

## DAFTAR PUSTAKA

- Abdulla, A. R., Ismail, H. K., Kassim, H. J., & Al-Hindawi, A. M. (2025). Acute and chronic stress exposure effects on renal biomarkers in experimental animals. *Al-Rafidain Journal of Medical Sciences*, 3(1), 1–10. <https://doi.org/10.54133/ajms.v9i1.2022>
- Acosta-Rodríguez, V. A., de Groot, M. H. M., Rijo-Ferreira, F., Green, C. B., & Takahashi, J. S. (2022). Circadian alignment of early onset caloric restriction promotes longevity in male C57BL/6J mice. *Science*, 376(6598), 1192–1202. <https://doi.org/10.1126/science.abk0297>
- Alexa, A. I., Zamfir, C. L., Bogdănici, C. M., Oancea, A., Maștaleru, A., Abdulan, I. M., Brănișteanu, D. C., Ciobîcă, A., Balmuş, M., Stratulat-Alexa, T., Ciuntu, R. E., Severin, F., Mocanu, M., & Leon, M. M. (2023). The impact of chronic stress on behavior and body mass in new animal models. *Brain Sciences*, 13(10), 1492. <https://doi.org/10.3390/brainsci13101492>
- Aspinall, V., & Capello, M. (2020). *Introduction to animal and veterinary anatomy and physiology* (4th ed.). CABI.
- Bailoo, J. D., Murphy, E., Varholick, J. A., Novak, J., Palme, R., & Würbel, H. (2018). Effects of cage enrichment on behavior, welfare and outcome variability in female mice. *Frontiers in Behavioral Neuroscience*, 12, 232. <https://doi.org/10.3389/fnbeh.2018.00232>
- Carbone, L., & Lindstrom, K. (2019). Mitigating staff compassion fatigue in laboratory animal research. *Journal of the American Association for Laboratory Animal Science*, 58(3), 289–292. <https://doi.org/10.30802/AALAS-JAALAS-18-000115>
- Colville, T., & Bassert, J. M. (2016). *Clinical anatomy and physiology for veterinary technicians* (3rd ed.). Elsevier.
- Debnath, A., Ali, M. A., Newmai, K., Madhuri, P., Azyu, R. Z., & Malsawmsangi. (2024). Effective management of Wistar rats in laboratory research: A brief review. *International Journal of Advanced Biochemistry Research*, SP-8(12), 654–659. <https://doi.org/10.33545/26174693.2024.v8.112Si.3182>
- Dewi, D. I. (2010). Tikus riul (*Rattus norvegicus* Berkenhout, 1769). *BALABA*, 6(2), 22–23. <https://doi.org/10.22435/balaba.v6i2>
- Dhana, A. S. (2012). *Sistem manajemen dan analisis usaha peternakan tikus Wistar (Rattus norvegicus) strain putih* (Tesis). Universitas Airlangga.
- Escribano, D., Campos, C., Gutiérrez, A. M., Leiva, J. L. M., & Tecles, F. (2014). Impact of light/dark cycle patterns on oxidative stress in an adriamycin-induced nephropathy model in Wistar rats. *PLOS ONE*, 9(1), e85281. <https://doi.org/10.1371/journal.pone.0113776>
- Fails, A. D., & Magee, C. (2018). *Anatomy and physiology of farm animals* (8th ed.). Wiley Blackwell.

