

DAFTAR PUSTAKA

- Alvin, V. & Terry, Jr. 2009, *Methods of Behavior Analysis in Neuroscience*, 2nd edition : Chapter 13 Spatial Navigation (Water Mask) Tasks, Boca Raton (FL) : CRC Press.
- Anon. 2012, *Centella asiatica* Selected Triterpenes: A Highly Standardized Natural Remedy For The Maintenance Of An Healthy Venous System, Available in <http://www.indena.com>. Cited: 10 Juni 2014.
- Aspamufita, N. & Yuliani, S. 2013, Efek Ekstrak Etanol Rimpang Temulawak (*Curcuma xanthorrhiza* Roxb) terhadap Memori Spasial Tikus Model Demensia yang Diinduksi Trimethylin, *Pharmaciana*, 3(2):57-62.
- Bermawie, N., Purwiyanti, S. & Mardiana 2008, Keragaman Sifat Morfologi hasil dan Mutu Plasma Nutfah Pegagan (*Centella asiatica* (L.) urban), *Bul.Littro.*, 19(1):1-17.
- Bowman, R.E., Beck, K.D. & Luine, V.N. 2003, Chronic Stress Effects on Memory: Sex Differences in Performance and Monoaminergic Activity, *Horm. Behav.*, 43: 48-59.
- Chen, W.Q., Zhao, X.L., Wang, D.L., Li, S.T., Hou, Y., Hong, Y., et al. 2010, Effects of Epigallocatechin-3-gallate on Behavioral Impairment Induced by Psychological Stress in Rats, *Experimental Biology and Medicine*, 235:577-583, doi:10.1258/ebm.2010.009329
- Dogru, E.J., Gümü^oba^o, U. & Kara, F. 2003, Individual Variation in the Spatial Reference and Working Memory Assessed Under Allothetic and Idiothetic Orientation Cues in Rat, *Acta Neurobiol. Exp.*, 63:17-23.
- Ge, J.F., Qi, C.C., Qiao, J.P., Wang, C.W. & Zhou, N.J. 2013, Sex Differences in ICR Mice in the Morris Water Maze Task, *Physiol. Res.*, 62:107-117.
- Guyton, A.C. & Hall, J.E. 2007, *Buku Ajar Fisiologi Kedokteran*, 11th eds, Jakarta: EGC.
- Herlina 2010, Pengaruh Triterpen Total Pegagan (*Centella asiatica*(L)Urban) Terhadap Fungsi Kognitif Belajar dan Mengingat pada Mencit Jantan Albino(Mus musculus), *J.Penelitian Sains.*, 10:20-4.
- Iskandar, J. 2002, *Learning and Memory*. Medan: Universitas Sumatera Utara Press.

- Kumar, A., Dogra, S. & Prakash, A. 2009, Neuroprotective Effects of *Centella asiatica* against Intracerebroventricular Colchicine-Induced Cognitive Impairment and Oxidative Stress. *Int. J. Alzheimers. Dis.*, 2009:[8p.], doi:10.4061/2009/972178
- Kumar, A., Prakash, A., & Dogra, S. 2011, *Centella asiatica* Attenuates D-Galactose-Induced Cognitive Impairment, Oxidative and Mitochondrial Dysfunction in Mice, *Int. J. Alzheimers. Dis.*, 2011:[9p.].
- Kusumadewi, A.F. 2008, Pengaruh Pemberian Ekstrak Etanol Pegagan (*Centella asiatica* sp.) Pascastres Terhadap Memori Spasial Kajian pada Tikus Putih (*Rattus norvegicus*) dengan Dosis 150 dan 300mg/kgBB Selama Empat Minggu, Yogyakarta: Universitas Gadjah Mada, Skripsi.
- Lynch, M.A. 2004, Long-Term Potentiation and Memory, *Physiol Rev*, 84:87-136.
- Maei, H.R., Zaslavsky, K., Teixeira, C.M. & Frankland, P. W. 2009. What is the Most Sensitive Measure of Maze Probe Test Performance?, *Front Integr Neurosci.*, doi:[10.3389/neuro.07.004.2009](https://doi.org/10.3389/neuro.07.004.2009)
- Magarinos, A.M., Verdugo, J.M.G. & McEwen, B.S. 1997, Chronic Stress Alters Synaptic Terminal Structure in Hippocampus, *Proc Natl Acad Sci USA.*, 94:14002-14008.
- Maggio, N. & Segal, M. 2010, Corticosteroid Regulation of Synaptic Plasticity in the Hippocampus, *The Scientific World Journal*, 10:462-469, doi:10.1100/tsw.2010.48
- Mizuno, K. & Giese, K.P. 2005, Critical Review Hippocampus-Dependent Memory Formation: Do Memory Type-Specific Mechanisms Exist?, *J. Pharmacol Sci*, 98:191-197.
- Morris, R.G.M., 2008, Morris Water Maze, *Scholarpedia*, 3(8):6315, doi:10.4249/scholarpedia.6315
- Morris, R.G.M., Moser, E.I., Riedel, G., Martin, S.J., Sandin, J., Day, M., et al. 2003, Elements of Neurobiological Theory of the Hippocampus: The Role of Activity-Dependent Synaptic Plasticity in Memory, *Phil. Trans. R.Soc. Lond.*, 358: 773-786.
- Orhan, I.E. 2012, *Centella asiatica* (L.) Urban: From Traditional Medicine to Modern Medicine with Neuroprotective Potential, *Evid. Based. Complement. Alternat. Med.*, 2012:[8p.], doi:10.1155/2012/946259

