

DAFTAR PUSTAKA

- Abbott, N.J., 1992, Comparative Physiology of The Blood–Brain Barrier, In: Bradbury, M.W.B. (Ed.), Physiology and Pharmacology of the Blood–Brain Barrier, *Springer*, Heidelberg, pp. 371–396.
- Adiningsih, P, 2013, Efek Fraksi Etil Asetat Batang Brotowali Terhadap Peningkatan Memori dan Fungsi Kognitif Pada Mencit Galur Balb/c Berdasarkan Passive Avoidance Test, *Skripsi*, Program Sarjana Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Aggarwal, B.B., Kumar, A., Aggarwal, M.S. & Shishodia, S., 2005, Curcumin Derived from Turmeric (*Curcuma longa*): a spice for all season, *CRC Press LLC*.
- Al-Asmakh, Maha & Hedin, Lars., 2015, Microbiota and The Control of Blood-tissue Barriers, *Tissue Barriers*, 3, 3.
- Bernkop-Schnurch, 2009, Chapter 9: Nano-and Microparticles in Oral Delivery of Macromolecular Drugs, in: Oral Delivery of Macromolecular Drugs, 153-167, *Springer*, New York.
- Blanco, A.M., Valles, S.L., Pascual, M., Guerri, C., 2005, Involvement of TLR4/type I IL-1 Receptor Signaling in The Induction of Inflammatory Mediators and Cell Death Induced by Ethanol in Cultured Astrocytes, *Journal of Immunology*, 175, 6893– 6899.
- Bourne, K.Z., N. Bourne N., S.F. Reising. and L.R. Stanberry., 1999, Plant Product as Topical Icribicide Candidates: Assesment of in Vitro and in Vivo Activity Against herpes virus type-2, *Antiviral Research*, 42 (3), 219-226.
- Bouayed, J., Rammal, H., & Soulimani, R., 2009, Oxidative stress and anxiety relationship and cellular pathways, *Oxidative Medicine and Cellular Longevity*, 2 (2), 63–67.
- Brailowsky, S. & Garcia, O., 1999, Ethanol, GABA, and Epilepsy, *Archives of Medical Research*, 30, 3-9.
- Brown, R.E., Corey, S. C., Moore, A. K. 1999, Differences in Measures of Exploration and Fear in MHC-congenic C57BL/6J and B6-H-2K Mice, *Behavior Genetics*, 26, 263-271
- Buck D.F., 1991, *Antioxidants*, Didalam: J. Smith, editor, Food Additive User's Handbook. Blackie Academic & Profesional, Glasgow-UK.

- Butterfield, D.A., Howard, B., Yatin, S., Koppal, T., Drake, J., Hensley, K., Aksenay, M., Aksenova, M., Subramaniam, R., Varadarajan, S., Harris-White, M.E., Pedigo, N.W., Jr. and Carney, J.M., 1999, Elevated Oxidative stress in Models of Normal Brain Aging and Alzheimer's Disease, *Life Science*, 65 (18-19), 1883-92.
- Cardozo-Pelaez, F., Song, S., Parthasarathy, A., Hazzi, C., Naidu, K., Sanchez-Ramos, J., 1999, Oxidative DNA damage in the aging mouse brain. *Mov Disord*, 14 (6), 972-80.
- Casadesus, G., Shukitt-Hale, B., Stellwagen, H.M., Zhu, X., Lee, H.G., Smith, M.A., Joseph, J.A., 2004, Modulation of hippocampal plasticity and cognitive behavior by short-term blueberry supplementation in aged rats. *Nutritional Neuroscience*, 7, 309-316
- Chattopaday, I., Biswas, K., Bandyopadhyay, U., Banerjee, R.K., 2004, Turmeric and Curcumin: Biological Actions and Medicinal Applications, *Current Science*, 87 (1), 44-53.
- Chen, H., Khemtong, C., Yang, X., Chang, X., Gao, J., 2010, Nanonization Strategies for Poorly Water-Soluble Drugs, *Drug Discovery Today*, 7-8 (16), 354-360.
- Christopher, B., Stephen, B. McHugh, Rolf, S., Peter, H., Seeburgm, J., Nicholas, P., Rawlins, D. M. B., 2010, Hippocampal NMDA Receptors and Anxiety: At The Interface Between Cognition and Emotion, *Europe Journal Pharmacology*, 626 (1), 49-56.
- Chuang, D.M., Leng, Y., Marinova, Z., Kim, H.J., Chiu, C.T., 2009, Multiple Roles of HDAC Inhibition in Neurodegenerative Conditions, *Trends Neuroscience*, 32, 591-601.
- Cohen, O.S., E.I. Varliskaya, C.A. Wilson, S.J. Glatt, S.M. Mooney., 2013, Acute Prenatal Exposure to a Moderate Dose of Valproic Acid Increase Social Behaviour and Alters Gene Expression in Rats, *International Journal of Developmental Neuroscience*, 31, pp. 740-750.
- Cooke, S.F., & Bliss, T.V., 2006, Plasticity in The Human Central Nervous System, *A Journal Of Neurology*, 129, 1659-1673.
- Da'i, M., 1998, Pengaruh Gugus β -diketon terhadap Daya Reduksi Kurkumin dan Turunannya pada Ion Ferri, *Skripsi*, Fakultas Farmasi, Universitas Gadjah Mada, Yogyakarta.

