/pyx053

Wills, T.A., Baucum, A.J., Holleran, K.M., Chen, Y., Pasek, J.G., Delpire, E., Tabb, D.L., Colbran, R.J., Winder, D.G. Chronic intermittent alcohol disrupts the GluN2B-associated proteome and specifically regulates group I mGlu receptor-dependent long-term depression (2017) *Addiction Biology*, 22 (2), pp. 275-290.
DOI: 10.1111/adb.12319

Nutsch, V.L., Bell, M.R., Will, R.G., Yin, W., Wolfe, A., Gillette, R., Dominguez, J.M., Gore, A.C.

Aging and estradiol effects on gene expression in the medial preoptic area, bed nucleus of the stria terminalis, and posterodorsal medial amygdala of male rats (2017) *Molecular and Cellular Endocrinology*, 442, pp. 153-164.

DOI: 10.1016/j.mce.2016.12.023

Inta, I., Domonkos, E., Pfeiffer, N., Sprengel, R., Bettendorf, M., Lang, U.E., Inta, D., Gass, P. Puberty marks major changes in the hippocampal and cortical c-Fos activation pattern induced by NMDA receptor antagonists (2017) *Neuropharmacology*, 112, pp. 181-187.

DOI: 10.1016/j.neuropharm.2016.03.023

Millan, M.J., Rivet, J.-M., Gobert, A. The frontal cortex as a network hub controlling mood and cognition: Probing its neurochemical substrates for improved therapy of psychiatric and neurological disorders (2016) *Journal of Psychopharmacology*, 30 (11), pp. 1099-1128.

DOI: 10.1177/0269881116672342

Inta, I., Vogt, M.A., Vogel, A.S., Bettendorf, M., Gass, P., Inta, D. Minocycline exacerbates apoptotic neurodegeneration induced by the NMDA receptor antagonist MK-801 in the early postnatal mouse brain (2016) *European Archives of Psychiatry and Clinical Neuroscience*, 266 (7), pp. 673-677.

DOI: 10.1007/s00406-015-0649-2

Inta, I., Bettendorf, M., Gass, P. Conserved Hypothalamic c-Fos Activation Pattern Induced by the mGlu5 Receptor Antagonist MPEP during Peri-pubertal Development in Mice (2016) *Pharmacopsychiatry*, 49 (4), pp. 142-145.

DOI: 10.1055/s-0042-105018

Perry, C.J., Reed, F., Zbukvic, I.C., Kim, J.H., Lawrence, A.J. The metabotropic glutamate 5 receptor is necessary for extinction of cocaine-associated cues (2016) *British Journal of Pharmacology*, 173 (6), pp. 1085-1094.

DOI: 10.1111/bph.13437

Wang, Y., Ma, Y., Cheng, W., Jiang, H., Zhang, X., Li, M., Ren, J., Zhang, X., Li, X. Sexual differences in long-term effects of prenatal chronic mild stress on anxiety-like behavior and stress-induced regional glutamate receptor expression in rat offspring (2015) *International Journal of Developmental Neuroscience*, 41, pp. 80-91.

DOI: 10.1016/j.ijdevneu.2015.01.003

Vogt, M.A., Elkin, H., Pfeiffer, N., Sprengel, R., Gass, P., Inta, D. Impact of adolescent GluA1 AMPA receptor ablation in forebrain excitatory neurons on behavioural correlates of mood disorders (2014) *European Archives of Psychiatry and Clinical Neuroscience*, 264 (7), pp. 625-629.

DOI: 10.1007/s00406-014-0509-5

Michalon, A., Bruns, A., Risterucci, C., Honer, M., Ballard, T.M., Ozmen, L., Jaeschke, G., Wettstein, J.G., Von Kienlin, M., Künnecke, B., Lindemann, L. Chronic metabotropic glutamate receptor 5 inhibition corrects local alterations of brain activity and improves cognitive performance in fragile X mice (2014) *Biological Psychiatry*, 75 (3), pp. 189-197.

DOI: 10.1016/j.biopsych.2013.05.038

Millan, M.J. On 'polypharmacy' and multi-target agents, complementary strategies for improving the treatment of depression: A comparative appraisal (2014) *International Journal of Neuropsychopharmacology*, 17 (7), pp. 1009-1037.

DOI: 10.1017/S1461145712001496

Inta, D., Renz, P., Lima-Ojeda, J.M., Dormann, C., Gass, P. Postweaning social isolation exacerbates neurotoxic effects of the NMDA receptor antagonist MK-801 in rats (2013) *Journal of Neural Transmission*, 120 (11), pp. 1605-1609.

DOI: 10.1007/s00702-013-1049-2

Neelkantan, N., Mikhaylova, A., Stewart, A.M., Arnold, R., Gjeloshi, V., Kondaveeti, D., Poudel, M.K., Kalueff, A.V. Perspectives on zebrafish models of hallucinogenic drugs and related psychotropic compounds (2013) ACS Chemical Neuroscience, 4 (8), pp. 1137-1150.
DOI: 10.1021/cn400090q

Lima-Ojeda, J.M., Vogt, M.A., Pfeiffer, N., Dormann, C., Köhr, G., Sprengel, R., Gass, P., Inta, D. Pharmacological blockade of GluN2B-containing NMDA receptors induces antidepressant-like effects lacking psychotomimetic action and neurotoxicity in the perinatal and adult rodent brain (2013) Progress in Neuro-Psychopharmacology and Biological Psychiatry, 45, pp. 28-33.
DOI: 10.1016/j.pnpbp.2013.04.017

Robinson, K.S.L., Stewart, A.M., Cachat, J., Landsman, S., Gebhardt, M., Kalueff, A.V. Psychopharmacological effects of acute exposure to kynurenic acid (KYNA) in zebrafish (2013) Pharmacology Biochemistry and Behavior, 108, pp. 54-60.
DOI: 10.1016/j.pbb.2013.04.002

Matosin, N., Newell, K.A. Metabotropic glutamate receptor 5 in the pathology and treatment of schizophrenia (2013) Neuroscience and Biobehavioral Reviews, 37 (3), pp. 256-268.
DOI: 10.1016/j.neubiorev.2012.12.005

Cavas, M., Scesa, G., Navarro, J.F. Effects of MPEP, a selective metabotropic glutamate mGlu5 ligand, on sleep and wakefulness in the rat (2013) Progress in Neuro-Psychopharmacology and Biological Psychiatry, 40 (1), pp. 18-25.
DOI: 10.1016/j.pnpbp.2012.09.011

Iijima, M., Fukumoto, K., Chaki, S. Acute and sustained effects of a metabotropic glutamate 5 receptor antagonist in the novelty-suppressed feeding test (2012) Behavioural Brain Research, 235 (2), pp. 287-292.
DOI: 10.1016/j.bbr.2012.08.016

Inta, D., Lima-Ojeda, J.M., Dormann, C., Köhr, G., Sprengel, R., Gass, P. Combined subunit-specific and unspecific inhibition of NMDA receptors triggers distinct cortical c-fos expression patterns (2012) Synapse, 66 (8), pp. 752-754.
DOI: 10.1002/syn.21562

Chung, C. New perspectives on glutamate receptor antagonists as antidepressants (2012) Archives of Pharmacal Research, 35 (4), pp. 573-577.
DOI: 10.1007/s12272-012-0400-8

Expression of glucocorticoid receptors in the regenerating human skeletal muscle

Filipović, D., Pirkmajer, S., Mis, K., Mars, T., Grubic, Z.

Physiological Research, 2011, 60(SUPPL.1)

Heterocitati 5 :

Citiran u :

Luis Araujo Minari, A., Avila, F., Missae Oyama, L., Vagner Thomatieli dos Santos, R. Inflammatory response of the peripheral neuroendocrine system following downhill running (2022) Cytokine, 149, art. no. 155746,
DOI: 10.1016/j.cyto.2021.155746

Romagnoli, C., Zonefrati, R., Sharma, P., Innocenti, M., Cianferotti, L., Brandi, M.L. Characterization of Skeletal Muscle Endocrine Control in an In Vitro Model of Myogenesis (2020) Calcified Tissue International, 107 (1), pp. 18-30.
DOI: 10.1007/s00223-020-00678-3

Kraemer, W.J., Ratamess, N.A., Hymer, W.C., Nindl, B.C., Fragala, M.S. Growth Hormone(s), Testosterone, Insulin-Like Growth Factors, and Cortisol: Roles and Integration for Cellular Development and Growth With Exercise (2020) *Frontiers in Endocrinology*, 11, art. no. 33
DOI: 10.3389/fendo.2020.00033

Hinds, T.D., Peck, B., Shek, E., Stroup, S., Hinson, J., Arthur, S., Marino, J.S. Overexpression of glucocorticoid receptor β enhances myogenesis and reduces catabolic gene expression (2016) *International Journal of Molecular Sciences*, 17 (2)
DOI: 10.3390/ijms17020232

Duarte, C., Kobayashi, Y., Kawamoto, T., Moriyama, K. Relaxin receptors 1 and 2 and nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor) mRNAs are expressed in oral components of developing mice (2014) *Archives of Oral Biology*, 59 (2), pp. 111-118.
DOI: 10.1016/j.archoralbio.2013.10.010

Stress-induced alternations in CuZnSOD and MnSOD activity in cellular compartments of rat liver

Zlatković, J., Filipović, D.

Molecular and Cellular Biochemistry, 2011, 357(1-2), pp. 143–150

Heterocitati 13 :

Citiran u :

Bove, M., Lama, A., Schiavone, S., Pirozzi, C., Tucci, P., Sikora, V., Trinchese, G., Corso, G., Morgese, M.G., Trabace, L. Social isolation triggers oxidative status and impairs systemic and hepatic insulin sensitivity in normoglycemic rats (2022) *Biomedicine and Pharmacotherapy*, 149, art. no. 112820,
DOI: 10.1016/j.biopha.2022.112820

Rappeneau, V., Wilmes, L., Touma, C. Molecular correlates of mitochondrial dysfunctions in major depression: Evidence from clinical and rodent studies (2020) *Molecular and Cellular Neuroscience*, 109, art. no. 103555,
DOI: 10.1016/j.mcn.2020.103555

Ribeiro, C.C.D., Silva, R.M., Campanholo, V.M.L.P., Ribeiro, D.A., Paiotti, A.P.R., Forones, N.M. Effects of grape juice in superoxide dismutase and catalase in colorectal cancer carcinogenesis induced by azoxymethane (2018) *Asian Pacific Journal of Cancer Prevention*, 19 (10), pp. 2839-2844
DOI: 10.22034/APJCP.2018.19.10.2839

Zhao, J., Ren, L., Liu, M., Xi, T., Zhang, B., Yang, K. Anti-fibrotic function of Cu-bearing stainless steel for reducing recurrence of urethral stricture after stent implantation (2018) *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, 106 (5), pp. 2019-2028.
DOI: 10.1002/jbm.b.34005

Khodagholi, F., Shaerzadeh, F., Montazeri, F. Mitochondrial aconitase in neurodegenerative disorders: Role of a metabolism- related molecule in neurodegeneration (2018) *Current Drug Targets*, 19 (8), pp. 973-985.
DOI: 10.2174/1389450118666170816124203

Mayengbam, P., Tolengkomba, T.C., Upadhyay, R.C. MN-SOD and Cu,ZN-Sod mrna expression in relation to physiological indices of sahiwal and karan-fries heifers under different temperature humidity indices(2015) *Journal of Agrometeorology*, 17 (2), pp. 172-178.

