

## DAFTAR PUSTAKA

- Abdulkhaleq, L.A., Assi, M.A., Abdullah, R., Zamri-Saad, M., Taufiq-Yap, Y.H., & Hezme, M.N.M., 2018, The Crucial Roles of Inflammatory Mediators in Inflammation : A Review, *Veterinary World*, **11**(5) : 627-635.
- Al-Snafi, AE., 2017, Nutritional and Therapeutic Importance of *Daucus carota*- A Review, *IOSR Journal of Pharmacy*, **7** : pp.72-88.
- Ambiga, S., Narayanan, R., Gowri, D., Sukumar, D., dan Madhavan, S., 2007, Evaluation of Wound Healing Activity of Flavonoids from *Ipomoea carnea* Jacq, *Ancient Science of Life*, **26**(3):45-51.
- Anonim, 2013, Freeze Drying Technology : for Better Quality & Flavor of Dried Products, *Foodreview Indonesia*, Vol. VIII, No. 2. p. 52-57.
- Anonim, 2015, The International Pharmacopeia Fifth Edition. Diakses dari <http://apps.who.int/phint/en/p/docf/>.
- Arif, M., 2000, *Kapita Selekta Kedokteran*, 3<sup>th</sup> ed, Media Aesculapius FKUI, Jakarta.
- Arscott, S. A. & Tanumihardjo S. A., 2010, Carrots of Many Colors Provide Basic Nutrition and Bioavailable Phytochemicals Acting as a Functional Food, *Food Science and Food Safety*, **5**:223-239.
- Barbulova, A., Apone, F., dan Colucci, G., 2014, Plant Cell Cultures as Source of Cosmetic Active Ingredients, *Cosmetics*, **1** : 94-104.
- Biehl, J.K., dan Russell, B., 2009, Introduction to Stem Cell Therapy, *J Cardiovasc. Nurs*, **2009**; 24(2): 98-105.
- Board of Trustees of the Royal Botanic Gardens, 2017, *Kew Science – Plants of the World Online : *Daucus carota* L.*, diakses dari <http://powo.science.kew.org/taxon/urn:lsid:ipni.org:names:841063-1>.
- Boenisch, T., Farmilo, A.J., Stead, R., Key, M., Welcher, R., harvey, R., dan Atwood, K.N., 2010, *DAKO Handbook Immunochemical Staining Methods*, 3<sup>rd</sup> Ed., DAKO Corporation, California.
- Cahyono, B., 2002, *Wortel, Teknik Budi Daya dan Analisis Usaha Tani*, Penerbit Kanisius, Yogyakarta.
- Cross, S.E., Naylor, I.L., Coleman, R.A., dan Teo, T.C., 1995, An Experimental Model to Investigate The Dynamics of Wound Contraction, *Br. J. Plast. Surg.*, **48**:189-97.
- Demilew, W., Adinew, G.M., dan Asrade, S., 2018, Evaluation of the Wound Healing Activity of the Crude Extract of Leaves of *Acanthus polystachyus*

Delile (Acanthaceae), *Hindawi – Evidence Based Complementary Alternative Medicine*, Volume **2018**, article ID 2047896, pp. 1-10.

