

## DAFTAR PUSTAKA

- Abbas D. A., (2013) Analgesic, Anti-inflammatory and antidiarrhoeal effects of datura stramonium hydroalcoholic leaves extract in mice. *Ijrras*. 14(1):193–99.
- Alhasyimi A.A., (2016) Induksi re-epitilisasi pada proses penyembuhan luka ginggiva oleh aplikasi topikal ekstrak daun sage (*Salvia officinalis* L.) konsentrasi 50% (kajian in vivo Pada Tikus *Sprague Dawley*), *Jurnal B-Dent*, 3(1): 31- 38
- Anlysn, E. dan Dennis D., (2006) *Modern physical organic chemistry*. California: University Science Books Sausalito.
- Aranaz I., Mengfbar M., dan Harris R., (2009) Functional characterization of chitin and chitosan. *Current Chemical Biology*. 3:203-230
- Asraf A.G., dan Hasyim, R.I., (2018) Rancang bangun aerator menggunakan penggerak motor satu fasa dan sistem otomatisasi berbasis smart relay. *Jom FTEKNIK*. 5(1):1-7. doi.org/10.31227/0sf.io/2gxfc.
- Asriningrum V., (2022) *Efek gel ekstrak nano kitosan biji kecubung (datura metel) 1% terhadap angiogenesis penyembuhan luka tikus putih galur wistar*. Yogyakarta : Tesis FKG UGM.
- Aurora, Arin B., dan Olson E. N., (2014) Immuno modulation of stem cells and regeneration. *Cell Stem Cell*.1(15):14–25. doi: 10.1016/j.stem.2014.06.009.Immune.
- Badan Penelitian dan Pengembangan Kesehatan KEMENKES RI, (2013) *Laporan Nasional RISTOJA 2013*. Jakarta.
- Bansode, S.S., Banarjee, S.K., Gaikwad, S.L., Jadhav, R., dan Thorat, R.M., (2010) Microencapsulation : a review. *International Journal of Pharmaceutical Sciences Review and Research*. 1, 38-43.
- Banu, R. H., dan Nagarajan, N. (2014) TLC and HPTLC fingerprinting of leaf extracts of wedelia chinensis (Osbeck) Merrill. *Journal of Pharmacognosy and Phytochemistry*. 2(6), 29-33.
- Bhurani, Vishakha, dan Sarat Kumar Dalai. (2018) Therapeutic potentials of IL-10 versus IL-12. Immunoregulatory aspects of immunotherapy. <http://dx.doi.org/10.5772/intechopen.76914>.

