

DAFTAR PUSTAKA

- Abood, W.N., Al-Henhena, N.A., Najim Abood, A., Al-Obaidi, M.M.J., Ismail, S., Abdulla, M., et al., 2015. Wound-healing potential of the fruit extract of *Phaleria macrocarpa*. *Bosn. J. Basic Med. Sci.*, 15(2), :25.
- ADA, 2013. Diagnosis and classification of diabetes mellitus. *Diabetes Care*, 36 Suppl 1, :S67-74.
- Adkinson, N.F., Bochner, B.S., Burks, A.W., Busse, W.W., Holgate, S.T., Lemanske, R.F., et al., 2014. *Macrophages* Eighth Edi., Elsevier Inc.
- Ali, R.B., Atangwho, I.J., Kaur, N., Abraika, O.S., Ahmad, M., Mahmud, R., et al., 2012. Bioassay-guided antidiabetic study of *Phaleria macrocarpa* fruit extract. *Molecules*, 17(5), :4986-5002.
- van Amerongen, M.J., Harmsen, M.C., van Rooijen, N., Petersen, A.H. & van Luyn, M.J.A., 2007. Macrophage depletion impairs wound healing and increases left ventricular remodeling after myocardial injury in mice. *Am. J. Pathol.*, 170(3), :818-29.
- Backer, C.A. & Brink, R.C.B. van den, 1963. *Flora of Java, Volume I*, Nordhoff, Groningen: N.V.P.
- Bedoya, F.J., Solano, F. & Lucas, M., 1996. N-monomethyl-arginine and nicotinamide prevent streptozotocin-induced double strand DNA break formation in pancreatic rat islets. *Experientia*, 52(4), :344-347.
- Boldrick, J.C., Alizadeh, A.A., Diehn, M., Dudoit, S., Liu, C.L., Belcher, C.E., et al., 2002. Stereotyped and specific gene expression programs in human innate immune responses to bacteria. *Proc. Natl. Acad. Sci. U. S. A.*, 99(2), :972-7.
- Bologna, J.L., Jorizzo, J.L. & Schuffer, J. V, 2012. *141 - Biology of Wound Healing* Third Edit., Elsevier Ltd.
- Breitbart, A.S., Laser, J., Parrett, B., Porti, D., Grant, R.T., Grande, D.A., et al., 2003. Accelerated diabetic wound healing using cultured dermal fibroblasts retrovirally

- transduced with the platelet-derived growth factor B gene. *Ann. Plast. Surg.*, 51(4), :409-414.
- Canesso, M.C., Vieira, A.T., Castro, T.B., Schirmer, B.G., Cisalpino, D., Martins, F.S., et al., 2014. Skin wound healing is accelerated and scarless in the absence of commensal microbiota. *J Immunol*, 193(10), :5171-5180.
- Cavanagh, P.R., Lipsky, B.A., Bradbury, A.W. & Botek, G., 2005. Treatment for diabetic foot ulcers. *Lancet*, 366(9498), :1725-1735.
- Chaturvedi, N., 2007. The burden of diabetes and its complications: trends and implications for intervention. *Diabetes Res. Clin. Pract.*, 76(Suppl 1), :S3-12.
- Childress, B., Stechmiller, J.K. & Schultz, G.S., 2008. Arginine metabolites in wound fluids from pressure ulcers: a pilot study. *Biol. Res. Nurs.*, 10(2), :87-92.
- Dalton, D.K., Pitts-Meek, S., Keshav, S., Figari, I.S., Bradley, a & Stewart, T. a, 1993. Multiple defects of immune cell function in mice with disrupted interferon-gamma genes. *Science*, 259(5102), :1739-1742.
- Doyle, A.G., Herbein, G., Montaner, L.J., Minty, A.J., Caput, D., Ferrara, P., et al., 1994. Interleukin-13 alters the activation state of murine macrophages in vitro: comparison with interleukin-4 and interferon-gamma. *Eur. J. Immunol.*, 24(6), :1441-5.
- Dunn, J.A., Patrick, J.S., Thorpe, S.R. & Baynes, J.W., 1989. Oxidation of glycated proteins: Age-dependent accumulation of N(ϵ)-(carboxymethyl)lysine in lens proteins. *Biochemistry*, 28(24), :9464-9468.
- Fariza, I.N., Fadzureena, J., Zunoliza, A., Chuah, A.L., Pin, K.Y. & Adawiah, I., 2012. Anti-inflammatory Activity of the Major Compound from Methanol Extract of *Phaleria macrocarpa* Leaves. *J. Appl. Sci.*, 12(11), :1195-1198.
- Gordois, A., Scuffham, P., Shearer, A., Oglesby, A. & Tobian, J.A., 2003. The Health Care Costs of Diabetic. *Diabetes Care*, 26, :1790-1795.

