

DAFTAR PUSTAKA

- Agustin R., Dewi, N., Dwi, R. S., 2016, Efektivitas Ekstrak Ikan Haruan (*Channa striata*) dan Ibuprofen terhadap Jumlah Neutrofil pada Proses Penyembuhan Luka Studi in Vivo pada Mukosa Bukal Tikus (*Rattus novogicus*) Wistar, *Dentino Jurnal Kedokteran Gigi*, **1**(1).
- Aiyalu, R., Govindarjan, A., Ramasamy, A., 2016, Formulation and Evaluation of Topical Herbal Gel for Treatment of Arthritis in Animal Model, *Brazilian Journal of Pharmaceutical Sciences*, **52**(3): 493-507.
- An, L., Dong, G., Gao, Q., Zhang, Y., Hu, L., Li, J., Liu, Y., 2010, Effects of UVA on TNF- α , IL-1 β , and IL-10 expression levels in human keratinocytes and intervention studies with an antioxidant and a JNK inhibitor, *Photodermatol Photoimmunol Photomedicine*, **1**: 28-35.
- Andaryekti, R., Mufrod, Munisih, S., 2015, Pengaruh Basis Gel Sediaan Masker Ekstrak Daun Teh Hijau (*Camellia sinensis* Linn.) pada Karakteristik Fisik dan Aktivitas Bakteri *Staphylococcus Aureus* ATCC 25923, *Majalah Farmaseutik*, **11**(2): 294-299.
- Anonim, 2014, *Farmakope Indonesia Edisi V*, Departemen Kesehatan Republik Indonesia, Jakarta.
- Arifin, B., dan Ibrahim, S., 2018, Struktur, Bioaktivitas dan Antioksidan Flavonoid, *Jurnal Zarah*, **6**(1): 21-29.
- Avasthi, S., Srivastava, R.N., Singh, A., dan Srivastava, M., 2008., Stem Cell: Past, Present and Future-A Review Article, *Internet Journal of Medical*, **3**(1): 22-30.
- Barbulova, A., Apone, F. & Colucci, G., 2014, Plant Cell Cultures as Source of Cosmetic Active Ingredients, *Cosmetics*, **1**: 94-104.
- Bainbridge, P., 2015, Wound Healing and The Role of Fibroblasts, *Journal of Wound Care*, **22**(8): 407-412.
- Biehl, J.K., dan Russell, B., 2009, Introduction to Stem Cell Therapy, *Journal of Cardiovascular Nursing*, **24**(2): 98-105.
- Bos, J. D., Meinardi, M. M. H. M., 2000, The 500 Dalton Rule for The Skin Penetration of Chemical Compounds and Drugs, *Experimental Dermatology*, **9**: 165-169.
- Couper, K. N., Blount, D. G., Riley, E. M., 2008, IL-10: The Master Regulator of Immunity to Infection, *The Journal of Immunology* **180**: 5771-5777.
- Destri, C., Sudiana K., Nugraha, J., 2017, Potensi *Jatropha multifida* Terhadap Jumlah Fibroblast Pada Aphthous Ulcer Mukosa Mulut Tikus, *Jurnal Biosains Pascasarjana Universitas Airlangga*, **19**(1): 14-26.
- Dhivya, S., Padmab, V. V., Santhina, E., 2015, Wound Dressings – A Review, *BioMedicine*, **5**(4): 24-28.
- Dias, J. S., 2012, Major Classes of Phytonutriceuticals in Vegetables and Health Benefits: A Review, *Journal of Nutritional Therapeutics*, **1**: 31-62.
- Evens, R. P., 2007, *Drug And Biological Development From Molecule To Product And Beyond*, Biomedical And Life Sciences, University of Florida, USA.

- Fitriana N., 2017, Respon Pertumbuhan dan Kandungan Karotenoid Kalus dari Kcambah Wortel (*Daucus carota*. L) dengan Jenis Ekplan yang Berbeda, *Skripsi*, Fakultas Biologi Universitas Gadjah Mada.
- Galuh, S., 2016, Analisis Kandungan Senyawa dan Protein Sel Punca Kecambah Wortel (*Daucus carota* L.) serta uji Aktivitas Antioksidan dengan Metode DPPH (2,2-difenil-1-pikril-hidrazil), *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada.
