

DAFTAR PUSTAKA

- Argano, C., Mirarchi, L., Amodeo, S., Orlando, V., Torres, A., Corrao, S. (2023). The role of vitamin D and its molecular bases in insulin resistance, diabetes, metabolic syndrome, and cardiovascular disease: state of the art. *International Journal of Molecular Sciences*, 24(20), 15485.
- Asbah, A., Ummussaadah, U., Parenden, N., Putri, A., Rosa, R., Rumata, N., Emran, T., Dhama, K., & Nainu, F. (2021). Pharmacological effect of caffeine on *Drosophila melanogaster*: A proof-of-concept in vivo study for nootropic investigation. *Archives of Razi Institute*, 76(6), 1645.
- Baenas, N., & Wagner, A. E. (2022). *Drosophila melanogaster* as a model organism for obesity and type-2 diabetes mellitus by applying high-sugar and high-fat diets. *Biomolecules*, 12(2), 307.
- Bauer, R. C., Yenilmez, B. O., & Rader, D. J. (2015). Tribbles-1: a novel regulator of hepatic lipid metabolism in humans. *Biochemical Society Transactions*, 43(5), 1079-1084.
- Bayliak, M. M., Abrat, O. B., Storey, J. M., Storey, K. B., Lushchak, V. I. (2019). Interplay between diet-induced obesity and oxidative stress: Comparison between *Drosophila* and mammals. *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology*, 228, 18-28.
- Chandrasekaran, P., & Weiskirchen, R. (2024). The role of obesity in type 2 diabetes mellitus—An overview. *International Journal of Molecular Sciences*, 25(3), 1882.
- Ferdina, A. R., Arfines, P. P., & Aryastami, N. K. (2024). Obesity in urban Indonesia: evidence from the 2007 and 2018 Basic Health Research.
- Furukawa, S., Fujita, T., Shimabukuro, M., Iwaki, M., Yamada, Y., Nakajima, Y., Nakayama, O., Makishima, M., Matsuda, M., & Shimomura, I. (2017). Increased oxidative stress in obesity and its impact on metabolic syndrome. *The Journal of clinical investigation*, 114(12), 1752-1761.
- Hardiyanti, W., Djabir, Y. Y., Fatiah, D., Pratama, M. R., Putri, T. Z. A. D., Chaeratunnisa, R., Latada, N. P., Mudjahid, M., Asri, R. M., & Nainu, F. (2024). Evaluating the Impact of Vitamin D3 on NF- κ B and JAK/STAT Signaling Pathways in *Drosophila melanogaster*. *ACS omega*, 9(18), 20135-20141.
- Herberg, L., & Coleman, D. L. (1977). Laboratory animals exhibiting obesity and diabetes syndromes. *Metabolism*, 26(1), 59-99.
- Jadhav, K. S., & Bauer, R. C. (2019). Trouble With Tribbles-1. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 39(6), 998-1005. <https://doi.org/doi:10.1161/ATVBAHA.118.311573>
- Jeong, S.-M., Jung, J.-H., Yang, Y. S., Kim, W., Cho, I. Y., Lee, Y.-B., Park, K.-Y., Nam, G. E., & Han, K. (2024). 2023 Obesity Fact Sheet: Prevalence of Obesity and Abdominal Obesity in Adults, Adolescents, and Children in Korea from 2012 to 2021. *Journal of Obesity & Metabolic Syndrome*, 33(1), 27.
- Liao, S., Amcoff, M., & Nässel, D. R. (2021). Impact of high-fat diet on lifespan, metabolism, fecundity and behavioral senescence in *Drosophila*. *Insect biochemistry and molecular biology*, 133, 103495.
- Lobstein, T., Brinsden, H., & Neveux, M. (2022). World obesity atlas 2022.
- Loos, R. J., & Yeo, G. S. (2022). The genetics of obesity: from discovery to biology. *Nature Reviews Genetics*, 23(2), 120-133.
- Lourido, F., Quenti, D., Salgado-Canales, D., & Tobar, N. (2021). Domeless receptor loss in fat body tissue reverts insulin resistance induced by a high-sugar diet in *Drosophila melanogaster*. *Scientific reports*, 11(1), 3263.
- Malacrida, S., De Lazzari, F., Mrakic-Spota, S., Vezzoli, A., Zordan, M. A., Bisaglia, M., Menti, G. M., Meda, N., Frighetto, G., & Bosco, G. (2022). Lifespan and ROS levels in different *Drosophila melanogaster* strains after 24 h hypoxia exposure. *Biology Open*, 11(6), bio059386.
- Masenga, S. K., Kabwe, L. S., Chakulya, M., & Kirabo, A. (2023). Mechanisms of oxidative stress in metabolic syndrome. *International Journal of Molecular Sciences*, 24(9), 7898.
- Merigliano, C., Mascolo, E., La Torre, M., Saggio, I., & Verni, F. (2018). Protective role of vitamin B6 (PLP) against DNA damage in *Drosophila* models of type 2 diabetes. *Scientific reports*, 8(1), 11432.
- (2020). Estimation of Oxidative Stress and Survivorship in *Drosophila*. In M. Mishra *Experimental Approaches to Screen Abnormalities in Drosophila* Springer Protocols <https://doi.org/doi:10.1007/978-1-4939-9756-5>
- , M., Tschöp, M. H., & DiMarchi, R. D. (2022). Anti-obesity drug discovery: advances in genetics. *Nature Reviews Drug Discovery*, 21(3), 201-223.
- & Kühnlein, R. P. (2018). *Drosophila* as a model to study obesity and metabolic disease. *Journal of Experimental Biology*, 221(Suppl_1), jeb163881.



