

DAFTAR PUSTAKA

- Ağırman, M. and Akgün, A.S. (2018) ‘Neuropathic pain and disability in patients with lumbar spinal stenosis’, *Turk Geriatri Dergisi*, 21(1), pp. 56–61. Available at: <https://doi.org/10.31086/tjgeri.2018137967>.
- Austin, P.J. and Moalem-Taylor, G. (2011) ‘Pathophysiology of neuropathic pain: Inflammatory mediators’, *Neuropathic Pain: Causes, Management, and Understanding*, pp. 77–89. Available at: <https://doi.org/10.1017/CBO9781139152211.008>.
- Baron, R. *et al.* (2016) ‘Neuropathic low back pain in clinical practice’, *European Journal of Pain (United Kingdom)*, 20(6), pp. 861–873. Available at: <https://doi.org/10.1002/ejp.838>.
- Bennett, G.J. (1999) ‘Does a neuroimmune interaction contribute to the genesis of painful peripheral neuropathies?’, *Proceedings of the National Academy of Sciences of the United States of America*, 96(14), pp. 7737–7738. Available at: <https://doi.org/10.1073/pnas.96.14.7737>.
- Bridges, D., Thompson, S.W.N. and Rice, A.S.C. (2001) ‘Mechanisms of neuropathic pain’, *British Journal of Anaesthesia*, 87(1), pp. 12–26. Available at: <https://doi.org/10.1093/bja/87.1.12>.
- Buchheit, T. *et al.* (2020) ‘Neuroimmune modulation of pain and regenerative pain medicine’, *Journal of Clinical Investigation*, 130(5), pp. 2164–2176. Available at: <https://doi.org/10.1172/JCI134439>.
- Cao, E.H. *et al.* (1996) ‘Effect of natural antioxidant Tanshinone II-A on DNA damage

by lipid peroxidation in liver cells', *Free Radical Biology and Medicine*, 20(6), pp. 801–806. Available at: [https://doi.org/10.1016/0891-5849\(95\)02211-2](https://doi.org/10.1016/0891-5849(95)02211-2).

Chen, C.L.H. *et al.* (2013) 'The NeuroAiD II (MLC901) in vascular cognitive impairment study (NEURITES) for the NEURITE investigators', *Cerebrovascular Diseases*, 35(SUPPL.1), pp. 23–29. Available at: <https://doi.org/10.1159/000346234>.

Chen, J. *et al.* (2020) 'Rno-microRNA-30c-5p promotes myocardial ischemia reperfusion injury in rats through activating NF- κ B pathway and targeting SIRT1', *BMC Cardiovascular Disorders*, 20(1), pp. 1–10. Available at: <https://doi.org/10.1186/s12872-020-01520-2>.

Cheung, P.W.H., Hu, Y. and Cheung, J.P.Y. (2019) 'Novel compression rat model for developmental spinal stenosis', *Journal of Orthopaedic Research*, 37(5), pp. 1090–1100. Available at: <https://doi.org/10.1002/jor.24221>.

Clarke, R.W. and Harris, J. (2004) 'The organization of motor responses to noxious stimuli', *Brain Research Reviews*, 46(2), pp. 163–172. Available at: <https://doi.org/10.1016/j.brainresrev.2004.07.005>.

Colloca, L. *et al.* (2017) 'Neuropathic pain', *Nature Reviews Disease Primers*, 3, pp. 1–20. Available at: <https://doi.org/10.1038/nrdp.2017.2>.

DeLeo, J.A. and Winkelstein, B.A. (2002) 'Physiology of chronic spinal pain syndromes: From animal models to biomechanics', *Spine*, 27(22), pp. 2526–2537. Available at: <https://doi.org/10.1097/00007632-200211150-00026>.

Desmoulin, G.T., Yasin, N.I. and Chen, D.W. (2007) 'Spinal mechanisms of pain control', *Clinical Journal of Pain*, 23(7), pp. 576–585. Available at: <https://doi.org/10.1097/AJP.0b013e3180e00eb8>.

