

DAFTAR PUSTAKA

- Aggarwal, A., Mendoza-Mari, Y. dan K, D. (2024) “Cellular and Molecular Mechanisms and Innovative Neurostimulation Treatments in the Management of Traumatic Brain Injury,” *Journal of Biotechnology and Biomedicine*, 7(4), hal. 453–470. Tersedia pada: <https://doi.org/10.26502/jbb.2642-91280169>.
- Alnoaman, H. *et al.* (2025) “Dysregulation of proBDNF/p75NTR and BDNF/TrkB Signaling in Acute Ischemic Stroke: Different Sides of the Same Coins,” *Brain Research Bulletin*, 226(October 2024), hal. 111338. Tersedia pada: <https://doi.org/10.1016/j.brainresbull.2025.111338>.
- Althurwi, H.N. *et al.* (2022) “Protective Effect of Beta-Carotene against Myeloperoxidase-Mediated Oxidative Stress and Inflammation in Rat Ischemic Brain Injury,” *Antioxidants*, 11(12), hal. 1–17. Tersedia pada: <https://doi.org/10.3390/antiox11122344>.
- Annis, F., Purnomo, H. dan Balafif, F. (2017) “Pengaruh Ekstrak Propolis terhadap Apoptosis melalui Ekspresi Brain-Derived Neurotrophic Factor (BDNF) pada Sel Otak Tikus Model Cedera Otak Traumatik The Effect of Propolis Extract Administration on Apoptosis through Brain-Derived Neurotropic Factor (,” *Jurnal Kedokteran Brawijaya*, 29(3), hal. 209–215.
- Arazi, H. *et al.* (2021) “Acute effects of strength and endurance exercise on serum BDNF and IGF-1 levels in older men,” *BMC Geriatrics*, 21(1), hal. 1–8. Tersedia pada: <https://doi.org/10.1186/s12877-020-01937-6>.
- Ardy, T. *et al.* (2020) “Selection of Maceration Solvent for Natural Pigment Extraction from Red Fruit (*Pandanus conoideus* Lam),” 02(1), hal. 8–12.
- Arista (2022) “Pengaruh Perbedaan Metode Ekstraksi Rimpang Kunyit (*Curcuma domestica*) Terhadap Rendemen dan Skrining Fitokimia,” 2(2), hal. 96–104.
- Atmaja, R.R.D. *et al.* (2024) “The potential of red fruit oil emulgel (*pandanus conoideus* lamk.) in accelerate the proliferation phase of rat incision wound healing,” *Journal of Medicinal and Pharmaceutical Chemistry Research*, 6(3), hal. 302–313. Tersedia pada: <https://doi.org/10.48309/JMPCR.2024.424847.1033>.
- Atwood, R. *et al.* (2023) “Use of Levetiracetam for Post-Traumatic Seizure Prophylaxis in Combat-Related Traumatic Brain Injury,” *Military Medicine*, 188(11–12), hal. E3570–E3574. Tersedia pada: <https://doi.org/10.1093/milmed/usad192>.
- Ba, W. *et al.* (2023) “Carotenoids from Tomatoes via Nrf2 and NF- κ B.”
- Baek, S.Y. dan Kim, M.R. (2020) “marine drugs *Enteromorpha prolifera* Extract via TrkB / Akt Pathway against Oxidative Stress in Hippocampal in eastern.”
- Bampidis, V. *et al.* (2020) “Safety and ef fi cacy of sodium carboxymethyl cellulose for all animal species,” 18(July). Tersedia pada:

- <https://doi.org/10.2903/j.efsa.2020.6211>.
- Baracaldo-santamar, D. *et al.* (2022) “Revisiting Excitotoxicity in Traumatic Brain Injury : From Bench to Bedside,” hal. 1–26.
- Bathina, S. dan Das, U.N. (2015) “Brain-derived neurotrophic factor and its clinical Implications,” *Archives of Medical Science*, 11(6), hal. 1164–1178. Tersedia pada: <https://doi.org/10.5114/aoms.2015.56342>.
- Bektaşoğlu, P.K. *et al.* (2022) “neuroprotective effects of apigenin in the setting of mild traumatic brain injury : an investigation *.” Tersedia pada: <https://doi.org/10.1080/08923973.2022.2130076>.
- Benny S. Pasaribu *et al.* (2022) *Metodologi Penelitian Untuk Ekonomi dan Bisnis, UUP Academic Manajemen Perusahaan YKPN*. Tersedia pada: [https://repository.uinjkt.ac.id/dspace/bitstream/123456789/65013/1/Metodologi Penelitian.pdf](https://repository.uinjkt.ac.id/dspace/bitstream/123456789/65013/1/Metodologi%20Penelitian.pdf).
- Blanca, M.J. *et al.* (2017) “Non-normal data : Is ANOVA still a valid option ?,” 29(4), hal. 552–557. Tersedia pada: <https://doi.org/10.7334/psicothema2016.383>.
- Bulama, I. *et al.* (2023) “Quantitative Phytochemistry and Neuro- histological Effect of Tamarindus indica Fruit Pulp Aqueous Extract on Traumatic Brain Injury in Albino Rats,” *Sahel Journal of Veterinary Sciences*, 20(4), hal. 27–33. Tersedia pada: <https://doi.org/10.54058/saheljvs.v20i4.426>.