Mejia-Carmona, G.E., Gosselink, K.L., Pérez-Ishiwara, G., Martínez-Martínez, A. Oxidant/antioxidant effects of chronic exposure to predator odor in prefrontal cortex, amygdala, and hypothalamus (2015) *Molecular and Cellular Biochemistry*, 406 (1-2), pp. 121-129.
DOI: 10.1007/s11010-015-2430-2

Kumaresan, V., Gnanam, A.J., Pasupuleti, M., Arasu, M.V., Al-Dhabi, N.A., Harikrishnan, R., Arockiaraj, J. Comparative analysis of CsCu/ZnSOD defense role by molecular characterization: Gene expression enzyme activity-protein level (2015) *Gene*, 564 (1), pp. 53-62.
DOI: 10.1016/j.gene.2015.03.042

Zhang, C.-X., Guo, L.-K., Guo, X.-F. Interaction between the polymorphisms of cyclooxygenase-2-1195G/A, MnSOD9Ala/Val genes and the high-fat diets and its correlation with ulcerative colitis (2015) *Acta Academiae Medicinae Sinicae*, 37 (1), pp. 37-43.
DOI: 10.3881/j.issn.1000-503X.2015.01.007

Lüchmann, K.H., Clark, M.S., Bairy, A.C.D., Gilbert, J.A., Craft, J.A., Chipman, J.K., Thorne, M.A.S., Mattos, J.J., Siebert, M.N., Schroeder, D.C. Key metabolic pathways involved in xenobiotic biotransformation and stress responses revealed by transcriptomics of the mangrove oyster *Crassostrea brasiliana* (2015) *Aquatic Toxicology*, 166, pp. 10-20.
DOI: 10.1016/j.aquatox.2015.06.012

Zhang, C.-X., Guo, L.-K., Guo, X.-F. Correlation of cigarette smoking and the polymorphisms of β 3-adrenergic receptor gene Trp64Arg, MnSOD9Ala/Val genes with nonalcoholic fatty liver disease (2015) *Journal of Xi'an Jiaotong University (Medical Sciences)*, 36 (1), pp. 106-111 and 120.
DOI: 10.7652/jdyxb201501020

Hitchler, M.J., Domann, F.E. Regulation of CuZnSOD and its redox signaling potential: Implications for amyotrophic lateral sclerosis (2014) *Antioxidants and Redox Signaling*, 20 (10), pp. 1590-1598. Cited 17 times.
DOI: 10.1089/ars.2013.5385

Sirota, T.V., Zakharchenko, M.V., Kondrashova, M.N. Cytoplasmic superoxide dismutase activity is a sensitive indicator of the antioxidant status of the rat liver and brain (2013) *Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry*, 7 (1), pp. 79-83.
DOI: 10.1134/S1990750813010101

Chronic isolation stress predisposes the frontal cortex but not the hippocampus to the potentially detrimental release of cytochrome c from mitochondria and the activation of caspase-3

[Filipović, D.](#), [Zlatković, J.](#), [Inta, D.](#), ...[Stojiljkovic, M.](#), [Gass, P.](#)
Journal of Neuroscience Research, 2011, 89(9), pp. 1461–1470
Heterocitati 34 :
Citiran u :

Perlman, G., Tanti, A., Mechawar, N. Parvalbumin interneuron alterations in stress-related mood disorders: A systematic review (2021) *Neurobiology of Stress*, 15, art. no. 100380,
DOI: 10.1016/j.ynstr.2021.100380

Sapozhnikova, Y.P., Koroleva, A.G., Yakhnenko, V.M., Khanaev, I.V., Glyzina, O.Yu., Avezova, T.N., Volkova, A.A., Mushinskaya, A.V., Tyagun, M.L., Shagun, A.N., Makarov, M.M., Kirilchik, S.V., Sudakov, N.P., Klimenkov, I.V., Sukhanova, L.V. Sex associated effects of noise pollution in stone sculpin (*Paracottus knerii*) as a model object in the context of human-induced rapid environmental change (2021) *Biology*, 10 (10), art. no. 1063,
DOI: 10.3390/biology10101063

Vrankova, S., Galandakova, Z., Benko, J., Cebova, M., Riecanaky, I., Pechanova, O. Duration of social isolation affects production of nitric oxide in the rat brain (2021) *International Journal of Molecular Sciences*, 22 (19), art. no. 10340
DOI: 10.3390/ijms221910340

Dionisie, V., Ciobanu, A.M., Toma, V.A., Manea, M.C., Baldea, I., Olteanu, D., Sevastre-Berghian, A., Clichici, S., Manea, M., Riga, S., Filip, G.A. Escitalopram targets oxidative stress, caspase-3, bdnf and

mecp2 in the hippocampus and frontal cortex of a rat model of depression induced by chronic unpredictable mild stress (2021) *International Journal of Molecular Sciences*, 22 (14), art. no. 7483
DOI: 10.3390/ijms22147483

Alsadee, S.A.A. Hepato-nephroprotective role of lepidium sativum against oxidative stress induced by dexamethasone in rats (2021) *Indian Journal of Forensic Medicine and Toxicology*, 15 (1), pp. 2643-2653.
DOI: 10.37506/ijfmt.v15i1.13797

Sivasangari, K., Rajan, K.E. Standardized Bacopa monnieri extract ameliorates learning and memory impairments through synaptic protein, neurogranin, pro-and mature BDNF signaling, and HPA axis in prenatally stressed rat offspring (2020) *Antioxidants*, 9 (12), art. no. 1229, pp. 1-24.
DOI: 10.3390/antiox9121229

Rappeneau, V., Wilmes, L., Touma, C. Molecular correlates of mitochondrial dysfunctions in major depression: Evidence from clinical and rodent studies (2020) *Molecular and Cellular Neuroscience*, 109, art. no. 103555
DOI: 10.1016/j.mcn.2020.103555

Cunha, M.P., Machado, D.G., Mancini, G., Glaser, V., de Paula Martins, R., de Bem, A.F., Latini, A., Dafre, A.L., Rodrigues, A.L.S. The effect of voluntary wheel running on the antioxidant status is dependent on sociability conditions (2020) *Pharmacology Biochemistry and Behavior*, 198, art. no. 173018
DOI: 10.1016/j.pbb.2020.173018

Ghanbarabadi, M., Falanji, F., Rad, A., Chazani Sharahi, N., Amoueian, S., Amin, M., Molavi, M., Amin, B. Neuroprotective effects of clavulanic acid following permanent bilateral common carotid artery occlusion in rats (2019) *Drug Development Research*, 80 (8), pp. 1110-1119.
DOI: 10.1002/ddr.21595

Han, L., Gao, X., Xia, T., Zhang, X., Li, X., Gao, W. Effect of digestion on the phenolic content and antioxidant activity of celery leaf and the antioxidant mechanism via Nrf2/HO-1 signaling pathways against Dexamethasone (2019) *Journal of Food Biochemistry*, 43 (7), art. no. e12875
DOI: 10.1111/jfbc.12875

Miranda Mendonça, A.P., Hoppe, L.Y., Gaviraghi, A., Araújo-Jorge, T.C.D., de Oliveira, G.M., Felipe, R.M., Oliveira, M.F., da Silva Fragoso, V.M. Highly aggressive behavior induced by social stress is associated to reduced cytochrome c oxidase activity in mice brain cortex (2019) *Neurochemistry International*, 126, pp. 210-217.
DOI: 10.1016/j.neuint.2019.03.017

Sharma, S., Akundi, R.S. Mitochondria: A connecting link in the major depressive disorder jigsaw (2019) *Current Neuropharmacology*, 17 (6), pp. 550-562.
DOI: 10.2174/1570159X16666180302120322

Zhu, L., Yi, X., Zhao, J., Yuan, Z., Wen, L., Poznaniak, B., Obminska-Mrukowicz, B., Tian, Y., Tan, Z., Wu, J., Yi, J. Betulinic acid attenuates dexamethasone-induced oxidative damage through the JNK-P38 MAPK signaling pathway in mice (2018) *Biomedicine and Pharmacotherapy*, 103, pp. 499-508. Cited 28 times.
DOI: 10.1016/j.biopha.2018.04.073

Huang, Y., Cai, G.-Q., Peng, J.-P., Shen, C. Glucocorticoids induce apoptosis and matrix metalloproteinase-13 expression in chondrocytes through the NOX4/ROS/p38 MAPK pathway (2018) *Journal of Steroid Biochemistry and Molecular Biology*, 181, pp. 52-62. Cited 23 times.
DOI: 10.1016/j.jsbmb.2018.03.001

Picard, M., McEwen, B.S. Psychological Stress and Mitochondria: A Systematic Review (2018) *Psychosomatic Medicine*, 80 (2), pp. 141-153.
DOI: 10.1097/PSY.0000000000000545

He, Y., Zhang, L., Zhu, Z., Xiao, A., Yu, H., Gan, X. Blockade of cyclophilin D rescues dexamethasone-induced oxidative stress in gingival tissue (2017) *PLoS ONE*, 12 (3), art. no. e0173270
DOI: 10.1371/journal.pone.0173270

Sumis, A., Cook, K.L., Andrade, F.O., Hu, R., Kidney, E., Zhang, X., Kim, D., Carney, E., Nguyen, N., Yu, W., Bouker, K.B., Cruz, I., Clarke, R., Hilakivi-Clarke, L. Social isolation induces autophagy in the mouse mammary gland: Link to increased mammary cancer risk (2016) *Endocrine-Related Cancer*, 23 (10), pp. 839-856.
DOI: 10.1530/ERC-16-0359

Li, X.-C., Wu, Y.-H., Bai, X.-D., Ji, W., Guo, Z.-M., Wang, C.-F., He, Q., Ruan, D.-K. BMP7-Based Functionalized Self-Assembling Peptides Protect Nucleus Pulposus-Derived Stem Cells from Apoptosis in Vitro (2016) *Tissue Engineering - Part A*, 22 (19-20), pp. 1218-1228.
DOI: 10.1089/ten.tea.2016.0230

Inta, I., Vogt, M.A., Vogel, A.S., Bettendorf, M., Gass, P., Inta, D. Minocycline exacerbates apoptotic neurodegeneration induced by the NMDA receptor antagonist MK-801 in the early postnatal mouse brain (2016) *European Archives of Psychiatry and Clinical Neuroscience*, 266 (7), pp. 673-677
DOI: 10.1007/s00406-015-0649-2

Suwanjang, W., Abramov, A.Y., Charngkaew, K., Govitrapong, P., Chetsawang, B. Melatonin prevents cytosolic calcium overload, mitochondrial damage and cell death due to toxically high doses of dexamethasone-induced oxidative stress in human neuroblastoma SH-SY5Y cells (2016) *Neurochemistry International*, 97, pp. 34-41.
DOI: 10.1016/j.neuint.2016.05.003

Inta, I., Bettendorf, M., Gass, P. Conserved Hypothalamic c-Fos Activation Pattern Induced by the mGlu5 Receptor Antagonist MPEP during Peri-pubertal Development in Mice (2016) *Pharmacopsychiatry*, 49 (4), pp. 142-145.
DOI: 10.1055/s-0042-105018

Haj-Mirzaian, A., Amiri, S., Amini-Khoei, H., Rahimi-Balaei, M., Kordjazy, N., Olson, C.O., Rastegar, M., Naserzadeh, P., Marzban, H., Dehpour, A.R., Hosseini, M.-J., Samiei, E., Mehr, S.E. Attenuation of oxidative and nitrosative stress in cortical area associates with antidepressant-like effects of tropisetron in male mice following social isolation stress (2016) *Brain Research Bulletin*, 124, pp. 150-163.
DOI: 10.1016/j.brainresbull.2016.04.018

Yi, J., Zhu, R., Wu, J., Wu, J., Xia, W., Zhu, L., Jiang, W., Xiang, S., Tan, Z. In vivo protective effect of betulinic acid on dexamethasone induced thymocyte apoptosis by reducing oxidative stress (2016) *Pharmacological Reports*, 68 (1), pp. 95-100.
DOI: 10.1016/j.pharep.2015.07.003

Jiang, P., Zhu, T., Xia, Z., Gao, F., Gu, W., Chen, X., Yuan, T., Yu, H. Inhibition of MAPK/ERK signaling blocks hippocampal neurogenesis and impairs cognitive performance in prenatally infected neonatal rats (2015) *European Archives of Psychiatry and Clinical Neuroscience*, 265 (6), pp. 497-509
DOI: 10.1007/s00406-015-0588-y

Brunst, K.J., Baccarelli, A.A., Wright, R.J. Integrating mitochondriomics in children's environmental health (2015) *Journal of Applied Toxicology*, 35 (9), pp. 976-991.
DOI: 10.1002/jat.3182

Yi, J., Zhu, R., Wu, J., Wu, J., Tan, Z. Ameliorative effect of betulinic acid on oxidative damage and apoptosis in the splenocytes of dexamethasone treated mice (2015) *International Immunopharmacology*, 27 (1), pp. 85-94.
DOI: 10.1016/j.intimp.2015.04.050

Amiri, S., Haj-Mirzaian, A., Rahimi-balaei, M., Razmi, A., Kordjazy, N., Shirzadian, A., Ejtemaei Mehr, S., Sianati, H., Dehpour, A.R. Co-occurrence of anxiety and depressive-like behaviors following adolescent social isolation in male mice; possible role of nitrenergic system (2015) *Physiology and Behavior*, 145, pp. 38-44.

