

6. DAFTAR PUSTAKA

- Aeberli, I., Gerber, P. A., Hochuli, M., Kohler, S., Haile, S. R., Gouni-Berthold, I., ... Berneis, K. (2011). Low to moderate sugar-sweetened beverage consumption impairs glucose and lipid metabolism and promotes inflammation in healthy young men: A randomized controlled trial. *American Journal of Clinical Nutrition*, 94(2), 479–485. <https://doi.org/10.3945/ajcn.111.013540>
- Alexander, S. P. H., Mathie, A., & Peters, J. A. (2006). Transient receptor potential (TRP). *British Journal of Pharmacology*, S120–S125. <https://doi.org/10.1038/sj.bjp.0706607>
- Altemus, M., Rao, B., Dhabhar, F. S., Ding, W., & Granstein, R. D. (2001). Stress-induced changes in skin barrier function in healthy women. *Journal of Investigative Dermatology*, 117(2), 309–317. <https://doi.org/10.1046/j.1523-1747.2001.01373.x>
- Armutcu, F. (2019). Organ crosstalk: the potent roles of inflammation and fibrotic changes in the course of organ interactions. *Inflammation Research*, (123456789). <https://doi.org/10.1007/s00011-019-01271-7>
- Ayala, A., Muñoz, M. F., & Argüelles, S. (2014). Lipid peroxidation: Production, metabolism, and signaling mechanisms of malondialdehyde and 4-hydroxy-2-nonenal. *Oxidative Medicine and Cellular Longevity*, 2014. <https://doi.org/10.1155/2014/360438>
- Beilharz, J. E., Kaakoush, N. O., Maniam, J., & Morris, M. J. (2016). The effect of short-term exposure to energy-matched diets enriched in fat or sugar on memory, gut microbiota and markers of brain inflammation and plasticity. *Brain Behavior and Immunity*. <https://doi.org/10.1016/j.bbi.2016.07.151>
- Beilharz, J. E., Maniam, J., & Morris, M. J. (2014). Short exposure to a diet rich in both fat and sugar or sugar alone impairs place, but not object recognition memory in rats. *Brain Behavior and Immunity*, 37, 134–141. <https://doi.org/10.1016/j.bbi.2013.11.016>
- Blaser, H., Dostert, C., Mak, T. W., & Brenner, D. (2016). TNF and ROS

- Crosstalk in Inflammation. *Trends in Cell Biology*, 26(4), 249–261. <https://doi.org/10.1016/j.tcb.2015.12.002>
- Brand-Miller, J. C., & Barclay, A. W. (2017). Declining consumption of added sugars and sugar-sweetened beverages in Australia: A challenge for obesity prevention. *American Journal of Clinical Nutrition*, 105(4), 854–863. <https://doi.org/10.3945/ajcn.116.145318>
- Burton, D. R., & Dwek, R. A. (2006). Sugar determines antibody activity. *Science*, 313(5787), 627–628. <https://doi.org/10.1126/science.1131712>
- Casas, R., Sacanella, E., & Estruch, R. (2014). The Immune Protective Effect of the Mediterranean Diet against Chronic Low-grade Inflammatory Diseases, 245–254.
- Chen, K., Magri, G., Grasset, E. K., & Cerutti, A. (2020). Rethinking mucosal antibody responses: IgM, IgG and IgD join IgA. *Nature Reviews Immunology*, 20(7), 427–441. <https://doi.org/10.1038/s41577-019-0261-1>
- Cheng, X., Guo, X., Huang, F., Lei, H., Zhou, Q., & Song, C. (2021). Effect of different sweeteners on the oral microbiota and immune system of Sprague Dawley rats. *AMB Express*. <https://doi.org/10.1186/s13568-020-01171-8>
- Choi, J., Park, M., Kim, C., Lee, Y., & Choi, E. Y. (2017). Long-term consumption of sugar- sweetened beverages during the growth period promotes social aggression in adult mice with proinflammatory responses in the brain. *Nature Publishing Group*, (July 2016), 1–11. <https://doi.org/10.1038/srep45693>
- Choi, Y. J., Kim, H. S., Lee, J., Chung, J., Lee, J. S., Choi, J. S., ... Chung, H. Y. (2014). Down-regulation of oxidative stress and COX-2 and iNOS expressions by dimethyl lithospermate in aged rat kidney. *Archives of Pharmacal Research*, 37(8), 1032–1038. <https://doi.org/10.1007/s12272-014-0332-6>
- Cigliano, L., Spagnuolo, M. S., Crescenzo, R., Cancelliere, R., Iannotta, L., Mazzoli, A., ... Iossa, S. (2017). Short-Term Fructose Feeding Induces Inflammation and Oxidative Stress in the Hippocampus of Young and Adult Rats. <https://doi.org/10.1007/s12035-017-0518-2>

