

DAFTAR PUSTAKA

- Akiyama, M., Yasuoka, H., Yoshimoto, K. and Takeuchi, T. 2017. CC-chemokine ligand 18 is a useful biomarker associated with disease activity in IgG4-related disease. *Annals of the Rheumatic Diseases*, 77(9): 1386-1387.
- Ali, S and Saudi, H. 2014. An expert system for the diagnosis and management of oral ulcers. *Tanta Dental Journal*, 11(1): 42-46.
- Anura, A. 2014. Traumatic oral mucosal lesions: a mini review and clinical update. *Oral Health Dent Manag*, 13(2): 254-259.
- Bainbridge, P. 2013. Wound healing and the role of fibroblasts. *Journal of Wound Care*, 22(8): 407-412.
- Baskar, G., Kalavathy, G., Aiswarya, R. and Abarnaebenezer Selvakumari, I. 2019. Advances in bio-oil extraction from nonedible oil seeds and algal biomass. *Advances in Eco-Fuels for a Sustainable Environment*: 187-210.
- Bi, Y., Chen, J., Hu, F., Liu, J., Li, M. and Zhao, L. 2019. M2 Macrophages as a Potential Target for Antiatherosclerosis Treatment. *Neural Plasticity*, 2019: 1-21.
- Camille, N. and Dealtry, G. 2018. Regulation of M1/M2 macrophage polarization by *Sutherlandia frutescens* via NFkB and MAPK signaling pathways. *South African Journal of Botany*, 116: 42-51.
- Canene-Adams, K. 2013. Preparation of Formalin-fixed Paraffin-embedded Tissue for Immunohistochemistry. *Methods in Enzymology*: 225-233.
- Cavalcante, G., Paula, R., Souza, L., Sousa, F., Mota, M., Alves, A. 2011. Experimental model of traumatic ulcer in the cheek mucosa of rats. *Acta Cirurgica Brasileira*, 26(3): 227-234.
- Cheetangdee, N. 2014. Pigmented Rice Hull Extracts: Extraction of Phenolic Compounds and Their Antioxidant Activity in Oil-in-Water Emulsion. *Nat. Sci.*, 48(5): 1-12.
- Chistiakov, D., Myasoedova, V., Revin, V., Orekhov, A. and Bobryshev, Y. 2018. The impact of interferon-regulatory factors to macrophage differentiation and polarization into M1 and M2. *Immunobiology*, 223 (2018): 101-111.
- Cilli, F., Khan, M., Fu, F., Wang, JH. 2004. Prostaglandin E2 affects proliferation and collagen synthesis by human patellar tendon fibroblasts. *Clin J Sport Med* 14: 232-236.
- Cui, Y., Wang, W. and Chang, J. 2019. Study on the Product Characteristics of Pyrolysis Lignin with Calcium Salt Additives. *Materials*, 12(10): 1609.
- Czemplik, M., Korzun-Chłopicka, U., Szatkowski, M., Działo, M., Szopa, J., Kulma, A. 2017. Optimization of Phenolic Compounds Extraction from

- Flax Shives and Their Effect on Human Fibroblasts. *Evidence-Based Complementary and Alternative Medicine* 2017(3526392): 1-15.
- Desniorita and Maryam. 2015. The Effect of Adding Liquid Smoke Powder to Shelf Life of Sauce. *International Journal on Advance Science Engineering Information Technology* 5(6): 458.
- Dorsett-Martin, W. and Wysocki, A. 2008. Rat Models of Skin Wound Healing in Sourcebook of Models for Biomedical Research. Edited by: P. Michael Conn. *Humana Press Inc.* chapter 65: 631-638.
- Dunn, L., Prosser, H., Tan, J., Vanags, L., Ng, M. and Bursill, C. 2013. Murine Model of Wound Healing. *Journal of Visualized Experiments*, 75(e50265): 1-6.
- Duque, G.A. & Descoteaux, A., 2014. Macrophage cytokines: Involvement in immunity and infectious diseases. *Frontiers in Immunology*, 5(10): 1– 12.
- Flint, S. 2006. Oral ulceration: GP guide to diagnosis and treatment. *Prescriber*, 17(5): 32-48.
