

## DAFTAR PUSTAKA

- Adam, A. dan Habiburrohman, H., 2017, *Analisis Performa Sentrifugasi Pada Produksi Purified Biobutanol Melalui Fermentasi Molasses Dengan Agen Biokonversi Escherichia Coli*.
- Alvarez-Sabín, J., Román, G.C., 2013, The role of citicoline in neuroprotection and neurorepair in *ischemic stroke*, Brain Sci, doi: 10.3390/brainsci3031395, PMID: 24961534; PMCID: PMC4061873.
- Anggriani, R., 2022, *Total Fenol, Total Flavonoid, Aktivitas Antioksidan, dan Penghambatan  $\alpha$ -Amilase Pada Roti Tawar Dengan Penambahan Sari Mengkudu*, Jurnal Teknologi Pangan dan Gizi, 21, hal. 55-62. 10.33508/jtpg.v21i1.3572.
- Anjum, A., Yazid, M. D., Fauzi, D. M., Idris, J., Selvi, N. A., Ismail, O. H. R, Athi Kumar, R. K. dan Lokanathan, Y., 2020, “*Spinal Cord Injury: Pathophysiology, Multimolecular Interactions, and Underlying Recovery Mechanisms*”, Int. J. Mol. Sci., doi: 10.3390/ijms21207533, PMID: 33066029; PMCID: PMC7589539.
- Arifin, B. dan Ibrahim, S., 2018, *Struktur, Bioaktivitas dan Antioksidan Flavonoid*, Jurnal Zarah, 6. 21-29. 10.31629/zarah.v6i1.313.
- Atmodjo, and Kianto., 2019, *Keragaman dan Pemanfaatan Tumbuhan Berenuk (*Crescentia cujete* L) di Daerah Istimewa Yogyakarta*, Biota : Jurnal Ilmiah Ilmu-Ilmu Hayati, 4, 116. 10.24002/biota.v4i3.2518.
- Backer, C.A., and Brink, B.V.D., 1963, *Flora of Java*, Vol. I, N.V.P Noordhoff Groningen The Netherlands.
- Bahroni, 2018, *Pemanfaatan Buah Berenuk (*Crescentia cujete* Linn) Sebagai Bahan Baku Pembuatan Bioetanol*, 10.31227/osf.io/2kxcv.
- Balogun, F.O., Sabiu S., 2021, *A Review of the Phytochemistry, Ethnobotany, Toxicology, and Pharmacological Potentials of Crescentia cujete L. (Bignoniaceae)*, Evid Based Complement Alternat Med, 7;2021:6683708, doi: 10.1155/2021/6683708. PMID: 34306151; PMCID: PMC8282368.
- Bara, B.A., Rivianto, F.A., Nurlaela, dan Sulastri, 2021, “*Isolasi Senyawa Alkaloid Bahan Alami*”, Jurnal Health Sains, 2 (7).
- Baron, J.C., Yamauchi, H., Fujioka, M., Endres, M., 2014, Selective neuronal loss

in *ischemic stroke* and cerebrovascular disease, *J Cereb Blood Flow Metab*, doi: 10.1038/jcbfm.2013.188, PMID: 24192635; PMCID: PMC3887360.

Basaran R., Kaksi M., Efendioglu M., Onoz M., Balkuv E., and Kaner T., 2015, “*Spinal arachnoid cyst associated with arachnoiditis following subarachnoid haemorrhage in adult patients: A case report and literature review*”, *Br. J. Neurosurg*, 29 (2): 285-9, doi: 10.3109/02688697.2014.976175. Epub 2014 Nov 3. PMID: 25365662.

Battle C.E., Abdul-Rahim A.H., Shenkin S.D., Hewitt J., Quinn T.J., 2021, *Cholinesterase inhibitors for vascular dementia and other vascular cognitive impairments: a network meta-analysis*, *Cochrane Database Syst* 22;2(2):CD013306, doi: 10.1002/14651858.CD013306.pub2, PMID: 33704781; PMCID: PMC8407366.

Batubara, S.O., dan Tat, F., 2015, *Hubungan antara penanganan awal dan luasnya kerusakan neurologis pasien stroke di RSUD Kupang*, *Jurnal Keperawatan Soedirman*, 10(3).

Benakis, C.H., Hirt, L., Du-Pasquier, R.A., 2013, *Inflammation and stroke*, *CardioMed*, 12(5):143-50.

Boehme A.K., McClure L.A., Zhang Y, Luna J.M., Del Brutto O.H., Benavente O.R., Elkind M.S., 2016, *Inflammatory Markers and Outcomes After Lacunar Stroke: Levels of Inflammatory Markers in Treatment of Stroke Study*. *Stroke*, ;47(3):659-67. doi: 10.1161/STROKEAHA.115.012166. PMID: 26888535; PMCID: PMC4766076.

Borrell, V., and Götz, M., 2014, “*Role of radial glial cells in cerebral cortex foldin*”, *Curr Opin Neurobiol*, doi: 10.1016/j.conb.2014.02.007, Epub 2014 Mar 12. PMID: 24632307.

Chen, M., Zhang, H., Chu, Y.H., Tang, Y., Pang, X.W., Qin, C. and Tian, D.S., 2022, “*Microglial autophagy in cerebrovascular diseases*”, *Front Aging Neurosci*, doi: 10.3389/fnagi.2022.1023679, PMID: 36275005; PMCID: PMC958232.

