

## DAFTAR PUSTAKA

- Abdel-Wahhab, M.A., Abdel-Galil, M.M. & El-Lithy, M. 2005. Melatonin counteracts oxidative stress in rats fed an ochratoxin A contaminated diet. *Journal of pineal research.* 38(2): 130–135.
- Agatri, N., Arjadi, F., Rujito, L., Yulia Sistina & Sutrisna, E. 2020. Perbedaan Morfologi Dan Fragmentasi DNA Pada Spermatozoa Tikus Putih (*Rattus Norvegicus*) Galur Wistar Pasca Induksi Berbagai Model Stres Sleep Deprivation. *Jurnal Kedokteran Kesehatan Indonesia.* 11(3): 1–14.
- Alhola, P. & Polo-Kantola, P. 2007. Sleep deprivation: Impact on cognitive performance. *Neuropsychiatric disease and treatment.* 3(5): 553–567.
- Arjadi, F., Partadireja, G., Maurits, L.S. & Pangestu, M. 2015. Paradoxical Sleep Deprivation Changes Testicular Malondialdehyde And Caspase-3 Expression In Male Rats. *Universa Medicina.* 34(2): 87.
- Ashley, N.T., Sams, D.W., Brown, A.C. & Dumaine, J.E. 2016. Novel Environment Influences The Effect Of Paradoxical Sleep Deprivation Upon Brain And Peripheral Cytokine Gene Expression. *Physiology & Behavior.* 176(1): 100–106.
- Astutik, W. & Kuswati, E. 2014. Efektivitas Pemberian Jus Kulit Manggis Terhadap Kadar Hormon Kortisol Pada Mencit (*Mus musculus*) Yang Mengalami Stres. *Jurnal Skala Husada.* 11(1): 91–95.
- Atmadja W., B. 2010. Fisiologi Tidur. *Jurnal Kedokteran Maranatha.* 1(2): 36–39.
- Atrooz, F. & Salim, S. 2020. Sleep Deprivation, Oxidative Stress And Inflammation. *Advances In Protein Chemistry And Structural Biology.* 119: 309–336.
- Bahia, M.S. & Silakari, O. 2010. Tumor Necrosis Factor Alpha Converting Enzyme: An Encouraging Target For Various Inflammatory Disorders. *Chemical Biology & Drug Design.* 75(5): 415–443.
- Besedovsky, L., Tanja, L. & Monika, H. 2019. The Sleep-Immune Crosstalk in Health and Disease. *Physiol Rev.* 99(3): 1325–1380.
- Bianchi, M.T. 2014. *Sleep Deprivation and Disease: Effects on the Body, Brain, and Behavior.* Springer Science & Business Media : New York.
- Brianza-Padilla, M., Sánchez-Muñoz, F., Vázquez-Palacios, G., Huang, F., Almanza-Pérez, J. C., Bojalil, R., & Bonilla-Jaime, H. 2018. Cytokine and microRNA levels during different periods of paradoxical sleep deprivation and sleep recovery in rats. *PeerJ.* 2018 (9) : 1–14.
- Campos, C.N., Ávila, R.G., de Souza, K.R.D., Azevedo, L.M. & Alves, J.D. 2019. Melatonin reduces oxidative stress and promotes drought tolerance in young Coffea arabica L. plants. *Agricultural water management.* 211: 37–47.

- Caron, A.M. 2020. Physiological Consequences Of Sleep Loss In The Rat. *Disertasi*. Universitas Toronto : Kanada.
- Chaput, J.P., Dutil, C. & Sampasa-Kanyinga, H. 2018. Sleeping Hours: What Is The Ideal Number And How Does Age Impact This? *Nature And Science Of Sleep*. 10: 421–430.
- Chennaoui, M., Gomez-Merino, D., Drogou, C., Geoffroy, H., Dispersyn, G., Langrume, C., Ciret, S., Gallopin, T. & Sauvet, F. 2015. Effects Of Exercise On Brain And Peripheral Inflammatory Biomarkers Induced By Total Sleep Deprivation In Rats. *Journal Of Inflammation (United Kingdom)*. 12(1).
