

DAFTAR PUSTAKA

- Amaya, V., Paterson, M. B., & Phillips, C. J. 2020. Effects of olfactory and auditory enrichment on the behaviour of shelter dogs. *Animals*. Vol. 10(4): 581.
- Archibald, M., Lawless, M., Ambagtsheer, R. C., & Kitson, A. 2020. Older adults' understandings and perspectives on frailty in community and residential aged care: an interpretive description. *BMJ Open*. Vol. 10(3).
- Astuti. 2015. Pengaruh Aromaterapi Bitter Orange Terhadap Nyeri dan Kecemasan Fase Aktif Kala I. *Jurnal University Research Coloquim*.
- Bayne, K. 2018. Environmental enrichment and mouse models: Current perspectives. *Animal Model Exp Med*. Vol. 1–90: 82–90.
- Beaver, B.V. 1989. Environmental enrichment for laboratory animals. In ILAR News, National Institute of Environmental Health Sciences, Comparative Medicine Branch, & Texas A&M University, *ILAR News*. Vol. 31(2): 5.
- Bethell, E. J., & Koyama, N. F. 2015. Happy hamsters? Enrichment induces positive judgement bias for mildly (but not truly) ambiguous cues to reward and punishment in *Mesocricetus auratus*. *Royal Society Open Science*. Vol. 2(7): 140399.
- Boguszewski, P., J. Zagrodzka. 2002. Emotional Changes Related to Age in Rats – a Behavioral Analysis. *Behavioral Brain Research*. Vol. 133: 323-332.
- Broom, D. M. 1997. Animal behaviour as an indicator of animal welfare in different housing and management systems. *Applied Animal Behaviour Science*. Vol. 54: 1–19.
- Carroll, G., Taylor, K., Stallard, C., & Wills, A. 2025. Small mammal owners' experiences of housing challenges and animal welfare: A COM-B and word frequency analysis. *Animal Welfare*. Vol. 34(59): 1-10.
- Chioca, L. R., Ferro, M. M., Baretta, I. P., Oliveira, S. M., Silva, C. R., Ferreira, J., Losso, E. M., & Andreatini, R. 2013. Anxiolytic-like effect of lavender essential oil inhalation in mice: Participation of serotonergic but not GABAA/benzodiazepine neurotransmission. *Journal of Ethnopharmacology*. Vol. 147(2): 412–418.
- De Sousa, D. P., P.D.A.S. Hocayen, L.N. Andrade, R. Andreatini. 2015. A Systematic Review of the Anxiolytic-Like Effects of Essential Oils in Animal Models. *Molecules*. Vol. 20: 18620-18660.

- Ellis, S. 2009. Environmental enrichment for cats. *JFMS CLINICAL PRACTICE*. Vol 11: 902–903.
- Etim, N. A. N., Edem, E. A. O., Glory, D. E., Meti, A. D. U. 2014. Stres and Animal Welfare: An Uneasy Relationship. *European Journal of Research in Medical Sciences*. Vol. 2(1): 8-15.
- Ez zoubi, Y., Bousta, D., & Farah, A. 2020. A Phytopharmacological review of a Mediterranean plant: *Lavandula stoechas* L. *Clinical Phytoscience*. Vol. 6(1).
- Fenton, L., Benato, L., Mancinelli, E., & Rooney, N. J. 2025. What are the most prevalent welfare issues for pet small mammals? *Animals*. Vol.15(10): 1423.
- Fischer, K., Gebhardt-Henrich, S. G., Steiger, A. 2008. Behaviour of golden hamsters (*Mesocricetus auratus*) kept in four different cage sizes. In *Animal Welfare*. Vol. 16(16): 85–93.
- Garner, J. P., & Mason, G. J. 2002. Evidence for a relationship between cage stereotypies and behavioural disinhibition in laboratory rodents. *Behavioral Brain Research*. Vol. 136: 83-92.
- Gebhardt-Henrich, S. G., & Vonlanthen, S. 2005. *How does the running wheel affect the behaviour and reproduction of golden hamsters kept as pets?* Institut für Tierärztliche Pharmakologie und Toxikologie, Universität Bern.
- Goldman, S. L., Jr., Dhandapani, K., Goldman, B. D., University of Connecticut, & Medical College of Georgia. 2000. PHOTOPERIOD RESPONSIVENESS IN HAMSTERS. In *JOURNAL OF BIOLOGICAL RHYTHMS*. Vol. 15(5): 417–428.
- Graham, L., Wells, D. L., & Hepper, P. G. 2004. The influence of olfactory stimulation on the behaviour of dogs housed in a rescue shelter. *Applied Animal Behaviour Science*. Vol. 91(1–2): 143–153.
- Gygax, M., Fortes, M. S., Voelkl, B., Würbel, H., & Novak, J. 2024. Rattling the cage: Behaviour and resource use of mice in laboratory and pet cages. *Applied Animal Behaviour Science*. Vol. 278: 106381.
- Hamka, F. K. 2022. *Perilaku Makan Hamster (*Mesocricetus auratus*) Jantan Dan Betina dengan Menggunakan 3 Janis Pakan*.
- Haze, S. 2021. Aromatherapy: A Historical Perspective. *Journal of Essential Oil Research*. Vol. 33(2): 158-172.
- Herrera-Isaza, L., Zárate-Guerrero, S., Corredor, K., Gómez-Fonseca, Á., Escobar-Cornejo, G., & Cardenas, F. P. 2023. Role of environmental enrichment on social interaction, anxiety, locomotion, and memory in