- De Villiers, M.M., 2009, *Ointment Bases*. dalam *A Practical Guide to Contemporary Pharmacy Practice*, 3<sup>rd</sup> Ed, Chapter 23. Lippincott Williams and Wilkins, Philadelphia.
- Duraiyan, J., Govindarajan, R., Kaliyappan, K., dan Palanisamy, M., 2012, Applications of Immunohistochemistry, *Journal of Pharmacy and Bioallied Science*, **4**, Agustus 2012, Supp. 2 - bagian 3.
- Dorsett-Martin, W.A., dan Wysocki, 2008, Rat Models of Skin Wound Healing, in. Conn,P.M.(Ed) *Source Book of Models for Biomedical Research*, Humana Press Inc., New Jersey, pp. 631-637.
- Ennis, W.J., Sui, A., & Bartholomew, A., 2013, Stem Cells and Healing : Impact on Inflammation, *Advances in Wound Care*, **7**(7).
- 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.
- Gonzalez, ACO., Andrade, ZA., Costa, TF., dan Medrado, ARAP., 2015, Wound Healing – A Literature Review, *An Bras Dermatol*, 2016;**91**(5):614-20.
- Greb, T., dan Lohmann, J.U., 2016, Plant Stem Cells, *Current Biology*, **26**(17):R816-R821
- Gurtner, C.G., Werner, S., Barrandon, Y., dan Longaker, M.T., 2008, Wound Repair and Regeneration, *Nature*, **453** : 314-321.
- Hecke, T.V., 2010, Power Study of Anova versus Kruskal-Wallis Test, *Researchgate*, 228457648, pp. 1-6.
- Hedrich, C.M., dan Bream, J.H., 2010, Cell Type-Specific Regulation of IL-10 Expression in Inflammation and Disease, *Immunol Res.*, **47**(1-3) ; 185-206.
- Heidstra, R., dan Sabatini, S., 2014, Plant and Animal Stem Cells : Similar yet Different, *Net Rev Mol Cell Biol*, **15**(5):301-12.
- Ikeuchi, M., Sugimoto, K., dan iwase, A., 2013, Plant Callus : Mechanisms of Induction and Repression, *Plant Cell*, 2013 Sep; **25**(9):3159-3173.
- Institute for Animal Studies (IAS). 2014, *Recommended Methods of Anesthesia, Analgesia, and Euthanasia for Laboratory Animal Species*, Albert Einstein College of Medicine, Van Etten.
- Institutional Animal Care and Use Committee (IACUC) 2018, Anesthesia (Guideline), diakses dari <http://animal.research.uiowa.edu>.

- Iyer, S.S., dan Cheng, G., 2012, Role of Interleukin 10 Transcriptional Regulation in Inflammation and Autoimmune Disease, *Crit Rev Immunol.*, **32**(1) : 23-63.
- Jankowski, A., Dyja, R., dan Hujar, B. 2017, Dermal and Transdermal Delivery of Active Substances from Semisolid Bases, *Indian Journal of Pharmaceutical Sciences*, 2017;**79** (4):488-500.
- Jeon, S., dan Choi, M., 2018, Anti-inflammatory and Anti-aging Effects of Hydroxytyrosol on Human Dermal Fibroblasts (HDFs), *Biomedical Dermatology*, **2** : 21.
- Kanji, S., dan Das, H., 2017, Advances of Stem Cell Therapeutics in Cutaneous Wound Healing and Regeneration, *Hindawi-Mediators of Inflammation*, **2017**:1-14.
- Kessler, B., Rinchai, D., Kewcharoenwong, C., Nithichanon, A., Biggart, R., Hawrylowicz, C.M., Bancroft, G.J., & Lertmemongkolchai, G., 2017, Interleukin 10 Inhibits Pro-Inflammatory Cytokine Responses and Killing of *Burkholderia pseudomallei*, *Nature Scientific Reports*, **7** : 42791.
- Khristina, CA., 2017, Uji Sitoprotektif Ekstrak Sel Punca Kecambah Wortel (*Daucus carota* L.) secara in Vitro serta Uji Aktivitas Antioksidan dengan Metode FRAP, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada.
- King, A., Balaji, S., Le, L.D., Crombleholme, T.M., dan Keswani, S.G., 2014, 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*, **2013**;85:3-10.
- Kuete, V., 2017, 'African Medicinal Spices and Vegetables and Their Potential in the Management of Metabolic Syndrome' dalam *Medicinal Spices and Vegetables from Africa*, Elsevier, 315-327.
- Kumar, V., Abbas, A.K., dan Aster, J.C., 2015, *Robbins and Coltran Pathologic Basis of Disease : International Edition*, 9<sup>th</sup> Edition, 69-111, Elsevier, Canada.
- Leja, M., Kaminska, I., Kramer, M., Maksylewicz-Kaul, A., Kammerer, D., Carle, R., dan Baranski, R., , 2013, The Content of Phenolic Compounds and Radical Scavenging Activity Varies with Carrot Origin and Root Color, *Plant Foods for Human Nutrition*, 68:163-170.
- Lukman, H., 2016, *Farmakokinetik*, Edisi 2, Bursa Ilmu, Yogyakarta.
- Manish, T., Vinayak, P., dan Subhash, R., 2012, In vitro Antioxidant Activity of Callus Culture of Carrot (*Daucus carota*), *Journal of Agricultural Science and Technology*, **3**(12) : 19-62.