DOI: 10.1016/j.physbeh.2015.03.032

Ebrahimzadeh Bideskan, A.R., Lale Ataei, M., Mansouri, S., Hosseini, M. The effects of tamoxifen and soy on dark neuron production in hippocampal formation after pentylenetetrazole-induced repeated seizures in rats (2015) *Pathophysiology*, 22 (2), pp. 125-135.

DOI: 10.1016/j.pathophys.2015.04.001

Fowler, A.-K., Thompson, J., Chen, L., Dagda, M., Dertien, J., Dossou, K.S.S., Moaddel, R., Bergeson, S.E., Kruman, I.I. Differential sensitivity of prefrontal cortex and hippocampus to alcohol-induced toxicity (2014) *PLoS ONE*, 9 (9), art. no. e106945,

DOI: 10.1371/journal.pone.0106945

Antoniazzi, C.T.D., Boufleur, N., Dolci, G., Roversi, K., Kuhn, F., Pase, C.S., Dias, V.T., Roversi, K., Barcelos, R., Benvegnú, D.M., Bürger, M.E. Influence of neonatal tactile stimulation on amphetamine preference in young rats: Parameters of addiction and oxidative stress (2014) *Pharmacology Biochemistry and Behavior*, 124, pp. 341-349.

DOI: 10.1016/j.pbb.2014.07.001

Reihani Kermani, H., Hoboubati, H., Esmaeili-Mahani, S., Asadi-Shekaari, M. Induction of intervertebral disc cell apoptosis and degeneration by chronic unpredictable stress: Laboratory investigation (2014) *Journal of Neurosurgery: Spine*, 20 (5), pp. 578-584.

DOI: 10.3171/2014.1.SPINE13466

Suwanjang, W., Abramov, A.Y., Govitrapong, P., Chetsawang, B. Melatonin attenuates dexamethasone toxicity-induced oxidative stress, calpain and caspase activation in human neuroblastoma SH-SY5Y cells (2013) *Journal of Steroid Biochemistry and Molecular Biology*, 138, pp. 116-122.

DOI: 10.1016/j.jsbmb.2013.04.008

Djordjevic, A., Djordjevic, J., Elaković, I., Adzic, M., Matic, G., Radojic, M.B. Effects of fluoxetine on plasticity and apoptosis evoked by chronic stress in rat prefrontal cortex (2012) *European Journal of Pharmacology*, 693 (1-3), pp. 37-44.

DOI: 10.1016/j.ejphar.2012.07.042

Marcolin, M.D.L., Benitz, A.D.N.D., Arcego, D.M., Noschang, C., Krolow, R., Dalmaz, C. Effects of early life interventions and palatable diet on anxiety and on oxidative stress in young rats (2012) *Physiology and Behavior*, 106 (4), pp. 491-498.

DOI: 10.1016/j.physbeh.2012.03.025

HIF-1 α response to hypoxia is functionally separated from the glucocorticoid stress response in the in vitro regenerating human skeletal muscle

Pirkmajer, S., Filipovic, D., Mars, T., Mis, K., Grubic, Z.

American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299(6)

Heterocitati 13 :

Citiran u :

Milić, N.Š., Dolinar, K., Miš, K., Matkovič, U., Bizjak, M., Pavlin, M., Podbregar, M., Pirkmajer, S. Suppression of pyruvate dehydrogenase kinase by dichloroacetate in cancer and skeletal muscle cells is isoform specific and partially independent of HIF-1 α (2021) *International Journal of Molecular Sciences*, 22 (16), art. no. 8610,

DOI: 10.3390/ijms22168610

Kacin, A., Drobnič, M., Marš, T., Miš, K., Petrič, M., Weber, D., Tomc Žargi, T., Martinčič, D., Pirkmajer, S. Functional and molecular adaptations of quadriceps and hamstring muscles to blood flow restricted training in patients with ACL rupture (2021) *Scandinavian Journal of Medicine and Science in Sports*, 31 (8), pp. 1636-1646.

DOI: 10.1111/sms.13968

Pirkmajer, S., Bezjak, K., Matkovič, U., Dolinar, K., Jiang, L.Q., Miš, K., Gros, K., Milovanova, K., Pirkmajer, K.P., Marš, T., Kapilevich, L., Chibalin, A.V. Ouabain Suppresses IL-6/STAT3 Signaling and Promotes Cytokine Secretion in Cultured Skeletal Muscle Cells (2020) *Frontiers in Physiology*, 11, art. no. 566584,

DOI: 10.3389/fphys.2020.566584

Mars, T., Mis, K., Katalinic, M., Pegan, K., Grubic, Z., Pirkmajer, S. The effects of organophosphates in the early stages of human skeletal muscle regeneration (2020) *Handbook of Toxicology of Chemical Warfare Agents*, pp. 829-841.

DOI: 10.1016/B978-0-12-819090-6.00049-0

Novianti, T., Juniantito, V., Jusuf, A.A., Arida, E.A., Jusman, S.W.A., Sadikin, M. Expression and role of HIF-1 α and HIF-2 α in tissue regeneration: a study of hypoxia in house gecko tail regeneration (2019) *Organogenesis*, 15 (3), pp. 69-84.

DOI: 10.1080/15476278.2019.1644889

Dolinar, K., Jan, V., Pavlin, M., Chibalin, A.V., Pirkmajer, S. Nucleosides block AICAR-stimulated activation of AMPK in skeletal muscle and cancer cells (2018) *American Journal of Physiology - Cell Physiology*, 315 (6), pp. C803-C817.

DOI: 10.1152/ajpcell.00311.2017

Favier, F.B., Britto, F.A., Freyssenet, D.G., Bigard, X.A., Benoit, H. HIF-1-driven skeletal muscle adaptations to chronic hypoxia: Molecular insights into muscle physiology (2015) *Cellular and Molecular Life Sciences*, 72 (24), pp. 4681-4696

DOI: 10.1007/s00018-015-2025-9

Mars, T., Mis, K., Pirkmajer, S., Katalinic, M., Grubic, Z. The Effects of Organophosphates in the Early Stages of Human Muscle Regeneration (2015) *Handbook of Toxicology of Chemical Warfare Agents: Second Edition*, pp. 751-759.

DOI: 10.1016/B978-0-12-800159-2.00051-8

Gros, K., Parato, G., Pirkmajer, S., Mis, K., Podbregar, M., Grubic, Z., Lorenzon, P., Mars, T. Non-synaptic roles of acetylcholinesterase and agrin (2014) *Journal of Molecular Neuroscience*, 53 (3), pp. 454-460.

DOI: 10.1007/s12031-013-0188-0

Katalinič, M., Miš, K., Pirkmajer, S., Grubič, Z., Kovarik, Z., Marš, T. The cholinergic and non-cholinergic effects of organophosphates and oximes in cultured human myoblasts (2013) *Chemico-Biological Interactions*, 203 (1), pp. 144-148.

DOI: 10.1016/j.cbi.2012.09.015

Podbregar, M., Lainscak, M., Prelovsek, O., Mars, T. Cytokine response of cultured skeletal muscle cells stimulated with proinflammatory factors depends on differentiation stage (2013) *The Scientific World Journal*, 2013, art. no. 617170,

DOI: 10.1155/2013/617170

Jurdana, M., Cemazar, M., Pegan, K., Mars, T. Effect of ionizing radiation on human skeletal muscle precursor cells (2013) *Radiology and Oncology*, 47 (4), pp. 376-381.

DOI: 10.2478/raon-2013-0058

DOCUMENT TYPE: Conference Paper

Du Souich, P., Fradette, C. The effect and clinical consequences of hypoxia on cytochrome P450, membrane carrier proteins activity and expression (2011) *Expert Opinion on Drug Metabolism and Toxicology*, 7 (9), pp. 1083-1100.
DOI: 10.1517/17425255.2011.586630

Acute and/or chronic stress models modulate CuZnSOD and MnSOD protein expression in rat liver

[Filipović, D.](#), [Mandić, L.M.](#), [Kanazir, D.](#), [Pajović, S.B.](#)

Molecular and Cellular Biochemistry, 2010, 338(1-2), pp. 167–174

Heterocitati 6 :

Citiran u :

Todorović Vukotić, N., Đorđević, J., Pejić, S., Đorđević, N., Pajović, S.B. Antidepressants- and antipsychotics-induced hepatotoxicity (2021) *Archives of Toxicology*, 95 (3), pp. 767-789.

DOI: 10.1007/s00204-020-02963-4

Moreno-Villanueva, M., Von Scheven, G., Feiveson, A., Bürkle, A., Wu, H., Goel, N. The degree of radiation-induced DNA strand breaks is altered by acute sleep deprivation and psychological stress and is associated with cognitive performance in humans (2018) *Sleep*, 41 (7).

DOI: 10.1093/sleep/zsy067

Picard, M., McEwen, B.S. Psychological Stress and Mitochondria: A Systematic Review (2018)

Psychosomatic Medicine, 80 (2), pp. 141-153.

DOI: 10.1097/PSY.0000000000000545

Khaksar, M., Oryan, A., Sayyari, M., Rezagahsh, A., Rahbarghazi, R. Protective effects of melatonin on long-term administration of fluoxetine in rats (2017) *Experimental and Toxicologic Pathology*, 69 (8), pp. 564-574.

Carillon, J., Romain, C., Bardy, G., Fouret, G., Feillet-Coudray, C., Gaillet, S., Lacan, D., Cristol, J.-P., Rouanet, J.-M. Cafeteria diet induces obesity and insulin resistance associated with oxidative stress but not with inflammation: Improvement by dietary supplementation with a melon superoxide dismutase (2013) *Free Radical Biology and Medicine*, 65, pp. 254-261.

DOI: 10.1016/j.freeradbiomed.2013.06.022

Kalaz, E.B., Evran, B., Develi-Iş, S., Vural, P., Dođru-Abbasođlu, S., Uysal, M. Effect of carnosine on prooxidant-antioxidant balance in several tissues of rats exposed to chronic cold plus immobilization stress (2012) *Journal of Pharmacological Sciences*, 120 (2), pp. 98-104.

DOI: 10.1254/jphs.12107FP

The effect of acute or/and chronic stress on the MnSOD protein expression in rat prefrontal cortex and hippocampus

[Filipović, D.](#), [Zlatković, J.](#), [Pajović, S.B.](#)

General Physiology and Biophysics, 2009, 28(SPECIAL ISSUES), pp. 53–61

Heterocitati 8 :

Citiran u :

P, A., Bulbule, S.R., N, H., G, A., R.L, B., K.S, D. Elevation of gene expression of Btg2, Gadd 153, and antioxidant markers in RONS-induced PC12 cells (2020) *Beni-Suef University Journal of Basic and Applied Sciences*, 9 (1), art. no. 53,

DOI: 10.1186/s43088-020-00080-w

Rappeneau, V., Wilmes, L., Touma, C. Molecular correlates of mitochondrial dysfunctions in major depression: Evidence from clinical and rodent studies (2020) *Molecular and Cellular Neuroscience*, 109, art. no. 103555, DOI: 10.1016/j.mcn.2020.103555

Mocelin, R., Marcon, M., D'ambros, S., Mattos, J., Sachett, A., Siebel, A.M., Herrmann, A.P., Piato, A. N-Acetylcysteine Reverses Anxiety and Oxidative Damage Induced by Unpredictable Chronic Stress in Zebrafish (2019) *Molecular Neurobiology*, 56 (2), pp. 1188-1195.
DOI: 10.1007/s12035-018-1165-y

Xia, N., Li, H. Loneliness, Social Isolation, and Cardiovascular Health (2018) *Antioxidants and Redox Signaling*, 28 (9), pp. 837-851.
DOI: 10.1089/ars.2017.7312

Córdova-Dávalos, L., Carrera-Calvo, D., Solís-Navarrete, J., Mercado-Gómez, O.F., Arriaga-Ávila, V., Agredano-Moreno, L.T., Jiménez-García, L.F., Guevara-Guzmán, R. Status epilepticus triggers early mitochondrial fusion in the rat hippocampus in a lithium-pilocarpine model (2016) *Epilepsy Research*, 123, pp. 11-19.
DOI: 10.1016/j.eplepsyres.2016.03.007

Mejia-Carmona, G.E., Gosselink, K.L., Pérez-Ishiwara, G., Martínez-Martínez, A. Oxidant/antioxidant effects of chronic exposure to predator odor in prefrontal cortex, amygdala, and hypothalamus (2015) *Molecular and Cellular Biochemistry*, 406 (1-2), pp. 121-129.
DOI: 10.1007/s11010-015-2430-2

Mejia-Carmona, G.E., Gosselink, K.L., de la Rosa, L.A., Pérez-Ishiwara, G., Martínez-Martínez, A. Evaluation of antioxidant enzymes in response to predator odor stress in prefrontal cortex and amygdala (2014) *Neurochemical Journal*, 8 (2), pp. 125-128.
DOI: 10.1134/S181971241402007X

Differential regulation of CuZnSOD expression in rat brain by acute and/or chronic stress

Filipović, D., Pajović, S.B.

