

## DAFTAR PUSTAKA

- Adachi, N. (2014) 'New insight in expression, transport, and secretion of brain-derived neurotrophic factor: Implications in brain-related diseases', *World Journal of Biological Chemistry*, 5(4), p. 409. Available at: <https://doi.org/10.4331/wjbc.v5.i4.409>.
- Baek, A. *et al.* (2018) 'High-Frequency Repetitive Magnetic Stimulation Enhances the Expression of Brain-Derived Neurotrophic Factor Through Activation of Ca<sup>2+</sup> -Calmodulin-Dependent Protein Kinase II-cAMP-Response Element-Binding Protein Pathway'. Available at: <https://doi.org/doi:10.3389/fneur.2018.00285>.
- Baliotti, M., Giuli, C. and Conti, F. (2018) 'Peripheral Blood Brain-Derived Neurotrophic Factor as a Biomarker of Alzheimer's Disease: Are There Methodological Biases?', *Molecular Neurobiology*, 55(8), pp. 6661–6672. Available at: <https://doi.org/10.1007/s12035-017-0866-y>.
- Bernhardt, J., Hayward, Kathryn S, *et al.* (2017) 'Agreed definitions and a shared vision for new standards in stroke recovery research: The Stroke Recovery and Rehabilitation Roundtable taskforce'. Available at: <https://doi.org/doi:10.1177/1747493017711816>.
- Bernhardt, J., Hayward, Kathryn S., *et al.* (2017) 'Agreed Definitions and a Shared Vision for New Standards in Stroke Recovery Research: The Stroke Recovery and Rehabilitation Roundtable Taskforce', *Neurorehabilitation and Neural Repair*, 31(9), pp. 793–799. Available at: <https://doi.org/10.1177/1545968317732668>.
- Berretta, A., Tzeng, Y.-C. and Clarkson, A.N. (2014) 'Post-stroke recovery: the role of activity-dependent release of brain-derived neurotrophic factor', *Expert Review of Neurotherapeutics*, 14(11), pp. 1335–1344. Available at: <https://doi.org/10.1586/14737175.2014.969242>.
- Cao, W. *et al.* (2014) 'Early enriched environment induces an increased conversion of proBDNF to BDNF in the adult rat's hippocampus', *Behavioural Brain Research*, 265, pp. 76–83. Available at: <https://doi.org/10.1016/j.bbr.2014.02.022>.
- Caplan, L.R. (2016) 'Chapter 1 Introduction and Perspective', in L.R. Caplan (ed.) *Caplan's STROKE A CLINICAL APPROACH*. 5th edn. USA: Cambridge University Press, pp. 1–18.

Caplan, L.R. and Liebeskind, D.S. (2016) 'Chapter 2 Pathology, Anatomy, and Pathophysiology of Stroke', in L.R. Caplan (ed.) *Caplan's STROKE A CLINICAL APPROACH*. 5th edn. USA: Cambridge University Press, pp. 19–54.

Chang, Y. (2014) 'Reorganization and Plastic Changes of the Human Brain Associated with Skill Learning and Expertise', *frontier in HUMAN NEUROSCIENCE* [Preprint]. Available at: <https://doi.org/10.3389/fnhum.2014.00035>.

Chaturvedi, P. *et al.* (2020) 'Brain-derived neurotrophic factor levels in acute stroke and its clinical implications', *Brain Circulation*, 6(3), p. 185. Available at: [https://doi.org/10.4103/bc.bc\\_23\\_20](https://doi.org/10.4103/bc.bc_23_20).

Chen, S. *et al.* (2017) 'Combined serum levels of multiple proteins in tPA-BDNF pathway may aid the diagnosis of five mental disorders', *Scientific Reports*, 7(1), p. 6871. Available at: <https://doi.org/10.1038/s41598-017-06832-6>.

Colucci-D'Amato, L., Speranza, L. and Volpicelli, F. (2020) 'Neurotrophic Factor BDNF, Physiological Functions and Therapeutic Potential in Depression, Neurodegeneration and Brain Cancer'. Available at: <https://doi.org/10.3390/ijms21207777>.

Coupland, A.P. *et al.* (2017) *The definition of stroke - PMC*. Available at: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5298424/>.

Dobkin, B.H. and Carmichael, S.T. (2013) 'The Specific Requirements of Neural Repair Trials for Stroke'. Available at: <https://doi.org/doi:10.1177/1545968315604400>.

Fisicaro, F. *et al.* (2019) 'Repetitive transcranial magnetic stimulation in stroke rehabilitation: review of the current evidence and pitfalls'. Available at: <https://doi.org/10.1177/1756286419878317>.

Hara, Y. (2015) 'Brain Plasticity and Rehabilitation in Stroke Patients', *The Department of Rehabilitation Medicine, Nippon Medical School*, 82, pp. 4–13. Available at: <https://doi.org/10.1272/jnms.82.4>.

Jiang, B. and He, D. (2019) 'Repetitive transcranial magnetic stimulation (rTMS) fails to increase serum brain-derived neurotrophic factor (BDNF)', *Neurophysiologie Clinique*, 49(4), pp. 295–300. Available at: <https://doi.org/10.1016/j.neucli.2019.05.068>.

