

DAFTAR PUSTAKA

- Agrawal, B. and Mehta, A., 2008. Antiasthmatic Activity Of Moringa Oleifera Lam: A Clinical Study. *Indian J Pharmacol* 40(1): 28-31.
- Anitha, A., Sowmya, S., Kumar, P.T.S., Deepthi, S., Chennazhi, K.P., Ehrlich, H., Tsurkan, M., and Jayakumar, R., 2014. Chitin And Chitosan in Selected Biomedical Application. *Progress in Polymer Science*.
- Anonim, 2009. Farmacope Indonesia Edisi 4, Departemen Kesehatan RI, Jakarta.
- Anonim, 2016. <https://clinicaltrials.gov/ct2/results?term=moringa+oleifera&Search=Search>. Diakses tanggal 7 April 2016.
- Arora, D.S. and Onsare, J.G., 2014. In Vitro Antimicrobial Potential, Biosafety And Bioactive Phytoconstituents of Moringa Oleifera Stem Bark. *World Journal of Pharmaceutical Research*, 2772-2788.
- Ashjaran, A. and Namayi, A., 2014. Survey of Nanofiber Material As Drug Delivery System. *Resesarch Journal of Pharmaceutical, Biological, and Chemical Sciences*. 5(3) p.1262.
- Awodele, O., Oreagba, I.A., Odoma, S., da Silva, J.A., and Osunkalu, V.O., 2012. Toxicological Evaluation of The Aquaeous Extract of Moringa oleifera. *J Ethnopharmacol* 139(2): 330-6.
- Bhullar, S.K. and Bhuttar, H.S., 2015. Nanofiber Devices For The Targeted Delivery Of Therapeutically Active Plant And Herbal Ingredients. *Biomedical Reviews* 26:37-42.
- Chandra, S., Shridhar, N.B., and Sanganal, J., 2015. Nanofibers In Drug Delivery: An Overview. *World Journal of Pharmaceutical Research* 4(8): 2576-2594.
- Charernsriwilaiwat, N., Rojanarata, T., Ngawhirunpat, T., Sukma, M., and Opanasopit, P., 2013. Electrospun Chitosan Based Nanofiber Mats Loaded With *Garcinia mangostana* Extract. *International Journal of Pharmaceutics*. 452:333-343
- Chaturvedi, T.P., Srivastana, R., Srivastana, A.K., Gupta, V., and Pushpendra, K.V., 2013. Doxycycline Poly E-Caprolactone Nanofibers in Patients With Chronic Periodontitis- A Clinical Evaluation. *Journal of Clinical And Diagnostic Research* : 2339-2342.
- Chou, S.F., Carson, D., and Woodrow, K.A., 2015. Current Strategies For Sustaining Drug Release From Electrospun Nanofiber. *Journal of Controlled Release* doi: 10.1016/j.jconrel.2015.09.008.
- Cui, W., Li, X., Zhu, X., Yu, G., Zhou, S., and Weng, J., 2006. Investigation of Drug Release And Matrix Degradation Of Electrospun Poly (DL-Lactide) Fibers With Paracetamol Inoculation. *Biomacromolecules* 7, 1623-1629.
- DeMerlis, C.C. and Schoneker, D.R., 2003. Review of The Oral Toxicity of Polyvinyl Alcohol. *Food And Chemical Toxicology*. Volume 41 issue 3:

319-326.