Chen, X.Y., Xue, Y., Chen, H., and Chen, L., 2020, “*The globus pallidus as a target for neuropeptides and endocannabinoids participating in central activities*”, *Peptides*, doi: 10.1016/j.peptides.170210. Epub 2019 Nov 26. PMID: 31778724.

Chiba, T., Umegaki, K., 2013, *Pivotal roles of monocytes/ macrophages in stroke*, *Mediators Inflamm*, 1-10.

Chohan, S.A., Venkatesh, P.K., How, C.H., 2019, *Long-Term Complications of*

- Stroke and Secondary Prevention: an Overview For Primary Care Physicians*, Singapore Med J, 60(12):616-620, doi: 10.11622/smedj.2019158. PMID: 31889205; PMCID: PMC7911065.
- Cika, A., Uztamila, Y.A., Sahrul, Syarif, A, dan Hajar, I., 2022, *Pengaruh pH Fermentasi dan Putaran Pengadukan pada Fermentasi Molasses terhadap Produksi Bioetanol*. Jurnal Pendidikan dan Teknologi Indonesia, 2, hal. 561-567. 10.52436/1.jpti.107.
- Clow, C., Jasmin, B.J., 2010, Brain-derived neurotrophic factor regulates satellite cell differentiation and skeltal muscle regeneration, Mol Biol Cell, doi: 10.1091/mbc.e10-02-0154, PMID: 20427568; PMCID: PMC2893983.
- Cojocaru I.M., Cojocaru, M., Tananescu, R., Ilescu, I.U., Dumitrascu, L., Silosi, I., 2014, Expression of IL6 activity in patients with acute ischemic stroke, Rom J Intern Med, 2014;47(4):393-6.
- Darni, J., 2021, *Identifikasi Flavonoid dan Tanin pada Teh Daun Salam dan Rambut Jagung (Saraja) Berpotensi sebagai Antihipertensi*, Jurnal Gizi dan Kesehatan, 14, hal. 1-6. 10.35473/jgk.v14i1.234.
- Das, N., Islam, M.E., Jahan, N., Islam, M.S., Khan, A., Islam, M.R., and Parvin, M. S., 2014, *Antioxidant Activities of Ethanol Extracts and Fractions of Crescentia cujete Leaves and Stem Bark and the Involvement of Phenolic Compounds*, BMC Complement Altern Med, 4;14:45, doi: 10.1186/1472-6882-14-45. PMID: 24495381; PMCID: PMC3937116.
- Derbyshire, E., and Obeid, R., 2020, “*Neurological Development and Brain Function: A Systematic Review Focusing on the First 1000 Days*”, *Nutrients*, <https://doi.org/10.3390/nu12061731>.
- Dinata, C.A., Syafrita, Y. dan Sastri, S., 2013, *Gambaran Faktor Risiko dan Tipe Stroke pada Pasien Rawat Inap di Bagian Penyakit Dalam RSUD Kabupaten Solok Selatan Periode 1 Januari 2010 - 31 Juni 2012*, Jurnal Kesehatan Andalas, 2(2), hal. 57-61.
- Dingová, D., and Hrabovská, A., 2015, “*Metódy stanovenia aktivity cholinesteráz [Methods for determination of cholinesterase activity]*”, *Cesk Fysiol*, 64 (2): 79-83, Slovak. PMID: 26852525.
- Dostovic, Z., Dostovic, E., Smajlovic, D., Ibrahimagic, O.C., Avdic, L., 2016, Brain Edema After Ischaemic Stroke, Med Arch, doi: 10.5455/medarh.2016.70.339-341, PMID: 27994292; PMCID: PMC5136437.
- Dyce, K.M., Sack, W.O., & Wensing, C.G. 2010, Textbook of Veterinary Anatomy,

(Philadelphia, Pa; London: Saunders Comprehensive, 279-90.

Enemali, F.U., Adebisi, S.S., Ibegbu, A.O., Buraimoh, A.A., and Musa, S.A., 2019, Identification and Localization of Nissl's Bodies in Neurons of the Cervical Spinal Cord Segments of Grasscutters, *Saudi Journal of Medical and Pharmaceutical Sciences*, 5(12): 1048-1053.

Etcheverry, V.M.A., 2014, "*Absorbtion and utilization of choline and vitamin B12 in lactating dairy, cows using different delivery methods*", Doctoral Disertations: University of Tennessee, Knoxville.

Fadhilah, H., dan Sari, V.Y., 2019, *Beban Ekonomi yang Ditanggung Pasien dan Keluarga Akibat Pentakit Stroke*, *BKM Journal of Community Medicine and Public Health*, 39, 193-197.

Feldman A.T., Wolfe D., *Tissue processing and hematoxylin and eosin staining*. *Methods Mol Biol.* 2014;1180:31-43. doi: 10.1007/978-1-4939-1050-2\_3. PMID: 25015141.

Feske, S.K., 2021, *Ischemic Stroke*, *Am J Med*, 134(12):1457-1464, doi: 10.1016/j.amjmed.2021.07.027. Epub 2021 Aug 27. PMID: 34454905.

Friedlander, Laura & Reid, Graham & Shupak, Naomi & Cribbie, Robert, 2007, *Social Support, Self-Esteem, and Stress as Predictors of Adjustment to University Among First-Year Undergraduates*, *Journal of College Student Development*, 48. 259-274, 10.1353/csd.2007.0024.