- Deuis, J.R., Dvorakova, L.S. and Vetter, I. (2017) 'Methods used to evaluate pain behaviors in rodents', *Frontiers in Molecular Neuroscience*, 10(September), pp. 1–17. Available at: <https://doi.org/10.3389/fnmol.2017.00284>.
- Dickenson, A.H. (1997) 'Plasticity: Implications for opioid and other pharmacological interventions in specific pain states', *Behavioural Brain Research*, 20, pp. 392–403.
- Djoughri, L. and Lawson, S.N. (2004) 'A β -fiber nociceptive primary afferent neurons: A review of incidence and properties in relation to other afferent A-fiber neurons in mammals', *Brain Research Reviews*, 46(2), pp. 131–145. Available at: <https://doi.org/10.1016/j.brainresrev.2004.07.015>.
- Dogrul, A. *et al.* (2003) 'Reversal of experimental neuropathic pain by T-type calcium channel blockers', *Pain*, 105(1–2), pp. 159–168. Available at: [https://doi.org/10.1016/S0304-3959\(03\)00177-5](https://doi.org/10.1016/S0304-3959(03)00177-5).
- Echeverry, S. *et al.* (2009) 'Transforming growth factor- β 1 impairs neuropathic pain through pleiotropic effects', *Molecular Pain*, 5, pp. 1–18. Available at: <https://doi.org/10.1186/1744-8069-5-16>.
- Espejo, E.F. and Mir, D. (1993) 'Structure of the rat's behaviour in the hot plate test', *Behavioural Brain Research*, 56(2), pp. 171–176. Available at: [https://doi.org/10.1016/0166-4328\(93\)90035-O](https://doi.org/10.1016/0166-4328(93)90035-O).
- Fortin, J.D. and Wheeler, M.T. (2004) 'Imaging in lumbar spinal stenosis', *Pain Physician*, 7(1), pp. 133–139. Available at: <https://doi.org/10.36076/ppj.2004/7/133>.
- Fraser, J.F. *et al.* (2003) 'Pathogenesis, presentation, and treatment of lumbar spinal stenosis associated with coronal or sagittal spinal deformities.', *Neurosurgical focus*, 14(1), pp. 1–9. Available at: <https://doi.org/10.3171/foc.2003.14.1.7>.

Gandin, C. *et al.* (2016) ‘MLC901 Favors Angiogenesis and Associated Recovery after Ischemic Stroke in Mice’, *Cerebrovascular Diseases*, 42(1–2), pp. 139–154. Available at: <https://doi.org/10.1159/000444810>.

Garry, E.M., Jones, E. and Fleetwood-Walker, S.M. (2004) ‘Nociception in vertebrates: Key receptors participating in spinal mechanisms of chronic pain in animals’, *Brain Research Reviews*, 46(2), pp. 216–224. Available at: <https://doi.org/10.1016/j.brainresrev.2004.07.009>.

Grant, G.A., Goodkin, R. and Kliot, M. (1999) ‘Evaluation and surgical management of peripheral nerve problems’, *Neurosurgery*, 44(4), pp. 825–840. Available at: <https://doi.org/10.1097/00006123-199904000-00077>.

Gu, J. *et al.* (2020) ‘The effect and mechanism of combination of total paeony glycosides and total ligustici phenolic acids against focal cerebral ischemia’, *Scientific Reports*, 10(1), pp. 1–13. Available at: <https://doi.org/10.1038/s41598-020-60357-z>.

Guo, X. *et al.* (2019) ‘Hydroxysafflor yellow A (HSYA) targets the platelet-activating factor (PAF) receptor and inhibits human bronchial smooth muscle activation induced by PAF’, *Food and Function*, 10(8), pp. 4661–4673. Available at: <https://doi.org/10.1039/c9fo00896a>.