- Gantwerker, E.A. & Hom, D.B., 2012, Skin: Histology and Physiology of Wound Healing, *Clinics in Plastic Surgery*, **39**: 85-97.
- George, E.F. and Sherington, P. D., 1984, *Plant Propagation by Tissue Culture*, Handbook and Directory of Commercial Laboratories, England. **1**(709).
- Gonzalez, ACO, Andrade, ZA., Costa, TF., dan Medrado, ARAP., 2015, Wound Healing – A Literature Review, *An Bras Dermatol*, **91**(5): 614-20.
- Göpferich, A., Gref, R., Minamitake, Y., Shieh, L., Alonso, M. J., Tabata, Y., Langer, R., 1994, *Formulation and Delivery of Proteins and Peptides*, American Chemical Society, Washington DC.
- Guo, S. dan DiPietro, L.A., 2010, Factors Affecting Wound Healing, *Journal of Dental Research* **89**(3): 219-229.
- Heddy S, 1986, *Hormon Tumbuhan*, PT. Raja Grafindo Persada, Jakarta.
- Heidstra, R., dan Sabatini, S., 2014, Plant and Animal Stem Cells : Similar yet Different, *Neture Review Molecular Cell Biology*, **15**(5): 301-312.
- Indrawati, A., 2017, Teknik pembuatan dan evaluasi preparat histologi dengan pewarnaan HE di Lab histologi dan biologi sel fakultas kedokteran UGM dan National Laboratory Animal Center (NLAC) Mahdol University. *Tugas Akhir*. Universita Gadjah Mada, Yogyakarta.
- Iyer, S.S., dan Cheng, G., 2012, Role of Interleukin 10 Transcriptional Regulation in Inflammation and Autoimmune Disease, *Critical Review Immunology*., **32**(1): 23-63.
- Jiang, Y., Jhagirdar, B.N., Reinhardt, R.L., Schwartz, R.E., Keene, C.D., Gonzales, X.R.O., Reyes, M., Lenvik, T., Lund, T., Blackstad, M., Du, J., Aldrich, S., Lisberg, A., Low, W.C., Largaespada, D.A., & Verfaile, C.M., 2002, *Pluripotency of Mesenchymal Stem Cells Derived from Adult Marrow*, University of Minnesota Medical School, USA.
- Johnson, R. dan Steer, R., 2006, *Methyl Paraben*, cit. Rowe, R. C., Shesky, P. J., dan Owen, S. C., 2009, *Handbook of Pharmaceutical Excipients*, Fifth Edition, Pharmaceutical Press, UK.
- Jones, M. L., 2010, *Education Guide Special Stains and H & E*, Updated and Expanded Second Edition, Dako North America, Carpinteria, California.
- Jusuf, A.A, 2009, *Histoteknik Dasar*, Bagian Histologi Fakultas Kedokteran Universitas Indonesia, Jakarta.
- Kalra, K., dan Tomar, P.C., 2014, Stem Cell: Basics, Classification and Applications, *American Journal of Phytomedicine and Clinical Therapeutics*, **1**: 919-930.
- Kane, D., 2006, *Chronic Wound Healing and Chronic Wound Management*, In: Krasner D, Rodeheaver GT, Sibbald RG (eds), *Chronic Wound Care: A Clinical Source Book for Healthcare Professionals*, 4th ed, Wayne, PA:

- Health Management Publications cit. Orsted, H.L., Keast, D., Lalande, L.F., dan Megie, M.F., 2004, Basic Principles of Wound Healing, *Wound Care Canada*, **9**(2): 4-12.
- Karodi, R., Jadhav, M., Rub, R., Bafna, A., 2009, Evaluation of the wound healing activity of a crude extract of *Rubia cordifolia* L. (Indian madder) in mice, *International Journal of Applied Research in Natural Product*, **2**(2): 12-18.
- Kaur, L. P., dan Guleri, T. K., 2013. Topical Gel: A Recent Approach for Novel Drug delivery, *Asian Journal of Biomedical and Pharmaceutical Sciences*, **3**(17): 1-5.