- Dai, M., Meiyanto, E., Margono, S.A., Jenie U.A., Kawaichi, M., 2007, Mekanisme Molekuler Aktivitas Analog Kurkumin Pentagamavunon Terhadap Sel Kanker Payudara T47D, *Disertasi*, Fakultas Farmasi, UGM, Yogyakarta.
- Date, A.A. & Nagarsenker M.S., 2007, Design and Evaluation of Self-Nanoemulsifying Drug Delivery Systems (SNEDDS) for Cefpodoxime Proxetil, *International Journal Pharmaceutics*, 329, 166-172.
- Deitrich, R., Zimatkin, S. & Pronko, S., 2006, Oxidation of Ethanol in The Brain and It's Consequences, *Alcohol Research & Health*, 29 (4), 266-73.
- Deng, W., Aimone, J.B., Gage, F.H., 2010, New Neurons and New Memories: How Does Adult Hippocampal Neurogenesis Affect Learning and Memory? *National Reviews Neuroscience*, 11, 339-50.
- Dogru, E.J., Gumusbas, U. & Kara, F., 2003, Individual Variation in the Spatial Reference and Working Memory Assessed under Allothetic and Idiothetic Orientation Cues in Rat, *Acta Neurobiologiae Experimentalis*, 63, 17-23.
- Durstewitz, D., Seamans, J.K. & Sejnowski, T.J., 2000, Neurocomputational Models of Working Memory, *Nature Science*, 3, 1184-91.
- Fakuchi, M., Nii, T., Ishinaru, N., Minamino, A., Hara, D., Takasaki, I., Tabuchi, A., & Tsuda, M., 2009, Valproic Acid Induces Up or Down Regulation of Gene Expression Responsible for The Neuronal Excitation and Inhibition in Rat Cortical Neurons Through It's Epigenetic Actions, *Neuroscience Research*, 65(1), 35-43.
- Ferrante, R.J., Kubilus, J.K., Lee, J., Ryu, H., Beesen, A., Zucker, B., Smith, K., Kowall, N.W., Ratan, R.R., Luthi-Carter, R., Hersch, S.M., 2003, Histone Deacetylase Inhibition by Sodium Butyrate Chemotherapy Ameliorates the Neurodegenerative Phenotype in Huntington's Disease Mice, *Journal Neuroscience*, 23, 9418-9427.
- Fernandez, & Kim, S.O., 2004, Psychochemical and Fungsional Properties of Crawfish Chitosan as Effected by Different Processing Protocols, *Thesis*, The Departement of Food Science, Graduate faculty of the Lousiana State University and Agricultural and Mechanical College, Los Angeles.
- Fischer A., Sananbenesi, F., Wang, X., Dobbin, M., Tsai, L.H., 2007, Recovery of Learning and Memory is Associated with Chromatin Remodeling, *Nature*, 447, 178-182.