Harden, R.N. (2005) ‘Chronic neuropathic pain: Mechanisms, diagnosis, and treatment’, *Neurologist*, 11(2), pp. 111–122. Available at: <https://doi.org/10.1097/01.nrl.0000155180.60057.8e>.

Heurteaux, C. *et al.* (2010) ‘Neuroprotective and neuroproliferative activities of NeuroAid (MLC601, MLC901), a Chinese medicine, in vitro and in vivo’, *Neuropharmacology*, 58(7), pp. 987–1001. Available at:

<https://doi.org/10.1016/j.neuropharm.2010.01.001>.

Heurteaux, C. *et al.* (2013) 'NeuroAiD : Properties for Neuroprotection and Neurorepair', 35(suppl 1), pp. 1–7. Available at: <https://doi.org/10.1159/000346228>.

Hu, S. *et al.* (2021) 'Effects and prognostic values of miR-30c-5p target genes in gastric cancer via a comprehensive analysis using bioinformatics', *Scientific Reports*, 11(1), pp. 1–13. Available at: <https://doi.org/10.1038/s41598-021-00043-w>.

Huang, S. *et al.* (2019) 'The potential of mlc901 (Neuroaid iiTM), a traditional chinese medicine', *Neuroscience Research Notes*, 2(2), pp. 18–24. Available at: <https://doi.org/10.31117/neuroscirn.v2i2.32>.

Kaye AH (2005) 'Pain-neurosurgical management in Essential Neurosurgery 3rd ed.', in *essential neurosurgery 3rd ed.* Massachusetts USA: Blackwell Publishing, Inc., pp. 259–262.

Kondo, D. *et al.* (2006) 'Progesterone receptor antagonist is effective in relieving neuropathic pain', *European Journal of Pharmacology*, 541(1–2), pp. 44–48. Available at: <https://doi.org/10.1016/j.ejphar.2006.05.010>.

Koo, B.S., Kwon, T.S. and Kim, C.H. (2004) 'Salviae miltiorrhizae radix inhibits superoxide generation by activated rat microglia and mimics the action of amphetamine on in vitro rat striatal dopamine release', *Neurochemical Research*, 29(10), pp. 1837–1845. Available at: <https://doi.org/10.1023/B:NERE.0000042210.72927.ec>.

Kumar, R. *et al.* (2016) 'Spinal Cord Injury—Assessing Tolerability and Use of Combined Rehabilitation and NeuroAiD (SATURN Study): Protocol of An Exploratory Study In Assessing the Safety and Efficacy of NeuroAiD Amongst People Who Sustain Severe Spinal Cord Injury', *JMIR Research Protocols*, 5(4), p. e230. Available at:

<https://doi.org/10.2196/resprot.6275>.

Lacal, P.M. and Graziani, G. (2018) 'Therapeutic implication of vascular endothelial growth factor receptor-1 (VEGFR-1) targeting in cancer cells and tumor microenvironment by competitive and non-competitive inhibitors', *Pharmacological Research*, 136, pp. 97–107. Available at: <https://doi.org/10.1016/j.phrs.2018.08.023>.

Lam, K.Y.C. *et al.* (2019) 'Asarones from *Acori Tatarinowii* Rhizoma stimulate expression and secretion of neurotrophic factors in cultured astrocytes', *Neuroscience Letters*, 707(May), p. 134308. Available at: <https://doi.org/10.1016/j.neulet.2019.134308>.

Lange, C. *et al.* (2016) 'Vascular endothelial growth factor: A neurovascular target in neurological diseases', *Nature Reviews Neurology*, 12(8), pp. 439–454. Available at: <https://doi.org/10.1038/nrneurol.2016.88>.

Lee, B.H. *et al.* (2020) 'Lumbar Spinal Stenosis: Pathophysiology and Treatment Principle: A Narrative Review', *Asian Spine Journal*, 14(5), pp. 682–693. Available at: <https://doi.org/10.31616/asj.2020.0472>.