- Khan, A. W., Kotta, S., Ansari, S. H., Sharma, R. K., Kumar, A., Ali, J., 2013, Formulation development, optimization and evaluation of aloe vera gel for wound healing, *Pharmacognocny Magazine* **9**: 6-10.
- King, A., Balaji, S., Le, L.D., Crombleholme, T.M., dan Keswani, S.G., 2013, Regenerative Wound Healing : The Role of Interleukin-10, *Advances in Wound Care*, **3**: 4.
- Kolios G., dan Moodley, Y., 2013, Introduction to Stem Cells and Regenerative Medicine, *Respiration*, **85**: 3-10.
- Kondo, T. & Ishida, Y., 2010, Molecular Pathology of Wound Healing, *Forensic Science Internastional*, **203**: 93-98.
- Landén, N. X., Li, D., dan Ståhle, M., 2016, Transition from inflammation to proliferation: a critical step during wound healing. *Cellular and Molecular Life Science.*, **73**(20): 3861–3885.
- Larasati, S. A., 2019. Pengaruh Ekstrak Air Sel Punca Wortel (*Daucus carota* L.) Terhadap Ekspresi Interleukin-10 Pada Proses Penyembuhan Luka : Studi In Vivo Pada Tikus Wistar, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada.
- Lazarus, G. S., Cooper, D. M., Knighton, D. R., Margolis, D. J., Pecoraro, R. E., Rodeheaver, G., Robson, M. C., 1994, Definitions and Guidelines for Assessment of Wounds and Evaluation of Healing, *Archieve of Dermatology* **130**: 489-493.
- Leja, M., Kamińska, I., Kramer, M., Maksylewicz-Kaul, A., Kammerer, D., Carle, R., Baranski, I., 2013, The Content of Phenolic Compounds and Radical Scavenging Activity Varies with Carrot Origin and Root Color, *Plant Foods for Human Nutritions*, **68**: 163–170.
- Mohammad T. I., Na'ir R., Ciotti, S., Ackermann, C., 2004, Rheological Characterization of Topical Carbomer Gels Neutralized to Different pH, *Pharmaceutical Research*, **21**(7): 1192-1199.
- Nagori, B.P. & Solanki, R., 2011, Role of Medicinal Plants in Wound Healing, *Reasearch Journal of Medicinal Plants*, **5**(4), 392-405.
- Oentaryo, G., Istiati, Soesilawati, P., 2016, Acceleration of fibroblast number and FGF-2 expression using *Channa striata* extract induction during wound healing process: in vivo studies in wistar rats, *Dental Journal (Majalah Kedokteran Gigi)*, **49**(3): 125–132.
- Orsted, H.L., Keast, D., Lalande, L.F., dan Megie, M.F., 2004, Basic Principles of Wound Healing, *Wound Care Canada*, **9**(2): 4-12.

- Pandey, A., Rathore, S. D.K., Pathakar, A., 2015, Production of secondary metabolite (anthocyanin) from callus culture of *Daucus Carota*, *International Journal of Advanced Scientific and Technical Research*, **2** (5): 360-366.
- Patil, M. V. K., Kandhare, A. D., Bhisel, S. D., 2012, Pharmacological evaluation of ethanolic extract of *Daucus carota* Linn root formulated cream on wound healing using excision and incision wound model, *Asian Pacific Journal of Tropical Biomedicine*, **1**: S646-S655.
- Peckam, M., 2014, *At a Glance Histologi*, PT. EGC, Jakarta.
- Peranteau, WH., Zhang, L., Muvarak, N., Badillo, AT., Radu, A., Zoltick, PW., dan Liechty, KW., 2008, IL-10 Overexpression Decreases Inflammatory Mediators and Promotes Regenerative Healing in an Adult Model of Scar Formation, *Journal of Investigative Dermatology*. **128**: 1852-1860.
- Permana, E. I., 2017, Ekstraksi Dengan Metode Maserasi (Tanpa Pemanasan) untuk Bahan Pestisida Nabati, <http://balaipontianak.ditjenbun.pertanian.go.id/>, diakses pada 18 Maret 2020.
