

DAFTAR PUSTAKA

- Aboghazleh, R., Boyajian, S. D., Atiyat, A., Udwan, M., Al-Helalat, M., & Al-Rashaideh, R. 2024. Rodent Brain Extraction and Dissection: A Comprehensive Approach. *MethodsX*. 12: 1-10. doi: 10.1016/j.mex.2023.102516
- Andriana, K. & Wiyasa, I. W. A. 2017. Menopause dan Alzheimer's Disease. *Saintika Medika*. 13(2): 109-117.
- Assema, D. M. E., Lubberink, M., Bauer, M., Flier, W. M. V. D., Schuit, R. C., dkk. 2012. Blood-Brain Barrier P-Glycoprotein Function in Alzheimer's Disease. *Brain*. 135: 181-189. doi: 10.1093/brain/awr298
- Bajo, R., Pusil, S., López, M. E., Canuet, L., Pereda, E., Osipova, D., Maestú, F., & Pekkonen, E. 2015. Scopolamine Effects on Functional Brain Connectivity: A Pharmacological Model of Alzheimer's Disease. *Scientific reports*. 5, 9748.
- Ceriana, R. & Rejeki, D. P. 2023. Uji Toksisitas Makroskopis pada Organ Ginjal, Hati, Jantung dan Limpa Mencit Hiperglikemia yang Diberi Ekstrak Etanol Kulit Buah Rambai (*Baccaurea motleyana*). *Journal of Pharmaceutical and Health Research*. 4(2): 183-189. doi: 10.47065/jharma.v4i2.3366
- Chai, A. B., Leung, G. K., Callaghan, R., & Gelissen, I. C. 2020. P-glycoprotein: a role in the export of amyloid- β in Alzheimer's disease?. *The FEBS journal*. 287(4): 612-625. doi: 10.1111/febs.15118
- Charisis, S., Ntanasi, E., Yannakoulia, M., Anastasiou, C. A., Kosmidis, M. H., Dardiotis, E., & Scarmeas, N. 2021. Plasma GSH levels and Alzheimer's disease. A prospective approach: Results from the HELIAD study. *Free Radical Biology and Medicine*. 162: 274-282.
- Das, M., Balan, D. J., & Kasi, P. D. 2021. Mitigation of oxidative stress with dihydroactinidiolide, a natural product against scopolamine-induced amnesia in Swiss albino mice. *Neurotoxicology*. 86: 149-161.
- Darwatik, Ratnawati, R., Rianawati, S., & Sarwono, I. 2017. Pengaruh Antosianin Ubi Ungu terhadap TNF- α , Apoptosis dan Memori Spasial Hipokampus Tikus Model Diabetes Melitus. *Jurnal Kedokteran Brawijaya*. 30(1), 12-18.
- El-Sherbiny, D. A., Khalifa, A. E., Attia, A. S., & Eldenshary, E. E. D. S. 2003. Hypericum perforatum extract demonstrates antioxidant properties against elevated rat brain oxidative status induced by amnestic dose of scopolamine. *Pharmacology Biochemistry and Behavior*. 76(3-4): 525-533. doi: 10.1016/j.pbb.2003.09.014
- Eriadi, A., Arifin, H., & Nirwanto. 2016. Uji Toksisitas Akut Ekstrak Etanol Daun Kirinyuh (*Chromolaenodorata* (L) R.M.King & H. Rob) pada Mencit Putih Jantan. *Jurnal Farmasi Higea*. 8(2): 122-132. doi: 10.52689/higea.v8i2.144