Ghani, L., Mihardja, L. dan Delima, D., 2016, *Faktor Risiko Dominan Penderita Stroke di Indonesia*, *Buletin Penelitian Kesehatan*, 44, 10.22435/bpk.v44i1.4949.49-58.

Gibson-Corley K.N., Olivier A.K., Meyerholz D.K., 2013 *Principles for valid histopathologic scoring in research*, *Vet Pathol* 50(6):1007-15. doi: 10.1177/0300985813485099. Epub 2013 Apr 4. PMID: 23558974; PMCID: PMC3795863.

Gille, D., Schmid, A., Walther, B., and Vergères, G., 2018, "*Fermented Food and Non-Communicable Chronic Diseases: A Review*", *Nutrients*, doi: 10.3390/nu10040448. PMID: 29617330; PMCID: PMC5946233.

Gudi V., Schäfer N., Gingele S., Stangel M., Skripuletz T., 2021, *Regenerative Effects of CDP-Choline: A Dose-Dependent Study in the Toxic Cuprizone Model of De- and Remyelination*, *Pharmaceuticals (Basel)*, 12;14(11):1156. doi: 10.3390/ph14111156. PMID: 34832936; PMCID: PMC8623145.

Hananta, I. P. Y. dan Freitag, L. M. H., 2011, *Deteksi Dini dan Pencegahan*

*Hipertensi dan LDL 4 43,75 21,87 5 Stroke*. Yogyakarta: Media Pressindo.

Hariana, A., 2008, *Tumbuhan Obat dan Khasiatnya Seri 2*. Depok : Penebar Swadaya.

Hemphill, J.C., Greenberg, S.M., Anderson, C.S., Becker, K., Bendok, B.R., Cushman, M., Fung, G.L., Goldstein, J.N., Macdonald, R.L., Mitchell, P.H., Scott, P.A., Selim, M.H., Woo, D., 2015, American Heart Association Stroke Council; Council on Cardiovascular and Stroke Nursing; Council on Clinical Cardiology, Guidelines for the Management of Spontaneous Intracerebral Hemorrhage: A Guideline for Healthcare Professionals From the American Heart Association/American Stroke Association, *Stroke*, doi: 10.1161/STR.0000000000000069, PMID: 26022637.

Herlianita, R., 2010, *Hypertensive Crises*, *J Keperawatan*, 1(2), hal. 151–5. doi: 10.2 2219/jk.v1i2.408.

Herpich, F., Rincon, F., 2020, *Management of Acute Ischemic Stroke*, *Crit Care Med*, 48(11):1654-1663, doi: 10.1097/CCM.0000000000004597. PMID: 32947473; PMCID: PMC7540624.

Hidayati, M., Sapalian, K.M.S., Febriana, I. dan Bow, Y., 2022, *Pengaruh pH dan Waktu Fermentasi Molase Menjadi Bioetanol Menggunakan Bakteri EM4*, *Publikasi Penelitian Terapan dan Kebijakan*, 5, hal. 33-40. 10.46774/pptk.v5i1.394.

Hinman, J. D., 2014, “*The back and forth of axonal injury and repair after stroke*”, *Curr Opin Neurol*, doi: 10.1097/WCO.0000000000000149, PMID: 25364952; PMCID: PMC4459741.

Hollenbeck, C.B., 2012, *An Introduction to the Nutrition and Metabolism of Choline*, *Cent Nerv Syst Agents Med Chem*, 12(2):100-13.

Ikenouchi, H., Yoshimoto, T., and Ihara, M., 2021, “*Postprandial cerebral infarction*”, *J. Clin Neurosci*, doi: 10.1016/j.jocn.2021.09.034, Epub 2021 Oct 6, PMID: 34863460.

Irfannuddin, M., 2019, *Metabolisme Oksidatif dan Peranan Neuroglobin Terhadap Homeostasis Oksigen di Otak*, *Sriwijaya Journal of Medicine*, 2, hal. 211-220. 10.32539/SJM.v2i3.75.

Iritani, H., Nishimura, Y., and Minatogawa, T., 1991, “*Neurophysiology of ischemic facial nerve paralysis in an animal model*”, *Acta Otolaryngol*, doi: 10.3109/00016489109138433, PMID: 1759581.

Jalady, A.M., and Dorandeu, F., 2013, “*Intérêt du dosage des cholinestérases dans*

*le cadre des intoxications aux organophosphorés [Interest of the cholinesterase assay during organophosphate poisonings]*”, Ann. Fr. Anesth. Reanim., French, doi: 10.1016/j.annfar.2013.08.018, PMID: 24209986.

Jéquier, S. and Jéquier, J.C., 1999, “*Sonographic nomogram of the leptomeninges (pia-glial plate) and its usefulness for evaluating bacterial meningitis in infants*”, AJNR Am. J. Neuroradiol, 20 (7): 1359-64. PMID: 10472998; PMCID: PMC7055996.

Juswanto, G., Rahmawati, D., Husni, A., Widiastuti, W., Kustiowati, E., Suryawati, H., dan Pudjanarko, D., 2021, *The Relationship Between the Brain Gym and the Changes in Interleukin 6 Levels and the Cognitive Function in the Elderly*, Bali Medical Journal, 10. 356. 10.15562/bmj.v10i1.2189.