- Gordon, S., 2003. Alternative activation of macrophages. *Nat. Rev. Immunol.*, 3(1), :23-35.
- Harmanto, N., 2002. *Mahkota Dewa Pusaka para Raja IV.*, Jakarta: Agro Media Pusaka.
- Hasan, A., Murata, H., Falabella, A., Ochoa, S., Zhou, L., Badiavas, E., et al., 1997. Dermal fibroblasts from venous ulcers are unresponsive to the action of transforming growth factor-beta 1. *J. Dermatol. Sci.*, 16(1), :59-66.
- Hendra, R., Ahmad, S., Oskoueian, E., Sukari, A. & Shukor, M.Y., 2011. Antioxidant, anti-inflammatory and cytotoxicity of *Phaleria macrocarpa* (Boerl.) Scheff Fruit. *BMC Complement. Altern. Med.*, 11(1), :110.
- Kanter, J.E., Kramer, F., Barnhart, S., Averill, M.M., Vivekanandan-Giri, A., Vickery, T., et al., 2012. Diabetes promotes an inflammatory macrophage phenotype and atherosclerosis through acyl-CoA synthetase 1. *Proc. Natl. Acad. Sci. U. S. A.*, 109(12), :E715-24.
- Kern, P., Moczar, M. & Robert, L., 1979. Biosynthesis of skin collagens in normal and diabetic mice. *Biochem. J.*, 182(2), :337-45.
- Khanna, S., Biswas, S., Shang, Y., Collard, E., Azad, A., Kauh, C., et al., 2010. Macrophage dysfunction impairs resolution of inflammation in the wounds of diabetic mice. *PLoS One*, 5(3), :e9539.
- Kimura, T., Sugaya, M., Blauvelt, A., Okochi, H. & Sato, S., 2013. Delayed wound healing due to increased interleukin-10 expression in mice with lymphatic dysfunction. *J. Leukoc. Biol.*, 94(1), :137-45.
- Landsman, L., Varol, C. & Jung, S., 2007. Distinct Differentiation Potential of Blood Monocyte Subsets in the Lung. *J. Immunol.*, 178(4), :2000-2007.
- LeDoux, S.P., Woodley, S.E., Patton, N.J. & Wilson, G.L., 1986. Mechanisms of nitrosourea-induced B-cell damage. Alterations in DNA. *Diabetes*, 35(February), :866-872.
- Lee, R.H., Efron, D., Tantry, U. & Barbul, A., 2001. Nitric

- oxide in the healing wound: a time-course study. *J. Surg. Res.*, 101(1), :104-8.
- Leong, M. & Phillips, L.G., 2012. *Sabiston Textbook of Surgery Nineteenth.*, Elsevier.
- Li, X., Gu, W., Masinde, G., Hamilton-Ulland, M., Xu, S., Mohan, S., et al., 2001. Genetic control of the rate of wound healing in mice. *Heredity (Edinb)*., 86(6), :668-674.
- Loots, M., 2002. Fibroblasts derived from chronic diabetic ulcers differ in their response to stimulation with EGF, IGF-I, bFGF and PDGF-AB compared to controls. *Eur. J. Cell Biol.*, 81(3), :153-160.
- Loots, M. a M., Lamme, E.N., Zeegelaar, J., Mekkes, J.R., Bos, J.D. & Middelkoop, E., 1998. Differences in cellular infiltrate and extracellular matrix of chronic diabetic and venous ulcers versus acute wounds. *J. Invest. Dermatol.*, 111, :850-857.
- Lucas, T., Waisman, A., Ranjan, R., Roes, J., Krieg, T., Müller, W., et al., 2010. Differential roles of macrophages in diverse phases of skin repair. *J. Immunol.*, 184(7), :3964-77.
- MacLeod, A.S. & Mansbridge, J.N., 2016. The Innate Immune System in Acute and Chronic Wounds. *Adv. wound care*, 5(2), :65-78.
- Mae Sri Hartati, W., Mubarika, S., Gandjar, I.G., Hamann, M.T., Rao, K.V. & Wahyuono, S., 2005. Phalerin , a new benzophenoic glucoside isolated from the methanolic extract of Mahkota Dewa [*Phaleria macrocarpa* (Scheff). Boerl] leaves. *Maj. Farm. Indones.*, 16(1), :51-57.
- Martinez, F.O., Gordon, S., Locati, M. & Mantovani, A., 2006. Transcriptional Profiling of the Human Monocyte-to-Macrophage Differentiation and Polarization: New Molecules and Patterns of Gene Expression. *J. Immunol.*, 177(10), :7303-7311.
- Martinez, F.O., Helming, L. & Gordon, S., 2009. Alternative activation of macrophages: an immunologic functional perspective. *Annu. Rev. Immunol.*, 27, :451-83.