- Claudia, C., Ribeiro, C., Jesus, C. De, Pachêco, B., Lima, E., Lúcia, L., ... Amaral, R. (2017). Proinflammatory cytokines in early childhood caries : Salivary analysis in the mother / children pair, (November). <https://doi.org/10.1016/j.cyto.2017.12.009>
- Collino, M., Rudich, A., & Konrad, D. (2013). Mediators of Interorgan Crosstalk in Metabolic Inflammation, *2013*, 10–13.
- Emond, M., Ten Eycke, K., Kosmerly, S., Robinson, A. L., Stillar, A., & Van Blyderveen, S. (2016). The effect of academic stress and attachment stress on stress-eaters and stress-undereaters. *Appetite*, *100*, 210–215. <https://doi.org/10.1016/j.appet.2016.01.035>
- Espinola-Klein, C., Gori, T., Blankenberg, S., & Munzel, T. (2011). Inflammatory markers and cardiovascular risk in the metabolic syndrome, 1663–1674.
- Frohnert, B. I., & Bernlohr, D. A. (2013). Protein carbonylation, mitochondrial dysfunction, and insulin resistance. *Advances in Nutrition*, *4*(2), 157–163. <https://doi.org/10.3945/an.112.003319>
- Fu, Y., & Chung, F.-L. (2017). Oxidative stress and hepatocarcinogenesis. *Physiology & behavior*, *176*(12), 139–148. <https://doi.org/10.20517/2394-5079.2018.29.Oxidative>
- García-iniesta, L., Martínez-carrillo, B. E., Valdés-ramos, R., Jarillo-luna, R. A., Escoto-herrera, J. A., & Reséndiz-albor, A. (2017). Relationship between Prolonged Sweetener Consumption and Chronic Stress in the Production of Carbonylated Proteins in Blood Lymphocytes, *7*(4), 220–232. <https://doi.org/10.9734/EJNFS/2017/36313>
- Gasparovic, A. C., Jaganjac, M., Mihaljevic, B., Sunjic, S. B., & Zarkovic, N. (n.d.). Chapter 19 Assays for the Measurement of Lipid Peroxidation, *965*, 283–296. <https://doi.org/10.1007/978-1-62703-239-1>
- Gheorghe ILIE, C. N. C. (2010). Application of Fishbone Diagram To Determine the Risk of an Event With Multiple Causes. *Management Research and Practice*, *2*(1), 1–20. Diambil dari <http://mrp.ase.ro/no21/fl.pdf>
- Ghezzi, P., Floridi, L., Boraschi, D., Cuadrado, A., Manda, G., Levic, S., ...