- Campos, C.N., Ávila, R.G., de Souza, K.R.D., Azevedo, L.M. & Alves, J.D. 2019. Melatonin reduces oxidative stress and promotes drought tolerance in young Coffea arabica L. plants. *Agricultural water management*. 211: 37–47.
- Chu, W.M. 2013. Tumor Necrosis Factor. *Cancer Letters*. 328(2): 222–225.
- Dahlan, M. S. 2011. *Statistik untuk Kedokteran dan Kesehatan*. Salemba : Jakarta.
- De Jager, W., Bourcier, K., Rijkers, G.T., Prakken, B.J. & Seyfert-Margolis, V. 2009. Prerequisites for cytokine measurements in clinical trials with multiplex immunoassays. *BMC Immunology*. 10: 52.
- Dietze, S., Lees, K.R., Fink, H., Brosda, J. & Voigt, J.P. 2016. Food Deprivation, Body Weight Loss And Anxiety-Related Behavior In Rats. *Animals*. 6(1).
- Everson, C.A., Laatsch, C.D. & Hogg, N. 2005. Antioxidant defense responses to sleep loss and sleep recovery. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*. 288(2) : 374 - 378.
- Everson, C.A., Henchen, C.J., Szabo, A. & Hogg, N. 2014. Cell injury and repair resulting from sleep loss and sleep recovery in laboratory rats. *Sleep*. 37(12): 1929–1940.
- Fang, H., Tu, S., Sheng, J. & Shao, A. 2019. Depression In Sleep Disturbance: A Review On A Bidirectional Relationship, Mechanisms And Treatment. *Journal Of Cellular And Molecular Medicine*. 23(4): 2324–2332.
- Federer, W. 1963. *Experimental Design: Theory And Application*. Oxford And Lbh Publish Hinco, Oxford.
- Firestein, G.S. 2017. *Textbook Of Rheumatology Textbook Of Rheumatology Tenth Edition*.
- Fitria, L. 2014. Profil Hematologi Tikus (Rattus Norvegicus Berkenhout, 1769) Galur Wistar Jantan Dan Betina Umur 4, 6, Dan 8 Minggu. *Biogenesis: Jurnal Ilmiah Biologi*. 2(2): 94–100.
- Fredrich, M., Hampel, M., Seidel, K., Christ, E. & Korf, H. 2017. Impact of melatonin receptor-signaling on Zeitgeber time-dependent changes in cell proliferation and apoptosis in the adult murine hippocampus. *Hippocampus*. 27(5): 495–506.
- Ford, E.S., Cunningham, T.J. & Croft, J.B. 2015. Trends In Self-Reported Sleep Duration Among US Adults From 1985 To 2012. *Sleep*. 38(5): 829–832.

- Gane, J.M. 2016. Studies Of Tnf-Alpha In Alpha- One Antitrypsin Deficient And Healthy Subjects. *Thesis*. Fakultas Filosofi. University Of Birmingham, Inggris.
- Garbarino, S., Lanteri, P., Bragazzi, N.L., Magnavita, N. & Scoditti, E. 2021. Role of sleep deprivation in immune-related disease risk and outcomes. *Communications biology*. 4(1): 1304.
- Glickman, E.L., Ryan, E.J. & Bellar, D. 2016. Exercise Physiology, Cognitive Function, and Physiologic Alterations in Extreme Conditions. *BioMed research international*.
- Grabarek, B., Bednarczyk, M., & Mazurek, U. 2017. The characterization of tumor necrosis factor alpha (TNF- $\alpha$ ), its role in cancerogenesis and cardiovascular system diseases and possibilities of using this cytokine as a molecular marker. *Folia Biologica et Oecologica*. 13 : 1–8.
- Guo, G. H., Dong, J., Yuan, X. H., Dong, Z. N., & Tian, Y. P. 2013. Clinical Evaluation of the Levels of 12 Cytokines in Serum/Plasma Under Various Storage Conditions Using Evidence Biochips Arrays. *Molecular Medicine Reports*. 7(3) : 775–780.
