



DAFTAR PUSTAKA

- Abdelhady, S., Honsy, K.M., dan Kurakula, M., 2015, Electro Spun-Nanofibrous Mats: A Modern Wound Dressing Matrix with a Potential of Drug Delivery and Therapeutics, *J. Eng. Fiber. Fabr.*, 10, 179–193.
- Adji, A.S., Atika, N., Kusbijantoro, Y.B., Billah, A., Putri, A., dan Handajani, F., 2022, A review of Leaves and Seeds Moringa oleifera Extract: The potential Moringa oleifera as Antibacterial, Anti-Inflammatory, Antidiarrhoeal, And Anticancer Approaches To Bacterial Gastroenteritis, *Open Access Maced. J. Med. Sci.*, 10, 305–313.
- Affonso, R.C.L., Voytena, A.P.L., Fanan, S., Pitz, H., Coelho, D.S., Horstmann, A.L., Pereira, A., Uarrota, V.G., Hillmann, M.C., Varela, L.A.C., Ribeiro-Do-Valle, R.M., dan Maraschin, M., 2016, Phytochemical Composition, Antioxidant Activity, and the Effect of the Aqueous Extract of Coffee (Coffea arabica L.) Bean Residual Press Cake on the Skin Wound Healing, *Oxid. Med. Cell. Longev.*, 2016, .
- Agarwal, A., Simonaitis, J., Goyal, V.K., dan Berggren, K.K., 2023, Secondary electron count imaging in SEM, *Ultramicroscopy*, 245, .
- Ali, A., Zhang, N., dan Santos, R.M., 2023, Mineral Characterization Using Scanning Electron Microscopy (SEM): A Review of the Fundamentals, Advancements, and Research Directions, *Appl. Sci.*, 13, 12600.
- Amorim, D., Costa, B., dan Martinez, D., 2023, Biosorption of Pd(II) from Aqueous Solution using Leaves of Moringa oleifera as a Low-cost Biosorbent, *Bioactivities*, 1, 9–17.
- Azimi, B., Maleki, H., Zavagna, L., de la Ossa, J.G., Linari, S., Lazzeri, A., dan Danti, S., 2020, Bio-based electrospun fibers for wound healing, *J. Funct. Biomater.*, 11, .
- Bao, T.Q., Franco, R.A., dan Lee, B.T., 2011, Material properties and characterizations of cross-linked electro-spinning raspberry ketone incorporated polyvinyl alcohol/gelatin fibrous scaffolds, *J. Biomed. Sci. Eng.*, 04, 1–9.
- Barhoum, A., Pal, K., Rahier, H., Uludag, H., Kim, I.S., dan Bechelany, M., 2019, *Nanofibers as new-generation materials: From spinning and nano-spinning fabrication techniques to emerging applications.*,
- Begum, M.H.A., Hossain, M.M., Gafur, M.A., Kabir, A.N.M.H., Tanvir, N.I., dan Molla, M.R., 2019, Preparation and characterization of polyvinyl alcohol-starch composites reinforced with pulp, *SN Appl. Sci.*, 1, 1–9.
- Belz, G.T., dan Auchterlonie, G.J., 1995, An investigation of the use of chromium, platinum and gold coating for scanning electron microscopy of casts of lymphoid tissues, *Micron*, 26, 141–144.
- Bonilla-Jaimes, J.D., Henao-Martínez, J.A., Mendoza-Luna, C., Castellanos-Alarcón, O.M., dan Ríos-Reyes, C.A., 2016, Non-destructive in situ analysis of garnet by combining scanning electron microscopy and X-ray diffraction techniques, *Dyna*, 83, 84–92.