- Phan, T. T., Wang, L., See, P., Grayer, R. J., Chan, S. Y., dan Lee, S. T., 2001, Phenolic Compounds of *Chromolaena odorata* Protect Cultured Skin Cells from Oxidative Damage: Implication for Cutaneous Wound Healing, *Biological and Pharmaceutical Bulletin*, **24**(12): 1373-1379.
- Prastiandari, D., 2018. Uji Efek Sitoprotektif Ekstrak Etanol dan Air Sel punca Tanaman Wortel (*Daucus carota* L.) melalui Perbaikan Siklus Sel Human Dermal Fibroblast Adult (HDFa) yang Diberi Paparan Hidrogen Peroksida (H_2O_2), *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Prastowo, D., 2017, Uji Efek Sitoprotektif Ekstrak Sel Punca Tomat (*Lycopersicon esculentum* Mill.) dan Uji Daya Reduksi dengan Metode FRAP (Ferric Reducing Antioxidant Power) Secara In Vitro, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Primadina, N., Basori A., Perdanakusuma, D. S., 2019, Proses Penyembuhan Luka Ditinjau Dari Aspek Mekanisme Seluler Dan Molekuler, *Qanun Medika*, **3**(1): 31-43.
- Rashmi, Garg R., dan Kumar S., 2008, Topical Gel. A Review, *Pharmainfo.net*, **6**(3).
- Rathod, H. J., dan Mehta, D. P., 2015, A Review on Pharmaceutical Gel, *International Journal of Pharmaceutical Sciences* **1**(1): 33-47.
- Robson, M. C., Steed, D. L., Franz, M. G., 2001, Wound Healing: Biologic Features and Approaches to Maximize Healing Trajectories, *Current Problems in Surgery*, **38**(2): 72-141.
- Rodhiyah dan Sulistyawati, 2012, Pengaruh Ekstrak Minyak Biji Bungan Matahari (*Helianthus annuus*) terhadap Proses Awal Penyembuhan Luka, *Prosiding Seminar Biologi*, **9**(1): 706-711.
- Rohman, A., 2014, *Statistika dan Kemometrika Dasar dalam Analisis Farmasi*, Pustaka Pelajar, Yogyakarta.
- Rowe, R. C., Shesky, P. J., dan Owen, S. C., 2009, *Handbook of Pharmaceutical Excipients*, Fifth Edition, Pharmaceutical Press, UK.

- Rumiyati, Sismindari, Semiarti, E., Milasari, A.F., Sari, D.K., Fitriana, N., Galuh, S., 2017, Callus Induction from Various Organs of Dragon Fruit, Apple and Tomato on some Mediums, *Pakistan Journal of Biological Sciences*, **20**: 244-252.
- Rusdianto dan Indrianto, A., 2012, Induksi Kalus Embriogenik Pada Wortel (*Daucus Carota* L.) Menggunakan 2,4-Dichlorophenoxyacetic Acid (2,4-D), *Jurnal Bionature*, **13**(2): 136-140.
- Sablowski, R., 2007, The dynamic plant stem cell niches, *Current Opinion in Plant Biology*, **10**: 639-644.
- Sari, D. T., 2019, Uji Efek Sitoprotektif Ekstrak Air Sel Punca Tanaman Wortel (*daucus Carota* L.) Dan Analisis Pengamatan Ekspresi Sitokin Il-10 Pada Sel Human Dermal Fibroblast Adult (HDFa) Yang Diinduksi Sinar UV-B, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada.
- Sary, H. P., 2017. Peningkatan Jumlah Sel Fibroblas Terhadap Proses Penyembuhan Luka Sayatan Insisi Setelah Pemberian Ekstrak Daun Tin (*Ficus carica* Lin.), *Skripsi*, FKG Universitas Airlangga, Surabaya.
- Sato Y, Ohshima T, Kondo T. 1999, Regulatory of endogenous interleukin-10 in cutaneous inflammatory response of murine wound healing. *Biochemichal Biophysical Research Communications*, **265**(1): 194-199.
- Schmid, D., Schurch, C., Blum, P., Belser, E., Zulli, F., 2008, Plant Stem Cell Extract for Longevity of Skin and Hair, *International Journal for Applied Science*, **134**: 30-35.
