

### DAFTAR PUSTAKA

- Alvin, V. & Terry, Jr. 2009. Spatial navigation (*Water Maze*) tasks. In : Buccafusco, JJ (Ed.) : *Methods of Behavior Analysis in Neuroscience*. 2<sup>nd</sup> ed. CRC Press, Boca Raton.
- Bear, M.F., Connors, B.W. & Paradiso, M.A. 2007. *Neuroscience Exploring the Brain*. 3<sup>rd</sup> ed. Lipincott Williams & Wilkins, Philadelphia.
- Duvernoy, H.M. 2005. *The Human Hippocampus; Functional Anatomy, Vascularization and Serial Sections with MRI*. 3<sup>rd</sup> ed. Springer, Germany.
- Gadahad, M.R.K., Rao, M. & Rao, G. 2008. Enhancement of hippocampal CA3 neuronal dendritic arborization by *C.asiatica*(Linn) fresh leaf extract treatment in adult rats. *J. Chin. Med. Assoc.* 71(1):6-13.
- Gohil, K.J., Patel, J.A. & Gajjar, A.K. 2010. Pharmacological review on *Centella asiatica* : a potential herbal cure-all. *Indian. J. Pharm. Sci.* 72(5):546-556.
- Guyton, A.C. & Hall, J.E. 2010. *Guyton and Hall Textbook of Medical Physiology*. 12<sup>th</sup> ed. Saunders Elsevier, Philadelphia.
- Herlina 2010. Pengaruh triterpen total pegagan (*c.asiatica* (l) urban) terhadap fungsi kognitif belajar dan mengingat pada mencit jantan albino (*mus musculus*) yang dihambat dengan skopolamin. *JPS*. 5(2):89-97.
- Japardi, I. 2002. *Learning and Memory*. Universitas Sumatera Utara.
- Jusup, S.A. 2008. Plastisitas astroglia di hipokampus pascastres listrik kronis kajian keterlibatan astrosit dalam fungsi memori kerja pada rattus norvegicus. Available in URL : <http://elib.pdii.lipi.go.id>. Cited : 9 Juni 2014.
- Khotimah, H., Santoso, D. & Fitria, S. 2010. Pengaruh ekstrak air pegagan (*c.asiatica* sp.) terhadap fungsi memori tikus (*rattus norvegicus*) galur wistar lepas sapih menggunakan metode morris *Water Maze*. Fakultas Kedokteran Universitas Brawijaya.
- Khotimah, H., Bekti, R.S. & Mafrukha, L. 2010. Pengaruh ekstrak pegagan (*c.asiatica*) terhadap panjang (*intersection*) dendrit sebagai indikator fungsi memori pada hipokampus tikus (*rattus norvegicus strain wistar*) lepas sapih. Fakultas Kedokteran Universitas Brawijaya.

- Kim, J.J., Song, E.Y. & Kosten, T.A. 2006. Stress effects in the hippocampus : synaptic plasticity and memory. *Stress*. 9(1):1-11.
- Krishnamurthy, R.G., Senut, M.C., Zemke, D., Min, J., Frenkel, M.B., Greenberg, E.J., Yu, S.W., Ahn N., Goudreau J., Kassab, M., Panickar, K.S. & Majid, A. 2009. Asiatic acid, a pentacyclic triterpene from *Centella asiatica*, is neuroprotective in a mouse model of focal cerebral ischemia. *J. Neurosci. Res*. 87(11):2541-2550.
- Kumar, A., Dogra, S. & Prakash, A. 2009. Neuroprotective effects of *C.asiatica* against intracerebroventricular colchicine-induced cognitive impairment and oxidative stress. *Int. J. Alzheimers. Dis*. 2009:1-8.
- Kumar, A., Prakash, A. & Dogra, S. 2011. *C.asiatica* attenuates d-galactose-induced cognitive impairment, oxidative, and mitochondrial dysfunction in mice. *J. Alzheimers. Dis*. 2011:1-9.
- Magio, N. & Segal, M. 2010. Corticosteroid regulation of synaptic plasticity in the hippocampus. *ScientificWorldJournal*. 10:462-469.
- Magio, N. & Segal, M. 2011. Persistent changes in ability to express long-term potentiation/depression in the rat hippocampus after juvenile/adult stress. *J. Biol. Psych*. 69:748-753.
- Melis, V., Riedel, G. & Harrington, C.R. 2012. Spatial learning characteristics of transgenic mice as revealed by detailed video-analysis using etho vision. *P. Meas. Behav*. 479-481.
- McEwen, B.S., Dekloer, E.R. & Rostene, W. 1986. Adrenal steroid receptors and actions in the nervous system. *Physiol. Rev*. 66:1121-88.
- McEwen, B.S. & Stellar, E. 1993. Stress and the individual mechanism leading to disease. *Arch. Intern. Med*. 153(18):2093-2101.
- Morris, R.G.M., Moser, E.I., Riedel, G., Martin, S.J., Sandin, J., Day, M. & O'Carroll, C. 2003. Elements of a neurobiological theory of the hippocampus: the role of activity-dependent synaptic plasticity in memory. *Phil. Trans. R. Soc. Lond*. 358:773-786.
- Nowakowski, R.S. 1999. A fundamental cognitive process that allows us to acquire and retain information about the world and our experiences within it. *J. Neurosci*.

