

DAFTAR PUSTAKA

- Abdurrahmat, A.S., 2014, Luka Peradangan dan Pemulihan, *Jurnal Entropi*, **9**(1): 729-738.
- Adiningsih, W., 2019, Pengaruh Ekstrak Air Sel Punca Tanaman Tomat (*Solanum lycopersicum* L.) terhadap Proses Penyembuhan Luka Melalui Ekspresi TNF- α pada Tikus Galur Wistar, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Agustin, R., Dewi, N., & Rahardja, S.D., 2016, Efektivitas Ekstrak Ikan Haruan (*Channa striata*) dan Ibuprofen terhadap Jumlah Sel Neutrofil pada Proses Penyembuhan Luka Studi in Vivo pada Mukosa Bukal Tikus (*Rattus norvegicus*) Wistar, *Dentino Jurnal Kedokteran Gigi*, **1**(1).
- Aiyalu, R., Govindarjan, A. & Ramasamy, A., 2016, Formulation and Evaluation of Topical Herbal Gel for the Treatment of Arthritis in Animal Model, *Brazilian Journal of Pharmaceutical Sciences*, **52**(3).
- Andaryekti, R., Mufrod, & Munisih, S., 2015, Pengaruh Basis gel Basis Masker Ekstrak Daun Teh Hijau (*Camellia sinensis* linn.) pada Karakteristik Fisik dan Aktivitas Bakteri *Staphylococcus aureus*, ATCC, **11**(2).
- Anonim, 2011, *Solanum lycopersicum* L., <https://www.itis.gov>, diakses pada 9 Oktober 2019.
- Asmarani, P., 2019, Pengaruh Ekstrak Air Sel Punca Tomat (*Solanum lycopersicum* L. Var. Permata) terhadap Penyembuhan Luka dengan Parameter Ekspresi COX-2 pada Tikus Galur Wistar, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Bainbridge, 2013, Wound Healing and the Role of Fibroblasts, *Journal of Wound Care*, **22**(8).
- Barbulova, A., Apone, F., & Colucci, G., 2014, Plant Cell Cultures as Source of Cosmetic Active Ingredients, *Cosmetics*, **1**: 94–104.
- Bhowmik, D., Kumar, D.P.S., Paswan, S., & Srivastava, S., 2012, Tomato-A Natural Medicine and Its Health Benefits, *Journal of Pharmacognosy and Phytochemistry*, **1**(1).
- Chagastelle, P.C. & Nardi, N.B., 2011, Biology of Stem Cells: an overview, *Kidney Int Suppl*, **1**(3): 63-67.
- Daniela, L., Alla, P., Maurelli, R., Elena, D., Giovanna, P., Vladimir, K., Roberto, D.T., Chiara, D.L., Saveria, P., & Liudmila, K., 2012, Anti-Inflammatory Effects of Concentrated Ethanol Extracts of Edelweiss (*Leontopodium alpinum* Cass.) Callus Cultures toward Human Keratinocytes and Endothelial Cells, *Hindawi Publishing Corporation*, **12**.
- Depkes RI, 1995, *Farmakope Indonesia*, Edisi IV, 7-8, Departemen Kesehatan Republik Indonesia, Jakarta.
- Dewi, D.A., 2018, Uji Aktivitas Penghambatan Kematian Ekstrak Etanol dan Air Sel Punca Tanaman Tomat (*Solanum lycopersicum* L.) terhadap Human Dermal Fibroblasts Adult (HDFa) Cell Line yang Diinduksi Hidrogen Peroksida (H₂O₂), *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada.
- Dhivya, S., Padma., V.V., & Santhini, E., 2015, Wound Dressings – a review, *BioMedicine*, **5**(4): 24-28.

- Dinareello, C.A., 2007, Historical Review of Cytokines, *Eur J Immunol*, **37**(1): 34-45.
- Draelos, Z.D., & Lauren, A. T., 2006, *Cosmetic Formulation of Skin Care Products*, 234-235 Taylor dan Francis Group, New York cit. Afianti, H.P., Murrkmiyadi, M., 2015, Pengaruh Variasi Kadar Gelling Agent HPMC terhadap Sifat Fisik dan Aktivitas Antibakteri Basis Gel Ekstrak Etanolik Daun Kemangi (*Ocimum basilicum* L. forma citratum Back.), *Majalah Farmaseutik*, **11**(2).
- Draganoiu, E., Rajabi, S., & Tiwari, 2009, Handbook of Cosmetic Science and Technology, 110- -113, Pharmaceutical Press, London cit. Tambunan, S., Sulaiman, T.N.S., 2018, Formulasi Gel Minyak Atsiri Sereh dengan Basis HPMC dan Karbopol, *Majalah Farmaseutik*, **14**(2): 87-95
- Eming, S.A., Krieg, T., & Davidson, J.M., 2007, Inflammation in Wound Repair: Molecular and Cellular Mechanisms, *Journal of Investigative Dermatology*, **127**: 514-525.
