

DAFTAR PUSTAKA

- Adiningsih, , 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.
- Agudelo, M., Gandhi N., Saiyed, Z., Pichili, V., Thangayel, S., Khatavkar, , Yndart-Arias, A., dan Nair, M., 2011, Effects of Alcohol on Histone Deacetylase 2 (HDAC2) and the Neuroprotective Role of Trichostatin A (TSA), *Alcohol : Clinical and Experimental Research*, **35**(8), 1550–1556.
- Bachman, Julia, 2013, Reverse-Transcription PCR (RT-PCR), *Methods in Enzymology*, **530**, 67-74.
- Bailey, K.R., dan Crawley, J., 2009, Anxiety-Related Behaviors in Mice dalam Buccafusco J.J., (editor) *Methods of Behavior Analysis in Neuroscience*, edisi kedua, Boca Raton, CRC Press/Taylor & Francis, Boca Raton, Florida,
- Barbacid, Mariano, 1994, The Trk Family of Neurotrophin Receptors, *Journal of Neurobiology*, **25**, 1386–1403.
- Baydyuk, M., Nguyen, M. T., dan Xu, B., 2011, Chronic Deprivation of *TrkB* Signaling Leads to Selective Late-Onset Nigrostriatal Dopaminergic Degeneration, *Experimental Neurology*, **228**, 118–125.
- Bertram, L., dan Tanzi, R. E., 2005, The Genetic Epidemiology of Neurodegenerative Disease, *The Journal of clinical investigation*, **115**(6), 1449-1457.
- Bhoi, Debadutta, 2012, Dietary Bioactive Compounds as Histone Deacetylase Inhibitor for Cancer Prevention, *Thesis*, National Institute of Technology, Rourkela, Odisha.
- Bisht, Savita, 2007, Polymeric Nanoparticle-Encapsulated Curcumin "Nanocurcumin": A Novel Strategy For Human Cancer Therapy, *Journal Nanobiotechnology*, **5**, 3.
- Blanco, A. M., Vallés, S. L., Pascual, M., dan Guerri, C., 2005, Invement 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.
- Bondi, M. W., Edmonds, E. C., dan Salmon, D. P., 2017, Alzheimer's Disease: Past, Present, and Future. *Journal of the International Neuropsychological Society*, **23** (9-10), 818–831.
- Broide, R. S., Redwine, J. M., Aftahi, N., 2007, Distribution of Histone Deacetylases 1–11 in The Rat Brain, *Journal of Molecular Neuroscience*, **31** (1), 47-58.

- Budson, A.E., Solomon, P.R., 2012, New Criteria for Alzheimer Disease and Mild Cognitive Impairment: Implications for The Practicing Clinician, *Neurologist*, **18** (6), 356–63.
- Buggy, J. J., Sideris, M. L., Mak, P., Lorimer, D. D., McIntosh, B., dan Clark, J. M., 2000, Cloning and Characterization of A Novel Human Histone Deacetylase HDAC8, *Journal of Biochemistry*, **350**, 199-205.
- Buhot, M. C., Patra, S. K., dan Naili, S., 1995, Spatial Memory Deficits Following Stimulation of Hippocampal 5-HT_{1B} Receptors in The Rat, *European Journal of Pharmacology*, **285**, 221–228.
- Butterfield, D., Howard, B., Yatin, S. M., Koppal, T., Drake, J. L., Hensley, K., Aksenov, M., Aksenova, M., Subramaniam, R., Varadarajan, S., Harris-White, M. E., Pedigo, N. W., dan Carney, J. M., 1999, Elevated Oxidative Stress in Models of Normal Brain Aging and Alzheimer's Disease, *Life sciences*, **65**, 18-19.
- Candido, E. M., Reeves, R., dan Davie, R. J., 1978, Sodium Butyrate Inhibits Histone Deacetylation in Cultured Cells, *Cell*, **14**, 105-113
- Chen, Z., Simmons, M. S., Perry, R. T., Wiener, H. W., Harrell, L. E., dan Go, R. C., 2008, Genetic Association of Neurotrophic Tyrosine Kinase Receptor Type 2 (NTRK2) With Alzheimer's Disease., *American Journal of Medical Genetics*, **147**, 363–369.