Lee, G.W. *et al.* (2019) 'Central VEGF-A pathway plays a key role in the development of trigeminal neuropathic pain in rats', *Molecular Pain*, 15. Available at: <https://doi.org/10.1177/1744806919872602>.

Lin, J. *et al.* (2010) 'VEGF and its receptor-2 involved in neuropathic pain transmission mediated by P2X2/3 receptor of primary sensory neurons', *Brain Research Bulletin*, 83(5), pp. 284–291. Available at: <https://doi.org/10.1016/j.brainresbull.2010.08.002>.

Lin, J. *et al.* (2022) 'Tetramethylpyrazine: A review on its mechanisms and functions', *Biomedicine and Pharmacotherapy*, 150, p. 113005. Available at: <https://doi.org/10.1016/j.biopha.2022.113005>.

Liu, S., Li, X. and Zhuang, S. (2019) 'miR-30c impedes glioblastoma cell proliferation and migration by targeting SOX9', *Oncology Research*, 27(2), pp. 165–171. Available at: <https://doi.org/10.3727/096504018X15193506006164>.

Luo, Z. *et al.* (2021) 'Astragaloside IV ameliorates fat metabolism in the liver of ageing mice through targeting mitochondrial activity', *Journal of Cellular and Molecular Medicine*, 25(18), pp. 8863–8876. Available at: <https://doi.org/10.1111/jcmm.16847>.

Lurie, J. and Tomkins-Lane, C. (2016) 'Management of lumbar spinal stenosis', *BMJ (Online)*, 352. Available at: <https://doi.org/10.1136/bmj.h6234>.

Marchand, F., Perretti, M. and McMahon, S.B. (2005) 'Role of the immune system in chronic pain', *Nature Reviews Neuroscience*, 6(7), pp. 521–532. Available at: <https://doi.org/10.1038/nrn1700>.

McMahon, S.B., Cafferty, W.B.J. and Marchand, F. (2005) 'Immune and glial cell factors as pain mediators and modulators', *Experimental Neurology*, 192(2), pp. 444–462. Available at: <https://doi.org/10.1016/j.expneurol.2004.11.001>.

Mehjabeen Fatimah, Rahida Hilal, S.S.Alam, Junaid Nazir Dandroo, S.K. (2016) 'Pain management: An overview', *Hamdard Medicus*, 59(4), pp. 33–42. Available at: <https://doi.org/10.1097/BCO.0000000000000391>.

Meštrović, T. (2018) 'MicroRNA Nomenclature', pp. 3–5. Available at: <https://www.news-medical.net/life-sciences/MicroRNA-Nomenclature.aspx>.

Micheli, L. *et al.* (2021) 'VEGF-A/VEGFR-1 signalling and chemotherapy-induced neuropathic pain: therapeutic potential of a novel anti-VEGFR-1 monoclonal antibody', *Journal of Experimental and Clinical Cancer Research*, 40(1), pp. 1–19. Available at: <https://doi.org/10.1186/s13046-021-02127-x>.

Moha Ou Maati, H. *et al.* (2012) ‘Activation of ATP-sensitive potassium channels as an element of the neuroprotective effects of the Traditional Chinese Medicine MLC901 against oxygen glucose deprivation’, *Neuropharmacology*, 63(4), pp. 692–700. Available at: <https://doi.org/10.1016/j.neuropharm.2012.05.035>.

Morchio, M. *et al.* (2023) ‘The Role of miRNAs in Neuropathic Pain’, *Biomedicines*, 11(3), pp. 1–23. Available at: <https://doi.org/10.3390/biomedicines11030775>.

Morris, R. *et al.* (2004) ‘Spinal dorsal horn neurone targets for nociceptive primary afferents: Do single neurone morphological characteristics suggest how nociceptive information is processed at the spinal level’, *Brain Research Reviews*, 46(2), pp. 173–190. Available at: <https://doi.org/10.1016/j.brainresrev.2004.07.002>.