- Frautschy, S.A. & Hu, W., 2001, Phenolic Anti Inflammatory Antioxidant Reversal of Induced Cognitive Deficits and Neuropathology, *Neurobiology of Aging*, 22, 993–1005.
- Govindarajan, N., Roberto, C., Jonas, W., Andre, F., 2011, Sodium Butyrate Improves Memory Function in an Alzheimer’s Disease Mouse Model When Administreted at an Advanced Stage of Disease, *Journal Alzheimer’s Disease*, 26 (1), 187-197.
- Gruart, A., Munoz, M.D. and Delgado-Garcia, J.M., 2006, Involvement of the CA3-CA1 Synapse in the Acquisition of Associative Learning in Behaving Mice, *Journal Neuroscience*, 26 (4), 1077-1087.
- Gupta S., Chavhan S., Sawant K.K., 2011, Self-Nanoemulsifying Drug Delivery System for Adefovir Dipivoxil: Design, Characterization, in Vitro and ex Vivo evaluation, *Colloids and Surfaces A: Physicochemical and Engineering*, 392, 145–155.
- Guyton, A.C. and Hall, J.E., 2006, *Textbook of Medical Physiology*, 11th ed. Philadelphia, PA, Elsevier Saunders, USA.
- Hakim, A.R., Nugroho, A.E., dan Hakim, L., 2006, Profil Farmakokinetika Pentagamavunon-0 setelah Pemberian Kalium Pentagamavunonat-0 secara Oral pada Tikus, *Majalah Farmasi Indonesia*, 17 (4), 204 – 211, Universitas Gadjah Mada.
- Hakim, L., 2007, Pharmacokinetic and Biological Activities of a Curcumin Analog-Pentagamavunon-0. In Ed: Pudjono, Ganjar, I.G., Sismindari, Riyanto, S., Meiyanto, E., Susidarti., R.A., Ikawati., Nugroho, A.K., Ritmaleni, *Recent Development in Curcumin Pharmacochemistry. Proceeding of The International Symposium on Recent Progress in Curcumin Research*, 37-55, Faculty of Pharmacy Gadjah Mada University Yogyakarta.
- Halliwell, B., 2006, Oxidative stress and neurodegeneration: where are we now?, *Journal Neurochemistry*, 97 (6), 1634–58.
- Harper, L.K. & Matsumoto, I., 2005, Ethanol and Brain Damage, *Current Opinion in Pharmacology*, 5, 73-78.
- Heaton, M.B., Mitchell, J.J., Paiva, M., 2000, Amelioration of Ethanol-induced Neurotoxicit in The Neonatal Rat Central Nervous System by Antioxidant Therapy, *Alcohol Clinical Experimental Research*, 24 (4) : 512-518.

- Hsieh, J. & Gage, F.H., 2004, Epigenetic Control Of Neural Stem Cell Fate, *Current Opinion in Genetics and Development*, 14 (5), 461-9.
- Hu, M. & Li, X., 2011, *Oral Bioavailability: Basic Principles*, Advance Concept and Application, John Wiley&Son, Inc., Hoboken, 32-33, New Jersey.
- Jared, S.R., 2010, Enhancement of Memory in Rats with *Cantella asiatica*, *Biomedical Research*, 21 (4),429-432.
- Jarrard, L.E., 1983, Selective hippocampal lesions and behavior: effects of kainic acid lesions on performance of place and cue tasks. *Behavioral Neuroscience*, **97**, 873-889.
- Juliandi, B., Abematsu, M. & Nakashima, K., 2010, Epigenetic Regulation in Neural Stem Cell Differentiation, *Development, Growth, and Differentiation*, 52 (6), 492-504.
- Kathleen, R., Bailey and Jacqueline, N., Crawley J., 2009, Anxiety Related Behavior in Mice, *Pharmacology, Biochemistry, and Behavior*, 13 (2), 167–170.
- Kim, H.J., Leeds, P., Chuang, D.M., 2009, The HDAC Inhibitor, Sodium Butyrate, Stimulates Neurogenesis in The Ischemic Brain, *Journal of Neurochemistry*, 100, 1226-1240.
- Kim, S.J., Son, T.G., Park, H.R., Park, M., Kim, M.S., Kim, H.S., Chung, H.Y., Mattson, M.P., Lee, J., 2008, Curcumin Stimulates Proliferation of Embryonic Neural Progenitor Cells and Neurogenesis in The Adult Hippocampus, *Journal Biology Chemistry*, 283, 14497-14505
- Kumar, A., Choi, K.H., Renthal, W., Tsankova, N.M., Theobald, D.E., Truong, H.T., Russo, S.J., Laplant, Q., Sasaki, T.S., Whistler, K.N., Neve, R.L., Self, D.W., Nestler, E.J., 2005, Chromatin Remodeling is a Key Mechanism Underlying Cocaine-Induced Plasticity in Striatum, *Neuron*, 48, 303–314.
- Kushner, M. G., Abrams, K. & Borchardt, C., 2000. The Relationship Between Anxiety Disorders and Alcohol Use Disorders: A Review of Major Perspectives and Findings, *Clinical Psychology Review*, 20, 149–171.
- Lao, C.D., Demierre, M.F. & Sondak, V.K., 2006, *Targeting Events in Melanoma Carcinogenesis for The Prevention of Melanoma*.
- Lebel, C.P., Bondy, S.C., 1991, Oxygen radicals: Common mediators of neurotoxicity, *Neurotoxicol Teratol*, 13(3), 341–6.