- Burmeister, A.R. dan Marriott, I. (2018) “The interleukin-10 family of cytokines and their role in the CNS,” *Frontiers in Cellular Neuroscience*, 12(November), hal. 1–13. Tersedia pada: <https://doi.org/10.3389/fncel.2018.00458>.
- Calabrese, E.J. (2021) “Hormesis Mediates Acquired Resilience : Using Plant-Derived Chemicals to Enhance Health,” hal. 355–381.
- Carlini, V. *et al.* (2023) “The multifaceted nature of IL-10: regulation, role in immunological homeostasis and its relevance to cancer, COVID-19 and post-COVID conditions,” *Frontiers in Immunology*, 14(June), hal. 1–19. Tersedia pada: <https://doi.org/10.3389/fimmu.2023.1161067>.
- Carlos, J. (2023) “Mechanisms Controlling the Expression and Secretion of BDNF,” hal. 1–19.
- Chan, A. *et al.* (2024) “Traumatic brain injuries: a neuropsychological review,” *Frontiers in Behavioral Neuroscience*, 18. Tersedia pada: <https://doi.org/10.3389/fnbeh.2024.1326115>.
- Charan, J. dan Kantharia, N. (2013) “How to calculate sample size in animal studies?,” *Journal of Pharmacology and Pharmacotherapeutics*, 4(4), hal. 303–306. Tersedia pada: <https://doi.org/10.4103/0976-500X.119726>.
- Chen, M. dan Chen, Q. (2020) “Tanshinone IIA Promotes M2 Microglia by ER β / IL- 10 Pathway and Attenuates Neuronal Loss in Mouse TBI Model,” hal. 3239–3250.
- Chen, P. *et al.* (2019) “ β -carotene provides neuro protection after experimental traumatic brain injury via the Nrf2-ARE pathway,” *Journal of*

- Integrative Neuroscience*, 18(2), hal. 153–161. Tersedia pada: <https://doi.org/10.31083/j.jin.2019.02.120>.
- Cheng, S.S.I. and G. (2013) “Role of Interleukin 10 Transcriptional Regulation in Inflammation and Autoimmune Disease,” *NIH Public Access Author Manuscript*, 32(1), hal. 23–63.
- Colucci-D’amato, L., Speranza, L. dan Volpicelli, F. (2020) “Neurotrophic factor bdnf, physiological functions and therapeutic potential in depression, neurodegeneration and brain cancer,” *International Journal of Molecular Sciences*, 21(20), hal. 1–29. Tersedia pada: <https://doi.org/10.3390/ijms21207777>.
- Dai, W. *et al.* (2018) “Curcumin provides neuroprotection in models of traumatic brain injury via the Nrf2-ARE signaling pathway,” *Brain Research Bulletin* [Preprint]. Tersedia pada: <https://doi.org/10.1016/j.brainresbull.2018.03.020>.
- Darko, D., Kwekutsu, E. dan Idoko, I.P. (2025) “Synergistic Effects of Phytochemicals in Combating Chronic Diseases with Insights into Molecular Mechanisms and Nutraceutical Development,” 10(3).
- Davis, C.K. dan Vemuganti, R. (2025) “U . S . Department of Veterans Affairs.” Tersedia pada: <https://doi.org/10.1016/j.neuint.2021.105255>. Antioxidant.
- Dean, T. *et al.* (2024) “Fibrin promotes oxidative stress and neuronal loss in traumatic brain injury via innate immune activation,” hal. 1–12.
- Dennis, E.L. *et al.* (2022) “ENIGMA brain injury: Framework, challenges, and opportunities,” *Human Brain Mapping*, 43(1), hal. 149–166. Tersedia pada: <https://doi.org/10.1002/hbm.25046>.
- Diah, P. *et al.* (2025) “Efek Neuroprotektif Kombinasi Jus Buah Tomat dan Lamotrigin pada Mencit yang Diinduksi Lipopolisakarida,” 11(1), hal. 238–245.
- Diez, D. dan Miranda-saavedra, D. (2013) “The IL-10 / STAT3-mediated anti-inflammatory response: recent developments and future challenges,” 12(6). Tersedia pada: <https://doi.org/10.1093/bfgp/elt028>.
- DSouza, A.A. *et al.* (2024) “Mild repetitive TBI reduces brain-derived neurotrophic factor (BDNF) in the substantia nigra and hippocampus: A preclinical model for testing BDNF-targeted therapeutics,” *Experimental Neurology*, 374, hal. 1–23. Tersedia pada: <https://doi.org/10.1016/j.expneurol.2024.114696>.
- Engström, O.E. dan Katsui, H. (2025) “Traumatic Brain Injury as an Invisible Disability : Institutional Barriers in Medical , Social and Financial Services in Finland,” hal. 1–15.
- Esposito, E., Licastro, E. dan Cuomo, O. (2023) “Postconditioning promotes recovery in the neurovascular unit after stroke,” (September), hal. 1–8. Tersedia pada: <https://doi.org/10.3389/fncel.2023.1260389>.
- Fitri, A.D.S. (2025) “Konsep Definisi Operasional Variabel,” *ResearchGate* [Preprint], (April). Tersedia pada: <https://doi.org/10.13140/RG.2.2.13984.29442>.