- Gurnida, D.. & Rosifah, D. 2011. *Peran Ghrelin dalam Regulasi Nafsu Makan*. Fakultas Kedokteran Universitas Padjajaran : Bandung.
- Haack, M., Sanchez, E. & Mullington, J.M. 2007. Elevated Inflammatory Markers in Response to Prolonged Sleep Restriction Are Associated With Increased Pain Experience in Healthy Volunteers. *Sleep Restriction, Inflammation And Pain*. 30(9): 1145–1152.
- Himmerich, H., Fischer, J., Bauer, K., Kirkby, K.C., Sack, U. & Krügel, U. 2013. Stress-induced cytokine changes in rats. *European Cytokine Network*. 24(2): 97–103.
- Hipolide, D.C., Sucheki, D., Pinto, A.P., Chiconelli Faria, E., Tufik, S. & Luz, J. 2006. Paradoxical sleep deprivation and sleep recovery: effects on the hypothalamic–pituitary–adrenal axis activity, energy balance and body composition of rats. *Journal of neuroendocrinology*. *Journal of neuroendocrinology*. 18(4): 231–238.
- Horiuchi, T., Mitoma, H., Harashima, S.I., Tsukamoto, H. & Shimoda, T. 2010. Transmembrane TNF-A: Structure, Function And Interaction With Anti-TNF Agents. *Rheumatology*. 49(7): 1215–1228.
- Hurtado-Alvarado, G., Pavón, L., Castillo-García, S.A., Hernández, M.E., Domínguez-Salazar, E., Velázquez-Moctezuma, J. & Gómez-González, B. 2013. Sleep Loss As A Factor To Induce Cellular And Molecular Inflammatory Variations. *Clinical And Developmental Immunology*. 2013 (1) : 801341.
- Husna, F., Suyatna, F., Arozal, W. & Purwaningsih, E. 2019. Model Hewan Coba Pada Penelitian Diabetes. *Pharmaceutical Sciences And Research*. 6(3): 131–141.

- Ibarra, E.G., Pantaleón-Martínez, A.M., Velazquéz-Moctezuma, J., Prospéro-García, O., Méndez-Díaz, M., Pérez-Tapia, M., Pavón, L. & Morales-Montor, J. 2015. The Bidirectional Relationship Between Sleep And Immunity Against Infections. *Journal Of Immunology Research*.
- Irwin, M.R. & Cole, S.W. 2011. Reciprocal Regulation Of The Neural And Innate Immune Systems. *Nature Reviews Immunology*. 11(9): 625–632.
- Irwin, M.R., Olmstead, R. & Carroll, J.E. 2016. Sleep Disturbance, Sleep Duration, And Inflammation: A Systematic Review And Meta-Analysis Of Cohort Studies And Experimental Sleep Deprivation. *Biological Psychiatry*. 80(1): 40–52.
- Jati, R.T. 2018. Perbedaan Kadar Superoxide Dismutase Tikus Putih (Rattus Norvegicus) Jantan Pasca Induksi Berbagai Model Stres Sleep Deprivation. *Skripsi*. Fakultas Kedokteran Universitas Jenderal Soedirman. Purwokerto.
- Jeddi, S., Asl, A.N., Asgari, A. & Ghasemi, A. 2016. The Effect Of Sleep Deprivation On Cardiac Function And Tolerance To Ischemia-Reperfusion Injury In Male Rats. *Arquivos Brasileiros De Cardiologia*. 106(1): 41–48.
- Jr, K.P.W., Drake, A.L., Frey, D.J., Fleshner, M., Gronfier, C.A.D.C. & Czeisler, C.A. 2017. Influence Of Sleep Deprivation And Circadian Misalignment On Cortisol, Inflammatory Markers, And Cytokine Balance. *Physiology & Behavior*. 176(1): 139–148.