Mou, C. *et al.* (2023) ‘Low level TGF- β 1-treated Umbilical mesenchymal stem cells attenuates microgliosis and neuropathic pain in chronic constriction injury by exosomes/lncRNA UCA1 / miR-96-5p / FOXO3a’, *Biochemistry and Biophysics Reports*, 34(January), p. 101477. Available at: <https://doi.org/10.1016/j.bbrep.2023.101477>.

Nasehi, Maryam *et al.* (2019) ‘Influence of MLC901 Alone and with Moderate Exercise on Pain Response Concurrent Due to Stress of Male Mice’, *Galen Medical Journal*, 8, p. 1253. Available at: <https://doi.org/10.31661/gmj.v8i0.1253>.

Niederberger, E., Kühlein, H. and Geisslinger, G. (2008) ‘Update on the pathobiology of neuropathic pain’, *Expert Review of Proteomics*, 5(6), pp. 799–818. Available at: <https://doi.org/10.1586/14789450.5.6.799>.

O. Perepechai, G. Ivanov, N. Novikov, I.F. (2015) ‘MODEL OF LUMBAR SPINAL

STENOSIS IN THE EXPERIMENT’, *Journal of Education, Health and Sport*. 2015;5(7):171-178. ISSN 2391-8306, 5(7), pp. 171–178. Available at: <https://doi.org/10.5281/zenodo.19735>.

Park, S.Y. *et al.* (2015) ‘Neuropathic pain components in patients with lumbar spinal stenosis’, *Yonsei Medical Journal*, 56(4), pp. 1044–1050. Available at: <https://doi.org/10.3349/ymj.2015.56.4.1044>.

Qia, A. and Meals, A. (2006) ‘Comparison of Gene Expression Profiles in Neuropathic and Inflammatory Pain’, *JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY*, 57(3), pp. 401–414. Available at: www.jpp.krakow.pl.

Qian, B. *et al.* (2016) ‘Ligustilide Ameliorates Inflammatory Pain and Inhibits TLR4 Upregulation in Spinal Astrocytes Following Complete Freund’s Adjuvant Peripheral Injection’, *Cellular and Molecular Neurobiology*, 36(1), pp. 143–149. Available at: <https://doi.org/10.1007/s10571-015-0228-0>.

Quintard, H. *et al.* (2011) ‘MLC901, a Traditional Chinese Medicine protects the brain against global ischemia’, *Neuropharmacology*, 61(4), pp. 622–631. Available at: <https://doi.org/10.1016/j.neuropharm.2011.05.003>.

Quintard, H. *et al.* (2014) ‘MLC901, a Traditional Chinese Medicine induces neuroprotective and neuroregenerative benefits after traumatic brain injury in rats’, *Neuroscience*, 277, pp. 72–86. Available at: <https://doi.org/10.1016/j.neuroscience.2014.06.047>.

Riaz, A. *et al.* (2018) ‘Astragalins: A Bioactive Phytochemical with Potential Therapeutic Activities’, *Advances in Pharmacological Sciences*, 2018. Available at: <https://doi.org/10.1155/2018/9794625>.