- Friedman, M. 2013. Rice Brans, Rice Bran Oils, and Rice Hulls: Composition, Food and Industrial Uses, and Bioactivities in Humans, Animals, and Cells. *Journal of Agricultural and Food Chemistry*, 61(45): 10626-10641.
- Gilveti, C., Porter, S., and Fedele, S. 2010. Traumatic chemical oral ulceration: a case report and review of the literature. *British Dental Journal*, 208(7): 297-300.
- Glushankova, I., Ketov, A., Krasnovskikh, M., Rudakova, L. and Vaisman, I. 2018. Rice Hulls as a Renewable Complex Material Resource. *Resources*, 7(2): 31.
- Gonzalez, A., Costa, T., Andrade, Z. and Medrado, A. 2016. Wound healing - A literature review. *An Bras Dermatol*, 91(5): 614-620.
- Gottrup, F. 2014. Antimicrobials and Non-healing Wounds Evidence, controversies and suggestions-key messages. *Journal of wound care*. 23(10):477-482
- Grazul-Bilska, A., Luthra, G., Reynolds, L., Bilski, J., Johnson, M., Abdullah, S., Redmer, D. and Abdullah, K. 2002. Effects of basic fibroblast growth factor (FGF-2) on proliferation of human skin fibroblasts in type II diabetes mellitus. *Experimental and Clinical Endocrinology & Diabetes*, 110(04): 76-181.
- Gurtner, GC., Thorne, CH., Beasley, RW., Aston, SJ., Bartlett, SP., and Spear, SL. 2007. *Wound healing, normal and abnormal. Grabb and Smith's plastic surgery 6th Edition*. Philadelphia: Lippincott Williams and Wilkins; 15-22.

- Hayden, M. and Ghosh, S. 2014. Regulation of NF- κ B by TNF family cytokines. *Seminars in Immunology*, 26: 253-266.
- Hayes, J., Sircy, L., Heusinkveld, L., Ding, W., Leander, R., McClelland, E. and Nelson, D. 2016. Modulation of Macrophage Inflammatory Nuclear Factor κ B (NF- κ B) Signaling by Intracellular Cryptococcus neoformans. *Journal of Biological Chemistry*, 291(30): 15614-15627.
- Hidayat, T., Qomaruddin. 2015. Analisa Pengaruh Temperatur Pirolisis dan Bahan Biomassa terhadap Kapasitas Hasil pada Alat Pembuat Asap Cair. *Prosiding Seminar Nasional Sains dan Teknologi ke-6 Fakultas Teknik Universitas Muria Kudus*. 1(1): 29-34
- Hitomi, S., Ono, K., Miyano, K., Ota, Y., Uezono, Y., Matoba, M., Kuramitsu, S., Yamaguchi, K., Matsuo, K., Seta, Y., Harano, N. and Inenaga, K. 2015. Novel methods of applying direct chemical and mechanical stimulation to the oral mucosa for traditional behavioral pain assays in conscious rats. *Journal of Neuroscience Methods*, 239: 162-169.
- Horie, N., Hashimoto, K., Kato, T., Shimoyama, T., Kaneko, T., Kusama, K. and Sakagami, H. 2008. COX-2 as Possible Target for the Inhibition of PGE2 Production by Rikko-san in Activated Macrophage. *in vivo*, 22(2008): 333-336.
- Italiani, P. and Boraschi, D. 2014. From monocytes to M1/M2 macrophages: phenotypical vs. functional differentiation. *Frontiers in Immunology*, 5(514): 1-22.
- Kim, S., Yang, J., Kang, M., Park, J., Nam, S. and Friedman, M. 2011. Composition of Liquid Rice Hull Smoke and Anti-Inflammatory Effects in Mice. *Journal of Agricultural and Food Chemistry*, 59(9): 4570-4581.
- Kohyama, T., Ertl, R., Valenti, V., Spurzem, J., Kawamoto, M., Nakamura, Y., Veys, T., Allegra, L., Romberger, D. and Rennard, S. 2001. Prostaglandin E2 inhibits fibroblast chemotaxis. *American Journal of Physiology-Lung Cellular and Molecular Physiology*, 281(5): L1257-L1263.
- Li, J., Chen, J. and Kirsner, R. 2007. Pathophysiology of acute wound healing. *Clinics in Dermatology*, 25(1): 9-18.
- Lingappan, K. 2018. NF- κ B in oxidative stress. *Current Opinion in Toxicology*, 7: 81-86.