- Li, F., dan Tsien, J.Z., 2009, Memory and The NMDA Receptors. *The New England Journal of Medicine*, 361, 302 – 303.
- Liu, H.L., Chen, Y., Cui, G.H., Zhou, J.F., 2005, Curcumin Potent Anti-tumor Reagent, is a Novel Histone Deacetylase Inhibitor Regulating B-NHL Cell Line Raji Proliferation, *Acta Pharmacologica Sinica*, 26,603–609.
- Lu, Zhang., Yu, Fang., Yuming, Xu., Yajun, Lian., Nanchang, Xie., Tianwen, Wu., Haifeng, Zhang., Limin, Sun., Ruifang, Zhang., Zhenhua, Wang., 2015, Curcumin Improves Amyloid β -Peptide (1-42) Induced Spatial Memory Deficits through BDNF-ERK Signaling Pathway, *Plos One*, 10, 6.
- Machado-Vieira, Rodrigo, Lobna Ibrahim, & Carlos A. Zarate Jr., 2011, Histone Deacetylases and Mood Disorders: Epigenetic Programming in Gene-Environment Interactions." *CNS Neuroscience & Therapeutics*, 17 (6), 699-704.
- Maes, M., 1993, A Review on the Acute Phase Response in Major Depression, *Review Neuroscience*, 4 (4), 407-416.
- Mahendran, G., Thamotharan G., Sengottuvelu, S., & Narmatha Bai, V., 2014, Evaluation of Anticonvulsant, Sedative, Anxiolytic, and Phytochemical Profile of the Methanol Extract from the Aerial Parts of *Swertia corymbosa* (Griseb.) Wight ex C.B. Clarke, *BioMed Research International*, 1-9.
- Majeed, M., Badmaev, V., Shirakumar U. & Rajendran, R., 1995, Curcuminoids Antioxidant Phytonutrients, PisCataway, New Jersey, *NutriScience Publisher Inc*, 3-80.
- Mancuso, C., Siciliano, R., Barone, E., 2011, Curcumin and Alzheimer Disease; This Marriage is Not To Be Performed, *Journal of Biology Chemistry*, 285, 28472-28480.
- Martien R., Loretz B., Sandbichler A.M., Bernkop-Schnürch A., 2008, Thiolated Chitosan Nanoparticles: Transfection Study in the Caco-2 Differentiated Cell Culture, *Nanotech*, 19, 1-9.
- Mastrangelo, M.E., Schleich, C.E., Zenuto, R.R., 2009, Short-term Effects of an Acute Exposure to Predatory Cues on the Spatial Working and Reference Memory Performance in a Subterranean Rodent, *Animal Behaviour*, 77, 685-692.