Kemenkes, 2013, *Pedoman Pengendalian Stroke. Direktorat Pengendalian Penyakit Tidak Menular Subdit Pengendalian Penyakit Jantung dan Pembuluh Darah*, Kementerian Kesehatan Republik Indonesia, Jakarta.

Kimura, H., 2020, *Stroke*, Brain Nerve, 72(4):311-321, Japanese, doi: 10.11477/mf.1416201530, PMID: 32284456.

Krisna, D., Atmodjo, P., dan Arsiningtyas, I., 2022, *Efek Pemberian Sari Buah Berenuk (*Crescentia cujete* L.) Terhadap Berat Mencit Galur Swiss-Webster (*Mus musculus*)*, Biota : Jurnal Ilmiah Ilmu-Ilmu Hayati, 108-120, 10.24002/biota.v7i2.5255.

Lasket, Alice, 2009, *Acid Thionin Stain for Nissl Bodies on Frozen Sections*. 24. 143-144.

Latief, M., Meriyanti, N., Fadhilah, N., Tarigan, I.L., Ayu, A., Maharani, R., Aulia, E. dan Siregar, D., 2022, *Isolasi Senyawa Triterpenoid Ekstrak Etanol Daun Jeruju (*Achantus Ilcifolius*) dan Aktivitas Antibakterinya*, Jurnal Kimia, 16, p-ISSN. 10.24843/JCHEM.2022.v16.i01.p05.

Lévesque, M. and Avoli, M., 2020, “*The subiculum and its role in focal epileptic disorders*”, Rev Neurosci, doi: 10.1515/revneuro-2020-0091, PMID: 33661586.

Li, Y., Wang, J., Li, L., Song, W., Li, M., Hua, X., Wang, Y., Yuan, J., and Xue, Z., 2022, *Natural Products of Pentacyclic Triterpenoids: From Discovery to Heterologous Biosynthesis*, Natural Product Reports, 10.1039/D2NP00063F.

Mahbub, Khandaker, Rayhan, 2011, *In Vitro Antibacterial Activity of *Crescentia cujete* and *Moringa oleifera**, Bangladesh Research Publication Journal, Vol. 05:337-347.



- Malykh, A.G., Sadaie, M.R., 2010, *Piracetam and piracetam-like drugs: from basic science to novel clinical applications to CNS disorders*, *Drugs*, 12;70(3):287-312. doi: 10.2165/11319230-000000000-00000, PMID: 20166767.
- Masuda, K., Ripley, B., Nishimura, R., Mino, T., Takeuchi, O., Shioi, G., Kiyonari, H., Kishimoto, T., 2013, *Arid5a mengontrol stabilitas mRNA IL-6, yang berkontribusi terhadap peningkatan level IL-6 in vivo*, *Proc Natl Acad Sci US A*, doi: 10.1073/pnas.1307419110, PMID: 23676272; PMCID: PMC3677444.
- Megawati, S., Rahmawati, R., dan Fathonah, N., 2021, *Evaluasi Penggunaan Obat Antiplatelet Pada Pasien Stroke Iskemik di Instalasi Rawat Inap Rumah Sakit Umum Kabupaten Tangerang Tahun 2019*, *Jurnal Farmagazine*, 8(4), hal. 39-45.
- Meutia, S., Utami, N., Rahmawati, S., dan Himayani, R., 2021, *Sistem Saraf Pusat dan Perifer*, *Jurnal Medula*, 11(3), hal. 306-311.
- Miao, M., Du, J., Che, B., Guo, Y., Zhang, J., Ju, Z., Xu, T., Zhong, X., Zhang, Y., Zhong, C., 2022, *Circulating Choline pathway nutrients and depression after ischemic stroke*, *Eur J Neurol*, doi: 10.1111/ene.15133, Epub 2021 Oct 17, PMID: 34611955.
- Miao, Y., He, N., and Zhu, J.J., “History and new developments of assays for cholinesterase activity and inhibition”, *Chem Rev*, doi: 10.1021/cr900214c. PMID: 20593857.
- Misbach, J., Jannis, J., Soertidewi, L., 2011, *Epidemiologi Stroke, dan Anatomi Pembuluh Darah Otak dan Patofisiologi Stroke dalam Stroke Aspek Diagnostik, Patofisiologi, Manajemen*, Kelompok Studi Stroke Perhimpunan Dokter Spesialis Saraf Indonesia.
- Mora-Gutiérrez, A., Guevara, J., Rubio, C., Calvillo-Velasco, M., Silva-Adaya, D., Retana-Márquez, S., Espinosa, B., Martínez-Valenzuela, C., Rubio-Osornio, M., 2021, *Clothianidin and Thiacloprid Mixture Administration Induces Degenerative Damage in the Dentate Gyrus and Alteration in Short-Term Memory in Rats*, *J Toxicol*, doi: 10.1155/2021/9983201, PMID: 34858496; PMCID: PMC8632432.
- Muttaqin, Arif, 2008, *Buku Ajar Asuhan Keperawatan Klien dengan Gangguan Sistem Persarafan*, Jakarta: Salemba Medika.
- National Center for Biotechnology Information 2023, PubChem Compound Summary for CID 6209, *Choline chloride*. Retrieved February 15, 2023 from <https://pubchem.ncbi.nlm.nih.gov/compound/Choline-chloride>.
- Natsir, R., Prasetyo, E., Ch., Maximillian, Oley, L.F., Ratulangi, S., & Utara,