- Cronkite D.A., dan Strutt T.M., (2018) The regulation of inflammation by innate and adaptive lymphocytes. J. Immunol Res. doi: 10.1155/2018/1467538.
- Carranza, F.A., Newman, M.G., Takel, H.H., dan Klokkevold, P.R., (2015) *Carranza's clinical periodontology*. 12th ed. Canada: Elsevier.
- Dalimartha S., (2005) *Atlas tumbuhan obat Indonesia*, 7th ed. Jakarta : Trubus Agriwidya.
- Ditjen POM, (2000) *Parameter standar umum ekstrak tumbuhan obat*.1<sup>st</sup> ed., Jakarta : Depkes RI.
- Fajriani F., (2008) Pemberian obat-obatan anti inflamasi non steroid (AINS) pada anak. Journal of Dentistry Indonesia. 15(3):200–204. doi: 10.14693/jdi.v15i3.27.
- Farida Y., Rahmat D., dan Amanda A. W., (2018.) Uji aktivitas antiinflamasi nanopartikel ekstrak etanol rimpang temulawak (*Curcuma Xanthorrhiza* Roxb.) dengan metode penghambatan denaturasi protein. Jurnal Ilmu Kefarmasian Indonesia. 16(2):225–30.
- Fiorentino D. F., Zlotnik A., Mosmann T.R., Howard M., dan O'Garra A., (1991) IL-10 inhibits cytokine production by activated macrophages. Journal of Immunology (Baltimore, Md. : 1950). 147(11):3815–22.
- Firdaus N., Viqar U., dan Kazmi M.H., (2020) Potential and pharmacological actions of dhatura safed (*datura metel* L.): as a deadly poison and as a drug: an overview. IJPSR. 11(7):3123–37. doi: 10.13040/IJPSR.0975-8232.11(7).3123-37.
- Fitri D., Kiromah N. Z. W., dan Widiastuti T. C., (2020) Formulasi dan karakterisasi nanopartikel ekstrak etanol daun salam (*Syzygium Polyanthum*) pada berbagai variasi komposisi kitosan dengan metode gelasi ionik. JPSCR. 5(1):61. doi: 10.20961/jpscr.v5i1.39269.
- Fitria L., dan Sarto M., (2014) Galur wistar jantan dan betina umur 4 , 6 , dan 8 minggu. Jurnal Ilmiah Biologi. 2(2):94–100.
- Galitis O.N., Bossi P., Orlandi E., dan Bensadoun R.J., (2021) The role of benzydamine in prevention and treatment of chemoradiotherapy-induced mucositis, Supportive Care in Cancer Springer Nature. <https://doi.org/10.1007/s00520-021-06048-5>.
- Godman, dan Gilman's. (2012) *Dasar Farmakologi Terapi*. 10<sup>th</sup> ed. Jakarta: Penerbit Buku Kedokteran EGC.

- Hamid I.S., Nazar D.S., dan Ratnani H., (2013) Hambatan ekspresi vascular endothelial growth factor oleh ekstrak daun sambung nyawa pada endotel membran karioalantois. *Jurnal Veteriner*. 14(1):85-90.
- Hasanah M. (2016) *Efek penggunaan obat anti-inflamasi non steroid terhadap tekanan darah pasien osteoarthritis (di poli reumatologi- penyakit dalam RSUD dr. Saiful Anwar Malang)*. Tesis. Malang : Universitas Brawijaya.
- Hearnden V., Sankar V., Hull K., Juras D. V., Greenberg M., Kerr A.R., Lockhart P. B., Patton L.L, Porter S., dan Thornhill M.H., (2012) New developments and opportunities in oral mucosal drug delivery for local and systemic disease. *Advanced Drug Delivery Reviews*. 64(1):16–28. doi: 10.1016/j.addr.2011.02.008.
- Hien D.T.T., Long T.P., Thao T.P., Lee J.H., Trang D., Minh N.T.T., Cuong P.V., Lan D.T.N., Dang N.H., Dat N.T., (2019) Anti-inflammatory effects of alkaloid enriched extract from roots of *Eurycoma longifolia* Jack. *Asian Pacific Journal of Tropical Biomedicine*. 9(1): 18-23.
- Irawati L., Acang N., dan Irawati N., (2008) Ekspresi tumor necrosis factor-alfa (TNF- $\alpha$ ) dan interleukin-10 (IL-10) pada infeksi malaria falciparum. *Majalah Kedokteran Andalas*. 32(1):16–28.
- Iyer S.S., Cheng G., (2012) Role of interleukin 10 transcriptional regulation in inflammation and autoimmune disease. *Crit Rev Immunol*. 32(1): 23–63.
- Jose M., (2017) *Essentials of Oral Biology (Oral Anatomy, Histology, Physiology & Embryology*. 2nd ed. New Delhi : CBS Publishers.
- Jumain, Asmawati, dan Huslina N., (2019) Efek analgetik ekstrak etanol daun zig-zag (*Pedilanthus Tithymaloides* (L.) Poit.) terhadap mencit jantan (*Mus Musculus*). *Media Farmasi*. 13(2). p.15. doi: 10.32382/mf.v13i2.785.
- Kammona O., dan Costas K. (2012) A review recent advances in nanocarrier-based mucosal delivery of biomolecules. *J Control Release*. 161(3):781-94. doi: 10.1016/j.jconrel.2012.05.040.
- Karavana S. Y., Sezer B., Güneri P., Veral A., Boyacıoğlu H., Ertan G., dan Epstein J.B., (2011) Efficacy of topical benzydamine hydrochloride gel on oral mucosal ulcers: an in vivo animal study. *International Journal of Oral and Maxillofacial Surgery*.