- El-Kamel, A.H., Ashri, L.Y., and Alsarra, I.A., 2007. Micromatrical Metronidazole Benzoate Film As A Local Mucoadhesive Delivery System For Treatment Of Periodontal Diseases. *AAPS PharmSciTech*, 8, E3-E11.
- Elsabee, M.Z., Naguib, H.N., and Morsi, R.E., 2012. Chitosan Based Nanofibers, Review. *Materials Science and Engineering C* 32: 1711-1726
- Emilan, T., Kurnia, A., Utami, B., Diyani, L.N., dan Maulana, A., 2011. Konsep Herbal Indonesia: Pemastian Mutu Produk Herbal. *Fakultas matematika dan Ilmu Pengetahuan Alam Departemen Farmasi Program Studi Magister Ilmu Herbal Universitas Indonesia*
- Farooq, A., 2015. Synthesis Of Piroxicam Loaded Novel Electrospun Biodegradable Nanocomposite Scaffolds For Periodontal Regeneration. *Materials Science & Engineering C*, 56. 104–113.
- Geng, X., Kwon, O.H., and Jang, J., 2005. Electrospinning of Chitosan Dissolved in Concentrated Acetic Acid Solution. *Biomaterials* 26 : 5427-5432
- Harkins, A.L., Duri, S., Kloth, L.C., and Tran, C.D., 2013. Chitosan-Cellulose Composite For Wound Dressing Material. Part 2. Antimicrobial Activity, Blood Absorption Ability, and Biocompatibility. *Society for Biomaterials*.
- Imohiosen, O., Gurama, H.H., and Lamidi, T.B., 2014. Phytochemical And Antimicrobial Studies On Moringa oleifera Leaves Extracts. *IOSR Journal of Environmental Science, Toxicology And Food Technology* , 39-45.
- Jahn, S., Musnad, H., and Burgstaller, H., 1986. The Tree That Purifies Water: Cultivating Multipurpose Moringaceae in The Sudan. *Unasylya* , 23-28.
- Jain, N., Jain, G.K., Javed, S., Iqbal, Z., Talegaonkar, S., Ahmad, J., and Khar, R.K., 2008. Recent Approaches For The Treatment Of Periodontitis. *Drug Discovery Today*, Vol 13, No 21/22.
- Leone, A., Spaa, A., Battezzati, A., Schiraldi, A., Aristil, J., and Bertoi, S., 2015. Cultivation, Genetic, Ethnopharmacology, Phytochemistry and Pharmacology of Moringa oleifera Leaves: An Overview. *International Journal of Molecular Sciences* , 12791-12835.
- Maurya, S.K. and Singh, A.K., 2014. Clinical Efficacy of Moringa oleifera Lam. Stems Bark In Urinary Tract Infections. *International Scholarly Research Notices*.
- Mirzaei, E., Sarkar, S., Rezayat, S.M., and Faridi-Majidi, R., 2016. Herbal Extract Loaded Chitosan-Based Nanofibers As A Potential Wound-Dressing. *Journal of Advanced Medical Sciences And Applied Technologies* 2(1)
- Mota, J., Yu, N., Caridade, S.G., Luz, G.M., Gomes, M.E., Reis, R.L., Jansen, J.A., Walboomers, X.F. and Mano, J.F., 2012. Chitosan/Bioactive Glass Nanoparticle Composite Membranes for Periodontal Regeneration. *Acta Biomaterialia* 8:4173-4180.

- Muhammad, A.A., Pauzi, N.A., Arulselvan, P., Abas, F., and Fakurazi, S., 2013. In Vitro Wound Healing Potential And Identification Of Bioactive Compounds From *Moringa oleifera* Lam. *BioMed Research International*.
- Opanasopit, P., Ruktanonchai, U., Suwontang, O., Panomsuk, S., Ngawhirunpat, T., Sittisombut, C., Suksamran, T., and Supaphol, P., 2008. Electrospun Poly(Vinyl Alcohol) Fiber Mats As Carriers For Extracts From The Fruit Hull Of Mangosteen. *Journal of Cosmetic Science*, 59, 233-242.
- Paipitak, K., Pornpra, T., Mongkotalang, P., Techitdheera, W., and Pecharapa, W., 2011. Characterization of PVA-Chitosan Nanofibers Prepared by Electrospinning . *Procedia Engineering* 8 (2011) 101–10.
- Palombo, E. A., 2009. Traditional Medicinal Plant Extracts and Natural Products with Activity Against Oral Bacteria: Potential Application in The Prevention and Treatment of Oral Diseases. *Evidence-Based Complementary and Alternative Medicine* .
- Parida, U.K., Nayak, A.K., Binhani, B.K., and Nayak, P.L., 2011. Synthesis And Characterization Of Chitosan-Polyvinyl Alcohol Blended With Cloisite 30B For Controlled Release of The Anticancer Curcumin. *Journal of Biomaterials and Nanobiotechnology* 2: 414-425.
- Patel, P., Patel, N., Patel, D., Desai, S., and Meshram, D., 2014. Phytochemical Analysis And Antifungal Activity of Moringa Oleifera. *International Journal Of Pharmacy And Pharmaceutical Sciences*. Vol. 6, Issue 5.
- Pedro, A.S., Cabral-Albuquerque, E., Ferreira, D., and Sarmento, B., 2008. Chitosan: An Option For Development Of Essential Oil Delivery Systems For Oral Cavity Care? *Carbohydrate Polymers* 76:501-508.
- Pelipenko, J., Kocbek, P., and Kristl, J., 2015. Critical Attributes of Nanofibers : Preparation, Drug Loading, And Tissue Regeneration. *International Journal of Pharmaceutics*.
- Pillay, V., Dott, C., Choonara, Y.E., Tyagi, C., Tomar, L., Kumar, P., du Toit, L.C., and Ndesendo, V.M.K., 2013. A Review Of The Effect of Processing Variables on The Fabrication of Electrospun Nanofibers for Drug Delivery Application. *Journal of Nanomaterials Volume* 2013 Article ID 789289.
- Repanas, A.M., Andriopoulou, S., and Glasmacher, B., 2016. The Significance of Electrospinning As A Method To Create Fibrous Scaffolds For Biomedical Engineering And Drug Delivery Application. *Journal of Drug Delivery Science and Technology* 31: 137-146
- Ricci, G. and Aimetti, M., 2014. *Periodontal Diagnosis And Therapy*. Milan: Quintessenza edizioni.
- Rieger, K.A. and Schiffman, J.D., 2014. Electrospinning An Essential Oil: Cinnamaldehyde Enhances The Antimicrobial Efficacy Of Kitosan/Poly(Ethylene Oxide) Nanofibers. *Carbohydrate Polymers*, 113.561–568.