- Rowbotham, D.J. (2003) ‘Pain management’, *Anaesthesia*, 58(12), pp. 1196–1198. Available at: <https://doi.org/10.1046/j.1365-2044.2003.03563.x>.
- Sá, P. *et al.* (2014) ‘Estenose lombar: Caso clínico’, *Revista Brasileira de Ortopedia*, 49(4), pp. 405–408. Available at: <https://doi.org/10.1016/j.rbo.2013.10.003>.
- Scholz, J. and Woolf, C.J. (2007) ‘The neuropathic pain triad: Neurons, immune cells and glia’, *Nature Neuroscience*, 10(11), pp. 1361–1368. Available at: <https://doi.org/10.1038/nn1992>.
- Schroeder, G.D., Kurd, M.F. and Vaccaro, A.R. (2016) ‘Lumbar spinal stenosis: How is it classified?’, *Journal of the American Academy of Orthopaedic Surgeons*, 24(12), pp. 843–852. Available at: <https://doi.org/10.5435/JAAOS-D-15-00034>.
- Siebert, E. *et al.* (2009) ‘Lumbar spinal stenosis: Syndrome, diagnostics and treatment’, *Nature Reviews Neurology*, 5(7), pp. 392–403. Available at: <https://doi.org/10.1038/nrneurol.2009.90>.
- Sneddon, L.U. (2004) ‘Evolution of nociception in vertebrates: Comparative analysis of lower vertebrates’, *Brain Research Reviews*, 46(2), pp. 123–130. Available at: <https://doi.org/10.1016/j.brainresrev.2004.07.007>.
- Song, G. *et al.* (2020) ‘Interactions Among lncRNAs/circRNAs, miRNAs, and mRNAs in Neuropathic Pain’, *Neurotherapeutics*, 17(3), pp. 917–931. Available at: <https://doi.org/10.1007/s13311-020-00881-y>.
- Song, K.S. *et al.* (2017) ‘Neuropathic pain related with spinal disorders: A systematic review’, *Asian Spine Journal*, 11(4), pp. 661–674. Available at: <https://doi.org/10.4184/asj.2017.11.4.661>.
- Stemkowski, P.L. and Smith, P.A. (2011) ‘An overview of animal models for neuropathic

pain', *Neuropathic Pain: Causes, Management, and Understanding*, pp. 33–50. Available at: <https://doi.org/10.1017/CBO9781139152211.005>.

Sun, X. *et al.* (2022) 'Effect of TGF- β 1-Mediated Exercise Analgesia in Spared Nerve Injury Mice', *Neural Plasticity*, 2022. Available at: <https://doi.org/10.1155/2022/7382327>.

Suwanwela, N.C. *et al.* (2018) 'Effect of Combined Treatment with MLC601 (NeuroAiDTM) and Rehabilitation on Post-Stroke Recovery: The CHIMES and CHIMES-E Studies', *Cerebrovascular Diseases*, 46(1–2), pp. 82–88. Available at: <https://doi.org/10.1159/000492625>.

Theadom, A. *et al.* (2018) 'MLC901 (NeuroAiD IITM) for cognition after traumatic brain injury: a pilot randomized clinical trial', *European Journal of Neurology*, 25(8), pp. 1055–e82. Available at: <https://doi.org/10.1111/ene.13653>.

Toshio Miyase, Hideki Saitoh, K.S. and A.U. (1995) 'Six new Presenegenin Glycosides, Reinosides A-F, from *Polygala reinii*', *Chemical Pharmaceutical Bulletin*, 43(3), pp. 466–472. Available at: <http://www.mendeley.com/research/geology-volcanic-history-eruptive-style-yakedake-volcano-group-central-japan/>.

Tramullas, M. *et al.* (2018) 'MicroRNA-30c-5p modulates neuropathic pain in rodents', *Science Translational Medicine*, 10(453). Available at: <https://doi.org/10.1126/scitranslmed.aao6299>.

Vranken, J.H. (2011) 'Neuropathic pain following spinal cord injury', *Neuropathic Pain: Causes, Management, and Understanding*, pp. 145–155. Available at: <https://doi.org/10.1017/CBO9781139152211.013>.

Wahyudi *et al.* (2022) 'The role of MLC901 in reducing VEGF as a vascular

permeability marker in rats with spinal cord injury’, *Annals of Medicine and Surgery*, 75(February), p. 103344. Available at: <https://doi.org/10.1016/j.amsu.2022.103344>.

Watanabe, K. *et al.* (2007) ‘Spinal stenosis: Assessment of motor function, VEGF expression and angiogenesis in an experimental model in the rat’, *European Spine Journal*, 16(11), pp. 1913–1918. Available at: <https://doi.org/10.1007/s00586-007-0394-y>.