- Bumpus, K., dan Maier, M.A., 2013, The ABC's of wound care, *Curr. Cardiol. Rep.*, 15, .
- Byrne, H.J., Bonnier, F., McIntyre, J., dan Parachalil, D.R., 2020, Quantitative analysis of human blood serum using vibrational spectroscopy, *Clin. Spectrosc.*, 2, 100004.
- Calderón, M.Á.R., dan Zhao, W., 2014, Applications of polymer nanofibers in biomaterials, biotechnology and biomedicine: A review, *TMS Annu. Meet.*, 125, 401–414.
- Cardoso, H.C., Zara, A.L.D.S.A., Rosa, S.D.S.R.F., Rocha, G.A., Rocha, J.V.C., Araújo, M.C.E. De, Quinzani, P.D.F., Barbosa, Y.P., dan Mrué, F., 2019, Risk Factors and Diagnosis of Diabetic Foot Ulceration in Users of the Brazilian Public Health System, *J. Diabetes Res.*, 2019, .
- Chai, J., Zhang, K., Xue, Y., Liu, W., Chen, T., Lu, Y., dan Zhao, G., 2020, Review of mems based fourier transform spectrometers, *Micromachines*, 11, .
- Charernsriwilaiwat, N., Rojanarata, T., Ngawhirunpat, T., Sukma, M., dan Opanasopit, P., 2013, Electrospun chitosan-based nanofiber mats loaded with Garcinia mangostana extracts, *Int. J. Pharm.*, 452, 333–343.
- Chen, K., Hu, H., Zeng, Y., Pan, H., Wang, S., Zhang, Y., Shi, L., Tan, G., Pan, W., dan Liu, H., 2022, Recent advances in electrospun nanofibers for wound dressing, *Eur. Polym. J.*, 178, 1335–1352.
- Chin, C.Y., dan Ng, S.F., 2020, Development of Moringa oleifera Standardized Leaf Extract Nanofibers Impregnated onto Hydrocolloid Film as A Potential Chronic Wound Dressing, *Fibers Polym.*, 21, 2462–2472.
- Choi, J. Il, Kim, M.S., Chun, G.Y., dan Shin, H.S., 2017, Spirulina extract-impregnated alginate-PCL nanofiber wound dressing for skin regeneration, *Biotechnol. Bioprocess Eng.*, 22, 679–685.
- Clinical and Laboratory Standards Institute, 2012, *Performance standards for antimicrobial disk susceptibility tests: Approved standard - Eleventh edition.*,
- Das, K., Tiwari, R.K.S., dan Shrivastava, D.K., 2010, Techniques for evaluation of medicinal plant products as antimicrobial agent: Current methods and future trends, *J. Med. Plants Res.*, 4, 104–111.
- Demerlis, C.C., dan Schoneker, D.R., 2003, Review of the oral toxicity of polyvinyl alcohol (PVA) - PDF Free Download, *Food Chem. Toxicol.*, 41, 319–326.
- Dicks, L.M.T., dan Heunis, T.D.J., 2010, Nanofibers offer alternative ways to the treatment of skin infections, *J. Biomed. Biotechnol.*, 2010, .
- Doostan, Mahtab, Doostan, Maryam, Maleki, H., Faridi Majidi, R., Bagheri, F., dan Ghanbari, H., 2022, Co-electrospun poly(vinyl alcohol)/poly(ϵ -caprolactone) nanofiber scaffolds containing coffee and Calendula officinalis extracts for wound healing applications, *J. Bioact. Compat. Polym.*, 37, 437–452.
- Dorai, A.A., 2012, Wound care with traditional, complementary and alternative medicine, *Indian J. Plast. Surg.*, 45, 418–424.
- Dumville, J.C., Deshpande, S., O'Meara, S., dan Speak, K., 2013a, Foam dressings for healing diabetic foot ulcers, *Cochrane Database Syst. Rev.*, 2013, .
- Dumville, J.C., Deshpande, S., O'Meara, S., dan Speak, K., 2013b, Hydrocolloid dressings for healing diabetic foot ulcers, *Cochrane Database Syst. Rev.*, 2013,
- .