- Lingbeck, J., Cordero, P., O'Bryan, C. A., Johnson, M., Ricke, S. C., Crandall, P. G. 2014. Functionality of liquid smoke as an all-natural antimicrobial in food preservation. *Meat Sci*. 97: 197-206
- Liu, T., Zhang, L., Joo, D. and Sun, S. 2017. NF- κ B signaling in inflammation. *Signal Transduction and Targeted Therapy*, 2017 (17023): 1-9.

- Lombok J, Setiaji B, Trisunaryanti W and Wijaya K. 2014. Effect of Pyrolysis Temperature and Distillation on Character of Coconut Shell Liquid Smoke. *Asian Journal of Science and Technology* 5(6): 320–325.
- Lovanh, N. 2012. Volatile Fatty Acids in Suspended Particulate Matter from a Poultry House Using Rice Hulls as Bedding Materials-A Profile of First Flock after Total Cleanout. *Journal of Civil & Environmental Engineering*, 02(04).
- Makino, T., Jinnin, M., Muchemwa, F., Fukushima, S., Kogushi-Nishi, H., Moriya, C., Igata, T., Fujisawa, A., Johno, T. and Ihn, H. 2009. Basic fibroblast growth factor stimulates the proliferation of human dermal fibroblasts via the ERK1/2 and JNK pathways. *British Journal of Dermatology*, 162(4): 717-723.
- Manzoor, M., Raza, S. and Chaudhry, B. 2013. Proficient Handling and Restraint of the Laboratory Animal Rat (*Rattus Norvegicus*) Facilitate Essential Biochemical and Molecular Level Studies in Biomedical Sciences. *IOSR Journal of Pharmacy and Biological Sciences*, 6(2): 21-33.
- Minh, T., Xuan, T., Ahmad, A., Elzaawely, A., Teschke, R. and Van, T. 2018. Efficacy from Different Extractions for Chemical Profile and Biological Activities of Rice Husk. *Sustainability*, 10(5):.1356.
- Moharamzadeh, K. 2017. Biocompatibility of oral care products. *Biocompatibility of Dental Biomaterials*. p.113-129.
- Mortazavi, H., Safi, Y., Baharvand, M. and Rahmani, S. 2018. *Diagnostic Features of Common Oral Ulcerative Lesions: An Updated Decision Tree*. 2016(7278925): 1-14
- Murakami Y, Hirata A, Ito S, Shoji M, Tanaka S, Yasui T, Machino M, and Fujisawa S. 2007. Re-evaluation of cyclooxygenase-2-inhibiting activity of vanillin and guaiacol in macrophages stimulated with lipopolysaccharide. *Anticancer Res* 27:801–807.
- Narayanan, A., Amaya, M., Voss, K., Chung, M., Benedict, A., Sampey, G., Kehn-Hall, K., Luchini, A., Liotta, L., Bailey, C., Kumar, A., Bavari, S., Hakami, R. and Kashanchi, F. 2014. Reactive oxygen species activate NFκB (p65) and p53 and induce apoptosis in RVFV infected liver cells. *Virology*, 449(2014): 270-286.
- Oramahi, H. and Diba, F. 2013. Maximizing the Production of Liquid Smoke from Bark of Durio by Studying its Potential Compounds. *Procedia Environmental Sciences*, 17: 60-69.
- Ornitz, D. and Itoh, N. 2015. The Fibroblast Growth Factor signaling pathway. *Wiley Interdiscip Rev Dev Biol.*, 4(3): 215-266.
- Phan, SH. 2008. Biology of Fibroblasts and Myofibroblasts. *Proc Am Thorac Soc*, 5(3): 334-337.

- Phore, S and Panchal, R S. 2018. Traumatic oral lesions: Pictorial essay. *Medical Journal of Dr. D.Y. Patil Vidyapeeth*, 11(2): 94-98.
- Ploeger, D., Hosper, N., Schipper, M., Koerts, J., de Rond, S. and Bank, R. 2013. Cell plasticity in wound healing: paracrine factors of M1/ M2 polarized macrophages influence the phenotypical state of dermal fibroblasts. *Cell Communication and Signaling*, 11(1):29.
- Politis, C., Schoenaers, J., Jacobs, R. and Agbaje, J. 2016. Wound Healing Problems in the Mouth. *Frontiers in Physiology*, 7(507): 1-13.