- Ford, C.T. *et al.* (2016) “Identification of (poly) phenol treatments that modulate the release of pro-inflammatory cytokines by human

- lymphocytes,” hal. 1699–1710. Tersedia pada: <https://doi.org/10.1017/S0007114516000805>.
- Fouda, A.Y. *et al.* (2013) “Anti-inflammatory IL-10 is upregulated in both hemispheres after experimental ischemic stroke: Hypertension blunts the response,” hal. 1–7.
- Freire, M.A.M. *et al.* (2023) “Cellular and Molecular Pathophysiology of Traumatic Brain Injury : What Have We Learned So Far ?,” hal. 1–27.
- Gao, P. *et al.* (2021) “Preconditioning increases brain resistance against acute brain injury via neuroinflammation modulation,” *Experimental Neurology*, 341(March), hal. 113712. Tersedia pada: <https://doi.org/10.1016/j.expneurol.2021.113712>.
- Giesler, L.P. *et al.* (2023) “BDNF: New Views of an Old Player in Traumatic Brain Injury,” *Neuroscientist* [Preprint]. Tersedia pada: <https://doi.org/10.1177/10738584231164918>.
- Gui, S. *et al.* (2024) “A mixture of extracts from natural ingredients reduces the neurotoxic polarization of microglia via modulating κ B / NF- κ B related factor 2 activation,” (February), hal. 3745–3758. Tersedia pada: <https://doi.org/10.1002/fsn3.4045>.
- Gustafsson, D. *et al.* (2021) “The role of bdnf in experimental and clinical traumatic brain injury,” *International Journal of Molecular Sciences*, 22(7). Tersedia pada: <https://doi.org/10.3390/ijms22073582>.
- Hana *et al.* (2024) “Carotenoids in red fruit (*Pandanus conoideus* Lam.) have a potential role as an anti-pigmentation agent (Review),” *Biomedical Reports*, 20(3), hal. 1–11. Tersedia pada: <https://doi.org/10.3892/br.2024.1742>.
- Hasan, S. *et al.* (2023) “brain sciences Neuroprotective Potential of Flavonoids in Brain Disorders,” hal. 1–16.
- Haskovic, M. *et al.* (2018) “Intrafamilial oocyte donation in classic galactosemia: ethical and societal aspects,” *Journal of Inherited Metabolic Disease*, 41(5), hal. 791–797. Tersedia pada: <https://doi.org/10.1007/s10545-018-0179-y>.
- Holford, N. (2017) “Pharmacodynamic principles and the time course of immediate drug effects,” 25(4), hal. 157–161.
- Hossain, I. *et al.* (2024) “Blood biomarkers for traumatic brain injury: A narrative review of current evidence,” *Brain and Spine*, 4(December 2023), hal. 102735. Tersedia pada: <https://doi.org/10.1016/j.bas.2023.102735>.
- İbrahim Bulama¹, Umar Faruk Saidu^{3*}, Nasiru Suleiman², Abdullahi Yahaya Abbas³, Yusuf Saidu³, Yusuf Yakubu⁵, Nasiru Jinjiri Ismail⁴, L.S.B. (2023) “Antioxidative Strategy in Traumatic Brain Injury : Role of,” *Experimental and Applied Medical Science*, 4, 4: 573 - 594, 2023. DOI: 10.46871/eams.1346139 Antioxidative, (Vc), hal. 573–594. Tersedia pada: <https://doi.org/10.46871/eams.1346139>.
- Ichsan, A.M. *et al.* (2025) “Effect of Buah Merah (*Pandanus conoideus* Lamk .) Extract Supplementation on the Density and Apoptosis of Photoreceptor and Retinal Ganglion Cells in a Diabetic Rat Model,”

- hal. 1–15.
- Inayatilah, F.R. *et al.* (2022) “Formulation and Physical Stability Test of Red Fruit Oil (*Pandanus conoideus* Lam.) Emulgel Using Carbopol 940 Base as Wound Treatment,” *Biomedical and Pharmacology Journal*, 15(4), hal. 2357–2364. Tersedia pada: <https://doi.org/10.13005/bpj/2574>.
- Iqbal, U. *et al.* (2023) “Efficacy of hypertonic saline and mannitol in patients with traumatic brain injury and cerebral edema: a systematic review and meta-analysis,” *Egyptian Journal of Neurosurgery*, 38(1). Tersedia pada: <https://doi.org/10.1186/s41984-023-00233-w>.
- Jaberi, S. dan Fahnestock, M. (2023) “Mechanisms of the Beneficial Effects of Exercise on Brain-Derived Neurotrophic Factor Expression in Alzheimer ’ s Disease.”
- Kandilarov, I. *et al.* (2023) “Effect of Plant Extracts Combinations on TNF- α , IL-6 and IL-10 Levels in Serum of Rats Exposed to Acute and Chronic Stress,” *Plants*, 12(17), hal. 2–17. Tersedia pada: <https://doi.org/10.3390/plants12173049>.
- Karamian, A. dan Ali, L. (2025) “Prevalence of Traumatic Brain Injury in the General Adult Population of the USA : A Meta-Analysis,” hal. 558–567. Tersedia pada: <https://doi.org/10.1159/000540676>.