- Galli, T., Zahraoui, A., Vaidyanathan, V. V., Raposo, G., Tian, J. M., Karin, M., ... & Louvard, D. 1996. The V0 sector of the V-ATPase, synaptobrevin, and synaptophysin are associated on synaptic vesicles in a Triton X-100-resistant, staining sensitive, complex. *Journal of Biological Chemistry*. 271(4): 99. doi: 10.1074/jbc.271.4.2193
- ejar, V., Bleda, M. C., Popovic, N., & Popovic, M. 2017. Verapamil copolamine Enhancement Effect on Memory Consolidation in Passive



- Avoidance Task in Rats. *Frontiers in Pharmacology*. 8: 1-9. doi: 10.3389/fphar.2017.00566
- Haider, S., Tabassum, S., & Perveen, T. 2016. Scopolamine-Induced Greater Alterations in Neurochemical Profile and Increased Oxidative Stress Demonstrated A Better Model of Dementia: A Comparative Study. *Brain Research Bulletin*. 245: 113-119. doi: 10.1016/j.bbr.2013.02.003
- Herbet, M., Korga, A., Grzywacz, M. G., Izdebska, M., Iwona, P. C., Poleszak, E., Wrobel, A., Matysiak, W., Jedrych, J., & Dudka, J. 2017. Chronic Variable Stress Is Responsible for Lipid and DNA Oxidative Disorders and Activation of Oxidative Stress Response Genes in the Brain of Rats. *Oxid Med Cell Longev*. 2017: 1-10. doi: 10.1155/2017/7313090
- Jiwaji, Z., Tiwari, S. S., Avilés-Reyes, R. X., Hooley, M., Hampton, D., Torvell, M., Johnson, D. A., McQueen, J., Baxter, P., Sabari-Sankar, K., Qiu, J., He, X., ... Hardingham, G. E. 2022. Reactive astrocytes acquire neuroprotective as well as deleterious signatures in response to Tau and A β pathology. *Nature Communications*. 13(1): 135. doi: 10.1038/s41467-021-27702-w
- Kaminska, M. W., Fiedorowicz, M., Orzel, J., Bogorodzki, P., Modlinska, K., Stryjek, R., Chrzanowska, A., Pisula, W. & Grieb, P. 2019. Volumes Of Brain Structures In Captive Wild-Type And Laboratory Rats: 7T Magnetic Resonance In Vivo Automatic Atlas-Based Study. *Journal Pone*. 14(4): 1-18. doi: 10.1371/journal.pone.0215348.
- Katsuki, A., Hayashi, K., Haratake, A., Yanagita, T., Hoshino, T., & Kishimoto, Y. 2024. Inhibition of Amyloid β Accumulation by Protease-Digested Whitebait (Shirasu) in a Murine Model of Alzheimer's Disease. *Foods*. 13(18): 2858. doi: 10.3390/foods13182858
- Kuhnke, D., Jedlitschky, G., Grube, M., Krohn, M., Jucker, M., Mosyagin, I., ... & Vogelgesang, S. 2007. MDR1-P-Glycoprotein (ABCB1) Mediates Transport of Alzheimer's Amyloid- β Peptides-Implications for the Mechanisms of A β Clearance at the Blood-Brain Barrier. *Brain Pathology*. 17(4): 347-353. doi: 10.1111/j.1750-3639.2007.00075.x
- Kumar, D., Patil, V. M., Wu, D., & Thorat, N. 2023. *Deciphering Drug Targets for Alzheimer's Disease*. Singapore: Springer Nature Singapore.