- Fauzy, E., Mansyur & Husni, A., 2016, *Pengaruh Penggunaan Media Murashige dan Skoog (Ms) dan Vitamin terhadap Tekstur, Warna dan Berat Kalus Rumput Gajah (*Pennisetum purpureum*) CV. Hawaii Paska Radiasi Sinar Gamma pada Dosis LD50 (In Vitro)*, jurnal.unpad.ac.id, diakses pada 18 Februari 2020.
- Frisca, Sardjono, C.T., & Sandra F., 2009, Angiogenesis: Patofisiologi dan Aplikasi Klinis, *JKM*, **8**(2): 174-87.
- Frusciante, L., Carli, P., Ercolano, M.R., Pernice, R., Matteo, A.D., Fogliano, V., & Pellegrini, N., 2007, Antioxidant nutritional quality of tomato, *Molecular Nutrition and Food Research*, **51**(5) : 609-17.
- Gonzalez, A.C., Costa, T.F., Andrade, Z.A., & Medrado, A.R., 2016, Wound Healing-A literature Review, *Bras Dermatol*, **91**(5):614-620.
- Greb, T. & Lohmann, U., 2016, Plant Stem Cells, *Current Biology*, 2(17).
- Harjadi, S., S., 2009., *Zat Pengatur Tumbuh Pengenalan dan Petunjuk Penggunaan pada Tanaman*, Penebar Swadaya, Jakarta, cit. Muliati, Nurhidayah, T., & Nurbaiti, 2017, Pengaruh NAA, BAP dan Kombinasinya pada Media MS terhadap Perkembangan Eksplan *Sansevieria Macrophylla* secara In Vitro, *Jom Faperta*, **4**(1).
- Ikeuchi, M., Sugimoto, K., & Iwase, A., 2013, Plant Callus: Mechanisms of Induction and Repression, *The Plant Cell*, **25**:3159–3173.
- Indah, P.N. & Ermavitalini, D., 2013, Induksi Kalus Daun Nyamplung (*Calophyllum inophyllum* Linn.) pada Beberapa Kombinasi Konsentrasi 6-Benzylaminopurine (BAP) dan 2,4-Dichlorophenoxyacetic Acid (2,4-D), *Jurnal Sains dan Seni Pomits*, **2**(1).
- Iyer, S.S., Cheng, G., 2012, Role of Interleukin 10 Transcriptional Regulation in Inflammation and Autoimmune Disease, *Crit Rev Immunol*, **32**(1): 23-63.
- Jones, A.M.P., & Saxena, P.K., 2013, Inhibition of Phenylpropanoid Biosynthesis in *Artemisia annua* L.: A Novel Approach to Reduce Oxidative Browning in Plant Tissue Culture, *Plos*, **8**(10).

- Kawochar, M.A., Ahmed, N.U. & Hossain, M.I., 2017, Role of Explants and NAA on Callus Induction of Potato (*Solanum tuberosum*), *American Journal of Life Sciences*, **5**(5):140-144.
- Landén, N. X., Li, D., & Stähle, M., 2016, Transition from inflammation to proliferation: a critical step during wound healing, *Cellular and Molecular Life Sci.*, **73**(20):3861–3885.
- Mehta, D.P., Rathod, H.J., Shah, D.P., & Shah, C.N., 2015, Review on Microemulsion Based Gel: A Recent Approach for Topical Drug Delivery System, *Research Journal of Pharmacy and Technology*, **8**(2).
- Morus, M., Baran, M., Rost-Roszkowska, M., & Skotnicka-Graca, U., 2014, Plant Stem Cells as Innovation in Cosmetics, *Acta Poloniae Pharmaceutica-Drug Research*, **71**(5):701-707.
- Mosser, D.M. & Zhang, X., 2008, Interleukin-10: New Perspectives on an Old Cytokine, *Immunol Rev.*, **226**: 205-218.
- Muliati, Nurhidayah, T., & Nurbaiti, 2017, Pengaruh NAA, BAP dan Kombinasinya pada Media MS terhadap Perkembangan Eksplan *Sansevieria Macrophylla* secara In Vitro, *Jom Faperta*, **4**(1).
- Peranteau, W.H., Zhang, L., Muvarak, N., Badillo, A.T., Radu, A., Philip, W., Zoltick, Kenneth, W., & Liechty, 2008, IL-10 Overexpression Decreases Inflammatory Mediators and Promotes Regenerative Healing in an Adult Model of Scar Formation, *Journal of Investigative Dermatology*, **128**.