40(9):973–78. doi: 10.1016/j.ijom.2011.02.034.

Khoirunnisa I., dan Sumiwi S.A., (2019) Flavonoid pada berbagai aktivitas farmakologi.  
Bandung : Fakultas Farmasi Univertas Padjajaran. 17–02:131–42.

Koolhaas J. M.,(2010) The laboratory rat. in: Hubrecht, R. and Kirk-wood, J. (eds.). *The UFAW handbook on the care and management of laboratory and oth-er research animals*. 8th ed. Pp.311-326.

Kristanti, A.N., Aminah,N.S., Tanjung, M., dan Kurniadi, B. (2008). *Buku ajar fitokimia*.  
Surabaya: Airlangga University Press.

Kumar V., Abbas A., dan Aster J., (2017) *Robbins Basic Pathology*. 10th Ed, Philadelphia :  
Elsevier.

Kurniawan B., Carolia N., dan Pheilia A., (2014) The effectiveness of binahong leaf extract  
(*Anredera Cordifolia* (Ten.) Steenis) and mefenamic acid as anti inflammation to white  
male rat induced by Karagenin. *Juke Unila*. 4(8):151–57.

Lallo S., Hardianti B., Umar H., Trisurani W., Wahyuni A., dan Latifah M., (2020)  
Aktivitas anti inflamasi dan penyembuhan luka dari ekstrak kulit batang murbei  
(*Morus Alba L.*). *Galenika Journal of Pharmacy*. 6(1):26–36. doi:  
10.22487/j24428744.2020.v6.i1.14661.

Landén N. X., Li D., dan Stähle M., (2016) Transition from inflammation to proliferation:  
a critical step during wound healing, *Cellular and Molecular Life Sciences*.  
73(20):3861–85. doi: 10.1007/s00018-016-2268-0.

Lu H., Huang D., Ransohoff R.M., dan Zhou L., (2011) Acute Skeletal Muscle Injury:  
CCL2 Expression by Both Monocytes and Injured Muscle Is Required for Repair, *The FASEB Journal*, 25(10):3344–55.

Matcha R., Gopi K.S., dan Ranjan S., (2013) In vitro antiinflammatory and antioxidant  
activity of leaf extracts of Datura metel. *Asian Journal of Pharmaceutical and  
Clinical Research* 6. (SUPPL.4):146–49.

Martien R., Adhyatmika, Irianto I. D. K., Farida V., Sari D.P., (2012) Perkembangan  
teknologi nanopartikel sebagai sistem penghantar obat. *Majalah Farmaseutik*.  
8(1):133-144