- Cheung, T. T., Weston, M. K., dan Wilson, M. J., 2017, Selection and Evaluation of Reference Genes for Analysis of Mouse (*Mus Musculus*) Sex-Dimorphic Brain Dissection Development, *PeerJ*, **5**.
- Clarke, J. R., White, N. C., dan Weber, J. N., 2000, HIV Compartmentalization: Pathogenesis and Clinical Implications, *AIDS Rev*, **2**, 15–22.
- Compton, T., 1990, *Degenerate Primers for DNA Amplification*, hal. 39-45 dalam *PCR Protocols* (Innis, Gelfand, Sninsky dan White, editor), Academic Press, New York.
- Coppedè, Fabio, 2014, The Potential of Epigenetic Therapies in Neurodegenerative Diseases, *Frontier in Genetics*, **5**, 220.
- Crous-Bou, M., Minguillón, C., Gramunt, N., 2017, Alzheimer's Disease Prevention: from Risk Factors to Early Intervention. *Alzheimers Research and Therapy*, **9** (1), 71.
- Cummings, Jefferey L., 2004, Alzheimer's Disease, *The New England Journal of Medicine*, **351**, 56–67.
- Cunha, C., Brambilla, R., dan Thomas, K. L., 2010, A Simple Role for *BDNF* in Learning and Memory, *Frontiers in Molecular Neuroscience*, **3**, 1.

- Deng, W., Aimone, J. B., dan Gage, F. H., 2010, New Neurons and New Memories: How Does Adult Hippocampal Neurogenesis Affect Learning and Memory?, *National Reviews Neuroscience*, **11**, 339-350
- Dieffenbach, C. W., Lowe, T. M. J., dan Dveksler, G. S., 1995, *General Concepts for PCR Primer Design*, dalam *PCR Primer, A Laboratory Manual*, Dieffenbach C. W., Dveksler, G. S. E., 133-135, Cold Spring Harbor Laboratory Press, New York.
- Donohoe, D. R., Collins, L. B., Wali, A., Bigler, R., Sun, W., dan Bultman, S. J., 2012, The Warburg Effect Dictates The Mechanism of Butyrate-Mediated Histone Acetylation and Cell Proliferation, *Molecular Cell Journals*, **48** (4), 612-626.
- Duvoix, A., Blasius, R., Delhalle, S., Schnekenburger, M., Morceau, F., Henry, E., Dicato, M., dan Diederich, M., 2005, Chemopreventive and Therapeutic Effect of Curcumin, *Cancer Letter*, **223**(2), 181-190.
- Finin, M. S., Donigian, J. R., Cohen, A., Richon, V. M., Rifkind, R. A., Marks, A., Breslow, R., dan Pavletich, N., 1999, Structures of A Histone Deacetylase Homologue Bound to The TSA And SAHA Inhibitors, *Nature*, **401**, 188-193
- Fischer, A., Sananbenesi F, Mungenast A, Tsai L. H., 2010, Targeting The Correct HDAs to Treat Cognitive Disorders, *Trends in Pharmacological Sciences*, **31** (12), 605–617.
- Frautschy, S.A. dan Hu, W., 2001, Phenolic Anti Inflammatory Antioxidant Reversal of Induced Cognitive Deficits and Neuropathology, *Neurobiology of Aging*, **22**, 993– 1005.
- Gonzalez-Zuñiga, M., Contreras, S., Estrada, S., Chamorro, D., Villagra, A., Zanlungo, S., Seto, E., dan Alvarez, A. R., 2014, C-Abl Stabilizes HDAC2 Levels by Tyrosine Phosphorylation Repressing Neuronal Gene Expression in Alzheimer's Disease, *Molecular Cellular*, **56**, 163–173.