- Gaskill, B. N., & Garner, J. P. (2017). Stressed out: Providing laboratory animals with behavioral control to reduce the physiological effects of stress. *Lab Animal*, 49(7), 180–181. <https://doi.org/10.1038/lab.1218>
- Gordon, C. J. (2012). Thermal physiology of laboratory mice: Defining thermoneutrality. *Journal of Thermal Biology*, 91, 102606. <https://doi.org/10.1016/j.jtherbio.2012.08.004>
- Gould, T. D., Dao, D. T., & Kovacsics, C. E. (2009). The open field test. In T. D. Gould (Ed.), *Mood and anxiety related phenotypes in mice*. *Neuromethods*, 42: 1–20. [https://doi.org/10.1007/978-1-60761-303-9\\_1](https://doi.org/10.1007/978-1-60761-303-9_1)
- Grimm, H., Biller-Andorno, N., Buch, T., Dahlhoff, M., Davies, G., Cederroth, C. R., Maissen, O., Lukas, W., Passini, E., Törnqvist, E., & Olsson, I. A. S. (2023). Advancing the 3Rs: Innovation, implementation, ethics and society. *Frontiers in Veterinary Science*, 10, 1185706. <https://doi.org/10.3389/fvets.2023.1185706>
- Hankenson, F. C., Marx, J. O., Gordon, C. J., & David, J. M. (2018). Effects of rodent thermoregulation on animal models in the research environment. *Comparative Medicine*, 68(6), 425–438. <https://doi.org/10.30802/AALAS-CM-18-000049>
- Hau, J., & Schapiro, S. J. (2011). *Handbook of laboratory animal science* 3rd ed. *Essential principles and practices*. CRC Press.
- Herrmann, K., & Flecknell, P. (2019). Retrospective review of anesthetic and analgesic regimens used in animal research. *Journal of the American Association for Laboratory Animal Science*, 58(4), 424–432. <https://doi.org/10.30802/AALAS-JAALAS-18-000136>
- Huzard, D., Rappeneau, V., Meijer, O. C., Touma, C., Arango-Lievano, M., Garabedian, M. J., & Jeanneteau, F. (2020). The impact of chronic stress on the rat brain lipidome. *Molecular Psychiatry*, 25(12), 3385–3397. <https://doi.org/10.1038/s41380-019-0579-1>
- John, L. M., Petersen, N., Gerstenberg, M. K., Torz, L., Pedersen, K., Christoffersen, B. Ø., & Kuhre, R. E. (2022). Housing-temperature reveals energy intake counter-balances energy expenditure in normal-weight, but not diet-induced obese, male mice. *Communications Biology*, 5(1), 946. <https://doi.org/10.1038/s42003-022-03895-8>
- Kanoo, S., Goodluck, H., Kim, Y. C., Navarro Garrido, A., Crespo-Masip, M., Lopez, N., Zhang, H., Gonzalez-Villalobos, R. A., Ma, L.-J., & Vallon, V. (2024). Deletion, but not heterozygosity, of eNOS raises blood pressure and aggravates nephropathy in BTBR ob/ob mice. *Nephron*, 148(9), 631–642. <https://doi.org/10.1159/000536522>
- Karp, C. L. (2012). Unstressing intemperate models: How cold stress undermines mouse modeling. *Journal of Experimental Medicine*, 209(6), 1069–1074. <https://doi.org/10.1084/jem.20120988>
- Kasiyani, & Tana, S. (2020). *Penanganan hewan coba*. Departemen Biologi FSM Universitas Diponegoro.