- Kany, S., Vollrath, J.T. & Relja, B. 2019. Cytokines In Inflammatory Disease. *International Journal Of Molecular Sciences*. 20(23).
- Kerksick, C. & Willoughby, D. 2005. The antioxidant role of glutathione and N-acetyl-cysteine supplements and exercise-induced oxidative stress. *Journal of the international society of sports nutrition*. 2(2): 1–7.
- Khalifian, S., Raimondi, G., & Brandacher, G. 2015. The Use of Luminex Assays to Measure Cytokines. *Journal of Investigative Dermatology*. 135 (31) :1–5.
- Koban, M., Sita, L. V., Le, W.W. & Hoffman, G.E. 2008. Sleep deprivation of rats: the hyperphagic response is real. *Sleep*. 31(7): 927–933.
- Krueger, J., Frank, M., JP, W., & S., R. 2016. Sleep function: toward elucidating an enigma. *Sleep Medicine Reviews*. 28 : 46–54.
- Ferreira, V., H.L. Borba, H., De F. Bonetti, A., P. Leonart, L. & Pontarolo, R. 2019. Cytokines And Interferons: Types And Functions. *Autoantibodies And Cytokines*.
- Lateef, O.M. & Akintubosun, M.O. 2020. Sleep And Reproductive Health. *Journal Of Circadian Rhythms*. 18(1): 1–11.
- Li, Q., Li, L., Shi, W., Jiang, X., Xu, Y., Gong, F., Zhou, M., Edwards, C.K. & Li, Z. 2006. Mechanism Of Action Differences In The Antitumor Effects Of Transmembrane And Secretory Tumor Necrosis Factor-Alpha In Vitro And In Vivo. *Cancer Immunology, Immunotherapy*. 55(12): 1470–1479.

- Liu, H., Zhang, M., Han, H., Yuan, J. & Li, Z. 2010. Comparison of the expression of cytokine genes in the bursal tissues of the chickens following challenge with infectious bursal disease viruses of varying virulence. *Virology Journal*. 7(1): 1–9.
- Machado, R.B., Schecki, D. & Tufik, S. 2006. Comparison Of The Sleep Pattern Throughout A Protocol Of Chronic Sleep Restriction Induced By Two Methods Of Paradoxical Sleep Deprivation. *Brain Research Bulletin*. 70(3): 213–220.
- Mahmoudi, J., Ahmadian, N., Farajdokht, F., Majdi, A. & Erfani, M. 2017. A Protocol For Conventional Sleep Deprivation Methods In Rats. *Journal Of Experimental And Clinical Neuroscienc*. 4(1): 1–4.
- Martins, P., D'Almeida, V., Nobrega, J. & Tufik, S. 2006. A reassessment of the hyperphagia/weight-loss paradox during sleep deprivation. *Sleep*. 29: 1233–1238.
- Mavanji, V., Billington, C.J., M. Kotz, C. & Teske, J.A. 2012. Sleep and obesity: A focus on animal models. *Neuroscience and Biobehavioral Reviews*. 36(3): 1015–1029.
- Medubi, L.J., Nwosu, N.C., Lawal, R.O., Medubi, O.O., Ama, C., Kusemiju, O.T. & Osinubi, A.A.A. 2020. Increased De Novo Glutathione Production Enhances Sexual Dysfunctions In Rats Subjected To Paradoxical Sleep Deprivation. *JBRA Assisted Reproduction*. 00(0): 1–8.
- Mekori-Domachevsky, E., Segal-Gavish, H. & Gross, R. 2019. Neuroinflammation And Neuroprotection In Schizophrenia And Autism Spectrum Disorder. In *Neuroprotection In Autism, Schizophrenia And Alzheimer's Disease*. 101–122.
- Mili, N. El, Ahabrach, H. & Cauli, O. 2021. Hair Cortisol Concentration As A Biomarker Of Sleep Quality And Related Disorders. *Life*. 11(2): 1–19.
- Mong, J.A., Schecki, D., Semba, K. & Parry, B.L. 2010. Sleep and the endocrine brain. *International journal of endocrinology*. 31(45).
