

DAFTAR PUSTAKA

- Abass, M.A. & El-Haleem, A.R., 2011. Evaluation of Monosodium Glutamate Induced Neurotoxicity and Nephrotoxicity in Adult Male albino Rat. *J. Am. Sci.* 7(8): 264–276.
- Ault, A., 2004. Products of Chemistry The Monosodium Glutamate Story: The Commercial Production of MSG and Other Amino Acids. *J. Chem. Educ.* 81(3): 347–355.
- Baad-Hansen, L., Cairns, B.E., Ernberg, M., Svensson, P., 2009. Effect of systemic monosodium glutamate (MSG) on headache and pericranial muscle sensitivity. *Cephalalgia*.(16): 1-10.
- Beyreuther, K., Biesalski, H. K., Fernstrom, J. D., Grimm, P., Hammes, W. P., Heinemann, U., *et.al.*, 2007. Consensus meeting : monosodium glutamate – an update. *Eur. J. Clin. Nutr.* 6: 304–313.
- Boyce, R.W., Dorph-Petersen K., Lyck, L., Gundersen, H.J.G., 2010. Design-based Stereology: Introduction to Basic Concepts and Practical Approaches for Estimation of Cell Number. *Toxicol. Pathol.* 38:1011-1025.
- Bridges, D., Thompson, S.W.N., Rice, A.S., 2001. Mechanisms of Neuropathic Pain (Review). *Br. J. Anesth.* 87(1):12–26.
- Burrin, D.G. & Stoll, B., 2009. Metabolic fate and function of dietary glutamate in the gut 1 – 5. *Am. J. Clin. Nutr.* 90(8): 850–856.
- Cairns, B.E., Gambarota, G., Svensson, P., Arendt-Nielsen, L., Berde, C.B., 2002. Glutamate-induced sensitization of rat masseter muscle fibers. *Neuroscience*. 109(2): 389–399.
- Cairns, B.E., Xudong, D., Mann, M.K., Svensson, P., Sessle, B.J., Arendt-Nielsen, L., McErlane, K.M., 2007, Systemic Administration of Monosodium Glutamate Elevates Intramuscular Glutamate levels and Sensitizes Rat Masseter Muscle Afferent Fibers, *Pain*. 132(1-2): 33-41.
- Carrozi, V., Marmiroli, P, Cavaletti, G., 2008. Focus on The Role of Glutamate in the Pathology of the Peripheral Nervous. *CNS Neurol. Disord. Drug. Targets.*: 7(4): 348-60.
- Castillo, C. & Norcini, M., 2013. Satellite Glia Cells In Dorsal Root Ganglia Express Functional NMDA Receptors. *Neuroscience*. 240: 135–146