- Nainu, F., Jota Baptista, C., Faustino-Rocha, A., & Oliveira, P. A. (2023). Model organisms in experimental pharmacology and drug discovery 2022. In (Vol. 14, pp. 1143934): Frontiers Media SA.
- Nainu, F., Salim, E., Asri, R. M., Hori, A., & Kuraishi, T. (2019). Neurodegenerative disorders and sterile inflammation: lessons from a *Drosophila* model. *The journal of biochemistry*, 166(3), 213-221.
- Nayak, N., & Mishra, M. (2021). High fat diet induced abnormalities in metabolism, growth, behavior, and circadian clock in *Drosophila melanogaster*. *Life Sciences*, 281, 119758.
- Neamtu, A.-A., Szoke-Kovacs, R., Mihok, E., Georgescu, C., Turcus, V., Olah, N. K., Frum, A., Tita, O., Neamtu, C., & Szoke-Kovacs, Z. (2020). Bilberry (*Vaccinium myrtillus* L.) extracts comparative analysis regarding their phytonutrient profiles, antioxidant capacity along with the in vivo rescue effects tested on a *Drosophila melanogaster* high-sugar diet model. *Antioxidants*, 9(11), 1067.
- Nichols, C. D., Becnel, J., & Pandey, U. B. (2012). Methods to assay *Drosophila* behavior. *Journal of visualized experiments: JoVE*(61), 3795.
- Ong, K. L., Stafford, L. K., McLaughlin, S. A., Boyko, E. J., Vollset, S. E., Smith, A. E., Dalton, B. E., Duprey, J., Cruz, J. A., & Hagins, H. (2023). Global, regional, and national burden of diabetes from 1990 to 2021, with projections of prevalence to 2050: a systematic analysis for the Global Burden of Disease Study 2021. *The Lancet*, 402(10397), 203-234.
- Palanker Musselman, L., Fink, J. L., Narzinski, K., Ramachandran, P. V., Sukumar Hathiramani, S., Cagan, R. L., & Baranski, T. J. (2011). A high-sugar diet produces obesity and insulin resistance in wild-type *Drosophila*. *Disease models & mechanisms*, 4(6), 842-849.
- Perna, S. (2019). Is vitamin D supplementation useful for weight loss programs? A systematic review and meta-analysis of randomized controlled trials. *Medicina*, 55(7), 368.
- Pinti, M. V., Fink, G. K., Hathaway, Q. A., Durr, A. J., Kunovac, A., & Hollander, J. M. (2019). Mitochondrial dysfunction in type 2 diabetes mellitus: an organ-based analysis. *American Journal of Physiology-Endocrinology and Metabolism*.
- Szymczak-Pajor, I., Drzewoski, J., & Śliwińska, A. (2020). The molecular mechanisms by which vitamin D prevents insulin resistance and associated disorders. *International Journal of Molecular Sciences*, 21(18), 6644.
- Trinh, I., & Boulianne, G. L. (2013). Modeling obesity and its associated disorders in *Drosophila*. *Physiology*, 28(2), 117-124.
- Wortsman, J., Matsuoka, L. Y., Chen, T. C., Lu, Z., & Holick, M. F. (2000). Decreased bioavailability of vitamin D in obesity. *The American journal of clinical nutrition*, 72(3), 690-693.
- Zhang, C., Wang, G., Yin, X., Gou, L., Guo, M., Suo, F., Zhuang, T., Yuan, Z., Liu, Y., & Gu, M. (2024). Hepatic protein phosphatase 1 regulatory subunit 3G alleviates obesity and liver steatosis by regulating the gut microbiota and bile acid metabolism. *Journal of Pharmaceutical Analysis*, 14(8), 100976-100976.
- Zhao, Y., Duan, J., van de Leemput, J., & Han, Z. (2023). Cardiac neurons expressing a glucagon-like receptor mediate cardiac arrhythmia induced by high-fat diet in *Drosophila*. *bioRxiv*, 2023.2012.2013.571403.