- Selley, L. (2018). Oxidative Stress and Inflammation Induced by Environmental and Psychological Stressors: A Biomarker Perspective. *Antioxidants and Redox Signaling*, 28(9), 852–872. <https://doi.org/10.1089/ars.2017.7147>
- Ginneken, V. van. (2017). Are there any Biomarkers of Aging? Biomarkers of the Brain. *Biomedical Journal of Scientific & Technical Research*, 1(1). <https://doi.org/10.26717/bjstr.2017.01.000151>
- Glaser, R., & Kiecolt-Glaser, J. K. (2005). Stress-induced immune dysfunction: Implications for health. *Nature Reviews Immunology*, 5(3), 243–251. <https://doi.org/10.1038/nri1571>
- Griffin, D. O., & Rothstein, T. L. (2012). Secrete Interleukin-10 and Regulate T-Cell Activity, (5), 1003–1008. <https://doi.org/10.2119/molmed.2012.00203>
- Heredia, F. P. De, Martínez, S. G., & Marcos, A. (2012). Obesity , inflammation and the immune system 5th International Immunonutrition Workshop Chronic and degenerative diseases Obesity , inflammation and the immune system Proceedings of the Nutrition Society, (March). <https://doi.org/10.1017/S0029665112000092>
- Hu, C., Ge, L. U., Tang, Y., Li, J. I. E., Wu, C., Hu, J., ... Fan, Y. (2019). PHYLLODULCIN PROTECTS PC12 CELLS AGAINST THE INJURY INDUCED BY OXYGEN AND GLUCOSE DEPRIVATION-RESTORATION, 76(6), 1043–1050. <https://doi.org/10.32383/appdr/112045>
- Huang, C. J., McAllister, M. J., Slusher, A. L., Webb, H. E., Mock, J. T., & Acevedo, E. O. (2015). Obesity-Related Oxidative Stress: the Impact of Physical Activity and Diet Manipulation. *Sports Medicine - Open*, 1(1), 1–12. <https://doi.org/10.1186/s40798-015-0031-y>
- Huang, C., Webb, H. E., Evans, R. K., McCleod, K. A., Tangsilat, S. E., Kamimori, G. H., & Acevedo, E. O. (2010). Psychological stress during exercise : immunoendocrine and oxidative responses, 1498–1504.
- Iddir, M., Brito, A., Dingeo, G., Sosa, S., Del, F., Samouda, H., ... Bohn, T. (n.d.). Strengthening the Immune System and Reducing Inflammation and Oxidative Stress through Diet and Nutrition : Considerations during the

COVID-19 Crisis, 2(December 2019), 1–43.

<https://doi.org/10.3390/nu12061562>

Iida, T., Ito, Y., Kanazashi, M., Murayama, S., Miyake, T., Yoshimaru, Y., ... Ezoë, S. (2021). Effects of Psychological and Physical Stress on Oxidative Stress, Serotonin, and Fatigue in Young Females Induced by Objective Structured Clinical Examination: Pilot Study of u-8-OHdG, u-5HT, and s-HHV-6. *International Journal of Tryptophan Research*, 14. <https://doi.org/10.1177/11786469211048443>

Jensen, T., Abdelmalek, M. F., Sullivan, S., Nadeau, K. J., Green, M., Roncal, C., ... Johnson, R. J. (2018). Fructose and Sugar: A Major Mediator of Nonalcoholic Fatty Liver Disease. *Journal of Hepatology*. <https://doi.org/10.1016/j.jhep.2018.01.019>

Jiménez-maldonado, A., Ying, Z., Byun, H. R., & Gomez-pinilla, F. (2017). Short-term fructose ingestion affects the brain independently from establishment of metabolic syndrome. *Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease*, Volume 186(1), 24–33. <https://doi.org/10.1016/j.bbadis.2017.10.012>

Jin, C., & Flavell, R. A. (2010). Inflammasome activation The missing link : how the inflammasome senses oxidative stress. *Immunology and Cell Biology*, 88(5), 510–512. <https://doi.org/10.1038/icb.2010.56>