- Enoch, S., dan Leaper, D.J., 2008, Basic science surgery 26:2 31 Basic science of wound healing, 26, 37–42.
- Erol, A., 2018, High-Magnification SEM Micrograph of Siloxanes, *At. Microsc. Its Appl.*, 13.
- Fadlelmoula, A., Pinho, D., Carvalho, V.H., Catarino, S.O., dan Minas, G., 2022, Fourier Transform Infrared (FTIR) Spectroscopy to Analyse Human Blood over the Last 20 Years: A Review towards Lab-on-a-Chip Devices, *Micromachines*, 13, .
- Fadri, R.A., Roza, I., Tazar, N., dan Fajri, P.Y., 2022, Phytochemical Screening and Antioxidant Test of Arabika Roasted Coffee Bean Extract (Coffea arabica L.) from Agam Regency, *IOP Conf. Ser. Earth Environ. Sci.*, 1097, 0–7.
- Fatehi, P., dan Abbasi, M., 2020, Medicinal plants used in wound dressings made of electrospun nanofibers, *J. Tissue Eng. Regen. Med.*, 14, 1527–1548.
- Fatiqin, A., Amrulloh, H., Apriani, I., Lestari, A., Erawanti, B., Saputri, A., Gita, M., Fitrianti, M., Sathuluri, R.R., Kurniawan, Y.S., Wulan, R.M.S., dan Khan, M.S., 2021, A Comparative Study on Phytochemical Screening and Antioxidant Activity of Aqueous Extract from Various Parts of Moringa oleifera, *Indones. J. Nat. Pigment.*, 3, 43.
- Fguira, L.F. Ben, Fotso, S., Ameur-Mehdi, R. Ben, Mellouli, L., dan Laatsch, H., 2005, Purification and structure elucidation of antifungal and antibacterial activities of newly isolated Streptomyces sp. strain US80, *Res. Microbiol.*, 156, 341–347.
- Garcia-Orue, I., Gainza, G., Gutierrez, F.B., Aguirre, J.J., Evora, C., Pedraz, J.L., Hernandez, R.M., Delgado, A., dan Igartua, M., 2017, Novel nanofibrous dressings containing rhEGF and Aloe vera for wound healing applications, *Int. J. Pharm.*, 523, 556–566.
- Gonzalez, A.C.D.O., Andrade, Z.D.A., Costa, T.F., dan Medrado, A.R.A.P., 2016, Wound healing - A literature review, *An. Bras. Dermatol.*, 91, 614–620.
- Grandgirard, J., Poinsot, D., Krespi, L., Nénon, J.P., dan Cortesero, A.M., 2002, Costs of secondary parasitism in the facultative hyperparasitoid *Pachycrepoideus dubius*: Does host size matter?, *Entomol. Exp. Appl.*, 103, 239–248.
- Grosshagauer, S., Pirkwieser, P., Kraemer, K., dan Somoza, V., 2021, The Future of Moringa Foods: A Food Chemistry Perspective, *Front. Nutr.*, 8, 1–9.
- Guo, B., Zha, D., Li, B., Yin, P., dan Li, P., 2018, Polyvinyl alcohol microspheres reinforced thermoplastic starch composites, *Materials (Basel)*, 11, 1–8.
- Hartman, R.P.A., Brunner, D.J., Camelot, D.M.A., Marijnissen, J.C.M., dan Scarlett, B., 1999, Electrohydrodynamic atomization in the cone-jet mode physical modeling of the liquid cone and jet, *J. Aerosol Sci.*, 30, 823–849.
- Hećimović, I., Belščak-Cvitanović, A., Horžić, D., dan Komes, D., 2011, Comparative study of polyphenols and caffeine in different coffee varieties affected by the degree of roasting, *Food Chem.*, 129, 991–1000.
- Hossain, M.L., Lim, L.Y., Hammer, K., Hettiarachchi, D., dan Locher, C., 2022, A Review of Commonly Used Methodologies for Assessing the Antibacterial Activity of Honey and Honey Products, *Antibiotics*, 11, .
- Huang, C., Yuan, W., Chen, J., Wu, L.P., dan You, T., 2023, Construction of Smart