- Montgomery, D. C., 2020. *Design and Analysis of Experiments*. Catalysis from A to Z. Arizona: Wiley.
- Nollet, M., Wisden, W. & Franks, N.P. 2020. Sleep Deprivation And Stress: A Reciprocal Relationship. *Interface Focus*. 10(3).
- Notoatmodjo, S. 2005. *Metodologi Penelitian Kesehatan*. Penerbit Rineka Cipta, Jakarta.
- Oliveira, C.M.B., Sakata, R.K., Issy, A.M., Gerola, L.R. & Salomão, R. 2011. Cytokines And Pain. *Brazilian Journal Of Anesthesiology*. 61(2): 255–265.
- Olmos, G. & Lladó, J. 2014. Tumor Necrosis Factor Alpha: A Link Between Neuroinflammation And Excitotoxicity. *Mediators Of Inflammation*.
- Orzeł-Gryglewska, J. 2010. Consequences of sleep deprivation. *Int J Occup Med Environ Health*. 23(1): 95–114.

- Padilha, H.G., Crispim, C.A., Zimberg, I.Z., De-Souza, D.A., Waterhouse, J., Tufik, S. & De-Mello, M.T. 2011. A link between sleep loss, glucose metabolism and adipokines. *Brazilian journal of medical and biological research*. 44: 992–999.
- Pak, V.M., Onen, S.H., Blewise, D.L., Kutner, N.G., Russell, K.L. & Onen, F. 2020. Sleep Disturbances In MCI And AD: Neuroinflammation As A Possible Mediating Pathway. *Frontiers In Aging Neuroscience*.
- Pandey, A. & Kar, S.K. 2018. “Rapid Eye Movement Sleep Deprivation Of Rat Generates ROS In The Hepatocytes And Makes Them More Susceptible To Oxidative Stress”. *Biorxiv*.
- Periasamy, S., Hsu, D.Z., Fu, Y.H. & Liu, M.Y. 2015. Sleep Deprivation-Induced Multi-Organ Injury: Role Of Oxidative Stress And Inflammation. *EXCLI Journal*. 14: 672–678.
- Pires, G.N., Alvarenga, T.A., Maia, L.O., Mazaro-Costa, R., Tufik, S. & Andersen, M.L. 2012. No Title. *The Indian Journal of Medical Research*. 136(6): 1025–1030.
- Pujiatiningsih, A. 2014. Pemberian Ekstrak Daun Putri Malu (*Mimosa Pudica Linn*) Secara Oral Menurunkan Kadar Gula Darah Post Prandial Pada Tikus (*Rattus Norvegicus*) Jantan Galur Wistar Prediabetes. *Thesis*. Fakultas Kedokteran. Universitas Udayana, Bali.
- Ray, A. 2016. Cytokines And Their Role In Health And Disease: A Brief Overview. *MOJ Immunology*. 4(2): 1–9.
- Renström, L. 2017. *The Involvement Of The TNF-Alpha System In Skeletal Muscle In Response To Marked Overuse*. Umea University, Swedia.
- Hubrecht, R & Kirkwood, J. 2010. The Laboratory Rat. In *The UFAW Handbook On The Care And Management Of Laboratory And Other Research Animals*. 311–326.
- Rosa, J. C., Lira, F. S., Venancio, D. P., Cunha, C. A., Oyama, L. M., Pimentel, G. D., Tufik, S., Do Nascimento, C. M. O., Santos, R. V. T., & De Mello, M. T. 2010. Sleep deprivation affects inflammatory marker expression in adipose tissue. *Lipids in Health and Disease*. 9 : 2–7.
- Rose, S. & Ramanan, S. 2017. Effect Of Sleep Deprivation On The Academic Performance And Cognitive Functions Among The College Students : A Cross Sectional Study. *Journal Of Chalmeda Anand Rao Institute Of Medical Sciences*. 14(2): 51–56.