- Cemaluk, E.A.C., Madus, E.P. & Nnamdi, O.L., 2010. Influence of sub-chronic oral exposure to high monosodium glutamate on some serum markers of the renal functions in male Wistar rats. *African J. Biochem. Res.* 4(9): 225–228.
- Danysz, W., Parsons, C.G., Bresink, I. & Quack, G., 1995. Glutamate in CNS disorders. *Drug. News. Perspect.* 8:261–278.
- Dief, A.E., Kamha, E.S., Baraka, A.M. & Elshorbagy, A.K., 2014. Monosodium glutamate neurotoxicity increases beta amyloid in the rat hippocampus: A potential role for cyclic AMP protein kinase. *Neuro. Toxicology.* 42:76–82.
- Eweka, A.O., Igbibi, P.S., Ucheya, R.E., 2011. Histochemical Studies of the Effects of Monosodium Glutamate on the Liver of Adult Wistar Rats. *Ann Med Health Sci Res.* 1(1): 21–29.
- FAO/WHO, 1974. *Toxicological evaluation of certain food additives with a review of general principles and of specifications*. 17th Report of the Joint FAO/WHO Expert Committee on Food Additives. FAO Nutrition Meetings Report Series no. 53, WHO Technical Report Series no. 539.
- Festing, M., Baumans, V., Combes, R., Halder, M., Hendriksen, C., Howard, B., Lovell, D., Moore, G., Overend, P., & Wilson, M. 1998. Reducing the use of laboratory animals in biomedical research: problems and possible solutions. *ATLA.* 26; 283-301.
- Flowerdew, S.E., Wick, D., Himmelein, S., Horn, A.K.E., Sinicina, I., Strupp, M. *et al.*, 2013. Characterization of neuronal populations in the human trigeminal ganglion and their association with latent herpes simplex virus-1 infection. *PLoS ONE.* 8(12): 1–9.
- Gill, S., Pulido, O., 2005. *Glutamate Receptors in Peripheal Tissue: Excitatory Transmission Outside the CNS*. Kluwer Academic, New York.
- Hanani, M., 2005. Satellite glial cells in sensory ganglia: From form to function. *Brain. Res. Rev.* 48(3): 457–476.
- Howard, C.V., Reed, M.G., 2005. *Unbiased Stereology: Three-Dimensional Measurement in Microscopy*. 2nd edition, BIOS Scientific Publishers, USA.
- Janeczko, M.J., Stoll, B., Chang, X., Guan, X. & Burrin, D.G., 2007. Extensive gut metabolism limits the intestinal absorption of excessive supplemental dietary glutamate loads in infant pigs. *J. Nutr.* 137(11): 2384–2390.
- Jeon, H.J., Han, S.R., Park, M.K., Yang, K.Y., Bae, Y.C., Ahn, D.K., 2012. A novel trigeminal neuropathic pain model: Compression of the trigeminal

nerve root produces prolonged nociception in rats. *Prog. Neuropsychopharmacol. Biol. Psych.* 38(2): 149–158.

Julio-pieper, M., Flor, P.J., Dinan, T.G. & Cryan, J.F., 2011. Exciting Times beyond the Brain : Metabotropic Glutamate Receptors in Peripheral and Non-Neural Tissues. *Pharmacol. Rev.* 63(1): 35–58.

Kemenkes RI, 2013. *Riset Kesehatan Dasar-Riskesdas 2013*. Balai Penelitian dan Pengembangan Kesehatan. Kementerian Kesehatan RI, Jakarta.

Krastev, D.S. & Apostolov, A., 2013. Cytoarchitectonic Study Of The Trigeminal Ganglion In Humans. *Clujul. Med.* 86(2): 97–101.

Krastev, D.S., Paloff, A., Hinova-Palova, A., Apostolov, A. & Ovtscharoff, W., 2007. Light – Microscopic Structure of Trigeminal Ganglion in Humans. *J. of IMAB.* 13: 111–113.

Krzyzanowska, A., Pittolo, S., Cabrerizo, M., Sánchez-lópez, J., Krishnasamy, S., Venero, C., Avendano, C., 2011. Assessing nociceptive sensitivity in mouse models of inflammatory and neuropathic trigeminal pain., *J. Neu. Meth.* 201: 46–54.

Kung, L., Gong, K., Adedoyin, M., Ng, J., Bhargava, A., Ohara, P.T., *et al.*, 2013. Evidence for Glutamate as a Neuroglial Transmitter within Sensory Ganglia., *PLoS One.* 8(7): 1-15.

Lagares A., Avendano, C., 2000. Lateral asymmetries in the trigeminal ganglion of the male rat. *B. Res.* 856 (2000): 202-210.

Larsen, D. B., Kristensen, G.I., Panchalingam, V., Laursen, J.C., Poulsen, J.N., Andersen, M.S. *et al.*, 2014. Investigating the expression of metabotropic glutamate receptors in trigeminal ganglion neurons and satellite glial cells: implications for craniofacial pain. *J. Recep. Signal. Transduct. Res.* 9893(4):1–9.

Lau, A. & Tymianski, M., 2010. Glutamate receptors, neurotoxicity and neurodegeneration. *Pflugers. Arch.* 460(2): 525–542.