- Gräff, J., Rei, D., Guan, J. S., Wang, W. Y., Seo, J., Hennig, K. M., Nieland, T. J., Fass, D. M., Kao, F., Kahn, M., Su, S. C., Samiei, A., Joseph, N., Haggarty, S. J., Delalle, I., dan Tsai, L. H., 2012, An Epigenetic Blockade of Cognitive Functions in The Neurodegenerating Brain, *Nature*, **483** (7388), 222-226.
- Gruart, A., Muñoz, M.D., dan Delgado-García J.M., 2006, Invement of the CA3–CA1 Synapse in the Acquisition of Associative Learning in Behaving Mice, *Journal of Neuroscience*, **26** (4), 1077-1087.
- Guan, J. S., Haggarty, S. J., Giacometti, E., Dannenberg, J. H., Joseph, N., Gao, J., Nieland, T.J., Zhou, Y., Wang, X., Mazitschek, R., Bradner, J.E., DePinho, R.A., Jaenisch, R., dan Tsai, L.H., 2009, HDAC2 Negatively Regulates Memory Formation and Synaptic Plasticity, *Nature*, **7**, 55-60.

- Guo, W., Ji, Y., Wang, S., Sun, Y., dan Lu, B., 2014, Neuronal Activity Alters *BDNF–TrkB* Signaling Kinetics and Downstream Functions, *Journal of Cell Science*, **127**, 2249-2260.
- Gupta, S. C., Prasad, S., Kim, J. H., Patchva, S., Webb L. J., Priyadarsini, I. K., dan Anggarwal, B. B., 2011, Multitargeting by Curcumin as Revealed by Molecular Interaction Studies, *Natural Products Report*, **28**, 1937-1955.
- Gupta, V. K., You, Y., Gupta, V. B., Klistorner, A., dan Graham, S. L., 2013, *TrkB* Receptor Signalling: Implications in Neurodegenerative, Psychiatric and Proliferative Disorders, *International journal of molecular sciences*, **14** (5), 10122-10142.
- Hagelkruys, A., Lager, S., Kraemer, J., Leopoldi, A., Artaker, M., Pusch, O., dan Seiser, C., 2014, A Single Allele of *Hdac2* But Not *Hdac1* is Sufficient for Normal Mouse Brain Development in The Absence of Its Paralog, *Development (Cambridge, England)*, **141** (3), 604–616.
- Handoyo, Darmo dan Rudiretna, Ari, 2001, Prinsip Umum dan Pelaksanaan Polymerase Chain Reaction (PCR), *Unitas*, **9** (1), Pusat Studi Bioteknologi Universitas Surabaya, Surabaya.
- Haorah, J., Ramirez, S. H., Floreani, N., Gorantla, S., Morse, B., dan Persidsky, Y., 2008, Mechanism of Etanol-Induced Oxidative Stress and Neuronal Injury, *Free radical biology dan medicine*, **45** (11), 1542-1550.
- Hauss, D.J., Oral Lipid-Based Formulations, 2007, *Advanced Drug Delivery Review*, **59**, 667-676.
- Hewlings, S. J., dan Kalman, D. S., 2017, Curcumin: A Review of Its Effects on Human Health, *Foods (Basel, Switzerland)*, **6** (10), 92.
- Hoekstra, H. E., dan Coyne, J. A., 2007, The Locus of Eution: Evo Devo and The Genetics of Adaptation, *Eution*, **61** (5), 995-1016.
- Holme, D. J., dan Hazel, 1998, *Analytical Biochemistry*, Edisi ketiga, Addison Wesley Longman, London.
- Holm, R., dan Hoest, J., 2004, Successful in Silico Predicting of Intestinal Lymphatic Transfer, *International Journal of Pharmacy*, **272**, 189–193.
- Hoplight, B. J., Sandygren, N. A., Neumaier, J. F., 2006, Increased Expression of 5- HT1B Receptors in Rat Nucleus Accumbens Via Virally Mediated Gene Transfer Increases Untary Alcohol Consumption, *Alcohol*, **38** (2), 73-79.