- Nagar, H.K., Srivastava, A.K., Srivastava, R., Kurmi, M.L., Chandel, H.S., dan Ranawat, M.S., 2016, Pharmacological Investigation of the Wound Healing Activity of *Cestrum nocturnum* (L.) Ointment in Wistar Albino Rats, *Journal of Pharmaceutics*:2016;1-8.
- Nahm, F.S., 2016, Nonparametric Statistical Tests for The Continuous Data : The Basic Concept and The Practical Use. *Korean J Anesthesiol.*, 2016 Feb; 69(1): 8-14.
- Nagori, B.D., dan Solanki, R., 2011, Role of Medicinal Plants in Wound Healing, *Research Journal of Medicinal Plant* : 5(4); 392-405.
- Nakasha, J.J., Sinniah, U.R., Kemat, N., dan Mallapa, K.S., 2016, Induction, Subculture Cycle, and Regeneration of Callus in Safed Musli (*Chlorophytum borivilianum*) using Different Types of Phytohormones. *Pharmacogn Mag*, **2016 Jul**; 12(Suppl 4).
- National Institute of Health (NIH), 2015, *Stem Cell Formation*, diakses melalui <https://stemcells.nih.gov/info/basics/1.htm>, pada 18 Desember 2018.
- Orsted, H.L., Keast, D., Lalande, L.F., dan Megie, M.F., 2004, Basic Principles of Wound Healing, *Wound Care Canada*, **Volume 9**, No. 2.
- Pant, B., dan Manandhar, S., 2007, In Vitro Propagation of Carrot (*Daucus carota* L.), *Scientific World*, Vol. 5, No. 5, p. 51-53.
- Passier, R., dan Mummery, C., 2003, Origin and Use of Embryonic and Adult Stem Cells in Differentiation and Tissue Repair, *Cardiovascular Research*, **58** : 324-335.
- Patil, MVK., Kandhare, AD., dan Bhise, SD., 2012, Pharmacological Evaluation of Ethanolic Extract of *Daucus carota* Linn Root Formulated Krim on Wound Healing Using Excision and Incision Wound Model, *Asia Pacific Journal of Tropical Biomedicine*, (2012)S646-S655.
- 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.
- 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<sub>2</sub>O<sub>2</sub>), *Skripsi*. Fakultas Farmasi Universitas Gadjah Mada.

