



DAFTAR PUSTAKA

- Arina, Y. M. D. (2003). Pengaruh Aging Terhadap Sistem Imun. Vol. 3, No. 1, Juli 2003.
- Aschner, M., & Aschner, J. L. (1992). Cellular and molecular effects of trimethyltin and triethyltin: relevance to organotin neurotoxicity. *Neuroscience and biobehavioral reviews*, 16(4), 427–435.
- Birjandi, S. Z., Ippolito, J. A., Ramadorai, A. K., & Witte, P. L. (2011). Alterations in marginal zone macrophages and marginal zone B cells in old mice. *Journal of immunology* (Baltimore, Md. : 1950), 186(6), 3441–3451. <https://doi.org/10.4049/jimmunol.1001271>
- Cesta, M. F. (2006). Normal structure, function, and histology of the spleen. *Toxicologic pathology*, 34(5), 455-465.
- Cheung, H. T., and Nadakavukaren, M. J. (1983). Age-dependent changes in the cellularity and ultrastructure of the spleen of Fischer F344 rats. *Mech Ageing Dev* 22, 23–33.
- Dejneka, N. S., Patanow, C. M., Polavarapu, R., Toggas, S. M., Krady, J. K., & Billingsley, M. L. (1997). Localization and characterization of stannin: relationship to cellular sensitivity to organotin compounds. *Neurochemistry international*, 31(6), 801–815. [https://doi.org/10.1016/s0197-0186\(97\)00034-x](https://doi.org/10.1016/s0197-0186(97)00034-x)
- El-Naseery, N. I., Mousa, H. S. E., Noreldin, A. E., El-Far, A. H., & Elewa, Y. H. A. (2020). Aging-associated immunosenescence via alterations in splenic immune cell populations in rat. *Life sciences*, 241, 117168. <https://doi.org/10.1016/j.lfs.2019.117168>
- Fan, Y., Li, X., Li, Q., Zhou, L., He, J., Lei, H., & Su, J. (2021). Effect of trimethyltin chloride on proliferation and cell cycle of intestinal porcine epithelial cells. *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*, 249, 109131. <https://doi.org/10.1016/j.cbpc.2021.109131>
- Geloso, M. C., Corvino, V., & Michetti, F. (2011). Trimethyltin-induced hippocampal degeneration as a tool to investigate neurodegenerative processes. *Neurochemistry international*, 58(7), 729-738.
- Hall, J. E. (2015). Guyton and hall textbook of medical physiology (13th ed.). W B Saunders.
- Harman, D. (1981). The aging process. *Proceedings of the National Academy of Sciences*, 78(11), 7124-7128.
- Hioe, K. M., & Jones, J. M. (1984). Effects of trimethyltin on the immune system of rats. *Toxicology letters*, 20(3), 317-323.
- Kaplan, H. M., Mishra, P., & Kohn, J. (2015). The overwhelming use of rat models in nerve regeneration research may compromise designs of nerve guidance conduits for humans. *Journal of materials science. Materials in medicine*, 26(8), 226. <https://doi.org/10.1007/s10856-015-5558-4>.
- Kristianingrum, Y. P., Widayatni, S. W. S., Kurniasih, K., Sutrisno, B. S. B., Tabbu, C. R. T. C. R., Tabbu, C. R., & Sugiyono, S. (2016). Gambaran



- Histopatologi Otak Tikus Akibat Injeksi Trimetyltin sebagai Model Penyakit Alzheimer. *Jurnal Sain Veteriner*, 34(1), 84-91.
- Lewis, S. M., Williams, A., & Eisenbarth, S. C. (2019). Structure and function of the immune system in the spleen. *Science immunology*, 4(33), eaau6085.
- Losco, P. (1992). Normal Development, Growth, and Aging of the Spleen. In: *Pathobiology of the Aging Rat* (U. Mohr, D. L. Dungworth and C. C. Capen, eds.), Vol. 1, pp. 75–94. ILSI Press, Washington, D.C.
- Mescher A.L., & Junqueira, L. (2013). Junqueira's Basic Histology: Text and Atlas, 13. McGraw Hill.
- Mignini, F., Nasuti, C., Artico, M., Giovannetti, F., Fabrizi, C., Fumagalli, L., ... & Pompili, E. (2012). Effects and trimethyltin on hippocampal dopaminergic markers and cognitive behaviour. *International journal of immunopathology and pharmacology*, 25(4), 1107-1119.
- New Jersey Department of Health and Senior Services. (2002). Hazardous Substance Fact Sheet. Diambil dari <https://nj.gov/health/eoh/rtkweb/documents/fs/2845.pdf>
- Snoeij, N. J., van Iersel, A. A., Penninks, A. H., & Seinen, W. (1985). Toxicity of triorganotin compounds: comparative in vivo studies with a series of trialkyltin compounds and triphenyltin chloride in male rats. *Toxicology and applied pharmacology*, 81(2), 274–286. [https://doi.org/10.1016/0041-008x\(85\)90164-4](https://doi.org/10.1016/0041-008x(85)90164-4)
- Tang, X., Wu, X., Dubois, A. M., Sui, G., Wu, B., Lai, G., ... & Ren, X. (2013). Toxicity of trimethyltin and dimethyltin in rats and mice. *Bulletin of environmental contamination and toxicology*, 90(5), 626-633.
- Toggas, S. M., Kraday, J. K., & Billingsley, M. L. (1992). Molecular neurotoxicology of trimethyltin: identification of stannin, a novel protein expressed in trimethyltin-sensitive cells. *Molecular pharmacology*, 42(1), 44–56.
- Tomasetti, C., Poling, J., Roberts, N. J., London, N. R., Pittman, M. E., Haffner, M. C., Rizzo, A., Baras, A., Karim, B., Kim, A., Heaphy, C. M., Meeker, A. K., Hruban, R. H., Iacobuzio-Donahue, C. A., & Vogelstein, B. (2019). Cell division rates decrease with age, providing a potential explanation for the age-dependent deceleration in cancer incidence. *Proceedings of the National Academy of Sciences*, 116(41), 20482–20488. <https://doi.org/10.1073/pnas.1905722116>
- Tomay, F., Wells, K., Duong, L., Tsu, J. W., Dye, D. E., Radley-Crabb, H. G., Grounds, M. D., Shavladakadze, T., Metharom, P., Nelson, D. J., & Jackaman, C. (2018). Aged neutrophils accumulate in lymphoid tissues from healthy elderly mice and infiltrate T- and B-cell zones. *Immunology and cell biology*, 96(8), 831–840. <https://doi.org/10.1111/imcb.12046>
- Turner, V. M., & Mabbott, N. A. (2017). Influence of ageing on the microarchitecture of the spleen and lymph nodes. *Biogerontology*, 18(5), 723–738. <https://doi.org/10.1007/s10522-017-9707-7>
- Wang, Y., Liu, X., Jing, H., Ren, H., Xu, S., & Guo, M. (2022). Trimethyltin induces apoptosis and necroptosis of mouse liver by oxidative stress through

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yap phosphorylation. Ecotoxicology and Environmental Safety, 248, 114327. <https://doi.org/10.1016/j.ecoenv.2022.114327>