- Hsieh, J. dan Gage, F. H., 2004, Epigenetic Control of Neural Stem Cell Fate, *Current Opinion in Genetics and Development*, **14** (5), 461–469.
- Hu, L., Tang, X., Cui, F., 2004, Solid Lipid Nanoparticles (SLNs) to Improve Oral Bioavailability of Poorly Soluble Drugs, *Journal Pharmacy and Pharmacology*, **56**, 1527–1535.

- Ishmael, F.T., 2008, Principles and Applications of Polymerase Chain Reaction: Basic Science for The Practicing Physician, *Annals of Allergy, Asthma and Immunology*, **101**, 437–443
- Istyastono E. P., Nurrochmad A., Yuniarti N., 2016, Structure-Based Virtual Screening Campaigns on Curcuminoids as Potent Ligands for Histone Deacetylase-2, *Oriental Journal of Chemistry*, **32** (1).
- 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.
- Jin, H., Oksenberg, D., Ashkenazi, A., Peroutka, S. J., Duncan, A. M., Rozmahel, R., Yang, Y., Mengod, G., Palacios, J. M., dan ODowd, B. F., 1992, Characterization of The Human 5-Hydroxytryptamine1b Receptor, *The Journal of Biological Chemistry*, **267** (9), 5735–5738.
- Juliandi, B. A., 2010, Epigenetic Regulation in Neural Stem Cell Differentiation, *Development, Growth and Differentiation*, **52** (6), 493–504.
- Kaidanovich-Beilin, O., Lipina, T., Vukobradovic, I., Roder, J., dan Woodgett, J.R., 2011, Assessment of Social Interaction Behaviors, *Journal of Visualized Experiments*, **48**, 2473.
- Kelly, R. D., dan Cowley, S. M., 2013, The Physiological Roles of Histone Deacetylase (HDAC) 1 and 2: Complex Co-Stars With Multiple Leading Parts, *Biochemical Society Transaction*, **41**, 741–749.
- Kim, S. J., Son, T. G., Park, H. R., Park, M., Kim, M. S., Kim, H. S., Chung, H. Y., Mattson, M., dan Lee, J., 2008, Curcumin Stimulates Proliferation of Embryonic Neural Progenitor Cells and Neurogenesis in The Adult Hippocampus, *Journal of Biology Chemistry*, **283**, 14497-14505.
- Korzus, E., Rosenfeld, M. G., dan Mayford, M. G., CBP Histone Acetyltransferase Activity is A Critical Component of Memory Consolidation, *Neuron*, **42**, 961-972.
- Lappalainen, J., Long, J. C., Eggert, M., Ozaki, N., Robin, R. W., Brown, G. L., Naukkarinen, H., Virkkunen, M., Linnoila, M. dan Goldman, D., 1998, Linkage of Antisocial Alcoholism to The Serotonin 5-HT1B Receptor Gene in 2 Populations, *Archive of General Psychiatry*, **55**, 989–994.
- Lestari, R. K., Watanabe, M., Imada, Y., Shiogama, H., Field, R. D., Takemura, T., dan Kimoto, M., 2014, Increasing Potential of Biomass Burning Over Sumatra, Indonesia Induced by Anthropogenic Tropical Warming, *Environmental Research Letters*, **9** (10).
- Licciardi, K, 2012, Influence of Natural and Synthetic Histone Deacetylase Inhibitors on Chromatin, *Antioxidants and Redox Signaling*, **17** (2), 340-354.
- Liu, H. L., Chen, Y., Cui, G. H., dan 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.
- Lunn, G., dan Sansone, E. B., 1987, Ethidium Bromide: Destruction and Decontamination of Pollutions, *Analytical Biochemistry*, **162**, 453-458.