- Perdanakusuma, D.S., 2007, Anatomi Fisiologi Kulit dan Penyembuhan Luka, Airlangga University Press, Surabaya cit. Sary, H.P., 2017, Peningkatan Jumlah Sel Fibroblas terhadap Proses Penyembuhan Luka Sayatan Insisi Setelah Pemberian Ekstrak Daun Tin (*Ficus carica* Linn.), *Skripsi*, Fakultas Kedokteran Gigi, Universitas Airlangga, Surabaya.
- Porth, C., 2011, *Essentials of Pathophysiology: Concepts of Altered Health States*, Lippincott Williams & Wilkins, diakses melalui <https://books.google.co.id>.
- Prasetyono, T.O.H., 2009, General concept of wound healing, revisited, *Med J Indones*, **18**(3).
- Prastowo, D., 2017, Uji Sitoprotektif Ekstrak Sel Punca Tanaman Tomat (*Lycopersicum 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., 2018, Proses Penyembuhan Luka Ditinjau dari Aspek Mekanisme Seluler dan Molekuler, *Qanun Medika*, **3**(1).
- Prochazkova, M., Chavez, M.G., Prochazka, J., Felfy, H., Mushegyan, V., & Klein, O.D., 2015, Embryonic Versus Adult Stem Cells, *Stem Cell Biology and Tissue Engineering in Dental Sciences*, 249-262.
- Rashid, R., Bhat J.A., Bhat, Z.A., Dar, W.A., & Shafi, W., 2012, Callus Formation and Organogenesis of Tomato (*Solanum lycopersicum* L.), *International Journal Of Plant Research*, **25**(2) : 243-248.
- Riastri, A., 2019, Uji Efek Sitoprotektif Ekstrak Air Sel Punca Kecambah Tomat (*Solanum Lycopersicum* L.) dan Analisis Ekspresi Sitokin TNF- α pada Sel

- Human Dermal Fibroblas Adult (HDFa) yang diinduksi Sinar UV-B, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Rivai, R.R., Husni, A. & Purwito, A., 2014, Induksi Kalus dan Embrio Somatik Tanaman Jambu Biji Merah (*Psidium guajava* L.), *Buletin Agrohorti*, **2**(1), 49-58.
- Robinson, A.J. & Snyder-mackler, L., 2008, *Clinical Electrophysiology: Electrotherapy and Electrophysiologic Testing, edisi 3, Lippincott Williams & Wilkins*, diakses melalui <https://books.google.co.id>.
- Rodhiyah & Sulistiyawati, 2012, Pengaruh Ekstrak Minyak Biji Bunga Matahari (*Helianthus annuus*) terhadap Proses Awal Penyembuhan Luka, *Prosiding Seminar Biologi*, **9**(1):706-711.
- Rowe, R.C., Sheskey, P.J., & Quinn., M.E., 2009, *Handbook of Pharmaceutical Excipients*, RPS Publishing, London.
- Rusdianto & Indrianto, A., 2012, Induksi Sel punca Embriogenik Pada Wortel (*Daucus carota* L.) Menggunakan 2,4-Dichlorophenoxyacetic Acid (2,4-D), *Jurnal Bionature*, **13** (2), 136-140.
- Sary, H.P., 2017, Peningkatan Jumlah Sel Fibroblas terhadap Proses Penyembuhan Luka Sayatan Insisi Setelah Pemberian Ekstrak Daun Tin (*Ficus carica* Linn.), *Skripsi*, Fakultas Kedokteran Gigi, Universitas Airlangga, Surabaya.
- Sato, Y., Ohshima, T., & Kondo, T., 1999, Regulatory Role of Endogenous Interleukin-10 in Cutaneous Inflammatory Response of Murine Wound Healing, *Biochemical and Biophysical Research Communications*, **265**: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.
- Seed, M.P. & Walsh, D.A., 2008, *Angiogenesis in Inflammation Mechanism and Clinical Correlates*, diakses melalui <https://books.google.co.id>.
- Seffer, I., Nemeth, Z., Hoffmann, G., Matics, R., Seffer, G.A., Koller, A., 2013, Unexplored Potentials of Epigenetic Mechanisms of Plants and Animals Theoretical Considerations, *Libertas Academica*, **5**:23-41.
- Setiawan, B., 2016, Optimalisasi Metode Automatic Slide Stainer untuk Pewarnaan Jaringan Menggunakan Haematoksilin-Eosin, *Laporan Akhir*, Fakultas Kedokteran Gigi, Universitas Jember, Jember.