- Kaur, P. dan Sharma, S. (2018) “Recent Advances in Pathophysiology of Traumatic Brain Injury,” hal. 1224–1238. Tersedia pada: <https://doi.org/10.2174/1570159X15666170613083606>.
- KEMENKES (2022) “PNPK Cedera Otak Traumatik,” *Kementerian Kesehatan RI*, hal. 1–52.
- Kocsis, A.E. *et al.* (2025) “Much More than Nutrients : The Protective Effects of Nutraceuticals on the Blood – Brain Barrier in Diseases on the,” hal. 1–40.
- Koyya, P., Manthari, R.K. dan Pandrangi, S.L. (2024) “Brain-Derived Neurotrophic Factor – The Protective Agent Against Neurological Disorders,” hal. 353–366. Tersedia pada: <https://doi.org/10.2174/1871527322666230607110617>.
- Kumar, A. dan Loane, D.J. (2012) “Brain , Behavior , and Immunity Neuroinflammation after traumatic brain injury : Opportunities for therapeutic intervention,” *Brain Behavior and Immunity*, 26(8), hal. 1191–1201. Tersedia pada: <https://doi.org/10.1016/j.bbi.2012.06.008>.
- Kurek, M.A. dan Akta, H. (2025) “A Comprehensive Review of Analytical Approaches for Carotenoids Assessment in Plant-Based Foods : Advances , Applications , and Future Directions,” hal. 1–31.
- Kurniawan, A. (2022) “The Change of BDNF Expression in Traumatic Brain Injury after *Kaempferia galanga* L . Administration : An Experimental Study,” 5(December 2021), hal. 101–113.
- Kyung Hee Lee, M.C. and B.H.L. (2020) “Neuroprotective E ff ect of Antioxidants in the Brain,” hal. 1–29.
- Laffer, B. *et al.* (2019) “Loss of IL-10 Promotes Differentiation of Microglia to a M1 Phenotype,” *Frontiers in Cellular Neuroscience*, 13(October), hal. 1–12. Tersedia pada: <https://doi.org/10.3389/fncel.2019.00430>.

- Lambertsen, K.L., Finsen, B. dan Clausen, B.H. (2019) “Post - stroke inflammation — target or tool for therapy?,” *Acta Neuropathologica*, 137(5), hal. 693–714. Tersedia pada: <https://doi.org/10.1007/s00401-018-1930-z>.
- Lee, J. dan Kim, H. (2022) “Increased Brain-Derived Neurotrophic Factor Levels in Cerebrospinal Fluid During the Acute Phase in TBI-Induced Mechanical Allodynia in the Rat Model,” (January), hal. 229–239.
- Lei, M. *et al.* (2024) “Impact and Mechanisms of Action of BDNF on Neurological Disorders, Cancer, and Cardiovascular Diseases,” *CNS Neuroscience and Therapeutics*, 30(12), hal. 1–15. Tersedia pada: <https://doi.org/10.1111/cns.70138>.
- Lestari, I.T. *et al.* (2025) “Ameliorating Effect of Red Fruit (Pandanus conoides Lamk) Oil in Streptozotosin-Induced Diabetic Peripheral Neuropathy Rat Model : role of oxidative and neuroinflammatory pathways,” 28(1), hal. 11–23.
- Lestari, I.T., Anggadiredja, K. dan Garmana, A.N. (2024) “Minyak buah merah (Pandanus conoideus Lam) memperbaiki neuropati perifer diabetik yang diinduksi streptozotocin dengan menargetkan jalur oksidatif dan inflamasi di sumsum tulang belakang pada model tikus,” hal. 1–19.
- Li, Q. *et al.* (2022) “HHS Public Access,” hal. 1–46.
- Liaqat, H., Parveen, A. dan Kim, S. (2022) “Antidepressive Effect of Natural Products and Their Derivatives Targeting BDNF-TrkB in Gut – Brain Axis.”
- Lin, R. *et al.* (2018) “Interleukin-10 attenuates impairment of the blood-brain barrier in a severe acute pancreatitis rat model,” hal. 1–12.
- Loane, D.J., Stoica, B.A. dan Faden, A.I. (2016) *Neuroprotection for traumatic brain injury DAVID*. Tersedia pada: <https://doi.org/10.1016/B978-0-444-52892-6.00022-2>. Neuroprotection.
- Lobo-Silva, D. *et al.* (2016) “Balancing the immune response in the brain: IL-10 and its regulation,” *Journal of Neuroinflammation*, 13(1), hal. 1–10. Tersedia pada: <https://doi.org/10.1186/s12974-016-0763-8>.
- Lv, W. dan Wang, Y. (2024) “Neural Influences on Tumor Progression Within the Central Nervous System.” Tersedia pada: <https://doi.org/10.1111/cns.70097>.
- Maas, A.I.R. *et al.* (2017) “Traumatic brain injury: Integrated approaches to improve prevention, clinical care, and research,” *The Lancet Neurology*, 16(12), hal. 987–1048. Tersedia pada: [https://doi.org/10.1016/S1474-4422\(17\)30371-X](https://doi.org/10.1016/S1474-4422(17)30371-X).
- Maas, A.I.R. *et al.* (2022) “Traumatic brain injury: progress and challenges in prevention, clinical care, and research,” *The Lancet Neurology*, 21(11), hal. 1004–1060. Tersedia pada: [https://doi.org/10.1016/S1474-4422\(22\)00309-X](https://doi.org/10.1016/S1474-4422(22)00309-X).