WHO (1993) ‘RESEARCH GUIDELINES FOR EVALUATING THE SAFETY AND EFFICACY OF HERBAL MEDICINE’. Manila, p. 35.

Widmann, C. *et al.* (2018) ‘The Traditional Chinese Medicine MLC901 inhibits inflammation processes after focal cerebral ischemia’, *Scientific Reports*, 8(1), pp. 1–15. Available at: <https://doi.org/10.1038/s41598-018-36138-0>.

Winkelstein, B.A. *et al.* (2001) ‘Quantification of neural tissue injury in a rat radiculopathy model: Comparison of local deformation, behavioral outcomes, and spinal cytokine mRNA for two surgeons’, *Journal of Neuroscience Methods*, 111(1), pp. 49–57. Available at: [https://doi.org/10.1016/S0165-0270\(01\)00445-9](https://doi.org/10.1016/S0165-0270(01)00445-9).

Winkelstein, B.A. (2004) ‘Mechanisms of central sensitization, neuroimmunology & injury biomechanics in persistent pain: Implications for musculoskeletal disorders’, *Journal of Electromyography and Kinesiology*, 14(1), pp. 87–93. Available at: <https://doi.org/10.1016/j.jelekin.2003.09.017>.

Winter, J. *et al.* (2009) ‘Many roads to maturity: MicroRNA biogenesis pathways and their regulation’, *Nature Cell Biology*, 11(3), pp. 228–234. Available at: <https://doi.org/10.1038/ncb0309-228>.

Woolf, C.J. (2004) ‘Pain: Moving from Symptom Control toward Mechanism-Specific

Pharmacologic Management’, *Annals of Internal Medicine*, 140(6), pp. 441–451. Available at: <https://doi.org/10.7326/0003-4819-140-8-200404200-00010>.

Wu, A.-M. *et al.* (2017) ‘Lumbar spinal stenosis: an update on the epidemiology, diagnosis and treatment’, *AME Medical Journal*, pp. 63–63. Available at: <https://doi.org/10.21037/amj.2017.04.13>.

Xiao, X. *et al.* (2019) ‘Anti-inflammatory treatment with β -asarone improves impairments in social interaction and cognition in MK-801 treated mice’, *Brain Research Bulletin*, 150(May), pp. 150–159. Available at: <https://doi.org/10.1016/j.brainresbull.2019.05.017>.


Yamamoto, T. and Sakashita, Y. (1999) ‘The role of the spinal opioid receptor like1 receptor, the NK-1 receptor, and cyclooxygenase-2 in maintaining postoperative pain in the rat’, *Anesthesia and Analgesia*, 89(5), pp. 1203–1208. Available at: <https://doi.org/10.1213/00000539-199911000-00022>.

Ye, Z. *et al.* (2022) ‘Role of Transforming Growth Factor Beta in Peripheral Nerve Regeneration: Cellular and Molecular Mechanisms’, *Frontiers in Neuroscience*, 16(June). Available at: <https://doi.org/10.3389/fnins.2022.917587>.


Zhang, K. *et al.* (2022) ‘Non-coding RNA and n6-methyladenosine modification play crucial roles in neuropathic pain’, *Frontiers in Molecular Neuroscience*, 15(November), pp. 1–12. Available at: <https://doi.org/10.3389/fnmol.2022.1002018>.

Zuo, Y. *et al.* (2003) ‘Inflammation and hyperalgesia induced by nerve injury in the rat: A key role of mast cells’, *Pain*, 105(3), pp. 467–479. Available at: [https://doi.org/10.1016/S0304-3959\(03\)00261-6](https://doi.org/10.1016/S0304-3959(03)00261-6).