- Sulawesi & Bedah, Divisi dan Bagian, Saraf dan Bedah, Ilmu dan Kedokteran, Fakultas dan Sam, Universitas dan Kandou, R. dan Kesehatan, Divisi dan Bagian, Masyarakat dan Fakultas, Ilmu dan Universitas, Kedokteran, 2021, *Hubungan Kadar Interleukin 6 dan Interleukin 10 Serum pada Pasien Cedera Otak Berat Akibat Trauma*. Jurnal Biomedik (JBM), 13, 10.35790/jbm.13.1.2021.32475.
- Nuning, N., Saranani, S., Agastia, G., dan Isrul, M., 2022, *Aktivitas Antiinflamasi Ekstrak Etanol Daun Kirinyuh (*Chromolaena odorata* L.) dan Pengaruhnya Terhadap Kadar Interleukin 6 (IL-6) Pada Tikus Jantan Galur Wistar*, Jurnal Pharmacia Mandala Waluya, 1, hal. 54-67. 10.54883/jpmw.v1i2.24.
- Nurwidya, F., Zulfiyah, I., dan Hidayat, M., 2021, *Interleukin-6 dan Potensi Terapi Inhibisi Interleukin-6 Dalam Tata Laksana Covid-19*, Unram Medical Journal, 10. 537-541. 10.29303/jku.v10i3.595.
- Paciaroni, M., Ince, B., Hu, B., Jeng, J.S., Kutluk, K., Liu, L., Lou, M., Parfenov, V., Wong, K.S.L., Zamani, B., Paek, D., Min, Han, J., Del, A.M., and Girotra, S., 2019, *Benefits and Risks of Clopidogrel vs. Aspirin Monotherapy after Recent Ischemic Stroke: A Systematic Review and Meta-Analysis*, Cardiovasc Ther, 1;2019:1607181, doi: 10.1155/2019/1607181. PMID: 31867054; PMCID: PMC6913341.
- Pan, Y., Elm, J.J., Li, H., Easton, J.D., Wang, Y., Farrant, M., Meng, X., Kim, A.S., Zhao, X., Meurer, W.J., Liu, L., Dietrich, D., Wang, Y., Johnston, S.C., 2019, *Outcomes Associated With Clopidogrel-Aspirin Use in Minor Stroke or Transient Ischemic Attack: A Pooled Analysis of Clopidogrel in High-Risk Patients With Acute Non-Disabling Cerebrovascular Events (CHANCE) and Platelet-Oriented Inhibition in New TIA and Minor Ischemic stroke (POINT) Trials*. JAMA Neurol, doi: 10.1001/jamaneurol.2019.2531, Erratum in: JAMA Neurol, PMCID: PMC6704730.
- Papadopoulos Dimitrios, Daniel Solvie, Apoorva Baluapuri, Theresa Endres, Stefanie Anh Ha, Steffi Herold, Jacqueline Kalb, Celeste Giansanti, Christina Schüle-Völk, Carsten Patrick Ade, Cornelius Schneider, Abdallah Gaballa, Seychelle Vos, Utz Fischer, Matthias Dobbstein, Elmar Wolf, Martin Eilers, 2022, *MYCN recruits the nuclear exosome complex to RNA polymerase II to prevent transcription-replication conflicts*, Molecular cell, 82: (1)159–176.
- Papadopoulos, A., Palaiopanos, K., Björkbacka, H., Peters, A., de Lemos, J.A., Seshadri, S.D.M., and Georgakis, M.K., 2022, *“Circulating Interleukin-6 Levels and Incident Ischemic Stroke: A Systematic Review and Meta-analysis of Prospective Studies”*, Neurology, doi: 10.1212/WNL.0000000000013274, Epub 2021 Dec 30, PMID: 34969940; PMCID: PMC8967391.