- Prasetyono, T. 2009. General concept of wound healing, revisited. *Medical Journal of Indonesia*. 18(3): 208-214.
- Puspitasari, D. and Apriasari, M. 2017. Analysis of traumatic ulcer healing time under the treatment of the Mauli banana (*Musa acuminata*) 25% stem extract gel. *Padjadjaran Journal of Dentistry*, 29(1): 21-25.
- Rajan, V., Murray R.Z., 2008. The Duplicitous Nature of Inflammation in Wound Repair. *Wound Practice and Research*, 16: 122-129.
- Ramakrishnan, S. and Moeller, P. 2002. Liquid Smoke : Product of Hardwood Pyrolysis. *Fuel Chemistry Division Preprints* 47(1): 366.
- Ravikanth, M., Manjunath, K., Ramachandran, C., Soujanya, P. and Saraswathi, T. 2011. Heterogeneity of fibroblasts. *Journal of Oral and Maxillofacial Pathology*, 15(2): 247.
- Reinke, J. and Sorg, H. 2012. Wound Repair and Regeneration. *European Surgical Research*, 49(1):.35-43.
- Saqib, U., Sarkar, S., Suk, K., Mohammad, O., Baig, M. and Savai, R. 2018. Phytochemicals as modulators of M1-M2 macrophages in inflammation. *Oncotarget*, 9(25): 17937-17950.
- Sari, L. 2006. Pemanfaatan Obat Tradisional dengan Pertimbangan Manfaat dan Keamanannya. *Majalah Ilmu Kefarmasian*, 3(1): 1-7.
- Schutysen, E., Richmond, A. and Damme, J. 2005. Involvement of CC chemokine ligand 18 (CCL18) in normal and pathological processes. *Journal of Leukocyte Biology*, 78(1): 14-26.
- Sengupta, P. 2013. The Laboratory Rat: Relating Its Age With Human's. *International Journal of Preventive Medicine*, 4(6): 624-630.
- Shabrina, H. 2017. Pengaruh Pemberian Ekstrak Buah Okra (*Abelmoschus esculentus*) terhadap Jumlah Sel Neutrofil. *Skripsi Fakultas Kedokteran Gigi Universitas Airlangga*: 43-44
- Shanmugam, M., Tharmaraj, R., Prabhakar, M., Manimaran1, A. and Singh, R. 2014. Modulating Effect of Ferulic Acid on NF-KB, COX-2 and VEGF

- Expression Pattern During 7, 12-Dimethylbenz(a)anthracene Induced Oral Carcinogenesis. *The Open Nutraceuticals Journal*,7: 33-38.
- Siswanto, A., Dewi, N. and Hayatie, L. 2016. Effect of haruan (*channa striata*) extract on fibroblast cells count in wound healing. *Journal of Dentomaxillofacial Science*, 1(2): 89-94.
- Soldera, S., Sebastianutto, N. and Bortolomeazzi, R. 2008. Composition of Phenolic Compounds and Antioxidant Activity of Commercial Aqueous Smoke Flavorings. *Journal of Agricultural and Food Chemistry*, 56(8): 2727-2734.
- Sukharnikov, Y., Esengaraev, E., Turgenbaev, A. and Iskakov, M. 2015. Production, Properties and Use of the Rice Hulls Pyrolysis Organic Product as a Disinfectant. *World Journal of Veterinary Medicine & Engineering*, 1(1): 1-9.
- Sumbayak, EM . 2016. Fibroblas: Struktur dan Peranannya dalam Penyembuhan Luka. *Fakultas Kedokteran Universitas Kristen Krida*. p. 1-6.
- Sung, W., Stone, M. and Sun, F. 2007. Analysis of Volatile Constituents of Different Temperature Rice Hulls Liquid Smoke. *Chian-An Annual Bulletin*, 33: 1-12.
- Surboyo, MDC. 2017. Potensi Liquid Smoke Tempurung Kelapa (*Cocos nucifera* L) terhadap Proses Penyembuhan Luka Ulkus Traumatikus dengan Diabetes Mellitus. *Thesis Fakultas Kedokteran Gigi Universitas Airlangga*: 4, 54-57
- Tarawan, V., Mantilidewi, K., Dhini, I., Radhiyanti, P. and Sutedja, E. 2017. Coconut Shell Liquid Smoke Promotes Burn Wound Healing. *Journal of Evidence-Based Complementary & Alternative Medicine*, 22(3): 436-440.