- Minshawi F., Lanvermann S., McKenzie E. (2020) The generation of an engineered interleukin-10 protein with improved stability and biological function. *Frontier in Immunology*. 11: 1794. <https://doi.org/10.3389/fimmu.2020.01794>
- Mazza G., Sabatos C.A., Protheroe R.E., dan Herman A., (2012) Isolation and characterization of human interleukin-10 – secreting T cells from peripheral blood, *Hum Immunol Journal*.71(3):225–34. doi: 10.1016/j.humimm.2009.12.003.Isolation.
- Nesic D., Durual S., Marger L., Mustapha M., Sailer., Scherrer S. S. (2020) Could 3D printing for oral tissue regeneration ? Bioprinting 20. <https://doi.org/10.1016/j.bprint.2020.e00100>.
- Newman M.G., Takei H.H., Klokkevold P.R., dan Carranza F.A., (2013) *Newman and Carranza's, Clinical Periodontology*, 13th ed. Philadelphia : Elsevier. pp.55-396.
- O'Garra A., Barrat F.J., Castro A. G., Vicari A., dan Hawrylowicz C., (2008) Strategies for use of IL-10 or it's antagonists in human disease. *J.Immunol Rev*. 223:114–131.
- Oishi Y., dan Manabe I., (2018) Macrophages in inflammation, repair and regeneration. *International Immunology*. 30(11):511–28. doi: 10.1093/intimm/dxy054.
- Parveen A., Vijula K., Avinash K.V., Ravishankar M., dan Leeladhar D.V., (2016) Medicinal values of Datura: a synoptic review. *International Journal of Green Pharmacy*. 10(2):77–81.
- Patil P, Datir S., dan Saudagar R., (2019) A review on topical gels as drug delivery system. *Journal of Drug Delivery & Therapeutics*, 9(3):661–68.
- Pertiwi I., Zaman N. N., Arifki H. H., dan Silalahi K., (2018) Kitosan Sebagai Eksipien dalam Sistem Penghantaran Obat Baru. *Farmaka Journal*. 16(3):310-321.
- Pratiwi R. Manfaat Kitin dan Kitosan bagi Kehidupan Manusia. *Oseana*. 2014; 39(1):35-43.
- Putri F.R., Tasminatun S., 2012. Efektivitas Salep Kitosan terhadap Penyembuhan Luka Bakar Kimia pada *Rattus novergicus*, *Mutiara Medika*; 12(1) ;24-30
- Rathbone M., Pather I., dan Senel S., 2015. *Oral Mucosal Drug Delivery and Therapy*, Springer, New York.
- Robinson T., 1995. *Kandungan Organik Tumbuhan Tingkat Tinggi*, Penerbit ITB,

Bandung.

Rodriguez-Vita J, Lawrence T., 2010. The Resolution of Inflammation and Cancer. *Cytokine and Growth Factors Review*. Volume 21, Issue 1, February 2010, Pages 61-65. <https://doi.org/10.1016/j.cytogfr.2009.11.006>.

Sabat, R. Grutz, G. Warszawska, K, Kirsch. S, (2010) Biology of Interleukin-10. *Cytokine and Growth Factor Reviews*, 21(5), p.331-344. doi: 10.1016/j.cytogfr.2010.09.002.

Samuel J., Sudisma I.G.N., dan Dada I.KA., (2018) Respon Analgesia, Sedasia dan Relaksasi Tikus Putih yang Diberi Ekstrak Biji Kecubung (*Datura metel* L.) Intraperitoneal, *Indonesia Medicus Veterinus*, 7(1):16. doi: 10.19087/imv.2018.7.1.16.

Sarwono R. Pemanfaatan Kitin/Kitosan sebagai Bahan Antimikroba. JKTI. (2010) 12(1):32-8.

Setia, Dara A.I, dan Tjitaesmi A., (2016) Aktivitas Antiinflamasi dari Berbagai Tanaman : Sebuah Review, *Farmaka Jurnal*, 14(3):77–86.

Sato Y, Ohshima T, Kondo T. (1999 )Regulatory of endogenous interleukin-10 in cutaneous inflammatory response of murine wound healing. *Biochem Biophys Res Commun*. Nov;265(1):194-9

Setyawati T., Narulita S., Bahri I.P, dan Raharjo G.T., (2015) *A Guide Book to Invasive Plant Species in Indonesia*, Research, Development and Innovation Agency, Bogor.

Shastri, Padar S., Sanjay C.J., Kaul R., Mahima V.G., dan Doggalli N., (2015) Topical Drug Delivery: An Essential Aid in the Management of Oral Diseases, *Journal of Advanced Clinical & Research Insights*, 2(January):269–75. doi: 10.15713/ins.jcri.92.

Singh R, Shitiz K, Singh A. (2017) Chitin and Chitosan: Biopolymers for Wound Management. *International Wound Journal*; 14(6):1276-89.