- Mishra, Shrikant, 2008, The Effect of Curcumin (turmeric) on Alzheimer's Disease: An Overview, *Annals of Indian Academy of Neurology*.
- Meenakshi Malhotra & Satya Prakash, 2011, Targeted Drug Delivery Across Blood-Brain-Barrier Using Cell Penetrating Peptides Tagged Nanoparticles, *Current Nanoscience*, 7, 81-93
- Mesembe, O., Bisong, S., Ekeoma, A., 2008, Neurobehavioural Activity In Albino Wistar Rats In The Open Field Maze Following Long Term Tobacco Diet Ingestion, *The Internet Journal of Neurology*, 10 (2), 1-6.
- Nikolai, V., Malykhin, R.C., Peter, S., Nicholas, J. Coupland., 2010, Structural Changes in the Hippocampus in Major Depressive Disorder: Contributions of Disease and Treatment, *Journal Psychiatry Neuroscience*, 35 (5), 337–343.
- Nurrochmad, A., 1997, Penghambatan Biosintesis Prostaglandin melalui Jalur Siklooksigenase oleh Siklovalon dan Tiga Senyawa Analognya, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Nurrochmad, A., 2004, Pandangan Baru Kurkumin dan Aktivasnya sebagai Antikanker, *Biofarmasi*, 2 (2), 75-80.
- Nurulita, N.A., dan Meiyanto, E., Efek Antikanker Pentagamavunon-0 (PGV-0) terhadap Sel Kanker Payudara T47D yang Diinduksi 17-b-Estradiol Melalui Mekanisme Induksi Apoptosis dan Pengambatan Angiogenesis, 2006, *Sains Kesehatan*, 19 (1), Universitas Gadjah Mada, Yogyakarta.
- Oldendorf, W.H., 1973, Carrier-mediated Blood-brain Barrier Transport of Short-Chain Monocarboxylic Organic Acids, *Am J Physiol (Lond)*, 224,1450 –1453
- Onksen, J.L., 2011, Role Of Hippocampal Neurogenesis In The Etiology And Treatment Of Mood & Anxiety Disorders, *Publicly accessible Penn Dissertations*, ,University of Pennsylvania Scholarly Commons.
- Olton, D.S., Samuelson, R.J., 1976, Remembrance of places passed: Spatial memory in rats, *Journal of Experimental Psychology: Animal Behavior Processes*, 2 (2), 97–116.
- Pandey, S.C, Ugale, R., Zhang, H., Tang, L., Prakash, A., 2008, Brain hromatin Remodeling: a Novel Mechanism of Alcoholism, *Journal Neuroscience*, 28,3729–3737.

- Parsons, P.G., Hansen, C., Fairlie, D.P., West, M.L., Danoy, P.A., Sturm, R.A., Dunn, L.S., Pedley, J. & Ablett, E.M, 1997, Tumor Selectivity and Transcriptional Activation by Azelaic Bishydroxamic Acid in Human Melanocytic Cells, *Biochemical Pharmacology*, 53, 1719–1724.
- Pascual, M., Balino, P., Alfonso-Loeches, 2011, Impact of TLR4 On Behavioral and Cognitive Dysfunction Associated with Alcohol-induced Neuroinflammatory Damage, *Brain Behavior Immunology*, Pubmed.
- Prasetya, D.Y., dan Yuliani S., 2014, Aktivitas Ekstrak Rimpang Temulawak (*Curcuma xanthorrhiza* Roxb.) pada Radial Arm Maze dan Pasive Avoidance Test Tikus Model Demensia, *Pharmaciana*, 4 (2), 157-164, Fakultas Farmasi Universitas Ahmad Dahlan.
- Rianto, R.K., 1998, Daya Tangkap Radikal Superoksida dari Senyawa Siklovalon dan Derivat Lingkar Lima dan Rantai Lurus dengan Variasi Gugus Metoksi pada Cincin Aromatis, *Skripsi*, Fakultas Farmasi UGM.
- Sajithlal, G.B., P. Chithra. & G. Chandrakasan, 1998, Effect of Curcumin on The Advanced Glication and Cross-linking of Collagen in Diabetic Rats, *Biochemical Pharmacology*, 56 (12), 1607-1614.
- Saladin, K.S., 2006, *Anatomy and Physiology: The Unity of Form and Function*, 4th, 443-558, McGraw-Hill, New York.
- Sardjiman, 1993, Sintesa 2,6-Bis (3,5-Dimetil-4-Hidroksi Benzilidin) Sikloheksanon, 2,5-(3,5-dimetil-4- Hidroksi Benzilidin) Siklopentanon & Pentadien-on dan Daya antioksidannya, *Laporan Penelitian*, 10 (5), 373–385, Universitas Gadjah Mada, Yogyakarta.
- Sardjiman, S.S., Samhoedi, M., Hakim, L., van der Goot, H., dan Timmerman, H. 1997, '1,5-diphenyl-1,4-pentadien 3-on and Cyclic Analogues as Antioxidative Agents, Synthesis and Structure-Activity Relationship', *Proceedings of The International Symposium on Curcumin Pharmacology (ISCP)*, Aditya Media, Yogyakarta, pp 175-185.
- Sardjiman, 2000, Synthesis of Some New Series of Curcumin Analogues, Antioxidative, Anti-inflammatory, Antibacterial Activities and Qualitative Structure-Activity Relationship, *Dissertation*, Gadjah Mada University, Yogyakarta, Indonesia.