Cellular and Molecular Neurobiology, 2009, 29(5), pp. 673–68

Heterocitati 17 :

Citiran u :

Grigoryan, G.A., Pavlova, I.V., Zaichenko, M.I. Effects of Social Isolation on the Development of Anxiety and Depression-Like Behavior in Model Experiments in Animals (2022) *Neuroscience and Behavioral Physiology*
DOI: 10.1007/s11055-022-01297-1

Grigoryan, G.A., Pavlova, L.V., Zaichenko, M.I. INFLUENCE OF SOCIAL ISOLATION ON DEVELOPMENT OF ANXIOUS AND DEPRESSIVE-LIKE BEHAVIOR IN EXPERIMENTAL ANIMAL MODELS (2021) *Zhurnal Vysshei Nervnoi Deyatelnosti Imeni I.P. Pavlova*, 71 (6), pp. 760-784.
DOI: 10.31857/S0044467721060058

Li, H., Xia, N. The role of oxidative stress in cardiovascular disease caused by social isolation and loneliness (2020) *Redox Biology*, 37, art. no. 101585
DOI: 10.1016/j.redox.2020.101585

Pacholko, A.G., Wotton, C.A., Bekar, L.K. Poor Diet, Stress, and Inactivity Converge to Form a "Perfect Storm" That Drives Alzheimer's Disease Pathogenesis (2019) *Neurodegenerative Diseases*, 19 (2), pp. 60-77.
DOI: 10.1159/000503451

Xia, N., Li, Loneliness, Social Isolation, and Cardiovascular Health (2018) *Antioxidants and Redox Signaling*, 28 (9), pp. 837-851.
DOI: 10.1089/ars.2017.7312

Gądek-Michalska, A., Bugajski, A., Tadeusz, J., Rachwalska, P., Bugajski, J. Chronic social isolation in adaptation of HPA axis to heterotypic stress (2017) *Pharmacological Reports*, 69 (6), pp. 1213-1223.
DOI: 10.1016/j.pharep.2017.08.011

Herrera, A.J., Espinosa-Oliva, A.M., Carrillo-Jiménez, A., Oliva-Martín, M.J., García-Revilla, J., García-Quintanilla, A., de Pablos, R.M., Venero, J.L. Relevance of chronic stress and the two faces of microglia in Parkinson's disease (2015) *Frontiers in Cellular Neuroscience*, 9 (AUGUST), art. no. 312, 17 p.
DOI: 10.3389/fncel.2015.00312

Saruta, J., To, M., Hayashi, T., Kawashima, R., Shimizu, T., Kamata, Y., Kato, M., Takeuchi, M., Tsukinoki, K. Relationship between brain-derived neurotrophic factor and stress in saliva and salivary glands (2014) *Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology*, 26 (3), pp. 379-389.
DOI: 10.1016/j.ajoms.2013.12.013

St-Louis, R., Parmentier, C., Grange-Messent, V., Mhaouty-Kodja, S., Hardin-Pouzet, H. Reactive oxygen species are physiological mediators of the noradrenergic signaling pathway in the mouse supraoptic nucleus (2014) *Free Radical Biology and Medicine*, 71, pp. 231-239
DOI: 10.1016/j.freeradbiomed.2014.03.024

Jung, J.M., Park, S.J., Lee, Y.W., Lee, H.E., Hong, S.I., Lew, J.H., Hong, E., Shim, J.S., Cheong, J.H., Ryu, J.H. The effects of a standardized *Acanthopanax koreanum* extract on stress-induced behavioral alterations in mice (2013) *Journal of Ethnopharmacology*, 148 (3), pp. 826-834.
DOI: 10.1016/j.jep.2013.05.019

Budni, J., Zomkowski, A.D., Engel, D., Santos, D.B., dos Santos, A.A., Moretti, M., Valvassori, S.S., Ornell, F., Quevedo, J., Farina, M., Rodrigues, A.L.S. Folic acid prevents depressive-like behavior and hippocampal antioxidant imbalance induced by restraint stress in mice (2013) *Experimental Neurology*, 240 (1), pp. 112-121.
DOI: 10.1016/j.expneurol.2012.10.024

Inoue, H., Maeda-Yamamoto, M., Nesumi, A., Murakami, A. Delphinidin-3-O-galactoside protects mouse hepatocytes from (-)-epigallocatechin-3-gallate-induced cytotoxicity via up-regulation of heme oxygenase-1 and heat shock protein 70 (2012) *Nutrition Research*, 32 (5), pp. 357-364.
DOI: 10.1016/j.nutres.2012.04.001

St-Louis, R., Parmentier, C., Raison, D., Grange-Messent, V., Hardin-Pouzet, H. Reactive oxygen species are required for the hypothalamic osmoregulatory response (2012) *Endocrinology*, 153 (3), pp. 1317-1329.
DOI: 10.1210/en.2011-1350

Jaggi, A.S., Bhatia, N., Kumar, N., Singh, N., Anand, P., Dhawan, R. A review on animal models for screening potential anti-stress agents (2011) *Neurological Sciences*, 32 (6), pp. 993-1005.
DOI: 10.1007/s10072-011-0770-6

Méndez-Cuesta, L.A., Márquez-Valadez, B., Pérez-De La Cruz, V., Escobar-Briones, C., Galván-Arzate, S., Alvarez-Ruiz, Y., Maldonado, P.D., Santana, R.A., Santamaría, A., Carrillo-Mora, P. Diazepam Blocks Striatal Lipid Peroxidation and Improves Stereotyped Activity in a Rat Model of Acute Stress (2011) *Basic and Clinical Pharmacology and Toxicology*, 109 (5), pp. 350-356.
DOI: 10.1111/j.1742-7843.2011.00738.x

Schaalan, M.F., Nassar, N.N. Effects of octreotide in chronically mild stressed rats: Possible role of immune and oxidative stress pathways (2011) *Neurochemical Research*, 36 (10), pp. 1717-1723.
DOI: 10.1007/s11064-011-0486-2

Méndez-Cuesta, L.A., Márquez-Valadez, B., Pérez-De la Cruz, V., Maldonado, P.D., Santana, R.A., Escobar-Briones, C., Galván-Arzate, S., Carrillo-Mora, P., Santamaría, A. Early Changes in Oxidative Stress Markers in a Rat Model of Acute Stress: Effect of L-carnitine on the Striatum

(2011) Basic and Clinical Pharmacology and Toxicology, 109 (2), pp. 123-129.
DOI: 10.1111/j.1742-7843.2011.00691.x

Liver glucocorticoid receptor and heat shock protein 70 levels in rats exposed to different stress models

Filipović, D., Gavrilović, L., Dronjak, S., Demajo, M., Radojčić, M.B.

Physiological Research, 2008, 57(2), pp. 204–213

Heterocitati 12 :

Citiran u :

Gonçalves, N.B., Bannitz, R.F., Silva, B.R., Becari, D.D., Poloni, C., Gomes, P.M., Foss, M.C., Foss-Freitas, M.C. α -Linolenic acid prevents hepatic steatosis and improves glucose tolerance in mice fed a high-fat diet (2018) Clinics, 73, art. no. e150]

DOI: 10.6061/CLINICS/2018/E150

López-Furelos, A., Leiro-Vidal, J.M., Salas-Sánchez, A., Ares-Pena, F.J., López-Martín, M.E. Evidence of cellular stress and caspase-3 resulting from a combined two-frequency signal in the cerebrum and cerebellum of sprague-dawley rats (2016) Oncotarget, 7 (40), pp. 64674-64689.

DOI: 10.18632/oncotarget.11753

Saputra, H.M., Mandia, S., Retnoaji, B., Wijayanti, N. Antioxidant properties of liverwort (*Marchantia polymorpha* L.) to lead-induced oxidative stress on HEK293 cells (2016) Journal of Biological Sciences, 16 (3), pp. 77-85.

DOI: 10.3923/jbs.2016.77.85

Fan, Z., Long, C., Chen, Y., Deng, J., Xin, W. Expressions of HSPs mRNA in different tissues of sows during late gestation stage in thermal environment (2014) Journal of Animal and Veterinary Advances, 13 (8), pp. 531-537.

DOI: 10.3923/javaa.2014.531.537

Negrato, E., Di Martino, G., Vascellari, M., Radaelli, G., Capello, K., Pascoli, F., Bertotto, D., Bonfanti, L. Expression of heat shock protein 70 in the liver of extensively and intensively kept heavy pigs (2013) Animal, 7 (8), pp. 1362-1366. Cited 4 times.

DOI: 10.1017/S1751731113000517

Li, Z., Ma, J., Liu, C., Ma, H., Guo, Z., Fu, B., Wang, L., Sun, J., Peng, F., Liu, D. Effects of cold stress on porcine fibroblasts HSP90 mRNA expression (2012) Advances in Intelligent and Soft Computing, 134 AISC, pp. 397-403.

DOI: 10.1007/978-3-642-27537-1_49

Jaggi, A.S., Bhatia, N., Kumar, N., Singh, N., Anand, P., Dhawan, R. A review on animal models for screening potential anti-stress agents (2011) Neurological Sciences, 32 (6), pp. 993-1005.

DOI: 10.1007/s10072-011-0770-6

Šimůnková, K., Hampl, R., Hill, M., Křž, L., Vrbíková, J., Kvasničková, H., Vondra, K. Evaluation of hepatic 11 β -hydroxysteroid dehydrogenase activity by cortisone acetate test in young adults with diabetes mellitus type 1 (2011) Physiological Research, 60 (2), pp. 263-270.

DOI: 10.33549/physiolres.932079

Konturek, P.C., Brzozowski, T., Burnat, G., Szlachcic, A., Koziel, J., Kwiecien, S., Konturek, S.J., Harsch, I.A. Gastric ulcer healing and stress-lesion preventive properties of pioglitazone are attenuated in diabetic rats (2010) Journal of Physiology and Pharmacology, 61 (4), pp. 429-436.

Mazurek, B., Stöver, T., Haupt, H., Klapp, B.F., Adli, M., Gross, J., Szczepek, A.J. The significance of stress: Its role in the auditory system and the pathogenesis of tinnitus [Bedeutung von Stress: Seine Rolle im auditorischen System und bei der Tinnitusentstehung] (2010) *HNO*, 58 (2), pp. 162-172.
DOI: 10.1007/s00106-009-2001-5

Chen, X., Li, M., Sun, W.-P., Bi, Y., Cai, M.-Y., Liang, H., Yu, Q.-Q., He, X.-Y., Weng, J.-P. Agonist-induced down-regulation of hepatic glucocorticoid receptor via peroxisome proliferator-activated receptor in SD rats (2009) *National Medical Journal of China*, 89 (46), pp. 3276-3279.
DOI: 10.3760/cma.j.issn.0376-2491.2009.46.010

Jin, H., Ma, K.-d., Hu, R., Chen, Y., Yang, F., Yao, J., Li, X.-t., Yang, P.-y. Analysis of expression and comparative profile of normal placental tissue proteins and those in preeclampsia patients using proteomic approaches (2008) *Analytica Chimica Acta*, 629 (1-2), pp. 158-164.
DOI: 10.1016/j.aca.2008.09.015

The effect of repeated physical exercise on hippocampus and brain cortex in stressed rats

Filipović, D., Gavrilović, L., Dronjak, S., Radojić, M.B.