Smith J., dan Mangkoewidjojo S., (1998) *Pemeliharaan, Pembiakan Dan Penggunaan Hewan Percobaan Di Daerah Tropis*. UI Press., Jakarta.

Sugiyanto, (1995) *Petunjuk Praktikum Farmasi*, Edisi IV, Laboratorium Farmasi dan Taksonomi UGM, Yogyakarta.

- Sutjiati R., (2016) Mekanisme Hambatan Relaps Pergerakan Gigi Ortodonti Pemberian Natrium Fluorida ( Studi Eksperimental pada Tikus *Wistar*), *Disertasi*, Program studi Ilmu Kedokteran Jenjang Doktor Fakultas Kedokteran Universitas Airlangga, Surabaya.
- Steen E., Wang X, Hima V. (2019) IL-10 Promotes Endothelial Progenitor Cell Driven Wound Neovascularization and Enhances Healing via STAT3. *bioRxiv*. <https://doi.org/10.1101/760165>
- Tjitrosoepomo G., (2003) *Morfologi Tumbuhan*, Gajah Mada. University Press, Yogyakarta.
- Tiyabooncjai W., (2003) Chitosan Nanoparticles: A Promising System for Drug Delivery, *Naresuan University Journal*, 11(3):51–66.
- Ulviani F., Yusriadi., dan Khaerati K, (2016) Pengaruh Gel Ekstrak Daun Sirih Merah (*Piper crocatum* Ruiz & Pav) Terhadap Penyembuhan Luka Bakar Pada Kelinci (*Oryctolagus cuniculus*), *Galenika Journal of Pharmacy*, 2(2) : 103 - 110.
- Valsan A., (2016) Pharmacognostic Profile of *Averrhoa Bilimbi* Linn. Leaves, *Pharmacognostic Profile of Averrhoa Bilimbi Linn. Leaves*, 2(1):75–80.
- Vanderwall A. G., dan Milligan E.D., (2019) Cytokines in Pain : Harnessing Endogenous Anti-Inflammatory Signaling for Improved Pain Management, *Frontiers in Immunology* 10, doi: 10.3389/fimmu.2019.03009.
- Velnar T., Bailey T., dan Smrkolj V., (2009) The Wound Healing Process: An Overview of the Cellular and Molecular Mechanisms, *Journal of International Medical Research*, 37(5):1528–42. doi: 10.1177/147323000903700531.
- Wahyono D., (2010) Ciri Nanopartikel Kitosan dan Pengaruhnya pada Ukuran Partikel dan Efisien Penyalut Ketopren. *Tesis*. Program Pasca Sarjana. IPB Bogor.
- Widiastuti I. G. A. A. (2017) Ekstrak Pasta Ubi Jalar Ungu (*Ipomea Batatas* L ) Mempercepat Angiogenesis Soket Mandibula Pada Penyembuhan Luka Pasca Pencabutan, *Journal Caninus Denstistry*, 2:20–30.
- Widyaningrum H., (2011) *Kitab Tanaman Obat Nusantara*, Media Pressindo, Yogyakarta.
- Winarto, dan Budiono U., (2009) Perbandingan IL-10 di Jaringan Sekitar Luka Insisi

dengan dan tanpa Infiltrasi Lebupivakain : Studi Imunohistokimia pada Tikus Wistar.  
*Jurnal Anestesiologi Indonesia*. 1(1):32-41.

Wojdasiewicz P, Poniatowski A.A, dan Szukiewicz D. (2014) The Role of Inflammatory and Anti-Inflammatory Cytokines in the Pathogenesis of Osteoarthritis. *Mediators of Inflammation*. Volume Article ID 561459, 19 pages  
<http://dx.doi.org/10.1155/2014/561459>

Yanhendri S. W. Y., (2012) Berbagai Bentuk Sediaan Topikal Dalam Dermatological, *Cermin Dunia Kedokteran*, 39(6):423–30.