- Parvin, M. S., Das, N., Jahan, N., Akhter, M.A., Nahar, L., and Islam, M.E., 2015, *Evaluation of In Vitro Anti-Inflammatory and Antibacterial Potential of Crescentia Cujete Leaves and Stem Bark*, BMC Res Notes, 4;8:412, doi: 10.1186/s13104-015-1384-5. PMID: 26341395; PMCID: PMC4559910.
- Paslawska, U., Kiczak, L., Ugorski, M., and Chelmonska-Soyta, A., 2008, *Influence of Proinflammatory Cytokines (TNF- $\alpha$ , IL-1 and IL-6) on Cardiac Functioning*, Medycyna Weterynaryjna, 64, hal. 969-972.
- Patti, G., Micieli, G., Cimminiello, C., and Bolognese, L., 2020, “*The Role of Clopidogrel in 2020: A Reappraisal*”, Cardiovasc Ther, doi: 10.1155/2020/8703627. PMID: 32284734; PMCID: PMC7140149.
- Paul, S., and Candelario, J.E., 2021, “*Emerging neuroprotective strategies for the treatment of ischemic stroke: An overview of clinical and preclinical studies*”, Exp. Neurol, doi: 10.1016/j.expneurol.2020.113518, Epub 2020 Nov 2, PMID: 33144066; PMCID: PMC7869696.
- Pereira, S.G., de Araújo S.A., Guilhon, G.M.S.P., Santos, L.S., and Junior, L.M.C., 2017, *In Vitro Acaricidal Activity of Crescentia cujete L. Fruit Pulp Against Rhipicephalus Microplus*, Parasitol Res, 116(5):1487-1493, doi: 10.1007/s00436-017-5425-y. Epub 2017 Apr 8. PMID: 28391450.
- Pinzon, R., dan Asanti, L., 2010, *Awas Stroke! Pengertian, gejala, tindakan, perawatan, dan pencegahan*, Yogyakarta: Andi, 1-4.
- Романова, И.С., Кожанова, И.Н., and Чак, Т.А., 2022, *Choline Alfoscerate in the Treatment of Neurological Disorders*, Рецепт, 865-874. 10.34883/PI.2022.25.6.001.
- Prakoso Y.A., Rini C.S., Rahayu A., Sigit M., Widhowati D., 2020, *Celery (Apium graveolens) as a potential antibacterial agent and its effect on cytokeratin-17 and other healing promoters in skin wounds infected with methicillin-resistant Staphylococcus aureus*, Vet World, doi: 10.14202/vetworld.2020.865-871, PMID: 32636580; PMCID: PMC7311862.
- Prima, F., Kusriani, D., dan Fachriyah, E., 2013, *Isolasi, Identifikasi dan Uji Sitotoksik Senyawa Alkaloid Daun Ketapang yang Sudah Menguning (Terminalia cattapa Linn)*, Jurnal Kimia Sains dan Aplikasi, 16. 55-58. 10.14710/jksa.16.2.55-58.
- Putaal, J., 2020, *Ischemic Stroke in Young Adults*, Continuum (Minneapolis), 26(2):386-414, doi: 10.1212/CON.0000000000000833. PMID: 32224758.
- Putra, G.P., Wartini, N., dan Darmayanti, T., 2017, *Kajian Metode dan Waktu Fermentasi Cairan Pulpa pada Perubahan Karakteristik Cuka Kakao*,

Agritech, 37, 39.,10.22146/agritech.17007.

Putri, E., Devi, M., dan Soekopitojo, S., 2022, *Analisis Kadar Tanin, Saponin, dan Flavonoid Teh Herbal Daun Nangka dan Rempah*, Journal of Food and Culinary, 5, hal. 32-38, 10.12928/jfc.v5i1.6589.

Qin, C., Zhou, L.Q., Ma, X.T., Hu, Z.W., Yang, S., Chen, M., Bosco, D.B., Wu, L.J., Tian, D.S., 2019 Dual Functions of Microglia in *Ischemic stroke*, Neurosci Bull, doi: 10.1007/s12264-019-00388-3, PMID: 31062335; PMCID: PMC6754485.

Rabinstein, A. A., 2020, *Update on Treatment of Acute Ischemic Stroke*, Continuum (Minneapolis, Minn), 26(2):268-286, doi: 10.1212/CON.0000000000000840. PMID: 32224752.

Rahmaningsih, S., Andriani, R., dan Pujiastutik, H., 2021, “*Effect of Majapahit (Crescentia cujete L.) fruit powder on the immune profile of Litopenaeus vannamei after infection with Vibrio*”, Vet. World, doi: 10.14202/vetworld.2021.1480-1486, Epub 2021 Jun 10, PMID: 34316195; PMCID: PMC8304431.

Rasyid A.I., Salim Harris, Muhammad Kurniawan, Taufik Mesiano, Rakhmad Hidayat, 2018, *PENGARUH KADAR INTERLEUKIN-6 DAN NEURON SPECIFIC ENOLASE TERHADAP LUARAN STROKE ISKEMIK AKUT*, Departemen Neurologi FK Universitas Indonesia/RSUPN Dr. Cipto Mangunkusumo, Jakarta, 35(4).

Ricci S., Celani M.G., Cantisani T.A., 2012, Righetti E., *Piracetam for acute ischaemic stroke*, Cochrane Database Syst Rev. doi: 10.1002/14651858.CD000419.pub3. PMID: 22972044; PMCID: PMC7034527.

Rikomah, S., dan Elmitra, E., 2017, *Identifikasi Senyawa Saponin Ekstrak Etanol Pelepah Pisang Uli (Musa Paradisiaca L)*, Scientia : Jurnal Farmasi dan Kesehatan, 7. 56. 10.36434/scientia.v7i1.107.

Riley C.A., Renshaw P.F., 2018, *Brain Choline in major depression: A review of the literature*, Psychiatry Res Neuroimaging, doi: 10.1016/j.psychres.2017.11.009, Epub 2017 Nov 20, PMID: 29174766.

Rimbun, V.P.K., 2012, “*Teknik Pewarnaan Neuron dan Neuroglia Pada Sistem Saraf Pusat*”, 25 (2).

Riva, D., Taddei, M., and Bulgheroni, S., 2018, “*The neuropsychology of basal ganglia*”, Eur. J. Paediatr. Neurol, doi: 10.1016/j.ejpn.2018.01.009, Epub 2018 Jan 12. PMID: 29396173.