- Shabrina, H., 2017. Pengaruh Pemberian Ekstrak Buah Okra (*Abelmoschus esculentus*) Terhadap Jumlah Sel Neutrofil, *Skripsi*, FKG Universitas Airlangga, Surabaya.
- Shakheel, M., Saliyan, T., Satish, S., Hedge, K., 2017, Therapeutic Uses of *Daucus carota*: A Review, *International Journal of Pharma And Chemical Research*, **3**(2): 139-143.
- Sharma, B., dan Singh, L. R., 2018, Pharmaceutical gels for topical drug delivery: An overview, *International Journal of Research in Pharmacy and Pharmaceutical Sciences*, **3**(2): 19-24.
- Soeroso, A., 2007, Sitokin, *Jurnal Oftamologi Indonesia*, **5**(3) : 171-180.
- Stahl, Y., dan Simon, R., 2005, Plant Stem Cell Niches, *International Journal Development Biology* **49**: 479-489.
- Strodtbeck, F., 2001, Physiology of Wound Healing, *Newborn and Infant Nursing Reviews*, **1**(1): 43-52.
- Sudiono, J. Kurniadi, B Hendrawan, A. Djimantoro, B., 2003, *Ilmu Patologi*, PT. EGC, Jakarta.
- Tan, G., Xu, P., Lawson, L. B., He, J., Freytag, L. C., Clements, J. D., John, V. T., 2010, Hydration Effects on Skin Microstructure as Probed by Highresolution Cryo-Scanning Electron Microscopy and Mechanistic Implications to Enhanced Transcutaneous Delivery of Biomacromolecules, *Journal Of Pharmaceutical Sciences*, **99**(2): 730-740.
- Trehan, S., Kohn, B.M. & Beri, K., 2017, Plant Stem Cells in Cosmetics: Current Trends and Future Directions, *Future Science OA*, **3**(4).

- Tukawa, N.D., Ratnasari, E., dan Wahyono, R. 2013, Efektivitas 6-furfuryl amino purine (Kinetin) dan 6-benzylamino purine (BAP) pada Media MS terhadap Pertumbuhan Eksplan Pucuk Mahoni (*Switenia Mahagoni*) secara In Vitro, *LenteraBio*, **2**(1): 63-67.
- Triono, B., 2005, Perbedaan Tampilan Kolagen di Sekitar Luka Insisipada Tikus Wistar yang diberi Infiltrasi Penghilang Nyeri Levobupivakain dan yang tidak diberi Levobupivakain, *Tesis*, Program Magister Biomedik dan PPDS, Universitas Diponegoro, Semarang.
- Ubaid, M., Ilyas S., Mir, S., Khan, A. K., Rashid, R., Khan, M. Z. U., Kanwal, Z. G., Nawaz, A., Shah, A., Murtaza, G., 2016, Formulation and in vitro evaluation of carbopol 934-based modified clotrimazole gel for topical application, *Annals of the Brazilian Academy of Sciences*, **88**(4): 2303-2317.
- Velnar T., Bailey, T., Smrkolj V., 2009, The Wound Healing Process : an Overview of the Cellular and Molecular Mechanism, *The Journal of International Medical Research*, **37**: 1528-1542.
- Wangko, S., dan Karundeng, R., 2014, Komponen Sel Jaringan Ikat, *Jurnal Biomedik*, **6**(3): 1-7.
- Wibisono, 2008, Perbedaan Lama Penyembuhan Luka Bersih Antara Perawatan Luka Dengan Menggunakan Gerusan Bawang Merah (*Allium Cepa* L.) Dibandingkan Dengan Providone Iodin 10% Pada Tikus Putih (*Rattus novergicus*) Strain Wistar, *Skripsi*, Fakultas Keperawatan Universitas Brawijaya.
- Winarto, BudionoU., 2009, Perbandingan Sekresi IL-10 di Jaringan Sekitar Luka Insisi Dengan dan Tanpa Infiltrasi Levobupivakain : Studi Imunohistokimia pada Tikus Wistar, *Jurnal Anestesiologi Indonesia*, **1**(1).
- Zhang, D., Hamauzu, Y., 2004, Phenolic Compounds And Their Antioxidant Properties In Different Tissues Of Carrots (*Daucus Carota* L.), *Food Agriculture And Environment*, **2**(1): 95–100.