- Wistar rats under chronic methylphenidate intake. *Frontiers in Behavioral Neuroscience*. Vol. 17.
- Hunt, R. L., Whiteside, H., & Prankel, S. 2022. Effects of environmental enrichment on dog behaviour: pilot study. *Animals*. Vol. 12(2): 141.
- Intan, P. R., Khariri, K., & Puslitbang Biomedis dan Teknologi Dasar kesehatan. 2020. The use of laboratory animals in supporting the development of the medical world. In *Prosiding Seminar Nasional Sains*. Vol. 1(1):141–144.
- Jasmi, R. A., Mairawita, & Dahelmi. 2014. Jenis-Jenis Cacing Parasit Saluran Pencernaan pada Hamster Syria *Mesocricetus auratus* (Waterhouse, 1839) di Kota Padang. In *Jurnal Biologi Universitas Andalas (J. Bio. UA.)*. Vol. 3(1): 57–62.
- Jirkof, P., Rudeck, J., Lewejohann, L. 2019. Assessing affective state in laboratory rodents to Promote Animal Welfare—What is the progress in applied refinement research? *Animals*. vol. 9: 1026.
- Kalueff, A. V., Stewart, A. M., & Song, C. 2016. Neurobiology of rodent self-grooming and its value for translational neuroscience. *Nature Reviews Neuroscience*. Vol. 17(1): 45–59.
- Karisma, R.C., Maulina, R. 2022. Efektivitas Pemberian Aromaterapi Minyak Cananga Odorata dengan Metode Inhalasi untuk Menurunkan Hipertensi dalam Kehamilan. 2022. In Faculty of Medicine, *Healthy Tadulako Journal (Jurnal Kesehatan Tadulako)*. Vol. 8–8(3): 187–193.
- Khoo, S. Y.-S., *et al.* 2020. Nesting material enrichment reduces severity of overgrooming-related self-injury in individually housed rats. *Laboratory Animals*. Vol. 54(2): 167–178.
- Koensomardiyah. 2009. *Aromaterapi untuk kesehatan, kebugaran dan kecantikan*. Yogyakarta: Lily Publisher.
- Kusrohmaniah, S., R. Khairudin, A. B. Desa. 2017. Apakah Pengkayaan Lingkungan Berpengaruh terhadap Ingatan Spasial pada Tikus Jantan dan Betina?. *Jurnal Psikologi*. Vol. 44(2): 126-138.
- Lee, J. H., Choi, Y. J., & Lee, M. H. 2020. The effects of lavender aromatherapy on anxiety and stres: A meta-analysis. *Journal of Clinical Psychology*. Vol. 76(7): 1247-1260.
- Levitis, D. A., Lidicker Jr., W. Z., & Freund, G. 2009. Behavioural biologists don't agree on what constitutes behaviour. *Animal Behaviour*. Vol. 78(1): 103–110.
- Li, G., Lu, C., Yin, M., Wang, P., Zhang, P., Wu, J., Wang, W., Wang, D., Wang, M., Liu, J., Lin, X., Zhang, J.-X. 2024. Neural substrates for