- de Macedo Filho, L. *et al.* (2024) “Pathophysiology-Based Management of Secondary Injuries and Insults in TBI,” *Biomedicines*, 12(3). Tersedia pada: <https://doi.org/10.3390/biomedicines12030520>.
- Mackenzie, K.F., Pattison, M.J. dan Arthur, J.S.C. (2014) “Transcriptional

- Regulation of IL-10 and Its Cell-Specific Role In Vivo,” 34(4), hal. 315–345.
- Madeng, A.A.M. *et al.* (2023) “Hubungan Kadar Brain-Derived Neurotrophic Factor (BDNF) Serum dengan Fungsi Kognitif Penderita Stroke Iskemik,” *Molucca Medica*, 16(2). Tersedia pada: <https://doi.org/10.30598/molmed.2023.v16.i2.169>.
- Mahmood, Q. *et al.* (2023) “Phytomedicine Plus Targeted delivery of β -carotene potentially prevents blood-brain barrier breakdown after stroke in mice,” 3(February).
- Mangunsong, S. *et al.* (2019) “SECARA KROMATOGRAFI CAIR KINERJA TINGGI (U- HPLC) (Determine of β -Caroten in carrot (*Daucus carota*) using Ultra High Performance Liquid Chromatograph (U- HPLC),” 4(4), hal. 36–41.
- Maran, P., Siburian, R.H. dan Hendri (2022) “Morfologi dan karakteristik tempat tumbuh tanaman buah merah (*Pandanus conoideus* Lamk) di Kampung Eroma Distrik Kurima Kabupaten Yahukimo,” *Cassowary*, 5(2), hal. 112–119. Tersedia pada: <https://doi.org/10.30862/cassowary.cs.v5.i2.149>.
- Mojtabavi, H. *et al.* (2022) “Circulating brain - derived neurotrophic factor as a potential biomarker in stroke : a systematic review and meta - analysis,” *Journal of Translational Medicine*, hal. 1–20. Tersedia pada: <https://doi.org/10.1186/s12967-022-03312-y>.
- Moya-Alvarado, G. *et al.* (2022) “The Rab11-regulated endocytic pathway and BDNF/TrkB signaling: Roles in plasticity changes and neurodegenerative diseases,” *Neurobiology of Disease*, 171(November 2021), hal. 105796. Tersedia pada: <https://doi.org/10.1016/j.nbd.2022.105796>.
- Moya-Alvarado, G. *et al.* (2024) “PLC- γ -Ca²⁺ pathway regulates axonal TrkB endocytosis and is required for long-distance propagation of BDNF signaling,” *Frontiers in Molecular Neuroscience*, 17(April), hal. 1–16. Tersedia pada: <https://doi.org/10.3389/fnmol.2024.1009404>.
- Nabila, F. dan Setiawan, A.B. (2024) “Incidence and Mortality Of Traumatic Brain Injuries at The Hospital,” (5).
- Natalina Migaul*, Mocosuli Yermia Samuel2*, Masje Wurarah2, N.M. dan IBiology (2024) “THE ANTIOXIDANT ACTIVITY OF RED FRUIT EXTRACT (*Pandanus conoideus* L) FROM NABIRE PAPUA,” *Indonesian Biodiversity Journal* http://ejurnal.unima.ac.id/index.php/ibj_indonesian.biodivers., 5(1), hal. 0–1.
- Ng, S.Y. dan Lee, A.Y.W. (2019) “Traumatic Brain Injuries: Pathophysiology and Potential Therapeutic Targets,” *Frontiers in Cellular Neuroscience*, 13(November), hal. 1–23. Tersedia pada: <https://doi.org/10.3389/fncel.2019.00528>.
- Ng, T.H.S. *et al.* (2013) “Regulation of adaptive immunity ; the role of interleukin-10,” 4(May), hal. 1–13. Tersedia pada: <https://doi.org/10.3389/fimmu.2013.00129>.
- Niiranen, T.J.U. *et al.* (2023) “Trajectories of interleukin 10 and heart fatty acid-binding protein levels in traumatic brain injury patients with or

- without extracranial injuries,” *Frontiers in Neurology*, 14(April), hal. 1–8. Tersedia pada: <https://doi.org/10.3389/fneur.2023.1133764>.
- Nurafia, S., Prihatno, M.M.R. dan Novrial, D. (2025) “Effect of Centella Asiatica (L .) Extract on Serum Levels of IL-6 and IL-10 in Traumatic Brain Injury Rat,” hal. 64–70.
- Park, H.A. *et al.* (2020) “Anti-apoptotic effects of carotenoids in neurodegeneration,” *Molecules*, 25(15), hal. 1–19. Tersedia pada: <https://doi.org/10.3390/molecules25153453>.
- Patilas, C. *et al.* (2024) “The Role of Interleukin-10 in the Pathogenesis and Treatment of a Spinal Cord Injury,” *Diagnostics*, 14(2). Tersedia pada: <https://doi.org/10.3390/diagnostics14020151>.
- Porro, C., Cianciulli, A. dan Panaro, M.A. (2020) “The regulatory role of IL-10 in neurodegenerative diseases,” *Biomolecules*, 10(7), hal. 1–15. Tersedia pada: <https://doi.org/10.3390/biom10071017>.