- Rinaudo, M., 2006. Chitin and Chitosan: Properties and Application. *Prog Polym sci*.31:603-632
- Rockwood, J., Anderson, B., and Caamatta, D., 2013. Potential Uses of Moringa Oleifera And An Examination Of Antibiotic Efficacy Conferred By M. Oleifera Seed And Leaf Extracts Using Crude Extraction Techniques Available To Underserved Indigenous Populations. *International Journal Of Phyotherapy Research* , 61-71.
- Roloff, A., Weissberger, H., Lang, U., and Stimm, B., 2009. Enzyklopädie der Holzgewächse, Handbuch und Atlas der Dendrologie; WILEY-VCH: Weinheim, Germany.
- Rošić, R., Pelipenko, J., Kristl, J., Kocbek, P., and Baumgartner, S., 2012. Properties, Engineering and Applications of Polymeric Nanofibers: Current Research and Future Advances. *Chem. Biochem. Eng. Q.* 26(4) 417-425.
- Sadri, M., Mohammad, A., and Hosseini, H., 2016. Drug Release Rate And Kinetic Investigation Of Composite Polymeric Nanofibers. *Nanomed Res J* 1 (2): 112-121.
- Samprasit, W., 2015. Mucoadhesive Electrospun Chitosan-Based Nanofibre Mats For Dental Caries Prevention. *Carbohydrate Polymers*, 117.933–940.
- Santos, A., 2015. Moringa oleifera: Resource Management And Multiuse Life Tree. *Advances in Research*, 4(6).388–402.
- Sarhan, W.A. and Azzazy, H.M.E., 2014. High Concentration Honey Chitosan Electrospun Nanofibers: Biocompatibility And Antibacterial Effects. *Carbohydrate Polymers*.
- Sebe, I., Szabo, P., Kallai-Szabo, B., and Zelko, R., 2015. Incorporating Small Molecules or Biologics Into Nanofibers For Optimized Drug Release: A Review. *International Journal Of Pharmaceutics* 494:516-530.
- Shin, S.Y., Park, H.N., Kim K.H., Lee, M.H., Choi, Y.S., Park, Y.J., Lee, Y.M., Kuu, Y., Rhyu, I.C., Han, S.B., Lee, S.J., and Chung, C.P., 2005. Biological Evaluation Of Chitosan Nanofiber Membrane for Guided Bone Regeneration. *J Periodontol*.
- Sill, T.J. and Von Recum, H.A., 2008. Electrospinning : Applications in Drug Delivery And Tissue Engineering. *Biomaterials* 29: 1989-2006.
- Singh, V., Singh, N., Pal, U.S., Dhasmana, S., Mohammad, S., and Singh, N., 2011. Clinical Evaluation of Cissus Quadrangularis And Moringa Oleifera And Osteoseal as Osteogenic Agent in Mandibular Fracture. *Natl J Maxillofac Surg* 2(2): 132-136.
- Sinha, V.R., Singla, A.K., Wadhawan, S., Kaushik, R., Kumria, R., and Bansal, K., 2004. Chitosan Microspheres as A Potential Carrier For Drugs. *International Journal of Pharmaceutics*, 274,1-33.
- Sofrata, A., Santangelo, E.M., Azeem, M., Borg-Karlson, A., Gustaffson, A., and