Laursen, J.C., Cairns, B.E., Dong, X.D., Kumar. U., Somvanshi, R.K., Arendt-Nielsen, L., *et al.*, 2014. Glutamate Dysregulation In The Trigeminal Ganglion : A Novel Mechanism For Peripheral Sensitization Of The Craniofacial Region. *Neuroscience.* 256: 23–35.

- Lazarov, N.E., 2012. The Neurochemical Anatomy of Trigeminal Primary Afferent Neurons in Contreras, C.M. (ed) *Neuroscience - Dealing With Frontiers*. InTech, Available from: <http://www.intechopen.com/books/neuroscience-dealing-with-frontiers/the-neurochemical-anatomy-oftrigeminal-primary-afferent-neurons>
- Miller, K.E., Hoffman, E.M., Sutharshan, M. & Schechter, R., 2011. Pharmacology & Therapeutics Glutamate pharmacology and metabolism in peripheral primary afferents: Physiological and pathophysiological mechanisms. *Pharmacol. Ther.* 130(3): 283–309.
- Moore, K.L., 2014. *Clinically Oriented Anatomy*. 7th edition. Lippincot. William and Wilkins. Philadelphia.
- Nyengaard, J.R., 1999. Stereologic Methods and Their Application in Kidney Research. *J. Am. Soc. Nephrol.* 10: 1100-1123
- Onaolopo, O. & Onaolopo, A. 2011. Acute low dose monosodium glutamat retards novelty induced behaviours in male Swiss albino mice. *J.Neurosci. Behav.Health.* 3: 51-56.
- Olney, J.W., 1969. Brain lesions, obesity, and other disturbances in mice treated with monosodium glutamate. *Science*. 164(880): 719–721.
- Peach, R., 1972. Fine structural features of light and dark cells in the trigeminal ganglion of the rat. *J. Neurocytol.* 1(2): 151–160.
- Prastiwi, D., Djunaidi, A. & Partadiredja, G., 2015. High dosage of monosodium glutamate causes deficits of the motor coordination and the number of cerebellar Purkinje cells of rats. *Hum. Exp. Toxicol.* Available at: <http://het.sagepub.com/cgi/doi/10.1177/0960327115572706>.
- Prawirohardjono, W. Dwiprahasto, I., Astuti, I., Hadiwandono, S., Kristin, E., Mustofa, M., *et.al.*, 2000. Glutamate Safety in the Food Supply The Administration to Indonesians of Monosodium L -Glutamate in Indonesian Foods: An Assessment of Adverse Reactions in a Randomized. *J. Nutr.* 130: 1074–1076.
- Purves, D., Augustine, G.J., Fitzpatrick, D., Hall, W.C., LaMantia, S., McNamara, J.O., *et.al.*, 2004. *Neuroscience*. 3rd edition. Sinauer Inc., USA.
- Reeds, P.J., Burrin, D.G., Stoll, B. & Jahoor, F., 2000. Glutamate and Glutamine in Metabolism. *J. Nutr.*: 978–982.