- Komang, M. S. W. N., Putu, T. N. L., dan Nengah, A. I. (2014). Studi Pengaruh Lamanya Pemaparan Medan Magnet terhadap Jumlah Sel Darah Putih (Leukosit) pada Tikus Putih (*Rattus norvegicus*). *Buletin Fisika*, 15(1), 31–38.
- Kondashevskaya, M. V., & Mkhitarov, V. A. (2006). Hematological parameters in Wistar rats in conditions of stress and treatment with heparin. *Neuroscience and Behavioral Physiology*, 36(1), 29–34. <https://doi.org/10.1007/S11055-005-0159-1>
- Kumar, K. G., Trevaskis, J. L., Lam, D. D., Sutton, G. M., Koza, R. A., Chouljenko, V. N., Kousoulas, K. G., Rogers, P. M., Kesterson, R. A., Thearle, M., Ferrante, A. W., Mynatt, R. L., Burris, T. P., Dong, J. Z., Halem, H. A., Culler, M. D., Heisler, L. K., Stephens, J. M., & Butler, A. A. (2008). Identification of adropin as a secreted factor linking dietary macronutrient intake with energy homeostasis and lipid metabolism. *Cell Metabolism*, 8(6), 468–481. <https://doi.org/10.1016/j.cmet.2008.10.011>
- Lee, G. H., Kim, K., & Jo, W. (2023). Stress evaluation of mouse husbandry environments for improving laboratory *Animal welfare*. *Animals*, 13(2), 1–11. <https://doi.org/10.3390/ani13020249>
- Luna-Moreno, D., Rentería-Flores, J. A., & Hernández-Montiel, M. L. (2012). Daytime restricted feeding modifies 24-h rhythmicity of urea cycle in rat liver. *British Journal of Nutrition*, 107(7), 995–1005. <https://doi.org/10.1017/S0007114512000268>
- Mellor, D. J., Beausoleil, N. J., Littlewood, K. E., McLean, A. N., McGreevy, P. D., Jones, B., & Wilkins, C. (2020). The 2020 Five Domains Model: Including human–animal interactions in assessments of *Animal welfare*. *Animals*, 10(10), 1870. <https://doi.org/10.3390/ani10101870>
- Mu'nisa, A., Jumadi, O., Junda, M., Wharto, M., & Hamjaya, H. (2022). *Teknik manajemen dan pengelolaan hewan percobaan*. FMIPA UNM.
- Mutiarahmi, C. N., Hartady, T., & Lesmana, R. (2021). Kajian pustaka: Penggunaan mencit sebagai hewan coba di laboratorium yang mengacu pada prinsip kesejahteraan hewan. *Jurnal Indonesia Medicus Veterinus*, 10(1), 134–145. <https://doi.org/10.19087/imv.2021.10.1.134>
- Nakamura, K., Nakamura, Y., & Kataoka, N. (2021). A hypothalamomedullary network for physiological responses to environmental stresses. *Nature Reviews Neuroscience*, 23(1), 35–52. <https://doi.org/10.1038/s41583-021-00532-x>
- Nwoguze, B. C., Ofili, I. M., Nnama, T. N., & Aloamaka, C. P. (2023). Oxidative stress-induced by different stressors alters kidney tissue antioxidant markers and levels of creatinine and urea. *Scientific Reports*, 13, 13309. <https://doi.org/10.1038/s41598-023-40454-5>
- Percie du Sert, N., Ahluwalia, A., Alam, S., Avey, M. T., Baker, M., Browne, W. J., Clark, A., Cuthill, I. C., Dirnagl, U., Emerson, M., Garner, P., Holgate, S. T., Howells, D. W., Hurst, V., Karp, N. A., Lazic, S. E., Lidster, K., MacCallum, C. J., Macleod, M., Pearl, E. J., Petersen, O. H., Rawle, F., Reynolds, P.,

- Rooney, K., Sena, E. S., Silberberg, S. D., Steckler, T., & Würbel, H. (2020). Reporting animal research: Explanation and elaboration for the ARRIVE guidelines 2.0. *PLOS Biology*, 18(7), e3000411. <https://doi.org/10.1371/journal.pbio.3000410>
- Qiao, J.-J., Liu, Y., Zhang, Y., Wang, X., Li, J., & Zhang, H. (2022). *Effectiveness of ozone treatment of bedding and feces of laboratory animals*. PLoS ONE, 17(4), e0266223. <https://doi.org/10.1371/journal.pone.0266223>
- Seibenhener, M. L., & Wooten, M. C. (2015). Use of the open field maze to measure locomotor and anxiety-like behavior in mice. *Journal of Visualized Experiments*, (96), e52434. <https://doi.org/10.3791/52434>
- Sharp, P., & Vilano, J. (2012). *The laboratory rat* (2nd ed.). CRC Press.
- Tran, I., & Gellner, A. K. (2023). Long-term effects of chronic stress models in adult mice. *Journal of Neural Transmission*, 130(9), 1133–1151. <https://doi.org/10.1007/s00702-023-02598-6>
- Uarquin, D. G., Meyer, J. S., Cardenas, F. P., & Rojas, M. J. (2016). Effect of overcrowding on hair corticosterone concentrations in juvenile male Wistar rats. *Journal of the American Association for Laboratory Animal Science*, 55(6), 749–755. PMID: 27931312; PMCID: PMC5113875.
- Vukovic, R., Kumburovic, I., Joksimovic Jovic, J., Jovicic, N., Katanic Stankovic, J. S., Mihailovic, V., Djuric, M., Velickovic, S., Arnaut, A., Selakovic, D., & Rosic, G. (2019). N-Acetylcysteine protects against the anxiogenic response to cisplatin in rats. *Biomolecules*, 9(12), 892. <https://doi.org/10.3390/biom9120892>
- Wati, D. N., Ilyas, S., & Yurnadi. (2024). *Prinsip dasar tikus sebagai model penelitian*. USU Press.
- Yurista, S. R., Ferdian, R. A., & Sargowo, D. (2016). Prinsip 3Rs dan pedoman ARRIVE pada studi hewan coba. *Indonesian Journal of Cardiology*, 37(3), 157–163. <https://doi.org/10.30701/ijc.v37i3.579>