- Mahady, G. B., Pendland, S. L., Yun, G., dan Lu, Z. Z., 2002, Turmeric Curcuma Longa and Curcumin Inhibit The Growth of Helicobacter Pylori, A Group 1 Carcinogen, *Anticancer Research*, **22**, 4179-4181.
- Mancuso, C., Siciliano, R., dan Barone, E., 2011, Curcumin and Alzheimer Disease; This Marriage is Not To Be Performed, *Journal of Biology Chemistry*, **285**, 28472-28480.
- Marks, A., 2010, Histone Deacetylase Inhibitors: A Chemical Genetics Approach To Understanding Cellular Functions, *Biochemica et Biophysica Acta*, **1799**, 717-725.
- Maynard, K. R., Hobbs, J. W., Phan, B. N., Gupta, A., Rajpurohit, S., Williams, C., dan Martinowich, K., 2018, BDNF-*TrkB* Signaling in Oxytocin Neurons Contributes to Maternal Behavior. *eLife*, **7**.
- Menon, V., dan Sudheer, A. R., 2007, Antioxidant and Anti-Inflammatory Properties of Curcumin, *Advances in Experimental Medicine and Biology*, **595**, 105–125.
- Minichiello, L., 2009, *TrkB* Signalling Pathways in LTP and Learning, *Nature Reviews Neuroscience*, **10**, 850–860.
- Mohsin, K., Long, M. A., dan Pouton C. W., 2009, Design of Lipid-Based Formulations for Oral Administration of Poorly Water-Soluble Drugs: Precipitation of Drug After Dispersion of Formulations in Aqueous Solution, *Journal of Pharmaceutical Sciences*, **98**, 3582-3595.
- Murray, B. B., 2003, Eution of Glutamine Synthetase in Vertebrates: Multiple Glutamine Synthetase Genes Expressed in Rainbow Trout, *Journal of Experimental Biology*, **206**, 1511-1152.
- Nakagawara, A., Liu, X. G., Ikegaki, N., White, S., Yamashiro, D. J., Nycum, L. M., Biegel, J. A., dan Brodeur, G. M., 1995, Cloning and Chromosomal Localization of The Human TRK-B Tyrosine Kinase Receptor Gene (NTRK2), *Genomics*, **25**, 538–546.
- OLeary, O. F., dan Cryan, J. F., 2010, dalam Müller, C., dan Jacobs, B. L. (editor), *Handbook of the Behavioral Neurobiology of Serotonin*, **21**, 749, Academic Press, London.
- Onksen, Jennifer L., 2011, Role of Hippocampal Neurogenesis in The Etiology And Treatment of Mood and Anxiety Disorders, *Publicly Accessible Penn Dissertatitons*, **387**.

- Ono, K., K. Hasegawa, H. Naiki, dan M. Yamada, 2004, Curcumin Has Potent Anti-Amyloidogenic Effects for Alzheimer's β -Amyloid Fibrils in Vitro, *Journal of Neuroscience Research*, **75**, (6), 742–750.
- Pardridge, William M., 2005, The Blood–Brain Barrier: Bottleneck in Brain Drug Development *Neurorx*, **2**(1), 3–14.
- Patel, H., Santwani, Patel, Akhsay, K., Ranch, K., dan Shah, D., 2013, A Review on Solid Self-Nanoemulsification-Techniques, Dosage Forms Development and Pharmaceutical Applications, *Journal of Biomedical and Pharmaceutical Research*, **2**(4), 52-56.
- Penney, J. dan Tsai, L., 2014, Neuroscience: Histone Deacetylases in Memory and Cognition, *Science Signaling*, **7** (355), 12.
- Peterson, C.L., dan Laniel, M.A., 2004, Histones and Histone Modifications, *Current Biology Magazine*, **14** (14).
- Porter C. J. H., Pouton C. W., Cuine C. F., dan Charman W., 2008, Enhancing Intestinal Drug Solubilization Using Lipid-Based Delivery System., *Advance Drug Delivery Review*, **60**, 673-91.