- Rabelo, T.K. *et al.* (2024) “Deep brain stimulation mitigates memory deficits in a rodent model of traumatic brain injury,” *Brain Stimulation*, 17(6), hal. 1186–1196. Tersedia pada: <https://doi.org/10.1016/j.brs.2024.10.006>.
- Rashno, Masome *et al.* (2019) “Therapeutic effects of chrysin in a rat model of traumatic brain injury_ A behavioral, biochemical, and histological study,” *Life Sciences*, 228, hal. 285–294. Tersedia pada: <https://doi.org/10.1016/j.lfs.2019.05.007>.
- Rasmus, P. dan Kozłowska, E. (2023) “Antioxidant and Anti-Inflammatory Effects of Carotenoids in Mood Disorders: An Overview,” *Antioxidants*, 12(3), hal. 1–22. Tersedia pada: <https://doi.org/10.3390/antiox12030676>.
- Ratnawati, R., Arofah, A.N. dan Novitasari, A. (2017) “Catechins decrease neurological severity score through apoptosis and neurotropic factor pathway in rat traumatic brain injury,” 36(2), hal. 110–122.
- Rhee, Y.H., Park, Y.K. dan Kim, J.S. (2020) “Pandanus conoideus Lamk Oil Protects Against Inflammation Through Regulating Reactive Oxygen Species in LPS-Induced Murine Macrophages,” *Natural Product Communications*, 15(9). Tersedia pada: <https://doi.org/10.1177/1934578X20953664>.
- Rostami, E. *et al.* (2014) “Alteration in BDNF and its receptors , full-length and truncated TrkB and p75 NTR following penetrating traumatic brain injury,” 1542, hal. 195–205. Tersedia pada: <https://doi.org/10.1016/j.brainres.2013.10.047>.
- Rukmana, A. *et al.* (2022) “Responses of Humoral and Cellular Immune Mediators in BALB/c Mice to LipX (PE11) as Seed Tuberculosis Vaccine Candidates,” *Genes*, 13(11). Tersedia pada: <https://doi.org/10.3390/genes13111954>.
- Sakata, K. *et al.* (2013) “Role of activity-dependent BDNF expression in hippocampal – prefrontal cortical regulation of behavioral perseverance,” 110(37), hal. 15103–15108. Tersedia pada: <https://doi.org/10.1073/pnas.1222872110>.
- Samini, F. *et al.* (2013) “Pharmacology , Biochemistry and Behavior Curcumin

- pretreatment attenuates brain lesion size and improves neurological function following traumatic brain injury in the rat,” *Pharmacology, Biochemistry and Behavior*, 110, hal. 238–244. Tersedia pada: <https://doi.org/10.1016/j.pbb.2013.07.019>.
- Saraiva, M., Vieira, P. dan O’Garra, A. (2020) “Biology and therapeutic potential of interleukin-10,” *Journal of Experimental Medicine*, 217(1), hal. 1–19. Tersedia pada: https://doi.org/10.1084/jem_20190418.
- Sarungallo, Z.L. *et al.* (2014) “The Organoleptic Properties, Physical Properties, and the Level of β -carotene and α -tocopherol of Red Fruit (*Pandanus conoideus*) Oil Emulsion,” *Agritech*, 34(2), hal. 177–183.
- Sarungallo, Z.L. *et al.* (2015) “Characterization of chemical properties, lipid profile, total phenol and tocopherol content of oils extracted from nine clones of red fruit (*Pandanus conoideus*),” *Kasetsart Journal - Natural Science*, 49(2), hal. 237–250.
- Sarungallo, Z.L. *et al.* (2016) “Nutrient content of three clones of red fruit (*Pandanus conoideus*) during the maturity development,” *International Food Research Journal*, 23(3), hal. 1217–1225.
- Sauqi, H. *et al.* (2020) “Buah merah (*Pandanus conoideus*) menghambat perkembangan lesi endometriosis melalui penurunan regulasi NF- κ B dan ekspresi VEGF,” 45(4), hal. 985–989.
- Sc, M. *et al.* (2013) “Effects of olive polyphenols administration on nerve growth factor and brain-derived neurotrophic factor in the mouse brain,” 29, hal. 681–687. Tersedia pada: <https://doi.org/10.1016/j.nut.2012.11.007>.
- Schindler, C.R. *et al.* (2020) “Severe Traumatic Brain Injury (TBI) Modulates the Kinetic Profile of the Inflammatory Response of Markers for Neuronal Damage.”
- Schober, M.E. *et al.* (2013) “NIH Public Access,” 27(2), hal. 167–173. Tersedia pada: <https://doi.org/10.1007/s11011-012-9309-7>. Developmental.
- Sharma, P., Kumar, A. dan Singh, D. (2019) “Dietary Flavonoids Interaction with CREB-BDNF Pathway: An Unconventional Approach for Comprehensive Management of Epilepsy,” hal. 1158–1175. Tersedia pada: <https://doi.org/10.2174/1570159X17666190809165549>.
- Shimazu, R. *et al.* (2021) “Evaluation of Blood – Brain Barrier Permeability of Polyphenols, Anthocyanins, and Their Metabolites.” Tersedia pada: <https://doi.org/10.1021/acs.jafc.1c02898>.