Kuriakose, D. and Xiao, Z. (2020) *Pathophysiology and Treatment of Stroke: Present Status and Future Perspectives - PMC*. Available at: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7589849/>.

Lima Giacobbo, B. *et al.* (2019) 'Brain-Derived Neurotrophic Factor in Brain Disorders: Focus on Neuroinflammation', *Molecular Neurobiology*, 56(5), pp. 3295–3312. Available at: <https://doi.org/10.1007/s12035-018-1283-6>.

Liu, W. *et al.* (2020) 'Brain-Derived Neurotrophic Factor and Its Potential Therapeutic Role in Stroke Comorbidities', *Neural Plasticity*, 2020, pp. 1–13. Available at: <https://doi.org/10.1155/2020/1969482>.

Lommatzsch, M. *et al.* (2005) 'The impact of age, weight and gender on BDNF levels in human platelets and plasma', *Neurobiology of Aging*, 26(1), pp. 115–123. Available at: <https://doi.org/10.1016/j.neurobiolaging.2004.03.002>.

Marlatt, M.W. *et al.* (2012) 'Running throughout middle-age improves memory function, hippocampal neurogenesis, and BDNF levels in female C57BL/6J mice', *Developmental Neurobiology*, 72(6), pp. 943–952. Available at: <https://doi.org/10.1002/dneu.22009>.

Mitre, M., Mariga, A. and Chao, M.V. (2017) 'Neurotrophin signalling: novel insights into mechanisms and pathophysiology', *Clinical Science*, 131(1), pp. 13–23. Available at: <https://doi.org/10.1042/CS20160044>.

Muhammad, M. and Hassan, T.M. (2021) 'Cerebral Damage after Stroke : The Role of Neuroplasticity as Key for Recovery', in S.J. Baloyannis (ed.) *Cerebral and Cerebellar Cortex – Interaction and Dynamics in Health and Disease*.

Müller-Dahlhaus, F. and Vlachos, A. (2013) 'Unraveling the cellular and molecular mechanisms of repetitive magnetic stimulation', *Frontiers in Molecular Neuroscience*, 6. Available at: <https://doi.org/10.3389/fnmol.2013.00050>.

Naegelin, Y. *et al.* (2018) 'Measuring and Validating the Levels of Brain-Derived Neurotrophic Factor in Human Serum', *eneuro*, 5(2), p. ENEURO.0419-17.2018. Available at: <https://doi.org/10.1523/ENEURO.0419-17.2018>.

Niimi, M. *et al.* (2016) 'Role of Brain-Derived Neurotrophic Factor in Beneficial Effects of Repetitive Transcranial Magnetic Stimulation for Upper Limb Hemiparesis after Stroke'.

Prodjohardjono, A., Sutarni, S. and Setyopranoto, I. (2020) 'Serum Brain-Derived Neurotrophic Factor (BDNF) Level May Predict the Functional Outcome of Acute Ischemic Stroke Patients', 13, p. 11.

Ramiro, L. *et al.* (2018) 'Inflammatory molecules might become both biomarkers and therapeutic targets for stroke management', 11, pp. 1–24. Available at: <https://doi.org/10.1177/1756286418789340>.

Sims, S.-K. *et al.* (2022) 'Brain-Derived Neurotrophic Factor and Nerve Growth Factor Therapeutics for Brain Injury: The Current Translational Challenges in Preclinical and Clinical Research', *Hindawi Neural Plasticity*, 2022, p. 15. Available at: <https://doi.org/10.1155/2022/3889300>.

Stanne, T.M. *et al.* (2016) 'Low Circulating Acute Brain-Derived Neurotrophic Factor Levels Are Associated With Poor Long-Term Functional Outcome After Ischemic Stroke', 47(7), pp. 1943–1945. Available at: <https://doi.org/10.1161/STROKEAHA.115.012383>.

Utomo, A., Wulan, S.M.M. and Wardhani, I.L. (2020) 'Effect of Short Period Simultaneous Stimulation of Transcranial Direct Current Stimulation on Occupational Therapy to Brain-Derived Neurotrophic Factor Serum in Stroke Patients'.

Zagrebelsky, M. and Korte, M. (2014) 'Form follows function: BDNF and its involvement in sculpting the function and structure of synapses', *Neuropharmacology*, 76, pp. 628–638. Available at: <https://doi.org/10.1016/j.neuropharm.2013.05.029>.

Zhang, X. *et al.* (2007) 'Effect of transcranial magnetic stimulation on the expression of c-Fos and brain-derived neurotrophic factor of the cerebral cortex in rats with cerebral infarct', *Journal of Huazhong University of Science and Technology*, 27(4), pp. 415–418. Available at: <https://doi.org/10.1007/s11596-007-0416-3>.

Zhao, X. *et al.* (2019) 'Repetitive transcranial magnetic stimulation increases serum brain-derived neurotrophic factor and decreases interleukin-1 $\beta$  and tumor necrosis factor- $\alpha$  in elderly patients with refractory depression', *Journal of International Medical Research*, 47(5), pp. 1848–1855. Available at: <https://doi.org/10.1177/0300060518817417>.

## **LAMPIRAN**