- Biomaterials for Promoting Diabetic Wound Healing, *Molecules*, 28, .
- Ibrahim, N.A., Bibi, S., Khan, A.K., dan Murtaza, G., 2022, Development and butyrylcholinesterase/monoamine oxidase inhibition potential of PVA-Moringa oleifera developed nanofibers, *J. Exp. Nanosci.*, 17, 34–46.
- Inkson, B.J., 2016, *Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM) for Materials Characterization*, Elsevier Ltd.
- Ivanova, N., Gugleva, V., Dobreva, M., Pehlivánov, I., Stefanov, S., dan Andonova, V., 2016, We are IntechOpen , the world ' s leading publisher of Open Access books Built by scientists , for scientists TOP 1 %, *Intech*, i, 13.
- Jatoi, A.W., Ogasawara, H., Kim, I.S., dan Ni, Q.Q., 2019, Polyvinyl alcohol nanofiber based three phase wound dressings for sustained wound healing applications, *Mater. Lett.*, 241, 168–171.
- Kailasa, S., Reddy, M.S.B., Maurya, M.R., Rani, B.G., Rao, K.V., dan Sadashivuni, K.K., 2021, Electrospun Nanofibers: Materials, Synthesis Parameters, and Their Role in Sensing Applications, *Macromol. Mater. Eng.*, 306, 1–36.
- Kejzlar, P., Švec, M., dan Macajová, E., 2014, The usage of backscattered electrons in scanning electron microscopy, *Manuf. Technol.*, 14, 333–336.
- Kenisa, Y.P., Istiati, I., dan J, W.S., 2012, Pengaruh Salep Biji Kopi Robusta Pada Penyembuhan Luka, *Maj. Kedokt. Gigi*, 45, 52.
- Khajavi, R., dan Damerchely, R., 2007, Effect of polyvinyl alcohol concentration in spinning dope on diameter, beads and HHS of produced nanofibers, *Pakistan J. Biol. Sci.*, 10, 314–317.
- Khalid, S., Arshad, M., Mahmood, S., Ahmed, W., Siddique, F., Khalid, W., Zarlasht, M., Asar, T.O., dan Hassan, F.A.M., 2023, Nutritional and phytochemical screening of Moringa oleifera leaf powder in aqueous and ethanol extract, *Int. J. Food Prop.*, 26, 2338–2348.
- Kharaghani, D., Gitigard, P., Ohtani, H., Kim, K.O., Ullah, S., Saito, Y., Khan, M.Q., dan Kim, I.S., 2019, Design and characterization of dual drug delivery based on in-situ assembled PVA/PAN core-shell nanofibers for wound dressing application, *Sci. Rep.*, 9, 1–11.
- Kharaghani, D., Kaffashsaei, E., Haider, M.K., dan Kim, I.S., 2023, The Effect of Polymeric Nanofibers Used for 3D-Printed Scaffolds on Cellular Activity in Tissue Engineering: A Review, *Int. J. Mol. Sci.*, 24, .
- Koch, K., dan Barthlott, W., 2009, Superhydrophobic and superhydrophilic plant surfaces: An inspiration for biomimetic materials, *Philos. Trans. R. Soc. A Math. Phys. Eng. Sci.*, 367, 1487–1509.
- Koch, K., Bhushan, B., dan Barthlott, W., 2008, Diversity of structure, morphology and wetting of plant surfaces, *Soft Matter*, 4, 1943–1963.
- Konaté, K., Mavoungou, J.F., Lepengué, A.N., Aworet-Samsen, R.R.R., Hilou, A., Souza, A., Dicko, M.H., dan M'Batchi, B., 2012, Antibacterial activity against β - lactamase producing Methicillin and Ampicillin-resistants *Staphylococcus aureus*: Fractional Inhibitory Concentration Index (FICI) determination, *Ann. Clin. Microbiol. Antimicrob.*, 11, 1.
- Li, J., Chen, J., dan Kirsner, R., 2007, Pathophysiology of acute wound healing, *Clin. Dermatol.*, 25, 9–18.
- Limpan, N., Prodpran, T., Benjakul, S., dan Prasarpran, S., 2012, Influences of



degree of hydrolysis and molecular weight of poly(vinyl alcohol) (PVA) on properties of fish myofibrillar protein/PVA blend films, *Food Hydrocoll.*, 29, 226–233.