Annals of the New York Academy of Sciences, 2007, 1096, pp. 207–219

Heterocitati 9 :

Citiran u :

Othman, H., López-Furelos, A., Leiro-Vidal, J.M., Ammari, M., Sakly, M., Abdelmelek, H., Salas-Sánchez, A.Á., Ares-Pena, F., López-Martín, E. Exposure to 2.45 ghz radiation triggers changes in hsp-70, glucocorticoid receptors and gfap biomarkers in rat brain (2021) *International Journal of Molecular Sciences*, 22 (10), art. no. 5103
DOI: 10.3390/ijms22105103

Peretti, A.L., Rosa, C.T., Errero, T.K., Baretta, V., Schneider, S.C.S., Bertolini, G.R.F. Behavioral assessment of rats through the forced-swimming test [Avaliação comportamental de ratos treinados em natação forçada] (2015) *Scientia Medica*, 25 (1), pp. 1-6
DOI: 10.15448/1980-6108.2015.1.20113

Behie, A.M., Pavelka, M.S.M. Fruit as a key factor in howler monkey population density: Conservation implications (2015) *Howler Monkeys: Behavior, Ecology, and Conservation*, pp. 357-382.
DOI: 10.1007/978-1-4939-1960-4_13

Riechers, R.G., Shuster, J.L., Bryan, K.J., Burant, C.J., Ball, S.L. Prior housing conditions and sleep loss may affect recovery from brain injury in rats: A pilot study (2013) *Journal of Rehabilitation Research and Development*, 50 (4), pp. 455-462.
DOI: 10.1682/JRRD.2012.04.0061

Lapmanee, S., Charoenphandhu, N., Krishnamra, N., Charoenphandhu, J. Anxiolytic-like actions of reboxetine, venlafaxine and endurance swimming in stressed male rats (2012) *Behavioural Brain Research*, 231 (1), pp. 20-28.
DOI: 10.1016/j.bbr.2012.02.037

Reisi, P., Babri, S., Alaei, H., Sharifi, M.R., Mohaddes, G., Noorbakhsh, S.M., Lashgari, R. Treadmill running improves long-term potentiation (LTP) defects in streptozotocin-induced diabetes at dentate gyrus in rats (2010) *Pathophysiology*, 17 (1), pp. 33-38.
DOI: 10.1016/j.pathophys.2009.06.001

Arunrut, T., Alejandre, H., Chen, M., Cha, J., Russo-Neustadt, A. Differential behavioral and neurochemical effects of exercise, reboxetine and citalopram with the forced swim test (2009) *Life Sciences*, 84 (17-18), pp. 584-589.
DOI: 10.1016/j.lfs.2009.02.005

Gesquiere, L.R., Khan, M., Shek, L., Wango, T.L., Wango, E.O., Alberts, S.C., Altmann, J. Coping with a challenging environment: Effects of seasonal variability and reproductive status on glucocorticoid concentrations of female baboons (*Papio cynocephalus*) (2008) *Hormones and Behavior*, 54 (3), pp. 410-416.

DOI: 10.1016/j.yhbeh.2008.04.007

Haack, D., Luu, H., Cho, J., Chen, M.J., Russo-Neustadt, A. Exercise reverses chronic stress-induced Bax oligomer formation in the cerebral cortex (2008) *Neuroscience Letters*, 438 (3), pp. 290-294. Cited 16 times.

DOI: 10.1016/j.neulet.2008.04.070

Brain glucocorticoid receptor and heat shock protein 70 levels in rats exposed to acute, chronic or combined stress

[Filipović, D.](#), [Gavrilović, L.](#), [Dronjak, S.](#), [Radojčić, M.B.](#)

Neuropsychobiology, 2005, 51(2), pp. 107–114

Heterocitati 30:

Citiran u :

Othman, H., López-Furelos, A., Leiro-Vidal, J.M., Ammari, M., Sakly, M., Abdelmelek, H., Salas-Sánchez, A.Á., Ares-Pena, F., López-Martín, E. Exposure to 2.45 ghz radiation triggers changes in hsp-70, glucocorticoid receptors and gfap biomarkers in rat brain (2021) *International Journal of Molecular Sciences*, 22 (10), art. no. 5103,

DOI: 10.3390/ijms22105103

Ambrocio-Ortiz, E., Pérez-Rubio, G., Ramírez-Venegas, A., Hernández-Zenteno, R., Del Angel-Pablo, A.D., Pérez-Rodríguez, M.E., Salazar, A.M., Abarca-Rojano, E., Falfán-Valencia, R. Effect of SNPs in HSP Family Genes, Variation in the mRNA and Intracellular Hsp Levels in COPD Secondary to Tobacco Smoking and Biomass-Burning Smoke (2020) *Frontiers in Genetics*, 10, art. no. 1307,

DOI: 10.3389/fgene.2019.01307

Liu, J., Li, G., Chen, Y.-Z., Zhang, L.-D., Wang, T., Wen, Z.-L., Wang, L., Chen, D.-C., Chen, L.-M. Effects of rhubarb on the expression of glucocorticoids receptor and regulation of cellular immunity in burn-induced septic rats (2019) *Chinese Medical Journal*, 132 (10), pp. 1188-1193.

DOI: 10.1097/CM9.000000000000002

Murphy, M.O., Cohn, D.M., Loria, A.S. Developmental origins of cardiovascular disease: Impact of early life stress in humans and rodents (2017) *Neuroscience and Biobehavioral Reviews*, 74, pp. 453-465. \

DOI: 10.1016/j.neubiorev.2016.07.018

Chandrasekhar, Y., Ramya, E.M., Navya, K., Phani Kumar, G., Anilakumar, K.R. Antidepressant like effects of hydrolysable tannins of *Terminalia catappa* leaf extract via modulation of hippocampal plasticity and regulation of monoamine neurotransmitters subjected to chronic mild stress (CMS) (2017)

Biomedicine and Pharmacotherapy, 86, pp. 414-425.

DOI: 10.1016/j.biopha.2016.12.031

Loria, A.S., Osborn, J.L. Maternal separation diminishes α -adrenergic receptor density and function in renal vasculature from male Wistar-Kyoto rats (2017) *American Journal of Physiology - Renal Physiology*, 313 (1), pp. F47-F54.

DOI: 10.1152/ajprenal.00591.2016

Chen, Z.-Y., Zhang, X.-W., Yu, L., Hua, R., Zhao, X.-P., Qin, X., Zhang, Y.-M. Spinal toll-like receptor 4-mediated signalling pathway contributes to visceral hypersensitivity induced by neonatal colonic irritation in rats (2015) *European Journal of Pain (United Kingdom)*, 19 (2), pp. 176-186.

DOI: 10.1002/ejp.534

Tramullas, M., Finger, B.C., Moloney, R.D., Golubeva, A.V., Moloney, G., Dinan, T.G., Cryan, J.F. Toll-like receptor 4 regulates chronic stress-induced visceral pain in mice (2014) *Biological Psychiatry*, 76 (4), pp. 340-348.

DOI: 10.1016/j.biopsych.2013.11.004

Cruces, J., Venero, C., Pereda-Pérez, I., De La Fuente, M. The effect of psychological stress and social isolation on neuroimmunoendocrine communication (2014) *Current Pharmaceutical Design*, 20 (29), pp. 4608-4628.

DOI: 10.2174/1381612820666140130205822

Wu, T.-C., Chen, H.-T., Chang, H.-Y., Yang, C.-Y., Hsiao, M.-C., Cheng, M.-L., Chen, J.-C. Mineralocorticoid receptor antagonist spironolactone prevents chronic corticosterone induced depression-like behavior (2013) *Psychoneuroendocrinology*, 38 (6), pp. 871-883.

DOI: 10.1016/j.psyneuen.2012.09.011

Ahmad, A., Rasheed, N., Gupta, P., Ashraf, G.M, Singh, S., Chand, K., Maurya, R., Palit, G. Novel *Ocimum sanctum* compounds modulate stress response: Role of CRF, POMC, GR and HSP-70 in the hypothalamus and pituitary of rats (2013) *Medicinal Plants*, 5 (4), pp. 194-201.

DOI: 10.5958/j.0975-6892.5.4.031

Everds, N.E., Snyder, P.W., Bailey, K.L., Bolon, B., Creasy, D.M., Foley, G.L., Rosol, T.J., Sellers, T. Interpreting Stress Responses during Routine Toxicity Studies: A Review of the Biology, Impact, and Assessment (2013) *Toxicologic Pathology*, 41 (4), pp. 560-614.

DOI: 10.1177/0192623312466452

Ashkenazi, L., Haim, A. Effect of Light at Night on oxidative stress markers in Golden spiny mice (*Acomys russatus*) liver (2013) *Comparative Biochemistry and Physiology - A Molecular and Integrative Physiology*, 165 (3), pp. 353-357

DOI: 10.1016/j.cbpa.2013.04.013

Ashkenazi, L., Haim, A. Light interference as a possible stressor altering HSP70 and its gene expression levels in brain and hepatic tissues of golden spiny mice (2012) *Journal of Experimental Biology*, 215 (22), pp. 4034-4040.

DOI: 10.1242/jeb.073429

Fan, S.J., Jiang, H., Yang, L.-J., Liu, X., Song, J., Pan, F. Effects of adrenergic agents on stress-induced brain microstructural and immunochemical changes in adult male Wistar rats (2011) *Annals of Anatomy*, 193 (5), pp. 418-424.

DOI: 10.1016/j.aanat.2011.06.001

Tosa, N., Fukumoto, T., Miyazaki, T. The functional role of the glucocorticoid receptor (Gr) and Nur77 in thymocyte development (2011) *Nuclear Receptors*, pp. 67-86.

Liu, X., Yang, L.J., Fan, S.J., Jiang, H., Pan, F. Swimming exercise effects on the expression of HSP70 and iNOS in hippocampus and prefrontal cortex in combined stress (2010) *Neuroscience Letters*, 476 (2), pp. 99-103.

DOI: 10.1016/j.neulet.2010.04.011

Gigi, A. The role of stress and anxiety in the onset of familial creutzfeldt-Jakob Disease (CJD): Review (2009) *Stress*, 12 (5), pp. 371-378

DOI: 10.1080/10253890802508520

Marinova, Z., Ren, M., Wendland, J.R., Leng, Y., Liang, M.-H., Yasuda, S., Leeds, P., Chuang, D.-M. Valproic acid induces functional heat-shock protein 70 via Class I histone deacetylase inhibition in cortical neurons: A potential role of Sp1 acetylation (2009) *Journal of Neurochemistry*, 111 (4), pp. 976-987.

DOI: 10.1111/j.1471-4159.2009.06385.x

Djordjevic, A., Adzic, M., Djordjevic, J., Radojicic, M.B. Stress type dependence of expression and cytoplasmic-nuclear partitioning of glucocorticoid receptor, Hsp90 and Hsp70 in Wistar rat brain (2009) *Neuropsychobiology*, 59 (4), pp. 213-221.
DOI: 10.1159/000223733

Du, J., McEwen, B., Manji, H.K. Glucocorticoid receptors modulate mitochondrial function: A novel mechanism for neuroprotection (2009) *Communicative and Integrative Biology*, 2 (4), pp. 350-352.
DOI: 10.4161/cib.2.4.8554

Huang, W.-C. Heat tolerance obtaining and response of heat shock protein 70 to exercise (2008) *Journal of Clinical Rehabilitative Tissue Engineering Research*, 12 (24), pp. 4735-4739.