- Terrie, J. 2017. Jumlah Fibroblas dan Ekspresi TGF- β 1 pada Pemberian Ekstrak Akar *Cyperus rotundus* L. Isolat Kalimantan Tengah. *Thesis Fakultas Kedokteran Gigi Universitas Airlangga*: 1-2, 5-6, 12, 30.
- Thiruvoth, F., Mohapatra, D., Sivakumar, D., Chittoria, R. and Nandhagopal, V. 2015. Current concepts in the physiology of adult wound healing. *Plastic and Aesthetic Research*, 2(5): 250.
- Utomo, B S. 2017. Pengaruh Ekstrak Kulit Buah Nanas (*Ananas comosus*) terhadap Peningkatan Jumlah Sel Fibroblas pada Soket Gigi Tikus *Wistar* Pasca Pencabutan. *Skripsi Fakultas Kedokteran Gigi Universitas Airlangga*: 8-9
- Varol, C., Mildner, A. and Jung, S. 2015. Macrophages: Development and Tissue Specialization. *Annual Review of Immunology*, 33(1):643-675.
- Wagiman, FX., Ardiansyah, A., and Witjaksono. 2014. Activity of Coconut-Shell Liquid-Smoke as an Insecticide on the Rice Brown Planthopper

- (Nilaparvata lugens). *ARPJ Journal of Agricultural and Biological Science*, 9(9): 293-296
- Wettlaufer, S., Penke, L., Okunishi, K. and Peters-Golden, M. 2017. Distinct PKA regulatory subunits mediate PGE₂ inhibition of TGF β -1-stimulated collagen I translation and myofibroblast differentiation. *American Journal of Physiology-Lung Cellular and Molecular Physiology*, 313(4): L722-L731.
- White, E., Atrasz, R., Dickie, E., Aronoff, D., Stambolic, V., Mak, T., Moore, B. and Peters-Golden, M. 2005. Prostaglandin E₂ Inhibits Fibroblast Migration by E-Prostanoid 2 Receptor-Mediated Increase in PTEN Activity. *American Journal of Respiratory Cell and Molecular Biology*, 32(2): 135-141.
- Yang, J., Moon, E., Nam, S. and Friedman, M. 2012. Antidiabetic Effects of Rice Hull Smoke Extract on Glucose-Regulating Mechanism in Type 2 Diabetic Mice. *Journal of Agricultural and Food Chemistry*, 60(30): 7442-7449.
- Yun, K., Koh, D., Kim, S., Park, S., Ryu, J., Kim, D., Lee, J. and Lee, K. 2008. Anti-Inflammatory Effects of Sinapic Acid through the Suppression of Inducible Nitric Oxide Synthase, Cyclooxygenase-2, and Proinflammatory Cytokines Expressions via Nuclear Factor- κ B Inactivation. *Journal of Agricultural and Food Chemistry*, 56(21): 10265-10272.
- Zaman, C., Pal, K., Yehye, W., Sagadevan, S., Shah, S., Adebisi, G., Marliana, E., Rafique, R. and Johan, R. 2017. Pyrolysis: A Sustainable Way to Generate Energy from Waste. *Pyrolysis*: 3-28.
- Zhao, R., Liang, H., Clarke, E., Jackson, C. and Xue, M. 2016. Inflammation in Chronic Wounds. *International Journal of Molecular Sciences*, 17(12): 2085.
- Zhou, Z., Chen, Y., Chai, M., Tao, R., Lei, Y., Jia, Y., Shu, J., Ren, J., Li, G., Wei, W., Han, Y. and Han, Y. 2019. Adipose extracellular matrix promotes skin wound healing by inducing the differentiation of adipose-derived stem cells into fibroblasts. *International Journal of Molecular Medicine*, 43(2): 890-900.
- Zhou, Y., Zhang, T., Wang, X., Wei, X., Chen, Y., Guo, L., Zhang, J. and Wang, C. 2015. Curcumin Modulates Macrophage Polarization Through the Inhibition of the Toll-Like Receptor 4 Expression and its Signaling Pathways. *Cellular Physiology and Biochemistry*, 36(2): 631-641.