- Sapolsky, R.M., Romero, L.M., Munck, A.U., 2006 How Do Glucocorticoids Influence Stress Responses? Integrating Permissive, Suppressive, Stimulatory and Preparative Actions, *Endocrin Review*, 21 (1), 55-89
- Seo, T.B., Cho, H.S., Shin, M.S., Kim, C.J., Ji, E.S. & Baek, S.S., 2013, Treadmill Exercise Improves Behavioral Outcomes and Spatial learning Memory Through Up-regulation of Reelin Signaling Pathway in Autistic Rats, *Journal of Exercise Rehabilitation*, 9 (2), 220-229.
- Sethi, P., Jyoti, A., Hussain, E., Sharma, D., 2009, Curcumin Attenuates Aluminium-induced Functional Neurotoxicity in Rats, *Pharmacological Biochemistry Behaviour*, 93, 31-39.
- Shaffer, D.R., 1989, *Developmental Psychology*, 8-36, Wardsworth Publishing Co, Inc., Belmont, CA.
- Shankar, T.B., Shantha, N.V., Ramesh, H.P., Murthy, I.A., Murthy, V.S., 1980, Toxicity Studies on Tumeric (*Curcuma longa*): Acute Toxicity Studies in Rats, Guineapigs and Monkeys, *Indian Journal of Experimental Biology*, 18, 73-75.
- Sharma, R.A., Euden, S.A., Platton, S.L., Cooke, D.N, Shafayat, A., Hewitt H.R., Marczylo, T.H., Morgan, B., Hemingway, D., Plummer, S.M., Pirmohamed, M., Gescher, A.J., Steward, W.P., 2004, Phase I clinical trial of oral curcumin: biomarkers of systemic activity and compliance, *Clinical Cancer Research*, 10, 6847-6854.
- Shibo, X. dan Xiaoli, T.X, 1991, The Pharmacological Research on Curcumin, *Traditional Herbal Drugs*, 22, 137-159, China.
- Simonini, M.V., Camargo, L.M., Dong, E., Maluku, E., Veldic, M., Costa, E., Guidotti, A., 2006, The Benzamide MS-275 is A Potent, Long-lasting Brain RegionS-selective Inhibitor of Histone Deacetylase, *Proceedings et Biophysica Acta*, 1768, 1976-1990.
- Smart, J., 2006, Curcumin: A Powerful Brain Protection Supplement, Available from: URL: <http://accelerating.org/articles/curcumin.html>.
- Smith, D.G., Cappai, R., Barnham, K.J., 2007, The redox chemistry of the Alzheimer's disease amyloid beta peptide, *Biochimia et Biophysica Acta*, 1768, 1976-1990.
- Smith J., Wood E. & Dornish M., 2004, Effect of Chitosan On Epithelial Cell Tight Junctions, *Pharmaceutical Research*, 21 (1), 43-49.

- Steckert, A.V., Valvassori, S.S., Varela, R.B., Mina, F., Resende, W.R., Bavaresco, D.V., Ornell, F., Dal-Pizzol, F., Quevedo, J., 2013. Effects of Sodium Butyrate on Oxidative Stress and Behavioral Changes Induced by Administration of d-AMPH, *Neurochemistry International*, 62, 425-432.
- Sudarsono, Pudjoarianto, A., Gunawan, D., Wahyono, S., Donatus, I. A., Dradjad, M., Wibowo, S., Ngatidjan., 1996, *Tumbuhan Obat*, 54-58, Pusat Penelitian Obat Tradisional Universitas Gadjah Mada, Yogyakarta.
- Sun, M., Gao, Y., Guo, C., Cao, F., Song, Z., Xi, Y., Yu, A., Li, A., Zhai, G., 2010, Enhancement of Transport of Curcumin to Brain in Mice by Poly(n-Butylcyanoacrylate) Nanoparticle, *Journal Nanoparticle Research*, 12, 3111-3122.
- Tarantino L.M. & Bucan M., 2000, Dissection of Behavior and Psychiatric Using the Mouse as a Model, *Human Molecular Genetic*, 9,953-965.
- Tim Molnas Fakultas Farmasi UGM, 2001, Buku III, *Laporan Penelitian Bidang Farmakologi Proyek Molnas*, Fakultas Farmasi UGM, Yogyakarta
- Thanaset, Senawong., Suwatchai, Misuna., Somprasong, Khaopha., Suporn, Nuchadomrong., Prasan, Sawatsitang., Chanokbhorn, Phaosiri., Arpa, Surapaitoon., & Banchob, Sripa., 2013, Histone Deacetylase (HDAC) Inhibitory and Antiproliferative Activities of Phenolic-rich Extracts Derived from The Rhizome of *Hydnophytum formicarum* Jack.: Sinapinic Acid Acts as HDAC Inhibitor, *Complementary and Alternative Medicine*, 13, 232.
- Thiyagarajan, M. & Sharma, S.S., 2004, Neuroprotective Effect of Curcumin in Middle Cerebral Artery Occlusion Induced Focal Cerebral Ischemia in Rats, *Life Science*, 74, 969–985.
- Varadarajan, S., Yatin, S., Aksenova, M. & Butterfield, D.A., 2000, Review: Alzheimer's Amyloid b-Peptide-Associated Free Radical Oxidative Stress and Neurotoxicity, *Journal of Structural Biology*, 130, 184–208.
- Vajragupta, O., Boonchoong, P., Watanabe, H., Tohda, M., Kummasud, N., Sumanont, Y., 2003, Manganese Complexes of Curcumin and its Derivatives: Evaluation for the Radical Scavenging Ability and Neuroprotective Activity, *Free Radical Biology and Medicine*, 35 (12), 1632–44.