- Pouton, C.W., dan Porter, C.J., 2008, Formulation of Lipid-Based Delivery Systems for Oral Administration: Materials, Methods and Strategies, *Advanced Drug Delivery Review*, **60**, 625-637.
- Prasad, S., dan Aggarwal, B. B., 2011, Turmeric, The Golden Spice: From Traditional Medicine to Modern Medicine, in *Herbal Medicine, Biomolecular and Clinical Aspects*, **2**.
- Qiu, C., Kivipelto, M., dan von Strauss, E., 2009, Epidemiology of Alzheimer's Disease: Occurrence, Determinants, and Strategies Toward Intervention, *Dialogues in Clinical Neuroscience*, **11**(2), 111-128.
- Rajendran, H., Ho, E., Williams, D. E., dan Dashwood, R. H., 2011, Dietary Phytochemicals, HDA Inhibition, and DNA Damage/Repair Defects in Cancer Cells, *Clinical Epigenetics*, **3**, 4.
- Ramirez, S. L. X., 2013, Creating A False Memory in The Hiocampus, *Science*, **341**, 387-391.
- Ray, B. dan Lahiri D. K., 2009, Neuroinflammation in Alzheimer's Disease: Different Molecular Targets and Potential Therapeutic Agents Including Curcumin, *Current Opinion in Pharmacology*, **9** (4), 434–444.
- Reddy, R. C. V., 2005, Curcumin for Malaria Therapy, *Biochemical and Biophysical Research Communications*, **3262**, 472.
- Saladin, K. S., 2006, *Anatomy and Physiology: The Unity of Form and Function*, Edisi Keempat, 443-558, McGraw-Hill, New York.
- Sallert, M., Rantamaki, T., Vesikansa, A., Anthoni, H., Harju, K., Yli-Kauhaluoma, J., Taira, T., Castren, E., dan Lauri, S. E., 2009, Brain-Derived Neurotrophic

- Factor Controls Activity-Dependent Maturation of CA1 Synapses by Downregulating Tonic Activation of Presynaptic Kainate Receptors, *Journal of Neuroscience*, **29**, 11294–11303.
- Sarhan, H., dan Fillion, G., 1998, The Therapeutic Potential of 5-HT_{1B} Autoreceptors and Heteroreceptors and 5-HT-Moduline in CNS Disorders, *CNS Spectrums* **3**, 50–58.
- Schroeder J. S. H., 2013, Spinal Alignment in Low Back Pain Patients and Age-Related Side Effects: A Multivariate Cross-Sectional Analysis of Video Rasterstereography Back Shape Reconstruction Data, *European Spine Journal*, **22**(9), 1979-1985
- Seibenhener, M. L., dan Wooten, M. C., 2015, Use of the Open Field Maze to Measure Locomotor and Anxiety-Like Behavior in Mice, *Journal of visualized experiments : JoVE*, **96**.
- Sekhavat, A., Sun, J. M., dan Davie, J. R., 2007, Competitive Inhibition of Histone Deacetylase Activity by Trichostatin A and Butyrate, *Biochemistry Cell Biology Journals*, **85** (6), 751-758
- Seo, T. B., Cho, H. S., Shin, M. S., Kim, C. J., Ji, E. S., dan 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**, 220-229.
- Seto, E., dan Yoshida, M., 2014, Erasers of Histone Acetylation: The Histone Deacetylase Enzymes, *Cold Spring Harbor Perspectives in Biology*, **6**(4).
- Shahba, A. A., Mohsin, K., dan Alanazi, F. K., 2012, Novel Self-Nanoemulsifying Drug Delivery Systems (SNEDDS) for Oral Delivery of Cinnarizine: Design, Optimization, and In-Vitro Assessment, *AAPS Pharmaceutical Science Technology*, **13** (3), 967–977.
- Tarantino, L. M., dan Bucan, M., 2000, Dissection of Behavior and Psychiatric Using The Mouse as A Model, *Human Molecular Genetics*, **9**, 953-965.