Stamatakis, A., Pondiki, S., Kitraki, E., Diamantopoulou, A., Panagiotaropoulos, T., Raftogianni, A., Stylianopoulou, F. Effect of neonatal handling on adult rat spatial learning and memory following acute stress (2008) *Stress*, 11 (2), pp. 148-159.
DOI: 10.1080/10253890701653039

Spasojević, N., Gavrilović, L., Kovačević, I., Dronjak, S. Endocrinological and behavioural effects of chronic fluxilan administration in rats (2007) *Journal of Medical Biochemistry*, 26 (4), pp. 274-279.
DOI: 10.2478/v10011-007-0033-5

Guzhova, I., Margulis, B. Hsp70 Chaperone as a Survival Factor in Cell Pathology (2006) *International Review of Cytology*, 254, pp. 101-149.
DOI: 10.1016/S0074-7696(06)54003-3

Pan, F., Lu, C.-Y., Song, J., Jing, H., Li, Q., Yu, H.-L., Chen, X.-Y. Short communication: Different duration of crowding and noise exposure effects on exploratory behavior, cellular immunity and HSP70 expression in rats (2006) *Stress and Health*, 22 (4), pp. 257-262.
DOI: 10.1002/smi.1103

Kim, E.-K., Park, J.D., Shim, S.-Y., Kim, H.-S., Kim, B.I., Choi, J.-H., Kim, J.E. Effect of chronic hypoxia on proliferation, apoptosis, and HSP70 expression in mouse bronchiolar epithelial cells (2006) *Physiological Research*, 55 (4), pp. 405-411.

Li, M., Ling, C.-Q., Huang, X.-Q., Shen, Z.-L. Effects of ginsenosides extracted from ginseng stem and leaves on glucocorticoid receptor in different viscera in heat-damaged rats (2006) *Journal of Chinese Integrative Medicine*, 4 (2), pp. 156-159.
DOI: 10.3736/jcim20060210

Qi, L., Pan, F., Chen, X.-Y., Jiang, H., Zhang, H.-J., Yu, H.-L., Lu, C.-Y. HSP70 expression in the hippocampal CA3 subfield in different chronic stress models (2006) *Chinese Journal of Physiology*, 49 (3), pp. 119-125.

Serra, M., Pisu, M.G., Floris, I., Biggio, G. Social isolation-induced changes in the hypothalamic-pituitary-adrenal axis in the rat (2005) *Stress*, 8 (4), pp. 259-264.
DOI: 10.1080/10253890500495244

Superoxide dismutase activity in various fractions of full bovine milk

Filipović, D., Kasapović, J., Pejić, S., ...Pajović, S.B., Radojčić, M.B.

Acta Alimentaria, 2005, 34(3), pp. 219–226

Heterocitati 3:

Citiran u :

Li, Y., Chen, D., Li, J., Zhang, X.-X., Wang, C.-F., Wang, J.-M. Changes in superoxide dismutase activity postpartum from Laoshan goat milk and factors influencing its stability during processing (2018) *Italian Journal of Animal Science*, 17 (4), pp. 835-844. 7
DOI: 10.1080/1828051X.2018.1448306

Pajović, S.B., Radojčić, M.B., Kanazir, D.T. Neuroendocrine and oxidoreductive mechanisms of stress-induced cardiovascular diseases (2008) *Physiological Research*, 57 (3), pp. 327-338.

Hamed, H., El Feki, A., Gargouri, A. Total and differential bulk cow milk somatic cell counts and their relation with antioxidant factors (2008) *Comptes Rendus - Biologies*, 331 (2), pp. 144-151.
DOI: 10.1016/j.cvi.2007.11.008

CuZn superoxide dismutase in the hippocampus and brain cortex of rats exposed to various stress conditions

[Filipović, D.](#), [Radojčić, M.B.](#)

Annals of the New York Academy of Sciences, 2005, 1048, pp. 366–368

Heterocitati 4:

Citiran u :

Villanueva, I., Alva-Sánchez, C., Pacheco-Rosado, J. The role of thyroid hormones as inducers of oxidative stress and neurodegeneration (2013) *Oxidative Medicine and Cellular Longevity*, art. no. 218145
DOI: 10.1155/2013/218145

Wang, Z.-J., Liang, C.-L., Li, G.-M., Yu, C.-Y., Yin, M.; Stearic acid protects primary cultured cortical neurons against oxidative stress (2007) *Acta Pharmacologica Sinica*, 28 (3), pp. 315-326.
DOI: 10.1111/j.1745-7254.2007.00512.x

Consiglio, A.R. Depression under the perspective of oxytocin (2006) *Central Nervous System Agents in Medicinal Chemistry*, 6 (4), pp. 293-310. Cited 2 times.
DOI: 10.2174/187152406779010868

Wang, Z.-J., Liang, C.-L., Li, G.-M., Yu, C.-Y., Yin, M. Neuroprotective effects of arachidonic acid against oxidative stress on rat hippocampal slices (2006) *Chemico-Biological Interactions*, 163 (3), pp. 207-217.
DOI: 10.1016/j.cbi.2006.08.005

Immobilization and cold stress affect sympatho-adrenomedullary system and pituitary-adrenocortical axis of rats exposed to long-term isolation and crowding

[Dronjak, S.](#), [Gavrilović, L.](#), [Filipović, D.](#), [Radojčić, M.B.](#)

Physiology and Behavior, 2004, 81(3), pp. 409–415

Heterocitati 91:

Citiran u :

Gazarini, L., Stern, C.A., Takahashi, R.N., Bertoglio, L.J. Interactions of Noradrenergic, Glucocorticoid and Endocannabinoid Systems Intensify and Generalize Fear Memory Traces (2022) *Neuroscience*, 497, pp. 118-133.
DOI: 10.1016/j.neuroscience.2021.09.012

Güven, E.B., Pranic, N.M., Unal, G. The differential effects of brief environmental enrichment following social isolation in rats (2022) *Cognitive, Affective and Behavioral Neuroscience*, 22 (4), pp. 818-832.
DOI: 10.3758/s13415-022-00989-y

Kawakami, K., Matsuo, H., Kajitani, N., Yamada, T., Matsumoto, K.-I. Comparison of survival rates in four inbred mouse strains under different housing conditions: effects of environmental enrichment

(2022) *Experimental Animals*, 71 (2), pp. 150-160.
DOI: 10.1538/expanim.21-0118

Tran, H., Sagi, V., Jarrett, S., Palzer, E.F., Badgaiyan, R.D., Gupta, K. Diet and companionship modulate pain via a serotonergic mechanism (2021) *Scientific Reports*, 11 (1), art. no. 2330
DOI: 10.1038/s41598-021-81654-1

Luo, L., Wang, L., Luo, Y., Romero, E., Yang, X., Liu, M. Glucocorticoid/adiponectin axis mediates full activation of cold-induced beige fat thermogenesis (2021) *Biomolecules*, 11 (11), art. no. 1573,
DOI: 10.3390/biom11111573

Perry, C.J., Campbell, E.J., Drummond, K.D., Lum, J.S., Kim, J.H. Sex differences in the neurochemistry of frontal cortex: Impact of early life stress (2021) *Journal of Neurochemistry*, 157 (4), pp. 963-981. \n
DOI: 10.1111/jnc.15208

Wang, L., Nabi, G., Zhang, T., Wu, Y., Li, D. Potential Neurochemical and Neuroendocrine Effects of Social Distancing Amidst the COVID-19 Pandemic (2020) *Frontiers in Endocrinology*, 11, art. no. 582288,
DOI: 10.3389/fendo.2020.582288

Dasgupta, R., Saha, I., Ray, P.P., Maity, A., Pradhan, D., Sarkar, H.P., Maiti, B.R. Arecoline plays dual role on adrenal function and glucose-glycogen homeostasis under thermal stress in mice (2020) *Archives of Physiology and Biochemistry*, 126 (3), pp. 214-224.
DOI: 10.1080/13813455.2018.1508238

Vlachos, I.I., Papageorgiou, C., Margariti, M. Neurobiological trajectories involving social isolation in PTSD: A systematic review (2020) *Brain Sciences*, 10 (3), art. no. 173
DOI: 10.3390/brainsci10030173

Shen, J., Hanif, Q., Cao, Y., Yu, Y., Lei, C., Zhang, G., Zhao, Y. Whole Genome Scan and Selection Signatures for Climate Adaption in Yanbian Cattle (2020) *Frontiers in Genetics*, 11, art. no. 94
DOI: 10.3389/fgene.2020.00094

Nandam, L.S., Brazel, M., Zhou, M., Jhaveri, D.J. Cortisol and Major Depressive Disorder—Translating Findings From Humans to Animal Models and Back (2020) *Frontiers in Psychiatry*, 10, art. no. 974
DOI: 10.3389/fpsy.2019.00974

Kamar, S.S., Abdel Latif, N.S., Mohamed Elrefai, M.F., Amin, S.N. Gastroprotective effects of nebigolol and simvastatin against cold restraint stress-induced gastric ulcer in rats (2020) *Anatomy and Cell Biology*, 53 (3), pp. 301-312.
DOI: 10.5115/acb.19.055

Dawes, R.P., Burke, K.A., Byun, D.K., Xu, Z., Stastka, P., Chan, L., Brown, E.B., Madden, K.S. Chronic Stress Exposure Suppresses Mammary Tumor Growth and Reduces Circulating Exosome TGF- β Content via β -Adrenergic Receptor Signaling in MMTV-PyMT Mice (2020) *Breast Cancer: Basic and Clinical Research*, 14, \n
DOI: 10.1177/1178223420931511

Ross, A.P., McCann, K.E., Larkin, T.E., Song, Z., Grieb, Z.A., Huhman, K.L., Albers, H.E. Sex-dependent effects of social isolation on the regulation of arginine-vasopressin (AVP) V1a, oxytocin (OT) and serotonin (5HT) 1a receptor binding and aggression (2019) *Hormones and Behavior*, 116, art. no. 104578,
DOI: 10.1016/j.yhbeh.2019.104578

Pittet, F., Van Caenegem, N., Hicks-Nelson, A.R., Santos, H.P., Bradburn, S., Murgatroyd, C., Nephew, B.C. Maternal social environment affects offspring cognition through behavioural and immune pathways in rats (2019) *Journal of Neuroendocrinology*, 31 (9), art. no. e12711.
DOI: 10.1111/jne.12711

Bae, S.E., Richardson, R. Brief isolation during infancy enhances the formation of long-term memories in infant rodents (2019) *Behavioral Neuroscience*, 133 (4), pp. 437-447.
DOI: 10.1037/bne0000307

Yamaguchi, N., Mimura, K., Okada, S. GABAB receptors in the hypothalamic paraventricular nucleus (2019) *European Journal of Pharmacology*, 848, pp. 88-95.
DOI: 10.1016/j.ejphar.2019.01.029

Mazurek, B., Boecking, B., Brueggemann, P. Association Between Stress and Tinnitus-New Aspects (2019) *Otology and Neurotology*, 40 (4), pp. E467-E473
DOI: 10.1097/MAO.0000000000002180

Jacobson, M.L., Kim, L.A., Patro, R., Rosati, B., McKinnon, D. Common and differential transcriptional responses to different models of traumatic stress exposure in rats (2018) *Translational Psychiatry*, 8 (1), art. no. 165,
DOI: 10.1038/s41398-018-0223-6

Hofford, R.S., Prendergast, M.A., Bardo, M.T. Modified single prolonged stress reduces cocaine self-administration during acquisition regardless of rearing environment (2018) *Behavioural Brain Research*, 338, pp. 143-152.
DOI: 10.1016/j.bbr.2017.10.023

Luo, Y., Liu, B., Yang, X., Ma, X., Zhang, X., Bragin, D.E., Yang, X.O., Huang, W., Liu, M. Myeloid adrenergic signaling via CaMKII forms a feedforward loop of catecholamine biosynthesis (2017) *Journal of Molecular Cell Biology*, 9 (5), pp. 422-434.
DOI: 10.1093/jmcb/mjx046

Ueno, H., Suemitsu, S., Murakami, S., Kitamura, N., Wani, K., Okamoto, M., Matsumoto, Y., Ishihara, T. Region-specific impairments in parvalbumin interneurons in social isolation-reared mice (2017) *Neuroscience*, 359, pp. 196-208.
DOI: 10.1016/j.neuroscience.2017.07.016

Benderlioglu, Z., Dow, E. Low temperatures during ontogeny increase fluctuating asymmetry and reduce maternal aggression in the house mouse, *Mus musculus* (2017) *Ethology*, 123 (6-7), pp. 442-452. Cited 3 times.
DOI: 10.1111/eth.12614

Liu, F., Liu, Y.-P., Lei, G., Liu, P., Chu, Z., Gao, C.-G., Dang, Y.-H. Antidepressant effect of recombinant NT4-NAP/AAV on social isolated mice through intranasal route (2017) *Oncotarget*, 8 (6), pp. 10103-10113.
DOI: 10.18632/oncotarget.14356