- Vale, T.G., Matos, F.J.A., de Lima, T.C.M., Viana, G.S.B., 1999, Behavioral effects of essential oils from *Lippia alba* (Mill.) N.E. Brown chemotypes, *Journal of Ethnopharmacology*, 167, 127–133.
- Van der Goot, H., 1995, The Chemistry and Qualitative Structure-Activity Relationship of Curcumin, dalam Pramono, S., Jenie, U.A., Sudibyo, R.S., Gunawan, D. (Ed.): *Curcumin Pharmacochimistry*, 13-27, Faculty of Pharmacy Gadjah Mada University Yogyakarta, Indonesia.
- Van der Groot, H., 1997, 'The Chemistry and Qualitative Structure-Activity Relationship of Curcumin', *Proceedings of The International Symposium on Curcumin Pharmacochimistry (ISCP)*, edited by Suwijo Pramno *et al.*, Aditya Media, Yogyakarta, pp 13-23.
- Wahyuni, A.S., 1999, Perbandingan Daya Ulserogenik antara Senyawa Pentagamavunon-0 dan Asetosal pada Lambung Tikus Putih, *Skripsi*, Fakultas Farmasi, Universitas Gadjah Mada, Yogyakarta.
- Wang, J.Y., Wang, J.Y., Wang, Y., Wang, J.Y., 2000, A Comparation Between Acute Exposure to Ethanol and Acetaldehyde on Neurotoxicity, Nitric Oxide Production and NMDA Induced Exitotoxicity in Pyramidal Cultures of Cortical Neurons, *Chinese Journal of Pshycology*, 43 (3), 131-38.
- Wathen, N. & Roberts, W.A., 1994, Multi-pattern Learning by Rats on An Eight Arm Radial Maze, *Animal Learning and Behavior*, 22 (2), 155-164.
- William, J. & Reilly, J.B., 2000, *Pharmaceutical Necessiies, Remington The Science and Praticte of Pharmacy*, edt Alfonso, R. G, 20th edition, Lippincott Williams & Wilkins, Philadelphia.
- Wolburg, H., Noell, S., Mack, A., Wolburg-Buchholz, K., Fallier-Becker, P., 2009, Brain Endothelial Cells and the Glio–Vascular Complex, *Cell Tissue Research*, 335, 75–96.
- Xu, Y., Wang, C., Klabnik, J.J., O'Donnell, J.M., 2014, Novel Therapeutic Targets in Depression and Anxiety: Antioxidants as a Candidate Treatment, *Current Neuropharmacology*, 12, 108-119.
- Zakhari, S., 2006, Overview: How is Alcohol Metabolizes by Body?, *Alcohol Research Health*, 29 (4), 245-254.

Zhe, D., Fang, H., Yuxiu, S., 2008, Expressions of Hippocampal Mineralocorticoid Receptor (MR) and Glucocorticoid Receptor (GR) in the Single-Prolonged Stress-Rats, *The Japan Society of Histochemistry and Cytochemistry*, 41 (4), 89-95.