- Putsep, K., 2011. Benzyl Isothiocyanate, A Major Component From The Roots of *Salvadora Persica* Is Highly Active Against Gram-Negative Bacteria. *PLoS ONE* 6(8):e23045.
- Sunil, C.U., Shridhar, N.B., Jagadeesh, S.S., and Ravikumar, C., 2015. Nanofibers in Drug Delivery: An Overview. *World Journal of Pharmaceutical Research* Vol.4, Issue 8, 2576-2594.
- Suwontang, O., Pankongadisak, P., Deachatai, S., and Supaphol, P., 2013. The Potential of Electrospun Poly(L-lactic Acid) Fiber Mats Containing a Crude *Garcinia dulcis* Extract For Use As A Wound Dressings. *Chiang Mai J.Sci* 40(3): 517-533.
- Szentivanyi, A., Chakradeo, T., Zernetsch, H., and Glasmacher, B., 2011. Electrospun Cellular Microenvironments: Understanding Controlled Scaffold Structure. *Advanced Drug Delivery Reviews* 63: 209-220.
- Vasanth, K., Minakshi, G.C., Ilango, K., Kumar, R.M., and Agrawal, A., 2015. *Moringa oleifera* Attenuates The Release Of Pro-Inflammatory Cytokines In Lypopolysaccharide Stimulated Human Monocytoc Cell Line. *Industrial Crops And Products* 77:44-50.
- Verreck, G., Chun, I., Peeters, J., Rosenblatt, J., and Brewster, M., 2002. Preparation And Characterization Of Nanofibers Containing Amorphous Drug Dispersions Generated By Electrostatic Spinning. *Pharmaceutical Research* Vol. 20, No. 5.
- Vieira, G.H.F., Mourao, J.A., Angelo, A.M., Costa, R.A., and Vieira, R.H.S., 2010. Antibacterial Effect (In Vitro) of *Moringa Oleifera* And *Annona Muricata* Against Gram Positive And Gram Negative Bacteria. *Rev.Inst.Trop.Sao Paolo*, May-June.
- Waterman, C., Cheng, D.M., Rojas-Silva, P., Poulev, A., Dreifus, J., Lila, M.A., and Raskin, I., 2014. Stable, Water Extractable Isothiocyanates From *Moringa oleifera* Leaves Attenuates Inflammation In Vitro. *Phytochemistry* 103: 114-122.
- Zhang, Q., Li, Y., Lin, Z.Y., Wong, K.K.Y., Lin, M., Yildirimer, L., and Zhao, X., 2017. Electrospun Polymeric Micro/Nanofibrous Scaffolds For Long-Term Drug Release And Their Biomedical Applications. *Drug Discovery Today* Volume 00 Number 00.
- Xu, C., Lei, C., Meng, L., Wang, C., and Song, Y., 2012. Chitosan As A Barrier Membrane Potential In Periodontal Tissue Regeneration. *J Biomed Mater Res Part B* 2012: 100B:1435-1443.
- Yao, W., 2014. Local Delivery Of Minocycline-Loaded PEG-PLA Nanoparticles For The Enhanced Treatment Of Periodontitis In Dogs. *International Journal of Nanomedicine*. 3963–3970.
- Yulianti, H., 2015. Pengaruh Ekstrak Daun Kelor Terhadap Peningkatan Kadar Hemoglobin pada Remaja putri di SMU Muhammadiyah Kupang. *Tesis*.

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- Zamani, M., Morshed, M., Varshosaz, J., and Jannesari, M., 2010. Controlled Release Of Metronidazole Benzoate From Poly Epsilon-Caprolactone Electrospun Nanofibers For Periodontal Diseases. *European Journal Of Pharmaceutics And Biopharmaceutics: Official Journal of Arbeitsgemeinschaft für Pharmazeutische Verfahrenstechnik e.V.*, 75(2).179–85.
- Zamarioli, C.M., 2015. Nanoparticles Containing Curcuminoids (Curcuma Longa): Development Of Topical Delivery Formulation. *Revista Brasileira de Farmacognosia*, 25(1): 53-6.
- Zupancic, S., Baumgartner, S., Lavric, Z., Petelin, M., and Kristi, J., 2015. Local Delivery Of Resveratrol Using Polycaprolactone Nanofibers For Treatment Of Periodontal Disease. *Journal Of Drug Delivery Science And Technology* 30: 408-416.