Jin, R., Welsh, J. A., Le, N., Holzberg, J., Sharma, P., Martin, D. R., & Vos, M. B. (2015). Dietary Fructose Reduction Improves Markers of Cardiovascular Disease Risk in Hispanic-American Adolescents with NAFLD, (Ldl), 3187–3201. <https://doi.org/10.3390/nu6083187>

KIECOLT-GLASER, J. K. (2010). Stress , Food , and Inflammation : Psychoneuroimmunology and Nutrition at, 369, 365–369. <https://doi.org/10.1097/PSY.0b013e3181dbf489>

Kim, E., Shin, J., Reum, P., Kim, M., Yoo, S., & Kim, Y. (2018). Phylloidalcin , a natural functional sweetener , improves diabetic metabolic changes by regulating hepatic lipogenesis , inflammation , oxidative stress , fibrosis , and gluconeogenesis in db / db mice. *Journal of Functional Foods*,

- 42(November 2017), 1–11. <https://doi.org/10.1016/j.jff.2017.12.038>
- Kuper, C. F., Ruehl-Fehlert, C., Elmore, S. A., & Parker, G. A. (2013). *Immune System. Haschek and Rousseaux's Handbook of Toxicologic Pathology* (Third Edit). Elsevier. <https://doi.org/10.1016/B978-0-12-415759-0.00049-2>
- Lackey, D. E., & Olefsky, J. M. (2016). Regulation of metabolism by the innate immune system. *Nature Reviews Endocrinology*, 12(1), 15–20. <https://doi.org/10.1038/nrendo.2015.189>
- Lambertz, J., Weiskirchen, S., Landert, S., & Weiskirchen, R. (2017). Fructose: A dietary sugar in crosstalk with microbiota contributing to the development and progression of non-alcoholic liver disease. *Frontiers in Immunology*, 8(SEP). <https://doi.org/10.3389/fimmu.2017.01159>
- Liu, Y., Wang, Y., & Jiang, C. (2017). Inflammation : The Common Pathway of Stress-Related Diseases, 11(June), 1–11. <https://doi.org/10.3389/fnhum.2017.00316>
- Maciejczyk, M., Matczuk, J., Żendzian-Piotrowska, M., Niklińska, W., Fejfer, K., Szarmach, I., ... Zalewska, A. (2018). Eight-Week Consumption of High-Sucrose Diet Has a Pro-Oxidant Effect and Alters the Function of the. *Nutrients*. <https://doi.org/10.3390/nu10101530>
- Malik, V. S., & Hu, F. B. (2015). Fructose and Cardiometabolic Health What the Evidence from Sugar-Sweetened Beverages Tells Us. *Journal of the American College of Cardiology*, 66(14), 1615–1624. <https://doi.org/10.1016/j.jacc.2015.08.025>
- Mario Coccia. (2017). The Fishbone diagram to identify, systematize and analyze the sources of general purpose technologies. *The Fishbone diagram to identify, systematize and analyze the sources of general purpose technologies*, 4(4), 291–303. <https://doi.org/10.1453/jsas.v4i4.1518>
- Mitsugu, A. (2020). Protein carbonylation: molecular mechanisms, biological implications, and analytical approaches. *Free Radical Research*, 0(0), 000. <https://doi.org/10.1080/10715762.2020.1851027>
- Moiseenkova-Bell, V. Y., Samanta, A., & Hughes, T. E. (2018). Transient receptor potential (TRP) Channels. *British Journal of Pharmacology*, S120–