- Maruyama, K., Asai, J., Ii, M., Thorne, T., Losordo, D.W. & D'Amore, P.A., 2007. Decreased macrophage number and activation lead to reduced lymphatic vessel formation and contribute to impaired diabetic wound healing. *Am. J. Pathol.*, 170(4), :1178-91.
- Masiello, P., Broca, C., Gross, R., Roye, M., Manteghetti, M., Hillaire-Buys, D., et al., 1998. Experimental NIDDM: Development of a new model in adult rats administered streptozotocin and nicotinamide. *Diabetes*, 47(2), :224-229.
- McCutcheon, J.C., Hart, S.P., Canning, M., Ross, K., Humphries, M.J. & Dransfield, I., 1998. Regulation of macrophage phagocytosis of apoptotic neutrophils by adhesion to fibronectin. *J. Leukoc. Biol.*, 64, :600-607.
- Melmed, S., Polonsky, K.S., Larsen, P.R. & Kronenberg, H.M., 2014. *Williams Textbook of Endocrinology* 12th ed., Philadelphia: Saunders Elsevier.
- Mokoena, T. & Gordon, S., 1985. Human macrophage activation. Modulation of mannosyl, fucosyl receptor activity in vitro by lymphokines, gamma and alpha interferons, and dexamethasone. *J. Clin. Invest.*, 75(2), :624-31.
- Morel, D.W. & Chisolm, G.M., 1989. Antioxidant treatment of diabetic rats inhibits lipoprotein oxidation and cytotoxicity. *J. Lipid Res.*, 30(12), :1827-34.
- O'Rahilly, S., Barroso, I. & Wareham, N.J., 2005. Genetic factors in type 2 diabetes: the end of the beginning? *Science*, 307(5708), :370-373.
- Rasschaert, J., Giroix, M.H., Conget, I., Mercan, D., Leclercq-Meyer, V., Sener, a, et al., 1994. Pancreatic islet response to dicarboxylic acid esters in rats with type 2 diabetes: enzymatic, metabolic and secretory aspects. *J. Mol. Endocrinol.*, 13(2), :209-17.
- Schnedl, W.J., Ferber, S., Johnson, J.H. & Newgard, C.B., 1994. STZ transport and cytotoxicity: Specific enhancement in GLUT2-expressing cells. *Diabetes*, 43(11), :1326-1333.
- Schulze, P.C., Yoshioka, J., Takahashi, T., He, Z., King, G.L.

- & Lee, R.T., 2004. Hyperglycemia promotes oxidative stress through inhibition of thioredoxin function by thioredoxin-interacting protein. *J. Biol. Chem.*, 279(29), :30369-74.
- Sindrilaru, A., Peters, T., Wieschalka, S., Baican, C., Baican, A., Peter, H., et al., 2011. An unrestrained proinflammatory M1 macrophage population induced by iron impairs wound healing in humans and mice. *J. Clin. Invest.*, 121(3), :985-97.
- Stein, M., Keshav, S., Harris, N. & Gordon, S., 1992. Interleukin 4 potently enhances murine macrophage mannose receptor activity: a marker of alternative immunologic macrophage activation. *J. Exp. Med.*, 176(1), :287-292.
- Stephens, P., Cook, H., Hilton, J., Jones, C.J., Haughton, M.F., Wyllie, F.S., et al., 2003. An analysis of replicative senescence in dermal fibroblasts derived from chronic leg wounds predicts that telomerase therapy would fail to reverse their disease-specific cellular and proteolytic phenotype. *Exp. Cell Res.*, 283(1), :22-35.
- Su, H.-C., Hung, L.-M. & Chen, J.-K., 2006. Resveratrol, a red wine antioxidant, possesses an insulin-like effect in streptozotocin-induced diabetic rats. *Am. J. Physiol. Endocrinol. Metab.*, 290(6), :E1339-46.
- Suyati, S., 1999. *Inventarisasi Tanaman Obat Indonesia, Jilid V*, Departemen Kesehatan Indonesia.
- Vukelic, S., Stojadinovic, O., Pastar, I., Vouthounis, C., Krzyzanowska, A., Das, S., et al., 2010. Farnesyl pyrophosphate inhibits epithelialization and wound healing through the glucocorticoid receptor. *J. Biol. Chem.*, 285(3), :1980-8.
- Wijanarko, H., 2005. *Aktivitas Phalerin Hasil Isolasi Dari Daun Mahkota Dewa [Phaleria macrocarpa (Scheff) Boerl] Sebagai Pemacu Fagositosis Makrofag dan Antiradikal In Vitro*. Universitas Gadjah Mada.
- Wrobel, J.S., Mayfield, J.A. & Reiber, G.E., 2001. Geographic Variation of Lower-Extremity Major Amputation in Individuals with and Without Diabetes in the Medicare Population.

Diabetes Care, 24(5), :860-864.

Zykova, S.N., Jenssen, T.G., Berdal, M., Olsen, R., Myklebust, R. & Seljelid, R., 2000. Altered cytokine and nitric oxide secretion in vitro by macrophages from diabetic type II-like db/db mice. *Diabetes*, 49(2), :1451-1458.

Zhang Y, Xu X, Liu H: Chemical constituents from Mahkota dewa. *Journal of Asian natural products research* 2006, 8:119-123.