- Kumpulainen, T., Saarikoski, S., Riekkinen, P., & Palo, J. 1979. Ability of calf brain synaptic membranes to bind [35S] taurine to their Triton X-100 and chloroform extracts. *Neuroscience Letters*. 13(2-3): 247-251. doi: 10.1016/0304-3940(79)90131-9
- Lai, J. I., Tseng, Y. J., Chen, M. H., Huang, C. Y. F., & Chang, P. M. H. 2020. Clinical perspective of FDA approved drugs with P-glycoprotein inhibition activities for potential cancer therapeutics. *Frontiers in oncology*. 10. doi: 10.3389/fonc.2020.561936
- menova, E., & Williams, D. P. 2020. Determining organ weight toxicity esian causal models: Improving on the analysis of relative organ



- weights. *Scientific Reports*. 10(1): 6625. doi: 10.1038/s41598-020-63465-y
- Mihmidati, L. & Athiroh, N. 2017. Pengaruh Ekstrak Metanolik (*Scurrulaatropurpurea* (Bl.) Dans) yang Diberikan Secara Subkronik 90 Hari Pada Tikus Betina (*Rattusnorvegicus*) Terhadap Necrosis Otak. *Jurnal Ilmiah Biosaintropis (Bioscience-Tropic)*. 3(2): 16-23. doi: 10.33474/e-jbst.v3i2.109
- Nugraheni, B. C., Sunarno, & Mardiaty, S. M. 2018. Respon Histologis Hepar Tikus Wistar yang Mengalami Stres Fisiologis setelah Pemberian Pakan dengan Suplementasi Daging Ikan Gabus (*Channa striata*). *Buletin Anatomi dan Fisiologi*. 3(2): 173-180. doi: 10.14710/baf.3.2.2018.173-180
- Paulson, J. B., Ramsden, M., Forster, C., Sherman, M. A., McGowan, E., & Ashe, K. H. 2008. Amyloid Plaque and Neurofibrillary Tangle Pathology in a Regulatable Mouse Model of Alzheimer's Disease. *Am J Pathol*. 173(3): 762-772. doi: 10.2353/ajpath.2008.080175
- Pocernich, C. B., & Butterfield, D. A. 2012. Elevation of Glutathione as a therapeutic strategy in Alzheimer disease. *Biochimica et Biophysica Acta (BBA)-molecular basis of disease*. 1822(5): 625-630. doi : 10.1016/j.bbadis.2011.10.003
- Ponne, S., Kumar, C. R., & Boopathy, R. 2019. Verapamil attenuates scopolamine induced cognitive deficits by averting oxidative stress and mitochondrial injury – A potential therapeutic agent for Alzheimer's Disease. *Metabolic Brain Disease*. 35: 503-515. doi: 10.1007/s11011-019-00498-x
- Qu, J., Chen, Y., Yan, Y., Li, Y., Zhang, Q., & Wang, Z. 2024. FBXL16: a new regulator of neuroinflammation and cognition in Alzheimer's disease through the ubiquitination-dependent degradation of amyloid precursor protein. *Clinical Epigenetics*. 16. Article 14. doi: 10.1186/s40364-024-00691-w
- Reed, D. R., Duke, F. F., Ellis, H. K., Rosazza, M. R., Lawler, M. P., Alarcon, K. A., & Tordoff, M. G. 2011. Body Fat Distribution And Organ Weights Of 14 Common Strains And A 22-Strain Consomic Panel Of Rats. *Physiol Behav*. 103(5): 523-529. doi: 10.1016/j.physbeh.2011.04.006
- Römermann, K., Wanek, T., Bankstahl, M., et al. 2013. (R)-Verapamil is selectively transported by murine and human P-glycoprotein at the blood–brain barrier, and not by MRP1 and BCRP. *Nuclear Medicine and Biology*.
- Rusjini, R. & Kariasa, I. M. 2023. Peningkatan Kesejahteraan & Kualitas Hidup Terkait Kesehatan Pada Penderita Demensia Alzheimer Dengan Terapi Kenangan: Tinjauan Sistematis. *Jurnal Endurance: Kajian Ilmiah Problema Kesehatan*. 8(2), 2477-6521.