- S125. <https://doi.org/10.1038/sj.bjp.0706607>
- Molina, M., Allende, L. M., Ramos, L. E., Gutiérrez, E., Pleguezuelo, D. E., Hernández, E. R., ... Morales, E. (2018). CD19+ B-cells, a new biomarker of mortality in hemodialysis patients. *Frontiers in Immunology*, 9(JUN), 1–8. <https://doi.org/10.3389/fimmu.2018.01221>
- Morey, J. N., Boggero, I. A., Scott, A. B., & Segerstrom, S. C. (2015). ScienceDirect Current directions in stress and human immune function. *Current Opinion in Psychology*, 5, 13–17. <https://doi.org/10.1016/j.copsyc.2015.03.007>
- Ore, A., & Akinloye, O. A. (2019). Oxidative Stress and Antioxidant Biomarkers in Clinical and Experimental Models of Non-Alcoholic Fatty Liver Disease, 1–14. <https://doi.org/10.3390/medicina55020026>
- Organization World Health. (2018). Guideline: Sugars intake for adults and children. *World Health Organization*, 57(6), 1716–1722.
- Page, K. A., Chan, O., Arora, J., Belfort-DeAguiar, R., Dzuira, J., Roehmholdt, B., ... Sherwin, R. S. (2013). Effects of fructose vs glucose on regional cerebral blood flow in brain regions involved with appetite and reward pathways. *JAMA - Journal of the American Medical Association*, 309(1), 63–70. <https://doi.org/10.1001/jama.2012.116975>
- Parola, M., & Novo, E. (2005). Nrf1 gene expression in the liver: A single gene linking oxidative stress to NAFLD, NASH and hepatic tumors. *Journal of Hepatology*, 43(6), 1096–1097. <https://doi.org/10.1016/j.jhep.2005.09.008>
- Peluffo, G., & Radi, R. (2007). Biochemistry of protein tyrosine nitration in cardiovascular pathology. *Cardiovascular Research*, 75(2), 291–302. <https://doi.org/10.1016/j.cardiores.2007.04.024>
- Permenkes. (2013). Permenkes No. 30 Th 2013 Gula Garam Lemak.pdf.
- Prasad, K., & Hons, M. (2014). Oxidative Stress as a Mechanism of Added Sugar- Induced Cardiovascular Disease.
- Priest, C., & Tontonoz, P. (2019). Inter-organ cross-talk in metabolic syndrome. *Nature Metabolism*, 1(12), 1177–1188. <https://doi.org/10.1038/s42255-019-0145-5>

- Qiu, X., Brown, K., Hirschey, M. D., Verdin, E., & Chen, D. (2010). Calorie restriction reduces oxidative stress by SIRT3-mediated SOD2 activation. *Cell Metabolism*, 12(6), 662–667. <https://doi.org/10.1016/j.cmet.2010.11.015>
- Rawdin, B. S., Mellon, S. H., Dhabhar, F. S., Epel, E. S., Puterman, E., Su, Y., ... Wolkowitz, O. M. (2012). Brain , Behavior , and Immunity Dysregulated relationship of inflammation and oxidative stress in major depression. <https://doi.org/10.1016/j.bbi.2012.11.011>
- Rohleder, N. (2019). Stress and inflammation – The need to address the gap in the transition between acute and chronic stress effects. *Psychoneuroendocrinology*, 105(August 2018), 164–171. <https://doi.org/10.1016/j.psyneuen.2019.02.021>
- Rosales-gómez, C. A., Martínez-carrillo, B. E., Reséndiz-albor, A. A., Ramírez-durán, N., Valdés-ramos, R., Mondragón-velásquez, T., & Escoto-herrera, J. A. (2018). Chronic Consumption of Sweeteners and Its Effect on Glycaemia, Cytokines, Hormones, and Lymphocytes of GALT in CD1 Mice, 2018.
- Schwarz, E. C., Wolfs, M. J., Tonner, S., Wenning, A. S., Quintana, A., Griesemer, D., & Hoth, M. (2007). TRP channels in lymphocytes. *Handbook of Experimental Pharmacology*, 179, 445–456. https://doi.org/10.1007/978-3-540-34891-7_26
- Schwimmer, J. B., Ugalde-Nicalo, P., Welsh, J. A., Angeles, J. E., Cordero, M., Harlow, K. E., ... Vos, M. B. (2019). Effect of a Low Free Sugar Diet vs Usual Diet on Nonalcoholic Fatty Liver Disease in Adolescent Boys: A Randomized Clinical Trial. *JAMA - Journal of the American Medical Association*, 321(3), 256–265. <https://doi.org/10.1001/jama.2018.20579>
- Serasanambati, M., & Chilakapati, S. R. (2016). Function of Nuclear Factor kappa B (NF-kB) in human diseases-A Review, (November). <https://doi.org/10.22205/sijbs/2016/v2/i4/103443>
- Slavich, G. M., & Irwin, M. R. (2014). From stress to inflammation and major depressive disorder: A social signal transduction theory of depression. *Psychological Bulletin*, 140(3), 774–815. <https://doi.org/10.1037/a0035302>