- Rabiei, K., Polyakov, A., Khodambashi, M., Sharafova, O., Kalashnikova, E., Hooshmand, S., Omid, M., 2010, Carrot (*Daucus carota* L.) In Vitro Regeneration, *Vegetable Crops Research Bulletin*, **73** : 13-22.
- Rajasekaran, A., Sivakumar, V., dan Darlinquine, S., 2011, Evaluation of Wound Healing Activity of *Ammannia baccifera* and *Blepharis maderaspentis* leaf extracts on rats, *Brazilian Journal of Pharmacognosy*, **22**(2): 418-27.
- Ramos-vara, J.A., 2010, Principles and Methods of Immunohistochemistry, *Methods Mol Biol*, **2011**; 691:83-96.
- Ravindra, P. V. & Narayan, M. S., 2003, Antioxidant Activity of the Anthocyanin from Carrot (*Daucus carota*) Callus Culture, *International Journal of Food Sciences and Nutrition*, **54**(5):349-355.
- Rhett, J.M., Ghatnekar, G.S., Palatinus, J.A., O'Quinn, M., Yost, M.J., dan Gourdie, Robert G., 2008, Novel Therapies for Scar Reduction and Regenerative Healing of Skin Wounds, *Trends in Biotechnology*; **26**(4):173-180.
- Rodhiyah dan Sulistyawati, 2012, Pengaruh Ekstrak Minyak Biji Bunga Matahari (*Helianthus annuus*) terhadap Proses Awal Penyembuhan Luka, *Prosiding Seminar Nasional Biologi*, FKIP Universitas Sebelas Maret.
- Rohman, A., 2014, *Statistika dan Kemometrika Dasar dalam Analisis Farmasi*, Pustaka Pelajar, Yogyakarta.
- Rumiyati, Semiarti, E., Sismindari, dan Galuh, S., 2017, Callus Induction from Various Organs of Dragon Fruit, Apple, and Tomato on some Mediums, *Pakistan Journal of Biological Sciences*, **2017**: 1-10.
- Sang, Y.L., Cheng, Z.J., dan Zhang, X.S., 2018, iPSCS : A Comparison Between Animals and Plants, *Trends in Plant Science*, Vol. 23, No.8.
- Sasidharan, S., Nilawatyi, R., Xavier, R., Lathe, L.Y., dan Amala, R., 2010, Wound Healing Potential of *Elaeis guineensis* Jacq Leaves in an Infected Albino Rat Model, *Molecules*, **2010**, *15*, 3186-3199.
- Schwartz, B.F., dan Neumeister, M., 2006, The Mechanics of Wound Healing, *Future Direction in Surgery*, Southern Illinois, pp. 78-9.
- Shaban, S., El-Husseney, M.W.A., Abushouk, A.I., Salem, A.M.A., Mamdouh, M., dan Abdel-Daim, M.M., 2017, Effects of Antioxidant Supplements on the Survival and Differentiation of Stem Cells. *Hindawi-Oxidative Medicine and Cellular Longevity*, **Volume 2017**: 1-16.
- Sjamsuhidajat, R., dan de Jong, W., 2010, *Buku Ajar Ilmu Bedah*. Ed.3. EGC, Jakarta, halaman 67.
- Soeroso, A., 2007, Sitokin, *Jurnal Oftamologi Indonesia*, **5**(3) : 171-180.

- Stobbe, H., Schmitt, U., Eckstein, D., dan Dujesiefken, D., 2002, Developmental Stages and Fine Structure of Surface Callus Formed after Debarking of Living Lime Trees (*Tilia* sp.), *Ann Bot.* 2002 Jun 1; **89**(6) 773-782.
- Stojiljkovic, D., Arsic, I., dan Tadic, V., 2016, Extract of Wild Apple Fruit (*Malus sylvestris* (L.) Mill., Rosaceae as a Source of Antioxidant Substance for Use in Production of Nutraceuticals and Cosmeceuticals. *Industrial Crops and Products*, **80**(2016):165-176.
- Sun, T., Simon, P. W., Tanumihardjo, S. A., 2009, Antioxidant Phytochemicals and Antioxidant Capacity of Biofortified Carrots (*Daucus carota* L.) of Various Colors, *Journal of Agricultural and Food Chemistry*, 57:4142-4147.
- Sudarmadji, 2003, Penggunaan Benzil Amino Purine Pada Pertumbuhan Kalus Kapas Secara In Vitro, *Bul. Tek. Pertan.*, **8**: 8–10.
- Tandra, A.A., 2004, Oxygen in Wound Healing-More Than a Nutrient, *World Journal of Surgery*, pp.4-6.
- Tito, A., Carola, A., Bimonte, M., Barbulova, A., Arciello, S., Laurentils, F., Monolo, I., Hill, J., Gilbertoni, S., Colucci, G., & Apone, F., 2011, A Tomato Stem Cell Extract, Containing Antioxidant Compounds and Metal Chelating Factors, Protects Skin Cells from Heavy Metalinduced Damages. *International Journal of Cosmetic Science*, **33**:543-552.
- Trehan, S., Michniak-Kohn, B., dan Beri, K., 2017, Plant Stem Cell in Cosmetics : Current Trends and Future Directions, *Future Sci. OA*, **2017**(3):4.
- 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.
- Verdeil, J.L., Alemanno, L., Niemenak, N., dan Tranbarger, T. J., 2007, Pluripotent versus Totipotent Plant Stem Cells: Dependence versus Autonomy?, *Elsevier Plant Science*, **12**(6):245-262.
- Wong, V.W., Sorkin, M., Glotzbach, J.P., Longaker, M.T., Gurtner, G.C., 2011, Surgical Approaches to Create Murine Models of Human Wound Healing, *Journal of Biomedicine and Biotechnology*, **2011** : 969618.