- Rossard, T.P. 2009. *Cell Biology Research Progress Series : Tumor Necrosis Factor*. Nova Biomedical Book, New York.
- Ruiz, F.S., Andersen, M.L., Martins, R.C.S., Zager, A., Lopes, J.D. & Tufik, S. 2012. Immune alterations after selective rapid eye movement or total sleep deprivation in healthy male volunteers. *Innate Immunity*. 18(1): 44–54.
- Schulz, A., Toedt, G., Zenz, T., Stilgenbauer, S., Lichter, P. & Seiffert, M. 2011.

- Inflammatory cytokines and signaling pathways are associated with survival of primary chronic lymphocytic leukemia cells in vitro: a dominant role of CCL2. *Haematologica*. 96(3): 408.
- Sengupta, P. 2013. The Laboratory Rat: Relating Its Age With Human's. *International Journal Of Preventive Medicine*. 4(6): 624–630.
- Shearer, W.T., Reuben, J.M., Mullington, J.M., Price, N.J., Lee, B.N., O'brian Smith, E., Szuba, M.P., Van Dongen, H.P.A. & Dinges, D.F. 2001. Soluble TNF- $\alpha$  receptor 1 and IL-6 plasma levels in humans subjected to the sleep deprivation model of spaceflight. *Journal of Allergy and Clinical Immunology*. 107(1): 165–170.
- Simpson, N. & Dinges, D.F. 2007. Sleep And Inflammation. *Nutrition Reviews*. 65.
- Spiers, J.G., Chen, H.J.C., Sernia, C. & Lavidis, N.A. 2015. Activation Of The Hypothalamic-Pituitary-Adrenal Stress Axis Induces Cellular Oxidative Stress. *Frontiers In Neuroscience*. 9.
- Süer, C., Dolu, N., Artis, A.S., Sahin, L., Yilmaz, A. & Cetin, A. 2011. The effects of long-term sleep deprivation on the long-term potentiation in the dentate gyrus and brain oxidation status in rats. *Neuroscience Research*. 70(1): 71–77.
- Suhaemi, Z. 2011. *Diktat Metode Penelitian Dan Rancangan Percobaan*. Program Studi Peternakan Fakultas Pertanian Universitas Taman Siswa, Padang.
- Tambunan, S., Asni, E., Malik, Z. & Ismawati. 2014. Histopatologi Aorta Torasika Tikus Putih (Rattus Norvegicus Strain Wistar) Jantan Setelah Pemberian Diet Aterogenik Selama 12 Minggu. *Jom FK*. 2(1): 68–70.
- Tang, V.M. 2012. *Glucocorticoid Effects On Oxidative Stress And Mitochondrial Dysfunction*. University Of British Columbia : Columbia.
- Tista, G.N.B. 2011. *Pemberian Ekstrak Buah Mengkudu (Morinda Citrifolia L) Menurunkan Tekanan Darah Tikus Putih Jantan Galur Wistar (Rattus Norvegicus) Yang Hipertensi*. Universitas Udayana, Bali.
- Vaccaro, A., Dor, Y. K., Nambara, K., Pollina, E. A., Lin, C., E., G. M., & Rogulja, D. 2020. Sleep Loss Can Cause Death through Accumulation of Reactive Oxygen Species in the Cell. *Cell Press*. 181 (6) : 1307–1328.
- Vijayaraghava, A. & Doreswamy, V. 2017. Exercise And The Cytokines-Interleukin-6 (IL-6) And Tumor Necrosis Factor-A (TNF-A): A Review. *Annals Of Medical Physiology*. 1(1): 3–8.
- Voderholzer, U., Fiebich, B.L., Dersch, R., Feige, B., Piosczyk, H., Kopasz, M., Riemann, D. & Lieb, K. 2012. Effects Of Sleep Deprivation On Nocturnal Cytokine Concentrations In Depressed Patients And Healthy Control Subjects. *Journal Of Neuropsychiatry And Clinical Neurosciences*. 24(3): 354–366.