Crestani, C.C. Emotional stress and cardiovascular complications in animal models: A review of the influence of stress type (2016) *Frontiers in Physiology*, 7, art. no. 251
DOI: 10.3389/fphys.2016.00251

Hassan, M.K.A., Aziz, N.M., Shaaban, M.A.E., Rifaai, R.A. Possible contribution of nitric oxide and prostaglandin in the protective effect of angiotensin (1-7) against stress induced gastric ulceration in adult male albino rats (2016) *Bratislava Medical Journal*, 117 (12), pp. 715-721.
DOI: 10.4149/BLL_2016_137

Puzserova, A., Bernatova, I. Blood pressure regulation in stress: Focus on nitric oxide-dependent mechanisms (2016) *Physiological Research*, 65, pp. S309-S342.
DOI: 10.33549/physiolres.933442

Lee, H.-J., Park, H.-J., Starkweather, A., An, K., Shim, I. Decreased Interleukin-4 Release from the Neurons of the Locus Coeruleus in Response to Immobilization Stress (2016) *Mediators of Inflammation*, 2016, art. no. 3501905, DOI: 10.1155/2016/3501905

Chauhan, E., Bali, A., Singh, N., Jaggi, A.S. Cross stress adaptation: Phenomenon of interactions between homotypic and heterotypic stressors (2015) *Life Sciences*, 137, pp. 98-104. DOI: 10.1016/j.lfs.2015.07.018

Cacioppo, J.T., Cacioppo, S., Capitanio, J.P., Cole, S.W. The neuroendocrinology of social isolation (2015) *Annual Review of Psychology*, 66, pp. 733-767. DOI: 10.1146/annurev-psych-010814-015240

El Khasmi, M., Chakir, Y., Bargaâ, R., Barka, K., Lektib, I., El Abbadi, N., Belhouari, A., Faye, B. Impact of transport distance on stress biomarkers levels in dromedary camel (*Camelus dromedarius*) (2015) *Emirates Journal of Food and Agriculture*, 27 (6), pp. 507-512. DOI: 10.9755/ejfa.2015.04.058

Lieberman, H.R., Thompson, L.A., Caruso, C.M., Niro, P.J., Mahoney, C.R., McClung, J.P., Caron, G.R. The catecholamine neurotransmitter precursor tyrosine increases anger during exposure to severe psychological stress (2015) *Psychopharmacology*, 232 (5), pp. 943-951. DOI: 10.1007/s00213-014-3727-7

Virchenko, O.V., Falalyeyeva, T.M., Beregova, T.V., Maryana, S.Y. The multistrain probiotic enhances the healing process of stress-induced lesions of the gastric mucosa of rats (2015) *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 6 (1), pp. 249-259.

Ericsson, M., Fallahsharoudi, A., Bergquist, J., Kushnir, M.M., Jensen, P. Domestication effects on behavioural and hormonal responses to acute stress in chickens (2014) *Physiology and Behavior*, 133, pp. 161-169. DOI: 10.1016/j.physbeh.2014.05.024

Vlachos, I.I., Barbatis, C., Tsopanomichalou, M., Abou-Assabeh, L., Goumas, K., Ginieri-Coccosis, M., Economou, M., Papadimitriou, G.N., Patsouris, E., Nicolopoulou-Stamati, P. Correlation between depression, anxiety, and polymorphonuclear cells' resilience in ulcerative colitis: The mediating role of heat shock protein 70 (2014) *BMC Gastroenterology*, 14 (1), art. no. 77, DOI: 10.1186/1471-230X-14-77

dos Valesa, L.D.F.M., Fukuda, M.T.H., Almeida, S.S. Effects of acute stress on learning and memory processes of malnourished rats (2014) *Psicologia: Reflexao e Critica*, 27 (4), pp. 784-793 DOI: 10.1590/1678-7153.201427419

Cacioppo, J.T., Cacioppo, S. Social relationships and health: The toxic effects of perceived social isolation (2014) *Social and Personality Psychology Compass*, 8 (2), pp. 58-72. DOI: 10.1111/spc3.12087

Smith, C., van Vuuren, M.J. Central and peripheral effects of *Sutherlandia frutescens* on the response to acute psychological stress (2014) *Experimental Biology and Medicine*, 239 (1), pp. 123-128. DOI: 10.1177/1535370213510253

Cacioppo, J.T., Cacioppo, S., Boomsma, D.I. Evolutionary mechanisms for loneliness (2014) *Cognition and Emotion*, 28 (1), pp. 3-21. DOI: 10.1080/02699931.2013.837379

Mariappan, S., Bogdanowicz, W., Marimuthu, G., Rajan, K.E. Distress calls of the greater short-nosed fruit bat *Cynopterus sphinx* activate hypothalamic-pituitary-adrenal (HPA) axis in conspecifics

(2013) *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, 199 (9), pp. 775-783.
DOI: 10.1007/s00359-013-0838-2

Ablimit, A., Kühnel, H., Strasser, A., Upur, H. Abnormal Savda syndrome: Long-term consequences of emotional and physical stress on endocrine and immune activities in an animal model (2013) *Chinese Journal of Integrative Medicine*, 19 (8), pp. 603-609.
DOI: 10.1007/s11655-012-1094-y

El-Moselhy, M.A., Nazmy, W.H. Involvement of PPAR- γ activation in no-mediated gastric ulcer healing in rats (2013) *Asian Journal of Pharmaceutical and Clinical Research*, 6 (SUPPL. 2), pp. 197-202.

Madden, K.S., Szpunar, M.J., Brown, E.B. Early impact of social isolation and breast tumor progression in mice (2013) *Brain, Behavior, and Immunity*, 30 (SUPPL.), pp. S135-S141.
DOI: 10.1016/j.bbi.2012.05.003

El Yamani, F.-Z., Yon, L., Guérin, M., El Ouezzani, S., Alaoui, A., Chartrel, N., Anouar, Y., Magoul, R. Immunocytochemical distribution of EM66 within the hypothalamic parvocellular paraventricular nucleus: Colocalization with CRH and TRH but no plasticity related to acute stress and thyroidectomy in the rat (2013) *Regulatory Peptides*, 182 (1), pp. 28-34
DOI: 10.1016/j.regpep.2012.12.008

Pereda-Pérez, I., Popović, N., Otalora, B.B., Popović, M., Madrid, J.A., Rol, M.A., Venero, C. Long-term social isolation in the adulthood results in CA1 shrinkage and cognitive impairment (2013) *Neurobiology of Learning and Memory*, 106, pp. 31-39.
DOI: 10.1016/j.nlm.2013.07.004

El-Sayed, S., Hassan, M., Ibrahim, M., Elbassuoni, E., Aziz, N. Modified endogenous carbon monoxide production through modulation of heme oxygenase activity alters some aspects of the cold restraint stress response in male albino rats (2012) *Endocrine Regulations*, 46 (4), pp. 205-215.
DOI: 10.4149/endo_2012_04_205

Puzserova, A., Torok, J., Sotnikova, R., Zemancikova, A., Bernatova, I. Reactivity of the mesenteric bed arteries of normotensive rats exposed to chronic social stress (2012) *General Physiology and Biophysics*, 31 (3), pp. 279-290.
DOI: 10.4149/gpb-2012-032

Ibrahim, I., El-Sayed, S., Abdel-Hakim, S., Hassan, M., Aziz, N. Inhibition of endogenous CO by ZnPP protects against stress-induced gastric lesion in adult male albino rats (2012) *Journal of Physiology and Biochemistry*, 68 (3), pp. 319-328.
DOI: 10.1007/s13105-011-0143-x

Skwara, A.J., Karwoski, T.E., Czambel, R.K., Rubin, R.T., Rhodes, M.E. Influence of environmental enrichment on hypothalamic-pituitary-adrenal (HPA) responses to single-dose nicotine, continuous nicotine by osmotic mini-pumps, and nicotine withdrawal by mecamylamine in male and female rats (2012) *Behavioural Brain Research*, 234 (1), pp. 1-10.
DOI: 10.1016/j.bbr.2012.06.003

Tanaka, K., Shimizu, T., Lu, L., Nakamura, K., Yokotani, K. Centrally administered bombesin activates COX-containing spinally projecting neurons of the PVN in anesthetized rats (2012) *Autonomic Neuroscience: Basic and Clinical*, 169 (2), pp. 63-69. Cited 5 times.
DOI: 10.1016/j.autneu.2012.03.006

Hawkey, L.C., Cole, S.W., Capitanio, J.P., Norman, G.J., Cacioppo, J.T. Effects of social isolation on glucocorticoid regulation in social mammals (2012) *Hormones and Behavior*, 62 (3), pp. 314-323.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0->

DOI: 10.1016/j.yhbeh.2012.05.011

Petrovic-Kosanovic, D., Velickovic, K., Koko, V., Jasic, N., Cvijic, G., Milošević, M.C. Effect of acute heat stress on rat adrenal cortex - a morphological and ultrastructural study (2012) *Central European Journal of Biology*, 7 (4), pp. 611-619.

DOI: 10.2478/s11535-012-0055-y

Wosiski-Kuhn, M., Stranahan, A.M. Opposing effects of positive and negative stress on hippocampal plasticity over the lifespan (2012) *Ageing Research Reviews*, 11 (3), pp. 399-403.

DOI: 10.1016/j.arr.2011.11.003

Valenti, O., Gill, K.M., Grace, A.A. Different stressors produce excitation or inhibition of mesolimbic dopamine neuron activity: Response alteration by stress pre-exposure (2012) *European Journal of Neuroscience*, 35 (8), pp. 1312-1321.

DOI: 10.1111/j.1460-9568.2012.08038.x

Ibrahim, I.A.A., Kamisah, Y., Nafeeza, M.I., Nur Azlina, M.F. The effects of palm vitamin E on stress hormone levels and gastric lesions in stress-induced rats (2012) *Archives of Medical Science*, 8 (1), pp. 22-29.

DOI: 10.5114/aoms.2012.27276

Eicher, S.D. Environment and Animal Well-Being (2012) *Environmental Physiology of Livestock*, pp. 65-80.

DOI: 10.1002/9781119949091.ch5

Cacioppo, J.T., Berntson, G.G., Decety, J. A history of social neuroscience (2012) *Handbook of the History of Social Psychology*, pp. 123-136.

DOI: 10.4324/9780203808498-14

Ismail, N.M., Ibrahim, I.A.A. Tocotrienol and tocopherol in stress-induced gastric mucosal injury (2012) *Tocotrienols: Vitamin E beyond Tocopherols, Second Edition*, pp. 333-358.

DOI: 10.1201/b12502

Spritzer, M.D., Ibler, E., Inglis, W., Curtis, M.G. Testosterone and social isolation influence adult neurogenesis in the dentate gyrus of male rats (2011) *Neuroscience*, 195, pp. 180-190.

DOI: 10.1016/j.neuroscience.2011.08.034

Ravingerová, T., Bernátová, I., Matejíková, J., Ledvényiová, V., Nemčeková, M., Pecháňová, O., Tribulová, N., Slezák, J. Impaired cardiac ischemic tolerance in spontaneously hypertensive rats is attenuated by adaptation to chronic and acute stress (2011) *Experimental and Clinical Cardiology*, 16 (3), pp. e23-e29.

Lakic, I., Drenca, T., Djordjevic, J., Vujovic, P., Jasic, N., Djurasevic, S., Dronjak-Cucakovic, S., Cvijic, G. Novel acute stressor effects on interscapular brown adipose tissue sympathetic innervation and UCP-1 Content In Chronically Isolated And Spontaneously hypertensive rats (2011) *Archives of Biological Sciences*, 63 (3), pp. 589-596.

DOI: 10.2298/ABS1103589L

Abou-Ismael, U.A., Mahboub, H.D. The effects of enriching laboratory cages using various physical structures on multiple measures of welfare in singly-housed rats (2011) *Laboratory Animals*, 45 (3), pp. 145-153.

DOI: 10.1258/la.2011.010149

Yau, S.-Y., Lee, J.C.-D., Lau, B.W.-M., Lee, T.M.C., Ching, Y.-P., Tang, S.-W., So, K.-F. Low dose of corticosterone treatment with exercise increases hippocampal cell proliferation, and improves cognition (2011) *Neural Regeneration Research*, 6 (34), pp. 2645-2655.