- Orhan, I.E. 2012. *C.asiatica*(l.) urban : from traditional medicine to modern medicine with neuroprotective potential. Evidence-Based Complementary and Alternative Medicine.:1-8.
- Patestas, M.A. & Gartner, L.P. 2006. *A Textbook of Neuroanatomy*. 1<sup>st</sup> ed. Blackwell Publishing, London.
- Roladz, P.R, Warnecke, A.J., Woelke, S.A., Burke, H.M., Frigo, R.M., Pisansky, J.M., et al. 2012. Pre-learning stress that is temporally removed from acquisition exerts sex-specific effects on long-term memory. *Neurobiol. Learn. Mem.* 77.
- Sadock, J.B. & Sadock, V.A. 2007. *Kaplan & Sadock's Synopsis of Psychiatry : Behavioral Sciences/Clinical Psychiatry*. 10<sup>th</sup> ed. Lipincott Williams & Wilkins, New York.
- Sandi, C., Davies, H.A., Cordero, M.I., Rodriguez, J.J., Popov, V.I. & Stewart, M.G. 2003. Rapid reversal of stress induced loss of synapses in CA3 of rat hippocampus following *Water Maze* training. *Eur. J. Neurosci.* 17(11):2447-2456.
- Sari, D.C.R. 2001. Pengaruh stres listrik terhadap memori spasial pada tikus (*Rattus norvegicus*). Lembaga Penelitian UGM, Yogyakarta.
- Sari, D.C.R., Aswin, S., Susilowati, R., Ar-Rochmah, M., Prakosa, D., Romi, M., Tranggono, U. & Arfian, N. 2014. Ethanol extracts of *Centella asiatica* leaf improves memory performance in rats after chronic stress via reducing nitric oxide and increasing brain-derived neurotrophic factor (bdnf) concentration. *Int. J. Psych.* 1(1):61-67.
- Shinomol, G.K. & Muralidhara 2008. Prophylactic neuroprotective property of *C.asiatica* against 3-nitropropionic acid induced oxidative stress and mitochondrial dysfunctions in brain regions of prepubertal mice. *Neurotoxicology.* 29:948.
- Subathra, M., Shila, S., Devi, M.A. & Panneerselvam, C. 2005. Emerging role of *Centella asiatica* in improving age-related neurological antioxidant status. *Exp. Geront.* 40:707-715.
- Tsigos, C. & Chrousos, G.P. 2002. Hypothalamic-pituitary-adrenal axis, neuroendocrine factors and stress. *J. Psychosom. Res.* 53:865-871.
- Wattanathorn, J. 2007. Positive modulation of cognition and mood in the healthy elderly volunteer following the administration of *C.asiatica*. *J. Ethnopharmacol.* 116:325.



- Wong, T.P., Howland, J.G., Robillard, J.M., Ge, Y., Yu, W., Titterness, A.K., Brebner, K., Liu, L., Weinberg, J., Christie, B.R., Phillips, A.G. & Wang, Y.T. 2007. Hippocampal long-term depression mediates acute stress-induced spatial memory retrieval impairment. *P. Natl. Acad. Sci.* 104(27):11471-11476.
- Xu, M.F., Xiong, Y.Y, Liu, J.K., Qian, J.J., Zhu, L., & Gao, J. 2012. Asiatic acid, a pentacyclic triterpene in *C.asiatica*, attenuates glutamate-induced cognitive deficits in mice and apoptosis in SH-SY5Y cells. *Acta. Pharm. Sinic.* 33:578-587.
- Yolanda, D.A., Sari, D.C.R., Ar-Rochmah, M. & Suharmi, S. 2013. The dose variations effect of *Centella asiatica* ethanol extract on escape latency's distance morris *Water Maze* after chronic electrical stress. *Proc. Icbs. Bio-ugm.* 146-153.