- Rua, R., and McGavern, D.B., 2018, “*Advances in Meningeal Immunity*”, Trends Mol. Med., 24 (6): 542-559, doi:10.1016/j.molmed.2018.04.003. Epub 2018 May 3. PMID:29731353; PMCID: PMC6044730.
- Rudijanto, A., dan Kalim, H., 2006, *Pengaruh Hiperglemi Terhadap Peran Sitoskeleton (Cytoskeleton) Sebagai Jalur Transduksi Signal (Signal Transduction)*, Jurnal Penyakit Dalam, 7(3), hal. 243-257.
- Schaar, K.L., Brenneman, M.M., & Savitz, S.I., *Penilaian fungsional dalam model stroke hewan pengerat*, Exp & Trans Stroke Kedokteran 2, 13 (2010). <https://doi.org/10.1186/2040-7378-2-13>
- Scheld, M., Fragoulis, A., Nyamoya, S., Zendedel, A., Denecke, B., Krauspe, B., Teske, N., Kipp, M., Beyer, C. and Clarner, T., 2018, “*Mitochondrial Impairment in Oligodendroglial Cells Induces Cytokine Expression and Signaling*”, J. Mol. Neurosci, doi: 10.1007/s12031-018-1236-6 Epub 2018 Dec 13. PMID: 30547416.
- Selhub, E.M., Logan, A.C., and Bested, A.C., 2014, “*Fermented foods, microbiota, and mental health: ancient practice meets nutritional psychiatry*”, J.. Physiol Anthropol, doi: 10.1186/1880-6805-33-2, PMID: 24422720; PMCID: PMC3904694.
- Semet, G.R., Kembuan, M.A.H.N., dan Karema, W., 2016, *Gambaran pengetahuan stroke pada penderita dan keluarga di RSUP Prof. Dr. R. D. Kandou Manado*, Jurnal e-Clinic (eCI), 4(2).
- Shenhar-Tsarfaty, S., Assayag, E.B., Bova, I., Shopin, L., Berliner, S., Shapira, I., 2015, *Early signaling of inflammation in acute ischemic stroke: clinical and rheological implications*, Thromb Res. 2015;1222(2):167-173.
- Sulistiyawati, D., Wiryosoendjojo, K., dan Puspawati, N., 2019, *Uji Aktivitas Antijamur Ekstrak Etanol Daun dan Daging Buah Berenuk (Crescentia cujete, Linn.) Terhadap Candida Albicans ATCC 1023*, Biomedika 12(2): 217 - 227.
- Sweeney, M.D., Sagare, A.P., and Zlokovic, B.V., 2018, “*Blood-brain barrier breakdown in Alzheimer disease and other neurodegenerative disorders*”, Nat. Rev. Neurol, doi: 10.1038/nrneurol.2017.188, Epub 2018 Jan 29, PMID: 29377008; PMCID: PMC5829048.
- Tanaka T, Narazaki M, Kishimoto T. *IL-6 in inflammation, immunity, and disease. Cold Spring Harb Perspect Biol.* 2014 Sep 4;6(10):a016295. doi: 10.1101/cshperspect.a016295. PMID: 25190079; PMCID: PMC4176007.

- Tatu, L., and Vuillier, F., 2014, “*Structure and vascularization of the human hippocampus*”, Front Neurol Neurosci, doi: 10.1159/000356440, Epub 2014 Apr 16, PMID: 24777127.
- Thanvi B., Robinson T., 2007, *Complete occlusion of extracranial internal carotid artery: clinical features, pathophysiology, diagnosis and management*. Postgrad Med J. 2007 Feb;83(976):95-9. doi: 10.1136/pgmj.2006.048041. PMID: 17308211; PMCID: PMC2805948.
- Thirugnanachandran, T., Ma.H., Singhal, S. Slater, L.A., Davis, S.M., Donnan, G.A., and Phan, T., 2018, “*Refining the ischemic penumbra with topography*”, Int. J .Stroke, doi: 10.1177/1747493017743056, Epub 2017 Nov 15, PMID: 29140184.
- Tomaszek, Ł., 2022, *The Biological Role of IL-1, IL-6 and CRP and Their Application in the Diagnosis of the Inflammatory Process*, Diagnostyka Laboratoryjna, 58. 66-73. 10.5604/01.3001.0016.1345.
- Verkhatsky, A., Ho, M.S., and Parpura, V., 2019, “*Evolution of Neuroglia*”, Adv. Exp. Med. Biol., doi: 10.1007/978-981-13-9913-8\_2, PMID: 31583583; PMCID: PMC7188604.
- Vogt Weisenhorn, D.M., Giesert, F., and Wurst ,W., 2016, “*Diversity matters - heterogeneity of dopaminergic neurons in the ventral mesencephalon and its relation to Parkinson's Disease*”, J. Neurochem, doi: 10.1111/jnc.13670. Epub 2016 Jun 27, PMID: 27206718; PMCID: PMC5096020.
- Wang Y, Meng X, Wang A, Xie X, Pan Y, Johnston SC, Li H, Bath PM, Dong Q, Xu A, Jing J, Lin J, Niu S, Wang Y, Zhao X, Li Z, Jiang Y, Li W, Liu L, Xu J, Chang L, Wang L, Zhuang X, Zhao J, Feng Y, Man H, Li G, Wang B; CHANCE-2 Investigators. *Ticagrelor versus Clopidogrel in CYP2C19 Loss-of-Function Carriers with Stroke or TIA*. N Engl J Med. 2021 Dec 30;385(27):2520-2530. doi: 10.1056/NEJMoa2111749. Epub 2021 Oct 28. PMID: 34708996.
- Wang, H., Wang, Y., Wang, R., Li Y., Wang, P., Li, J. and Du, J., 2019, “*Hypertrophic olivary degeneration: A comprehensive review focusing on etiology*”, Brain Res., doi: 10.1016/j.brainres.2019.04.024, Epub 2019 Apr 23, PMID: 31026459.
- Wang, W., Yamaguchi, S., Koyama, M., Tian, S., Ino, A., Miyatake, K., Nakamura, K., 2020, *LC-/MS Analysis of Choline Compounds in Japanese-Cultivated Vegetables and Fruits*, Foods, 31;9(8):1029, doi: 10.3390/foods9081029. Erratum in: Foods. 2022 Jul 29;11(15): PMID: 32752118; PMCID: PMC7466321.