- Wadhwa, M., Prabhakar, A., Ray, K., Roy, K., Kumari, P., Jha, P. K., Kishore, K., Kumar, S., & Panjwani, U. 2017. Inhibiting the microglia activation improves the spatial memory and adult neurogenesis in rat hippocampus during 48h of sleep deprivation. *Journal of Neuroinflammation*. 14(1) :1–18.

- Wang, X., & Lin, Y. 2008. Tumor necrosis factor and cancer, buddies or foes ? *Acta Pharmacologica Sinica*. 29(11) : 1275–1288.
- Watson, N.F., Badr, M.S., Belenky, G., Blwise, D.L., Buxton, O.M., Buysse, D., Dinges, D.F., Gangwisch, J., Grandner, M.A., Kushida, C., Malhotra, R.K., Martin, J.L., Patel, S.R., Quan, S.F., Tasali, E., Twery, M., Croft, J.B., Maher, E., Barrett, J.A., Thomas, S.M. & Heald, J.L. 2015. Recommended Amount Of Sleep For A Healthy Adult: A Joint Consensus Statement Of The American Academy Of Sleep Medicine And Sleep Research Society. *Sleep*. 38(6): 843–844.
- Widyaningsih, P.N., Arjadi, F. & Mahanani, E.S. 2020. Effect Of Various Inductions Of Sleep Deprivation Stress On Proinflammatory Cytokine Levels In Gingival Crevicular Fluids Of White Male Wistar Strain Rats (Rattus Novergicus). *Dental Journal (Majalah Kedokteran Gigi)*. 53(1): 24.
- Wilkinson, M. & Imran, S. 2019. *Neuroendocrine Regulation of Appetite and Body Weight*. In *Clinical Neuroendocrinology: An Introduction*. Cambridge University press.: Cambridge.
- Wu, Y. & Zhou, B.P. 2010. TNF-A/Nfk-B/Snail Pathway In Cancer Cell Migration And Invasion. *British Journal Of Cancer*. 102(4): 639–644.
- Xue, R., Wan, Y., Sun, X., Zhang, X., Gao, W. & Wu, W. 2019. Nicotinic Mitigation Of Neuroinflammation And Oxidative Stress After Chronic Sleep Deprivation. *Frontiers In Immunology*. 10 : 1–12.
- Yang, S., Wang, J., Brand, D.D. & Zheng, S.G. 2018. Role of TNF–TNF receptor 2 signal in regulatory T cells and its therapeutic implications. *Frontiers in immunology*. 9: 978.
- Yamada, R.G. & Ueda, H.R. 2020. Molecular Mechanisms Of REM Sleep. *Frontiers In Neuroscience*. 13: 1402.
- Yehuda, S., Sredni, B., Carasso, R.L. & Kenigsbuch-Sredni, D. 2009. REM Sleep Deprivation In Rats Results In Inflammation And Interleukin-17 Elevation. *Journal Of Interferon And Cytokine Research*. 29(7): 393–398.
- Yue, H.J., Mills, P.J., Ancoli-Israel, S., Loredo, J.S., Ziegler, M.G. & Dimsdale, J.E. 2009. The Roles Of TNF-A And The Soluble TNF Receptor I On Sleep Architecture In OSA. *Sleep And Breathing*. 13(3): 263–269.
- Zhang, J.M. & An, J. 2009. Cytokines, Inflammation, And Pain. *International Anesthesiology Clinics*. 45(2): 27–37.
- Zhang, Weiyue, Zhang, Wei, Dai, N., Han, C., Wu, F., Wang, X., Tan, L., Li, J., Li, F. & Ren, Q. 2018. A Rat Model Of Central Fatigue Using A Modified Multiple Platform Method. *Journal Of Visualized Experiments*. 2018 (138): 57362.
- Zimberg, I.Z., Dâmaso, A., Del Re, M., Carneiro, A.M., de Sá Souza, H. & de Lira, F.S. 2012. Short sleep duration and obesity: mechanisms and future perspectives. *Cell biochemistry and function*. 30(6): 524–529.