- Pittella, F., Dutra, R.C., Junior, D.D., Lopes, M.T.P. & Barbosa, N.R. 2009, Antioxidant and Cytotoxic Activities of *Centella asiatica* (L) Urb., *Int.J.Mol.Sci.*, 10:3713-3721, doi:10.3390/ijms10093713
- Pramono, S. & Ajiastuti, D. 2004, Standardisasi Ekstrak Herba Pegagan (*Centella asiatica* (L) Urban) Berdasarkan Kadar Asiaticosida Secara KLT-Densitometri, *Majalah Farmasi Indonesia*, 15(3): 119-123.
- Rao, M.K., Rao, M.S. & Rao, G.S. 2007, Treatment with *Centella asiatica* (Linn) Fresh Leaf Extract Enhances Learning Ability and Memory Retention Power in Rats, *Neurosciences*, 12(3):236-241.
- Rao, K.G.M., Rao, S.M. & Rao, S.G. 2005, *Centella asiatica* (Linn) Induced Behavioral Changes During Growth Spurt Period in Neonatal Rats, *Neuroanatomy*, 4:18-23.
- Rao, K.G.M., Rao, S.M. & Rao, S.G. 2007, Enhancement of Amygdaloid Neural Dendritic Arborization by Fresh Leaf Juice of *Centella asiatica* (Linn) During Growth Spurt Period in Rats, *eCAM*, 6(2):203-210.
- Rune, G.M., Wehrenberg, U., Kiel, P.J., Adelman, G. & Frotscher, M. 2002, Estrogen Up-Regulates Estrogen Receptor α and Synaptophysin in Slice Cultures of Rat Hippocampus, *Neuroscience*, 113(1):167-175, doi:10.1016/S0306-4522(02)00152-5
- Sari, D.C.R. & Ar Rochmah, M. 2012c, The Effects of Extract of *Centella asiatica* Leaf on the Retention of Spatial Memory in Rats (*Sprague Dawley*) After Chronic Electrical Stress, *Proceedings Pertemuan Ilmiah Nasional Perhimpunan Ahli Anatomi Indonesia XIV*; 2012:60; Denpasar: Komariat PAAI Denpasar.
- Semwal, P., Kepoor, T., Anthwal, P., Sati, B. & Thapliyal, A. 2014, Review Article Herbal Extract as Potential Modulator and Drug for Synaptic Plasticity and Neurodegenerative Disorders, *Int. J. Pharm. Sci. Rev. Res.*, 25(11):69-79.
- Sherwood, L. 2011, *Fisiologi Manusia dari Sel ke Sistem*, 6th eds, Jakarta: EGC.
- Soumyanath, A., Zhong, Y.P. & Gold, B.G. 2005, *Centella asiatica* Accelerates Nerve Regeneration Upon Oral Administration and Contains Multiple Active Fractions Increasing Neurite Elongation In-Vitro, *J. Pharmacy Pharmacol*, 57(9):1221-9.

- Soumyanath, A., Zhong, Y.P., Henson, E., Wadsworth, T., Bishop, J., Gold, B.G., et al. 2012, *Centella asiatica* Extract Improves Behavioral Deficits in a Mouse Model of Alzheimer's Disease: Investigation of a Possible Mechanism of Action, *Int. J. Alzheimers. Dis.*, 2012:[9p.].
- Tak, P.W., Howland, J.G., Robillard, J.M., Ge, Y., Yu, W., Titterness, A.K., et al. 2007, Hippocampal Long-Term Depression Mediates Acute Stress Induced Spatial Memory Retrieval Impairment, *PNAS*, 104(27):11471-6.
- Wijayakusuma, Hembing. 2000, Ensiklopedi Milenium Tumbuhan Berkhasiat Obat Indonesia. Jakarta: Penerbit Prestasi Insan Indonesia. pp: 1-2.
- Vyas, A., Mitra, R., Rao, B. S. S., & Chattarji, S. 2002, Chronic Stress Induces Contrasting Patterns of Dendritic Remodeling in Hippocampal and Amygdaloid Neurons, *J. Neurosci*, 22(15):6810-6818.
- Xu, M. F., Xiong, Y. Y., Liu, J. K., Qian, J. J., Zhu, L., Gao, J. 2012, Asiatic Acid, a Pentacyclic Triterpene in *Centella asiatica*, Attenuates Glutamate-Induced Cognitive Deficits in Mice and Apoptosis in SH-SY5Y Cells, *Acta Pharmacol. Sin.*, 33:578-587.
- Yolanda, D. A. 2009, Pengaruh Ekstrak Etanol Pegagan (*Centella asiatica* sp.) Terhadap Pembentukan Memori Pascastres Listrik Kronis Kajian Pengaruh Variasi Dosis pada Tikus Putih (Sprague Dawley) terhadap Jarak Tempuh Escape Latency Uji Morris Water Maze, Yogyakarta: Universitas Gadjah Mada, Skripsi.
- Zhu, L. J., Liu, M. Y., Li, H., Liu, X., Chen, C., Han, Z., et al. 2014, The Different Roles of Glucocorticoids in the Hippocampus and Hypothalamus in Chronic Stress-Induced HPA Axis Hyperactivity, *PLoS One*, 9(5), doi:10.1371/journal.pone.0097689