- regulating self-grooming behavior in rodents. In *Journal of Zhejiang University-SCIENCE B (Biomedicine & Biotechnology)*. Vol. 25 (10): 841–856.
- Maghribi, M. C., A. Bakar, Rispianda. 2014. Analisis Kelayakan Usaha Peternakan Hamster di Bandung. *Jurnal Online Institut Teknologi Nasional*. Vol. 02(02): 342-352.
- Mason, G., & Latham, N. 2004. *Can't stop, won't stop: Is stereotypy a reliable animal welfare indicator?*
- Mieske, P., Hobbiesiefken, U., Fischer-Tenhagen, C., Heinel, C., Hohlbaum, K., Kahnau, P., Meier, J., Wilzopolski, J., Butzke, D., Rudeck, J., Lewejohann, L., & Diederich, K. 2022. Bored at home? A systematic review on the effect of environmental enrichment on the welfare of laboratory rats and mice. *Frontiers in Veterinary Science*. Vol. 9.
- Mu'nisa, A. dkk. 2022. *Teknik Manajemen dan Pengelolaan Hewan Percobaan (Memahami Perawatan Dan Kesejahteraan Hewan Percobaan)*. Makassar: Kampus UNM Parangtambung.
- Mayasari, N., Hiroyuki, A., Budinuryanto, D. C., Firmansyah, I., Ismiraj, M. R. 2023. Penerapan prinsip kesejahteraan hewan pada pemeliharaan ternak. In *Dharmakarya: Jurnal Aplikasi Ipteks Untuk Masyarakat*. Vol. 12(3): 360–373.
- NC3Rs (National Centre for the Replacement, Refinement & Reduction of Animals in Research). n.d. *General ethograms for laboratory rodents* (mice, rats, golden hamsters, gerbils, guinea pigs).
- Nurfallah, I. 2024. Efektivitas Aromaterapi Terhadap Nilai Distress Pada Pasien Tumor Otak. In *Tesis*. Universitas Indonesia.
- Poole, T. 1997. Happy animals make good science. *Laboratory Animals*. Vol. 31(2): 116–124.
- Pritasari, F. N., Parhusip, H. A., Susanto, B., Program, M., Matematika, S., Uksw, F., & Program, D. 2013. Anova Untuk Analisis Rata-Rata Respon Mahasiswa Kelas Listening. *Makalah Pendamping: Matematika*. Vol. 2.
- Sari, D. P., & Widodo, S. 2018. *Pengaruh aromaterapi terhadap tingkat stres hewan percobaan*. *Jurnal Keperawatan*. Vol. 3(2): 120–127.
- Sawrey, D. K., J., Baumgardner, D. J., Campa, M. J., Ferguson, B., Hodges, A. W., Dewsbury, D. A., & University of Florida. 1984. Behavioral patterns of Djungarian hamsters: An adaptive profile. In *Animal Learning & Behavior* Vols. 984-2(3): 297–306.
- Simpson, K. 2001. The Role of Testosterone in Aggression. *MJM*. Vol. 6(1): 31-40.

- Smith, K. L., Anderson, T., & Cole, J. 2022. The Impact of Essential Oils on Animal Stres Levels. *Journal of Animal Science*. Vol. 100(4): 1378-1390.
- Stanford Medicine. n.d. *Mouse Behavior Ethogram*. Department of Comparative Medicine, Stanford University School of Medicine. Diakses dari <https://med.stanford.edu/>
- suzuki, K., Kayaba, K., Tanuma, T., Kitazawa, J., & Yanagawa, H. 2005. suzuki 2005 Respiratory Symptoms and Hamsters or Other Pets a Large Sized Population. *Journal of Epidemiology*. Vol. 15 (1): 9–14.
- Tisserand, R., & Young, R. 2014. *Essential Oil Safety: A Guide for Health Care Professionals*. Churchill Livingstone.
- Van Sluyters, R. C., & Obernier, J. A. 2004. Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research. In *Contemporary Topics in Laboratory Animal Science*. Vol. 43 (2): 48–52.
- Wells, D. L. & School of Psychology, Queen's University Belfast. 2009. Sensory stimulation as *environmental enrichment* for captive animals: A review. In *Applied Animal Behaviour Science*. Vol. 118: 1–11.
- Yuandrian, N. P., Diani, K.R., Rohimah, S.N., Supriadi, Rusdiana, N. 2025. Manfaat Sediaan Lilin Aromaterapi Minyak Atsiri. In *Journal of Public Health Science (JoPHS)*. Vol. 2(2): 267–268.
- Zahwa, N.R. 2025. Pengaruh Variasi Jenis Kandang terhadap Tingkah Laku Indikator Stres Hamster Kerdil Campbell (*Phodopus campbelli* sp.). Universitas Gadjah Mada.
- Zheljazkov, V. D., Jr., Cantrell, C. L., Astatkie, T., & E. Jeliaskova. 2013. Distillation time Effect on lavender essential oil yield and composition. In *Journal of Oleo Science*. Vol. 62(4):195–199.