- Tønnesen, P., Fryd, V., Hansen, M., Helsted, J., Gunnensen, A.B., Forchammer, H., dan Stockner M., 1988, Two and Four Mg Nicotine Chewing Gum and Group Counselling in Smoking Cessation: An Open, Randomized, Controlled Trial With A 22 Month Follow-Up, *Addictive Behaviors*, **13**, 17-27.
- Vogelgesang, S., Niebert, S., Renner, U., Möbius, W., Hülsmann, S., Manzke, T., dan Niebert, M., 2017, Analysis of the Serotonergic System in a Mouse Model of Rett Syndrome Reveals Unusual Upregulation of Serotonin Receptor 5b, *Frontiers in molecular neuroscience*, **10**, 61.
- Volmar, C. H., dan Wahlestedt, C., 2015, Histone Deacetylases (HDACS) and Brain Function, *Neuroepigenetics*, **1**, 20-27.
- Wan Li, Ka, 2011, Neuroproteomics, *Neuromethods*, **57**.

- Wang, R., Li, Y. B., Li, Y. H., Xu, Y., Wu, H. L., dan Li, X. J., 2008, Curcumin Protects Against Glutamate Excitotoxicity in Rat Cerebral Cortical Neurons by Increasing Brain-Derived Neurotrophic Factor Level and Activating *TrkB*, *Brain Research*, **1210**, 84-91.
- Wang, X., dan Seed, B., 2007, High-throughput Primer and Probe Design, dalam Dorak, M. T., (Editor), *Real Time PCR*, Taylor dan Francis Group.
- Werle, M., Takeuchi, H., dan Bernkop-Schnurch, A., 2009, Modified Chitosans for Oral Drug Delivery, *Journal of Pharmaceutical Sciences*, **98**, 1643–1656.
- William, J. dan Reilly, J. B., 2000, *Pharmaceutical Necessities, Remington The Science and Practice of Pharmacy*, Alfonso, R. G. (editor), Edisi Keduapuluh, Lippincot Williams dan Wilkins, Philadelphia.
- Yallapu, M. M., Jaggi, M., dan Chauhan, S.C., 2012, Curcumin Nanoformulations: A Future Nanomedicine for Cancer, *Drug Discovery Today*, **17**, 71-80.
- Yi Guo, K. R., 2009, Lipid Droplets at A Glance, *Journal Cell Sciences.*, **1226**, 749-752.
- Yuniarti, N., dan Nurrochmat, A., 2016, Elucidasi Mekanisme Molekular Kurkumin dan Dietary Compounds Lain sebagai Brain Disorder Treatment Agents Baru melalui Uji Aktivitas in vitro, in silico, dan in vivo pada Target Enzim Histon Deasetilase, *Laporan Tahun 2016 Penelitian Berbasis Kompetensi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Yuniarti, N., Purwantiningsih, dan Nurrochmat, A., 2015, Elucidasi Mekanisme Molekular Kurkumin dan Dietary Compounds Lain sebagai Brain Disorder Treatment Agents Baru melalui Uji Aktivitas in vitro, in silico, dan in vivo pada Target Enzim Histon Deasetilase, *Laporan Tahun 2015 Penelitian Berbasis Kompetensi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Yuniarti, N., Murwanti, R., dan Sugiyanto, 2017, Elucidasi Mekanisme Molekular Kurkumin dan Dietary Compounds Lain sebagai Brain Disorder Treatment Agents Baru melalui Uji Aktivitas in silico, in vitro, dan in vivo pada Target Enzim Histon Deasetilase, *Laporan Tahun Terakhir Penelitian Berbasis Kompetensi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Zakhari, S., 2006, Overview: How is Etanol Metabolized by Body?, *Etanol Research Health*, **29**, 245-254.
- Zhuang, X., Gross, C., Santarelli, L., Compan, V., Trillat, A. C. and Hen, R., 1999., Altered emotional states in knockout mice lacking 5-HT1A or 5-HT1B receptors, *Neuropsychopharmacology*, **21**, 52S–60S.