LAMPIRAN 1





KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
KOMITE ETIK PENELITIAN KESEHATAN
RSPN UNIVERSITAS HASANUDDIN
RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
Sekretariat : Lantai 2 Gedung Laboratorium Terpadu
JL. PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.
Contact Person: dr. AgusSalim Bukhari, M.Med, Ph.D., SpCK TELP. 081241850858, 0411 5780103, Fax : 0411-581431



REKOMENDASI PERSETUJUAN ETIK
Nomor : 100/UN4.6.4.5.31/ PP36/ 2022 Tanggal: 4 Maret 2022

Dengan ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan Dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :

No Protokol	UH22010041	No Sponsor Protokol	
Peneliti Utama	dr. Bambang Priyanto, SpBS(K)	Sponsor	
Judul Peneliti	PENGARUH PEMBERIAN MLC901 TERHADAP EKSPRESI miR-30c-5p, EKSPRESI TGF- β , EKSPRESI VEGF RESEPTOR, KADAR VEGF, DERAJAT DEMYELINISASI AKSON DAN PERBANDINGAN BEHAVIOUR PADA HEWAN COBA DENGAN NYERI NEUROPATIK METODE SIRMUMFERENSIAL SPINAL STENOSIS		
No Versi Protokol	1	Tanggal Versi	31 Januari 2022
No Versi PSP		Tanggal Versi	
Tempat Penelitian	Laboratorium Mikrobiologi Fakultas Kedokteran Universitas Hasanuddin Makassar		
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard Tanggal	Masa Berlaku 4 Maret 2022 sampai 4 Maret 2023	Frekuensi review lanjutan
Ketua KEPK FKUH RSUH dan RSWS	Nama Prof.Dr.dr. Suryani As'ad, M.Sc.,Sp.GK (K)	Tanda tangan	
Sekretaris KEPK FKUH RSUH dan RSWS	Nama dr. AgusSalim Bukhari, M.Med.,Ph.D.,Sp.GK (K)	Tanda tangan	

Kewajiban Peneliti Utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
- Menyerahkan Laporan SAE ke Komisi Etik dalam 24 jam dan dilengkapi dalam 7 hari dan Laporan SUSAR dalam 72 jam setelah Peneliti Utama menerima laporan
- Menyerahkan Laporan Kemajuan (progress report) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
- Menyerahkan laporan akhir setelah Penelitian berakhir
- Melaporkan penyimpangan dari protokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan

LAMPIRAN 2



HUMERUS PET CARE
RUKO MAJAPAHIT, Jl. Majapahit No. 37B Ampenan
Telepon : 08199881942, Email : Humerus.klinik@gmail.com

SURAT PERNYATAAN

Nomor surat : 01/HPC/II/2023

Sesuai dengan surat Bpk. dr. Bambang Priyanto, Sp. BS, tertanggal 19 Juni 2023, Perihal Permohonan 2 (dua) tenaga Dokter Hewan untuk membantu evaluasi penelitian, maka dengan ini kami :

1. Nama : drh. Wahyu Setiawan Yuwana
No. SIP : 524.3/123.e/pert.pkt/III/2020
Alamat Praktek : Humerus Pet Care / Jl. Majapahit No. 37B
Ampenan
No. Telepon : 0818364728
2. Nama : drh. Deshinta Putri Mbajeng Kinenda
No. SIP : 841/08/Pert.Pkt/I/2020
Alamat Praktek : Humerus Pet Care / Jl. Majapahit No. 37B
Ampenan
No. Telepon : 081907031860

Menyatakan bahwa telah melakukan evaluasi video Penelitian Perilaku Tikus pada Alat Coba HOT PLATE PLACE TEST sebanyak 120 video (seratus dua puluh) video, dimulai tanggal 19 Juni sampai dengan 6 Juli 2023, di Mataram.

Mataram, 06 Juli 2023



WS. Yuwana

Deshinta Putri Mbajeng Kinenda

drh. Wahyu Setiawan Yuwana
SIP. 524.3/123.e/pert.pkt/III/2020

drh. Deshinta Putri Mbajeng Kinenda
SIP. 841/08/Pert.Pkt/I/2020

LAMPIRAN 3