- Smith, G. P. (2014). Chapter 1. Introduction to the Immune Response. *The Variation and Adaptive Expression of Antibodies*, 2024, 1–11. <https://doi.org/10.4159/harvard.9780674365148.intro>
- Søberg, S., Sandholt, C. H., Jespersen, N. Z., Toft, U., Madsen, A. L., von Holstein-Rathlou, S., ... Grarup, N. (2017). FGF21 Is a Sugar-Induced Hormone Associated with Sweet Intake and Preference in Humans. *Cell Metabolism*, 25(5), 1045–1053.e6. <https://doi.org/10.1016/j.cmet.2017.04.009>
- Tan, B. L., Norhaizan, M. E., & Liew, W. (2018). Review Article Nutrients and Oxidative Stress: Friend or Foe? *Oxidative Medicine and Cellular Longevity*, 2018, 1–24.
- Thoits, P. A. (2010). Stress and Health: Major Findings and Policy Implications. <https://doi.org/10.1177/0022146510383499>
- Veličković, N., Teofilović, A., Ilić, D., Djordjevic, A., & Vojnović, D. (2019). Modulation of hepatic inflammation and energy-sensing pathways in the rat liver by high-fructose diet and chronic stress. *European Journal of Nutrition*, 58(5), 1829–1845. <https://doi.org/10.1007/s00394-018-1730-1>
- Von Holstein-Rathlou, S., Bondurant, L. D., Peltekian, L., Naber, M. C., Yin, T. C., Claflin, K. E., ... Potthoff, M. J. (2016). FGF21 mediates endocrine control of simple sugar intake and sweet taste preference by the liver. *Cell Metabolism*, 23(2), 335–343. <https://doi.org/10.1016/j.cmet.2015.12.003>
- Welsh, J. A., & Cunningham, S. A. (2011). The role of added sugars in pediatric obesity. *Pediatric Clinics of North America*, 58(6), 1455–1466. <https://doi.org/10.1016/j.pcl.2011.09.009>
- Wuensch, T., Thilo, F., Krueger, K., Scholze, A., Ristow, M., & Tepel, M. (2010). High Glucose – Induced Oxidative Stress Increases, 59(April), 3–8. <https://doi.org/10.2337/db09-1100.T.W.>
- Yau, Y. H. C., & Potenza, M. N. (2013). Stress and eating behaviors. *Minerva Endocrinologica*, 38(3), 255–267.
- Yin, Q., Ma, Y., Hong, Y., Hou, X., Chen, J., Shen, C., ... Liu, X. (2014). Lycopene attenuates insulin signaling deficits, oxidative stress,

neuroinflammation, and cognitive impairment in fructose-drinking insulin resistant rats. *Neuropharmacology*, 86(August), 389–396.
<https://doi.org/10.1016/j.neuropharm.2014.07.020>

You, Z., Luo, C., Zhang, W., Chen, Y., He, J., Zhao, Q., ... Wu, Y. (2011). Pro- and anti-inflammatory cytokines expression in rat 's brain and spleen exposed to chronic mild stress : Involvement in depression Reverse primer. *Behavioural Brain Research*, 225(1), 135–141.
<https://doi.org/10.1016/j.bbr.2011.07.006>