- Singh, A.A., Katiyar, S. dan Song, M. (2025) “Phytochemicals Targeting BDNF Signaling for Treating Neurological Disorders,” *Brain Sciences*, 15(3), hal. 1–28. Tersedia pada: <https://doi.org/10.3390/brainsci15030252>.
- Sirait, M.S., Warsiki, E. dan Setyaningsih, D. (2021) “Potential of red fruit oil (*Pandanus conoideus* Lam.) as an antioxidant active packaging: A review,” *IOP Conference Series: Earth and Environmental Science*, 749(1). Tersedia pada: <https://doi.org/10.1088/1755-1315/749/1/012008>.
- Siti Nurul Asma H. Noho¹, Nurul Humaidah², D.S. (2024) “Pengaruh

- Pemberian Ampas Buah Merah (*Pandanus conoideus*) Pada Air Minum terhadap Aktivitas SOD dan Kadar MDA Ayam KUB-2,” *Jurnal Sains Peternakan Vol.12 No.2, Desember 2024, pp: 108-116* ISSN 2579-4450 Pengaruh, 12(2), hal. 108–116.
- Sleiman, S.F. *et al.* (2016) “Exercise promotes the expression of brain derived neurotrophic factor (BDNF) through the action of the ketone body β - hydroxybutyrate,” *eLife*, 5(JUN2016), hal. 1–21. Tersedia pada: <https://doi.org/10.7554/eLife.15092>.
- de Souza, S. *et al.* (2024) “Interleukin-10 signaling in somatosensory neurons controls CCL2 release and inflammatory response,” *Brain, Behavior, and Immunity*, 116, hal. 193–202. Tersedia pada: <https://doi.org/10.1016/j.bbi.2023.12.013>.
- Steinmetz, J.D. *et al.* (2024) “Global, regional, and national burden of disorders affecting the nervous system, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021,” *The Lancet Neurology*, 23(4), hal. 344–381. Tersedia pada: [https://doi.org/10.1016/S1474-4422\(24\)00038-3](https://doi.org/10.1016/S1474-4422(24)00038-3).
- Suyanto, E., Prasetyo, E. dan Oley, M.C. (2018) “Hubungan Kadar Interleukin-10 Serum dan Kadar Leukosit Darah Perifer pada Pasien Cedera Otak Berat Akibat Trauma,” *Jurnal Biomedik (Jbm)*, 10(2). Tersedia pada: <https://doi.org/10.35790/jbm.10.2.2018.20090>.
- Tabassum, S. *et al.* (2024) “Mitochondrial-targeted therapies in traumatic brain injury: From bench to bedside,” *Neurotherapeutics*, 22(1), hal. e00515. Tersedia pada: <https://doi.org/10.1016/j.neurot.2024.e00515>.
- Tan, D. *et al.* (2025) “COMPREHENSIVE UTILIZATION OF RED FRUIT (*Pandanus conoideus* Lam .) OIL AS ANTIOXIDANTS : FOOD APPLICATION AND HEALTH BENEFITS,” 7(1), hal. 40–49. Tersedia pada: <https://doi.org/10.33555/jffn.v7i1.9>.
- Tao, W. *et al.* (2023) “Low-dose LPS alleviates early brain injury after SAH by modulating microglial M1/M2 polarization via USP19/FOXO1/IL-10/IL-10R1 signaling,” *Redox Biology*, 66(August), hal. 102863. Tersedia pada: <https://doi.org/10.1016/j.redox.2023.102863>.
- Thomas, M., Banks, C. dan Ray, A. (2025) “The MRC CRASH trial at 20: Time to reappraise corticosteroids for traumatic brain injury?,” *Journal of the Intensive Care Society*, 26(2), hal. 277. Tersedia pada: <https://doi.org/10.1177/17511437251323087>.
- Tinë, M. *et al.* (2024) “Suppressor of cytokine signaling-3 expression and its regulation in relation to inflammation in Chronic Obstructive Pulmonary Disease,” 48(March), hal. 1–10. Tersedia pada: <https://doi.org/10.3389/fimmu.2024.1320077>.
- Trisnawaty, S. *et al.* (2024) “Carotenoids in red fruit (*Pandanus conoideus* Lam.) have a potential role as an anti-pigmentation agent (Review),” *Biomedical Reports*, 20(3), hal. 1–17. Tersedia pada: <https://doi.org/10.3892/br.2024.1742>.
- Tschoe, C. *et al.* (2020) “Neuroinflammation after Intracerebral Hemorrhage and Potential Therapeutic Targets,” 22(1), hal. 29–46.
- Umar, A.K., Kelutur, F.J. dan Zothantluanga, J.H. (2021) “Flavonoid

- Compounds of Buah Merah (*Pandanus conoideus* Lamk) as a Potent Oxidative Stress Modulator in ROS-induced Cancer: In Silico Approach,” *Majalah Obat Tradisional*, 26(3), hal. 221–232. Tersedia pada: <https://doi.org/10.22146/mot.70177>.
- Wang, M., Xie, Y. dan Qin, D. (2021) “Proteolytic cleavage of proBDNF to mBDNF in neuropsychiatric and neurodegenerative diseases,” *Brain Research Bulletin*, 166, hal. 172–184. Tersedia pada: <https://doi.org/10.1016/j.brainresbull.2020.11.005>.