DOI: 10.3969/j.issn.1673-5374.2011.34.001

Cacioppo, J.T., Hawkey, L.C., Norman, G.J., Berntson, G.G. Social isolation (2011) *Annals of the New York Academy of Sciences*, 1231 (1), pp. 17-22.

DOI: 10.1111/j.1749-6632.2011.06028.x

Puzserova, A., Bernatova, I. Chronic social stress increases nitric oxide-dependent vasorelaxation in normotensive rats (2010) *Interdisciplinary Toxicology*, 3 (4), pp. 109-117.

DOI: 10.2478/v10102-010-0049-4

Grippe, A.J., Sgoifo, A., Mastorci, F., McNeal, N., Trahanas, D.M. Cardiac dysfunction and hypothalamic activation during a social crowding stressor in prairie voles (2010) *Autonomic Neuroscience: Basic and Clinical*, 156 (1-2), pp. 44-5

DOI: 10.1016/j.autneu.2010.03.003

Konkle, A.T.M., Kentner, A.C., Baker, S.L., Stewart, A., Bielajew, C. Environmental-enrichment-related variations in behavioral, biochemical, and physiologic responses of Sprague-Dawley and Long Evans rats (2010) *Journal of the American Association for Laboratory Animal Science*, 49 (4), pp. 427-436.

Ishikawa, T., Yoshida, C., Michiue, T., Perdekamp, M.G., Pollak, S., Maeda, H. Immunohistochemistry of catecholamines in the hypothalamic-pituitary-adrenal system with special regard to fatal hypothermia and hyperthermia (2010) *Legal Medicine*, 12 (3), pp. 121-127.

DOI: 10.1016/j.legalmed.2010.01.004

Mazurek, B., Stöver, T., Haupt, H., Klapp, B.F., Adli, M., Gross, J., Szczepek, A.J. The significance of stress: Its role in the auditory system and the pathogenesis of tinnitus [Bedeutung von Stress: Seine Rolle im auditorischen System und bei der Tinnitusentstehung] (2010) *HNO*, 58 (2), pp. 162-172.

DOI: 10.1007/s00106-009-2001-5

Cacioppo, J.T., Fowler, J.H., Christakis, N.A. Alone in the Crowd: The Structure and Spread of Loneliness in a Large Social Network (2009) *Journal of Personality and Social Psychology*, 97 (6), pp. 977-991. \

DOI: 10.1037/a0016076

Cacioppo, J.T., Hawkey, L.C. Perceived social isolation and cognition (2009) *Trends in Cognitive Sciences*, 13 (10), pp. 447-454.

DOI: 10.1016/j.tics.2009.06.005

Hennessy, M.B., Kaiser, S., Sachser, N. Social buffering of the stress response: Diversity, mechanisms, and functions (2009) *Frontiers in Neuroendocrinology*, 30 (4), pp. 470-482.

DOI: 10.1016/j.yfrne.2009.06.001

Shimizu, T., Yokotani, K. Acute cold exposure-induced down-regulation of CIDEA, cell death-inducing DNA fragmentation factor- α -like effector A, in rat interscapular brown adipose tissue by sympathetically activated β 3-adrenoreceptors (2009) *Biochemical and Biophysical Research Communications*, 387 (2), pp. 294-299.

DOI: 10.1016/j.bbrc.2009.06.147

Adžić, M., Djordjević, A., Djordjević, J., Nićiforović, A., Radojčić, M.B. Effect of different types of stress on (2009) *Archives of Biological Sciences*, 61 (2), pp. 187-194.

DOI: 10.2298/ABS0902187A

Liao, M., Zhang, Y.-N., Li, H. Effect of cold stress on the expression of Huntingtin-associated protein 1 in the rat adrenal medulla (2009) *Acta Anatomica Sinica*, 40 (4), pp. 621-624.

DOI: 10.3969/j.issn.0529-1356.2009.04.020

Trajkovska, V., Kirkegaard, L., Krey, G., Marcussen, A.B., Thomsen, M.S., Chourbaji, S., Brandwein, C., Ridder, S., Halldin, C., Gass, P., Knudsen, G.M., Aznar, S. Activation of glucocorticoid receptors increases 5-HT_{2A} receptor levels (2009) *Experimental Neurology*, 218 (1), pp. 83-91.
DOI: 10.1016/j.expneurol.2009.04.008

Spasojevic, N., Gavrilovic, L., Kovacevic, I., Dronjak, S. Effects of antidepressants maprotiline and fluoxetine on sympatho-adrenomedullary system in stressed rats (2009) *Autonomic Neuroscience: Basic and Clinical*, 145 (1-2), pp. 104-107.
DOI: 10.1016/j.autneu.2008.11.002

Goldstein, D.S., Kopin, I.J. Adrenomedullary, adrenocortical, and sympathoneural responses to stressors: A meta-analysis (2008) *Endocrine Regulations*, 42 (1), pp. 111-119.

Hayley, S., Mangano, E., Strickland, M., Anisman, H. Lipopolysaccharide and a social stressor influence behaviour, corticosterone and cytokine levels: Divergent actions in cyclooxygenase-2 deficient mice and wild type controls (2008) *Journal of Neuroimmunology*, 197 (1), pp. 29-36.
DOI: 10.1016/j.jneuroim.2008.03.015

Stranahan, A.M., Lee, K., Mattson, M.P. Central mechanisms of HPA axis regulation by voluntary exercise (2008) *NeuroMolecular Medicine*, 10 (2), pp. 118-127.
DOI: 10.1007/s12017-008-8027-0

Farley, D., Matysiak, J. The Effect of Stressor Level Grading on the Stimulus Seeking Behavior of Rats Differing in Emotional Reactivity (2008) *Polish Psychological Bulletin*, 39 (2), pp. 98-103.
DOI: 10.2478/v10059-008-0014-7

Koide, H., Shibata, T., Yamada, N., Asaki, T., Nagao, T., Yoshida, T., Noguchi, Y., Tanaka, T., Saito, Y., Tatsuno, I. Tumor suppressor candidate 5 (TUSC5) is expressed in brown adipocytes (2007) *Biochemical and Biophysical Research Communications*, 360 (1), pp. 139-145.
DOI: 10.1016/j.bbrc.2007.06.034

Zalutskaya, A.A., Arai, M., Bounoutas, G.S., Abou-Samra, A.B. Impaired adaptation to repeated restraint and decreased response to cold in urocortin 1 knockout mice (2007) *American Journal of Physiology - Endocrinology and Metabolism*, 293 (1), pp. E259-E263.
DOI: 10.1152/ajpendo.00616.2006

Yamaguchi-Shima, N., Okada, S., Shimizu, T., Usui, D., Nakamura, K., Lu, L., Yokotani, K. Adrenal adrenaline- and noradrenaline-containing cells and celiac sympathetic ganglia are differentially controlled by centrally administered corticotropin-releasing factor and arginine-vasopressin in rats (2007) *European Journal of Pharmacology*, 564 (1-3), pp. 94-102.
DOI: 10.1016/j.ejphar.2007.02.021

Smith, C., Wilson, N.W., Louw, A., Myburgh, K.H. Illuminating the interrelated immune and endocrine adaptations after multiple exposures to short immobilization stress by in vivo blocking of IL-6 (2007) *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, 292 (4), pp. R1439-R1447.
DOI: 10.1152/ajpregu.00602.2006

Olsson, I.A.S., Westlund, K. More than numbers matter: The effect of social factors on behaviour and welfare of laboratory rodents and non-human primates (2007) *Applied Animal Behaviour Science*, 103 (3-4), pp. 229-254.
DOI: 10.1016/j.applanim.2006.05.022

Goto, Y., Grace, A.A. Alterations in Medial Prefrontal Cortical Activity and Plasticity in Rats with Disruption of Cortical Development (2006) *Biological Psychiatry*, 60 (11), pp. 1259-1267
DOI: 10.1016/j.biopsych.2006.05.046

Yüksel, S., Asma, D. Effects of extended cold exposure on antioxidant defense system of rat hypothalamic-pituitary-adrenal axis (2006) *Journal of Thermal Biology*, 31 (4), pp. 313-317.
DOI: 10.1016/j.jtherbio.2005.12.007

Benderlioglu, Z., Eish, J., Weil, Z.M., Nelson, R.J. Low temperatures during early development influence subsequent maternal and reproductive function in adult female mice (2006) *Physiology and Behavior*, 87 (2), pp. 416-423.
DOI: 10.1016/j.physbeh.2005.11.001

Liu, X., Kvetnansky, R., Serova, L., Sollas, A., Sabban, E.L. Increased susceptibility to transcriptional changes with novel stressor in adrenal medulla of rats exposed to prolonged cold stress (2005) *Molecular Brain Research*, 141 (1), pp. 19-29.
DOI: 10.1016/j.molbrainres.2005.07.019

Krizanova, O., Kvetnansky, R., Jurkovicova, D. Effect of two distinct stressors on gene expression of the type 1 IP3 receptors (2005) *General Physiology and Biophysics*, 24 (2), pp. 237-246.

Changes of isoenzymes of serum N-acetyl- β -D-glucosaminidase in relation to different types of diabetes

Mandić, L., Filipović, D.

Biochemistry and Molecular Biology International, 1998, 45(3), pp. 545–554

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Correia Pinto, V., Costa-Almeida, R., Rodrigues, I., Guardão, L., Soares, R., Miranda Guedes, R. Exploring the in vitro and in vivo compatibility of PLA, PLA/GNP and PLA/CNT-COOH biodegradable nanocomposites: Prospects for tendon and ligament applications (2017) *Journal of Biomedical Materials Research - Part A*, 105 (8), pp. 2182-2190.
DOI: 10.1002/jbm.a.36075

Kaprinay, B., Sotnikova, R., Frimmel, K., Krizak, J., Bernatova, I., Navarova, J., Okruhlicova, L. Consequences of lipopolysaccharide and n-3 polyunsaturated fatty acid administration on aortic function of spontaneously hypertensive rats (2017) *General Physiology and Biophysics*, 36 (3), pp. 353-359.
DOI: 10.4149/gpb_2016054

Jovanović, V.B., Aćimović, J.M., Srećković, V.S.D., Mandić, L.M. How the sialylation level of serum N-acetyl- β -D-glucosaminidase a form in type 1 diabetes mellitus influences their activity? (2014) *Journal of the Serbian Chemical Society*, 79 (12), pp. 1491-1503.
DOI: 10.2298/JSC1404300

Jovanović, V.B., Dimitrijević-Srećković, V.S., Mandić, L.M. Serum N-acetyl- β -D-glucosaminidase profiles in type 1 diabetes secondary complications: Causes of changes and significance of determination (2008) *Journal of Clinical Laboratory Analysis*, 22 (4), pp. 307-313.
DOI: 10.1002/jcla.20262

Varga, P., Oláh, A.V., Oláh, É. Biochemical alterations in patients with Down syndrome [Biókémiai eltérések Down-szindrómás betegekben] (2008) *Orvosi Hetilap*, 149 (26), pp. 1203-1213.
DOI: 10.1556/OH.2008.28327

Tiwari, A.K. Wisdom of Ayurveda in perceiving diabetes: Enigma of therapeutic recognition (2005) *Current Science*, 88 (7), pp. 1043-1051.

Reddy, S.V., Tiwari, A.K., Kumar, U.S., Rao, R.J., Rao, J.M. Free radical scavenging, enzyme inhibitory constituents from antidiabetic ayurvedic medicinal plant *Hydnocarpus wightiana blume* (2005) *Phytotherapy Research*, 19 (4), pp. 277-281.
DOI: 10.1002/ptr.1491

Oláh, A.V., Price, R.G., Csáthy, L., Országh, É., Oláh, É., Varga, J. Age dependence of serum β -N-acetylhexosaminidase (NAG) activity (2004) *Clinical Chemistry and Laboratory Medicine*, 42 (3), pp. 305-306.
DOI: 10.1515/CCLM.2004.055

Pemberton, R.M., Hart, J.P., Mottram, T.T. An assay for the enzyme N-acetyl- β -D-glucosaminidase (NAGase) based on electrochemical detection using screen-printed carbon electrodes (SPCEs) (2001) *Analyst*, 126 (11), pp. 1866-1871.
DOI: 10.1039/b104874k