- Saeed, S., Farkhondeh, T., Samini, F., & Borji, A. 2016. Protective Effects of Carvacrol against Oxidative Stress Induced by Chronic Stress in Rat's Brain, Liver, and Kidney. *Biochemistry Research International*. 2016(1): 1-7. doi: 10.1155/2016/2645237
- Schulz, J. A., Hartz, A. M. S., & Bauer, B. 2023. ABCB1 and ABCG2 Regulation at the Blood-Brain Barrier: Potential New Targets to Improve Brain Drug Delivery. *Journal of Pharmaceutical Sciences*. 112(5): 815-853. doi: 10.1124/j.pharm.122.000663
- Shwetha, B. K., Haimavathi, B., & Vikram, P. 2016. The effect of channel blockers against scopolamine induced cognitive impairment



- and oxidative stress. *International Journal of Basic & Clinical Pharmacology*. 5(5): 2199-2211. doi: 10.18203/2319-2003.ijbcp20163262
- Shah, H., Dehghani, F., Ramezan, M., Gannaban, R. B., Haque, Z. F., Rahimi, F., Abbasi, S., & Shin, A. C. 2023. Revisiting the Role of Vitamins and Minerals in Alzheimer's Disease. *Antioxidants*. 12: 415. doi: 10.3390/antiox12020415
- Shubbar, M. H., & Penny, J. I. 2020. Therapeutic Drugs Modulate ATP-Binding Cassette Transporter-Mediated Transport of Amyloid Beta(1–42) in Brain Microvascular Endothelial Cells. *European Journal of Pharmacology*. Volume 874. doi: 10.1016/j.ejphar.2020.173026
- Sihombing, M. & Tuminah, S. 2011. Perubahan Nilai Hematologi, Biokimia Darah, Bobot Organ dan Bobot Badan Tikus Putih pada Umur Berbeda. *Jurnal Veteriner*. 12(1): 58-66.
- Sita, G., Hrelia, P., Tarozzi, A., & Morroni, F. 2017. P-glycoprotein (ABCB1) and Oxidative Stress: Focus on Alzheimer's Disease. *Oxidative Medicine and Cellular Longevity*, 2017(1), 7905486. doi: 10.1155/2017/7905486
- SOCR. (n.d.). SOCR Data - Brain to Body Weight Ratios. Statistics Online Computational Resource. Retrieved May 22, 2025, from https://wiki.socr.umich.edu/index.php/SOCR_Data_Brain2BodyWeight
- Storck, S. E., Hartz, A. M., Bernard, J., Wolf, A., Kachlmeier, A., Mahringer, A., ... & Pietrzik, C. U. 2018. The concerted amyloid-beta clearance of LRP1 and ABCB1/P-gp across the blood-brain barrier is linked by PICALM. *Brain, behaviour and immunity*. 73: 21-33. doi: 10.1016/j.bbi.2018.07.017
- Sellers, R. S., Mortan, D., Michael, B., Roome, N., Johnson, J. K., Yano, B. L., ... & Schafer, K. 2007. Society of Toxicologic Pathology position paper: organ weight recommendations for toxicology studies. *Toxicologic pathology*. 35(5): 751-755. doi: 10.1080/01926230701595300
- Vaskova, J., Kocan, L., Vasko, L., & Perjesi, P. 2023. Glutathione-Related Enzymes and Proteins: A Review. *Molecules*. 28: 1447. 1-22. doi: 10.3390/molecules28031447
- Wang, J. S., Zhu, H. J., Markowitz, J. S., Donovan, J. L., & DeVane, C. L. 2006. Evaluation of antipsychotic drugs as inhibitors of multidrug resistance transporter P-glycoprotein. *Psychopharmacology*. 187: 415-423. doi: 10.1007/s00213-006-0427-5
- Wang, J. S., Zhu, H. J., Markowitz, J. S., Donovan, J. L., Yuan, H. J., & DeVane, C. L. 2008. Antipsychotic drugs inhibit the function of breast cancer resistance protein. *Basic & clinical pharmacology & toxicology*. 103(4): 336-341. doi: 10.1111/j.1742-7843.2008.00295.x
- Yadang, F. S. A., Nguenzeye, Y., Kom, C. W., Betote, P. H., D., Mamat, A., Tchokouaha, L. R. Y., Taiwe, G. S., Agbor, G. A., & Gelandangan, E. N. 2020. Gangguan Memori Akibat Skopolamin pada Tikus: Efek Neuroprotektif Ekstrak Air *Carissa edulis* (Forssk.) Valh (Apocynaceae). *International Journal of Alzheimer's Disease*. 2020: 1-10. doi: 10.1155/2020/6372059
- Li, H., Li, R., Sterling, K., & Song, W. 2023. Amyloid β -based Therapy in Alzheimer's Disease: Challenges, Successes and Future. *Signal Transduction and Targeted Therapy*. 8(1): 248. doi: 10.1038/s41392-023-