- Wang, Y. *et al.* (2025) “Efficacy and safety of corticosteroids for stroke and traumatic brain injury: a systematic review and meta-analysis,” *Systematic Reviews*, 14(1). Tersedia pada: <https://doi.org/10.1186/s13643-025-02803-5>.
- Wang, Z. (2024) “Curcumin in the treatment of inflammation and oxidative stress responses in traumatic brain injury : a systematic review and,” (May), hal. 1–13. Tersedia pada: <https://doi.org/10.3389/fneur.2024.1380353>.
- Want, A., Morgan, J.E. dan Barde, Y.A. (2023) “Brain - derived neurotrophic factor measurements in mouse serum and plasma using a sensitive and specific enzyme - linked immunosorbent assay,” *Scientific Reports*, (0123456789), hal. 1–7. Tersedia pada: <https://doi.org/10.1038/s41598-023-34262-0>.
- Wardhana, D.W. *et al.* (2023) “Modification of the height of a weight drop traumatic brain injury model that causes the formation of glial scar and cognitive impairment in rats,” *BMC Neurology*, 23(1), hal. 1–9. Tersedia pada: <https://doi.org/10.1186/s12883-023-03494-y>.
- Weston, L.L. *et al.* (2021) “Interleukin-10 deficiency exacerbates inflammation-induced tau pathology,” 1, hal. 1–13.
- Wu, C. *et al.* (2014) “Post-Injury Treatment with 7 , 8-Dihydroxyflavone , a TrkB Receptor Agonist , Protects against Experimental Traumatic Brain Injury via PI3K / Akt Signaling,” hal. 1–25. Tersedia pada: <https://doi.org/10.1371/journal.pone.0113397>.
- Wulansari, D., Wawo, A.H. dan Augusta, A. (2020) “Carotenoid content of five accessions red fruit (*Pandanus conoideus* Lam.) oil,” *IOP Conference Series: Earth and Environmental Science*, 591(1). Tersedia pada: <https://doi.org/10.1088/1755-1315/591/1/012033>.
- Yan, J. *et al.* (2022) “TREM2 activation alleviates neural damage via Akt/CREB/BDNF signalling after traumatic brain injury in mice,” *Journal of Neuroinflammation*, 19(1), hal. 1–27. Tersedia pada: <https://doi.org/10.1186/s12974-022-02651-3>.
- Yan, J., Wang, C. dan Sun, B. (2025) “burdens of traumatic brain injury from 1990 to 2021,” (April). Tersedia pada: <https://doi.org/10.3389/fpubh.2025.1556147>.
- Yang, L. *et al.* (2024) “Initial IL-10 production dominates the therapy of mesenchymal stem cell scaffold in spinal cord injury,” *Theranostics*, 14(2), hal. 879–891. Tersedia pada: <https://doi.org/10.7150/thno.87843>.
- Young, A.P. dan Denovan-Wright, E.M. (2024) “Microglia-mediated neuron death requires TNF and is exacerbated by mutant Huntingtin,”

- Pharmacological Research*, 209(October), hal. 107443. Tersedia pada: <https://doi.org/10.1016/j.phrs.2024.107443>.
- Yu, G., Zhang, Y. dan Ning, B. (2021) "Reactive Astrocytes in Central Nervous System Injury : Subgroup and Potential Therapy," 15(December), hal. 1–23. Tersedia pada: <https://doi.org/10.3389/fncel.2021.792764>.
- Yu Yang, Ruonan LI, Junnan Hui, Lingqian Li, X.Z. (2020) "β -Carotene attenuates LPS-induced rat intestinal inflammation via modulating autophagy and regulating the JAK2 / STAT3 and JNK / p38 MAPK signaling pathways," (October), hal. 1–12. Tersedia pada: <https://doi.org/10.1111/jfbc.13544>.
- Zhang, H. *et al.* (2017) "Expression of BDNF and Nogo-A after singular and repetitive mild traumatic brain injury in rats," 10(6), hal. 6375–6384.
- Zhang, L. *et al.* (2017) "Fucoxanthin provides neuroprotection in models of traumatic brain injury via the Nrf2- ARE and Nrf2-autophagy pathways," *Nature Publishing Group*, (March), hal. 1–15. Tersedia pada: <https://doi.org/10.1038/srep46763>.
- Zhang, S. *et al.* (2022) "Adiponectin/AdiopR1 signaling prevents mitochondrial dysfunction and oxidative injury after traumatic brain injury in a SIRT3 dependent manner," *Redox Biology*, 54(June), hal. 102390. Tersedia pada: <https://doi.org/10.1016/j.redox.2022.102390>.
- Zhong, R. *et al.* (2022) "Current Research in Food Science Anti-inflammatory activity of flavonols via inhibiting MAPK and NF- κ B signaling pathways in RAW264 . 7 macrophages," *Current Research in Food Science*, 5(June), hal. 1176–1184. Tersedia pada: <https://doi.org/10.1016/j.crfs.2022.07.007>.
- Zhou, Z. *et al.* (2010) "NIH Public Access," 110(5), hal. 1617–1627. Tersedia pada: <https://doi.org/10.1111/j.1471-4159.2009.06263.x>. Interleukin-10.