- Wathon, Aminul, 2016, *Neurosains Dalam Pendidikan*, Jurnal Lentera: Kajian Keagamaan, Keilmuan dan Teknologi, 14(1).
- White, U.A., and Stephens, J.M., 2011, “*The gp130 receptor cytokine family: regulators of adipocyte development and function*”, *Curr. Pharm.*, doi: 10.2174/138161211795164202, PMID: 21375496; PMCID: PMC3119891
- Wilujeng, Sukian & Wirjaatmadja, Roeswandono & Prakoso, Yos Adi, (2023), *Effects of extraction, fermentation, and storage processes on the levels of choline derived from calabash fruit (Crescentia cujete L.)*, *Journal of Research in Pharmacy*, 27(2). 620-626. 10.29228/jrp.344.
- Wittekind D., 2003, *Traditional staining for routine diagnostic pathology including the role of tannic acid Value and limitations of the hematoxylin-eosin stain*, *Biotechnic & histochemistry : official publication of the Biological Stain Commission* 78: 261-70. 10.1080/10520290310001633725.
- Wolf, R., 2016, *Effects of CDP-Choline on Macrophages and Oligodendrocytes in Neuroinflammation*.
- Wu, S, Yuan, R., Wang, Y., Wei, C., Zhang, S., Yang, X., Wu, B., Liu, M., 2018, *Early Prediction of Malignant Brain Edema After Ischemic Stroke*, *Stroke*, doi: 10.1161/STROKEAHA.118.022001. PMID: 30571414.
- Ya, B.L., Liu, Q., Li, H.F., Cheng, H.J., Yu, T., Chen, L., Wang, Y., Yuan, L.L., Li, W.J., Liu, W.Y., and Bai, B., 2018, “*Uric Acid Protects against Focal Cerebral Ischemia/Reperfusion-Induced Oxidative Stress via Activating Nrf2 and Regulating Neurotrophic Factor Expression*”, *Oxid. Med. Cell*, doi: 10.1155/2018/6069150. PMID: 30581534; PMCID: PMC6276484.
- Yang, B., Liu, M., Wang, Y., Zhang, K., Meijering, E., 2022, *Structure-Guided Segmentation for 3D Neuron Reconstruction*, *IEEE Trans Med Imaging*, doi: 10.1109/TMI.2021.3125777, PMID: 34748483.
- Yi, S., Chen, K., Zhang, L, Shi, W., Zhang, Y., Niu, S., Jia, M., Cong, B., Li, Y., 2019, *Endoplasmic Reticulum Stress Is Involved in Stress-Induced Hypothalamic Neuronal Injury in Rats via the PERK-ATF4-CHOP and IRE1-ASK1-JNK Pathways*, *Front Cell Neurosci*, doi: 10.3389/fncel.2019.00190, PMID: 31130849; PMCID: PMC6509942.
- Yuliana, P., Laconi, E., Wina, E. and Jayanegara, A., 2014, “*Extraction of Tannins and Saponins From Plant Sources and Their Effects on In Vitro Methanogenesis and Rumen Fermentation*”, *Journal of the Indonesian Tropical Animal Agriculture*, 39 (2), 91-97.
- Zeisel SH. 2006. *The fetal origins of memory: the role of dietary choline in optimal*

*brain development*, J Pediatr, Nov;149(5 Suppl): S131-6, doi: 10.1016/j.jpeds.2006.06.065. PMID: 17212955; PMCID: PMC2430654.

Zhang, S., 2019, *Microglial activation after ischaemic stroke*, Stroke Vasc Neurol, doi: 10.1136/svn-2018-000196, PMID: 31338213; PMCID: PMC6613941.

Zheng, K., Lin, L., Jiang, W., Chen, L., Zhang, X., Zhang, Q., Ren, Y., Hao, J., 2022, *Single-Cell RNA-Seq Reveals the Transcriptional Landscape in Ischemic Stroke*, J Cereb Blood Flow Metab, 42(1):56-73, doi: 10.1177/0271678X211026770. Epub 2021 Sep 9. PMID: 34496660; PMCID: PMC8721774.

Zhong, C., Lu, Z., Che, B., Qian, S., Zheng, X., Wang, A., Bu, X., Zhang, J., Ju, Z., Xu, T., Zhang, Y., 2021, *Choline Pathway Nutrients and Metabolites and Cognitive Impairment After Acute Ischemic stroke*, Stroke, doi: 10.1161/STROKEAHA.120.031903, PMID: 33467878.

Zhu, H., Hu, S., Li, Y., Sun, Y., Xiong, X., Hu, X., Chen, J., Qiu, S., 2022, *Interleukins and Ischemic Stroke*, Front Immunol, 31;13:828447, doi: 10.3389/fimmu.2022.828447. PMID: 35173738; PMCID: PMC8841.