- Reichling, D.B. & Levine, J.D., 2011. Pain and death: Neurodegenerative disease mechanisms in the nociceptor. *Ann. Neurol.* 69(1): 13–21.
- Rusu, M.C. Pop, F., Hostiuc, S., Dermengiu, D., Lala, A.I., Ion, D.A., et.al. 2011. The human trigeminal ganglion: C-kit positive neurons and interstitial cells. *Ann. Anat.* 193(5): 403–411.
- Sahara, Y., Noro, N., Iida, Y., Soma, K. & Nakamura, Y., 1997. Glutamate receptor subunits GluR5 and KA-2 are coexpressed in rat trigeminal ganglion neurons. *J. Neurosci.* 17(17): 6611–6620.
- Shimada, A.S., Baad-Hansen, L., Castrillon, E., Ghafouri, B., Stensson, N., Gerdle, B., et al., 2015. Differential effects of repetitive oral administration of monosodium glutamate on interstitial glutamate concentration and muscle pain sensitivity. *Nutrition.* 31(2): 315–323.
- Singh, P., Mann, K.A., Mangat, H.K., Kaur, G., 2003. Prolonged glutamate excitotoxicity: Effects on mitochondrial antioxidants and antioxidant enzymes. *Mol. Cell. Biochem.* 243(1–2): 139–145.
- Suchak, S.K., Baloyianni, N.V., Perkinson, M.S., Williams, R.J., Meldrum, B.S., Ratray, M., 2003. The “glial” glutamate transporter, EAAT2 (Glt-1) accounts for high affinity glutamate uptake into adult rodent nerve endings. *J. Neurochem.* 84(3): 522–532.
- Takeda, M. & Matsumoto, S., 2008. Neuronal Cross-talk within the Trigeminal Ganglia Contributes to Inflammatory Mechanical Allodynia. *J. Oral. Biosci.* 50(1):15–32.
- Takeda, M., Takahashi, M. & Matsumoto, S., 2008. Contribution of activated interleukin receptors in trigeminal ganglion neurons to hyperalgesia via satellite glial interleukin-1 β paracrine mechanism. *Brain. Behav. Immun.* 22(7): 1016–1023.
- Torii, K., 2012. Brain activation by the umami taste substance monosodium L-glutamate via gustatory and visceral signaling pathways, and its physiological significance due to homeostasis after a meal. *J. Oral Biosci.* 54(3): 144–150.
- Tzingounis, A. V & Wadiche, J.I., 2007. Glutamate transporters: confining runaway excitation by shaping synaptic transmission. *Nat. Rev. Neurosci.* 8(12): 935–947.
- Vandenberg, R.J. & Ryan, R.M., 2013. Mechanisms of glutamate transport. *Physiol. Rev.* 93(4): 1621–1657.

- Vos, B.P., Strassman, A.M. & Maciewicz, R.J., 1994. Behavioral Evidence Chronic Constriction of Trigeminal Neuropathic Pain Following Injury to the Rat's Infraorbital Nerve. *J. Neurosci.* 14(5): 2708 - 2723
- Wagner, L. Warwick, R.A., Pannicke, T., Reichenbach, A., Grosche, A., Hanani, M., 2014. Glutamate release from satellite glial cells of the murine trigeminal ganglion. *Neurosci. Lett.* 578: 143–147.
- Wang, Y. & Qin, Z.-H., 2010. Molecular and cellular mechanisms of excitotoxic neuronal death. *Apoptosis.* 15(11): 1382–1402.
- Warren, S., Capra, N.F., Yezierki, R.P., 2007a. The Somatosensory System I: Tactile Discrimination and Position Sense. In: Haines, D.E. (Ed.): *Fundamental Neuroscience for Basic and Clinical Applications*. 3rd ed. Elsevier.
- Warren, S., Yezierki, R.P., Capra, N.F., 2007b. The Somatosensory System II: Touch, Thermal Sense and Pain. In: Haines, D.E. (Ed.): *Fundamental Neuroscience for Basic and Clinical Applications*. 3rd ed. Elsevier.
- Weick, M., Cherkas, P. S., Härtig, W., Pannicke, T., Uckermann, O., Bringmann, A., et al., 2003. P2 receptors in satellite glial cells in trigeminal ganglia of mice. *Neuroscience.* 120(4): 969–977.
- Winarno, M.G., 1990, *Kimia Pangan dan Gizi*, Penerbit PT. Gramedia Pustaka Utama, Jakarta.
- Zhang, H., Wu, C., Wang, W., Harrington, M.A., 2011. Interneuronal Synapses Formed By Motor Neurons Appear To Be Glutamatergic. *Neuroreport.* 22(16): 809-813
- Ziyal, I.M., Sekhar, L.N., Ozgen, T., Soylemezoglu, F., Alper, M., Beser, M., 2004. The Trigeminal Nerve and Ganglion: An Anatomical, Histological, and Radiological Study Addressing the Transtrigeminal Approach. *Surg. Neurol.* 61(6): 564-573