- Shabrina, H., 2017, Pengaruh Pemberian Ekstrak Buah Okra (*Abelmoschus esculentus*) terhadap Jumlah Sel Neutrofil (Studi Eksperimental pada Proses Penyembuhan Luka Bekas Pencabutan Gigi Tikus Wistar dengan Diabetes Mellitus), *Skripsi*, Fakultas Kedokteran Gigi, Universitas Airlangga, Surabaya.
- Sharma, B., & 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.
- Sudiono, J., Kurniadi, B., Hendrawan, A., Djimantoro, B., 2003, *Ilmu Patologi*, Editor Janti Sudiono Lilian Yuwono, Jakarta, cit. Shabrina, H., 2017, Pengaruh Pemberian Ekstrak Buah Okra (*Abelmoschus esculentus*) terhadap Jumlah Sel Neutrofil (Studi Eksperimental pada Proses Penyembuhan Luka Bekas

- Pencabutan Gigi Tikus Wistar dengan Diabetes Mellitus), *Skripsi*, Fakultas Kedokteran Gigi, Universitas Airlangga, Surabaya.
- Tambunan, S. & Sulaiman, T.N.S., 2018, Formulasi Gel Minyak Atsiri Sereh dengan Basis HPMC dan Karbopol, *Majalah Farmaseutik*, **14**(2): 87-95
- Tan, G., Xu, P., Louise, B., Lawson, He, J., Lucia, C., Freytag, John, D., Clements, Vijay, T., John, 2010, Hydration Effects on Skin Microstructure as Probed by High Resolution Cryo-Scanning Electron Microscopy and Mechanistic Implications to Enhanced Transcutaneous Delivery of Biomacromolecules, *J.Pharm.Sci*, **99**(2): 730-740.
- Tito A., Carola, A., Bimonte, M., Barbulova, A., Arciello, S., de Laurentiis, F., Monoli, I., Hill, J., Gibertoni, S., Colucci, G., & Apone, F., 2011, A Tomato Stem Cell Extract Containing Antioxidant Compounds and Metal Chelating Factors, Protects Skin Cells from Heavy Metal-Induced Damages, *International Journal of Cosmetic Science*, **33**: 543–552.
- Trehan, S., Michniak-Kohn, B., & Beri, K., 2017, Plant stem cells in cosmetics: current trends and future directions, *Future Sci OA*, **3**(4).
- Triyono, B., 2005, Perbedaan Tampilan Kolagen di Sekitar Luka Insisi pada Tikus Wistar yang diberi Infiltrasi Penghilang Nyeri Levobupivakain dan yang Tidak Diberi Levobupivakain, *Tesis*, Program Magister Biomedik Dan PPDS I, Universitas Diponegoro, Semarang.
- Utama, A.D., 2018, Uji Sitoprotektif Ekstrak Etanol Air Sel Punca Tanaman Tomat (*Solanum Lycopersicum* L.) melalui Modulasi Profil Siklus Sel Human Dermal Fibroblas Adult (HDFa) yang dipaparkan Hidrogen Peroksida H₂O₂, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Velnar, T., Bailey, T. & Smrkolj, V., 2009, The Wound Healing Process: an Overview of the Cellular and Molecular Mechanisms, *The Journal of International Medical Research*, **37**(5), 1528-1542.
- Verdeil, J.L., Alemanno, L., Niemenak, N. & Tranbarger, T.J., 2007, Pluripotent versus Totipotent Plant Stem Cells: Dependence versus Autonomy, *Elsevier Plant Science*, **12**(6), 245-262.
- Verma, R., Balakhrisnan, L., Sharma, K., Kha, A.A., Advani, J., Gowda, H., Tripathy, S.P., Suar, M., Pandey, A., Gandotra, S., Prasad, T.S.K., Shankar, S., 2016, A Network Map of Interleukin-10 Signaling Pathway, *J. Cell Commun. Signal*, **10**: 61-67.
- Wallace, H.A., Basehore, B.M., & Zito, P.M., 2019, *Wound Healing Phases*, StatPearlsPublishingLLC., <https://www.ncbi.nlm.nih.gov/books/NBK470443/?report=printable>, diakses pada 14 November 2019.
- Wang, P., Huang, B., Horng, H., Yeh, C., & Chen, Y., 2018, Wound Healing, *Journal of the Chinese Medical Association*, **81**: 94-101.
- Wangko, S., Karundeng, R., 2014, Komponen Sel Jaringan Ikat, *Jurnal Biomedik*, **6**(3): 1-7.
- Wilgus, T.A., Roy, S., & McDaniel, J.C., 2013, Neutrophils and Wound Repair: Positive Actions and Negative Reactions, *Advances in Wound Care*, **2**(7).
- Zhu, J., 2017, Plant Stem Cell and its Pluripotency, *International Journal of Stem Cells & Research*, **3**(1).