- Linh, N.T.B., Padalhin, A.R., Lee, B.Y., dan Lee, B.T., 2015, Bilayer electrospun poly(vinyl alcohol)-gelatin mat and biphasic calcium phosphate-pectin-gelatin hydrogel for application in bone hemorrhage, *J. Bioact. Compat. Polym.*, 30, 424–435.
- Liu, C., Zhu, Y., Lun, X., Sheng, H., dan Yan, A., 2022, Effects of wound dressing based on the combination of silver@curcumin nanoparticles and electrospun chitosan nanofibers on wound healing, *Bioengineered*, 13, 4328–4339.
- Liu, X., Xu, H., Zhang, M., dan Yu, D.G., 2021, Electrospun medicated nanofibers for wound healing: Review, *Membranes (Basel)*, 11, .
- Magaldi, S., Mata-Essayag, S., Hartung De Capriles, C., Perez, C., Colella, M.T., Olaizola, C., dan Ontiveros, Y., 2004, Well diffusion for antifungal susceptibility testing, *Int. J. Infect. Dis.*, 8, 39–45.
- Miguel, S.P., Figueira, D.R., Simões, D., Ribeiro, M.P., Coutinho, P., Ferreira, P., dan Correia, I.J., 2018, Electrospun polymeric nanofibres as wound dressings: A review, *Colloids Surfaces B Biointerfaces*, 169, 60–71.
- Mostaço-Guidolin, L.B., Murakami, L.S., Nomizo, A., dan Bachmann, L., 2009, Fourier transform infrared spectroscopy of skin cancer cells and tissues, *Appl. Spectrosc. Rev.*, 44, 438–455.
- Mouro, C., Dunne, C.P., dan Gouveia, I.C., 2021, Designing New Antibacterial Wound Dressings: Development of a Dual Layer Cotton Material Coated with Poly(Vinyl Alcohol)_Chitosan Nanofibers Incorporating Agrimonie eupatoria L. Extract, *Molecules*, 26, .
- Nurman, S., Yulia, R., Irmayanti, Noor, E., dan Sunarti, T.C., 2020, The potential of arabica coffee grounds nanoparticles as an active compound of pharmaceutical preparations, *IOP Conf. Ser. Earth Environ. Sci.*, 425, .
- Oraby, M.A., Waley, A.I., El-Dewany, A.I., Saad, E.A., dan Abd El-Hady, B.M., 2013, Electropinning of Gelatin Functionalized with Silver Na-noparticles for Nanofiber Fabrication, *Model. Numer. Simul. Mater. Sci.*, 03, 95–105.
- Park, J.C., Ito, T., Kim, K.O., Kim, K.W., Kim, B.S., Khil, M.S., Kim, H.Y., dan Kim, I.S., 2010, Electrospun poly(vinyl alcohol) nanofibers: Effects of degree of hydrolysis and enhanced water stability, *Polym. J.*, 42, 273–276.
- Park, S.J., dan Seo, M.K., 2011, *Solid-Liquid Interface*.
- Percival, N.J., 2002, Classification of Wounds and their Management, *Surg.*, 20, 114–117.
- Petkovic, M., Vangmouritzen, M., Mojsoska, B., dan Jenssen, H., 2021, Immunomodulatory properties of host defence peptides in skin wound healing, *Biomolecules*, 11, .
- Pourhojat, F., Sohrabi, M., Shariati, S., Mahdavi, H., dan Asadpour, L., 2017, Evaluation of poly ε-caprolactone electrospun nanofibers loaded with Hypericum perforatum extract as a wound dressing, *Res. Chem. Intermed.*, 43, 297–320.
- Priyadarsini, S.L., Suresh, M., dan Nikhila, G., 2023, Assessment framework for the selection of a potential interactive dressing material for diabetic foot ulcer,



Heliyon, 9, e16476.

- Ranjha, M.M.A.N., Irfan, S., Lorenzo, J.M., Shafique, B., Kanwal, R., Pateiro, M., Arshad, R.N., Wang, L., Nayik, G.A., Roobab, U., dan Aadil, R.M., 2021, Sonication, a potential technique for extraction of phytoconstituents: A systematic review, *Processes*, 9, 1–21.
- Razzak, M.T., Darwis, D., Zainuddin, dan Sukirno, 2001, Irradiation of polyvinyl alcohol and polyvinyl pyrrolidone blended hydrogel for wound dressing, *Radiat. Phys. Chem.*, 62, 107–113.
- Reneker, D.H., dan Yarin, A.L., 2008, Electrospinning jets and polymer nanofibers, *Polymer (Guildf.)*, 49, 2387–2425.
- Rochardjo, H.S.B., Fatkhurrohman, Kusumaatmaja, A., dan Yudhanto, F., 2021, Fabrication of Nanofiltration Membrane based on Polyvinyl Alcohol Nanofibers Reinforced with Cellulose Nanocrystal using Electrospinning Techniques, *Int. J. Technol.*, 12, 329–338.
- Runti, G., Pacor, S., Colomban, S., Gennaro, R., Navarini, L., dan Scocchi, M., 2015, Arabica coffee extract shows antibacterial activity against *Staphylococcus epidermidis* and *Enterococcus faecalis* and low toxicity towards a human cell line, *Lwt*, 62, 108–114.
- Sabbatini, S., Conti, C., Orilisi, G., dan Giorgini, E., 2017, Infrared spectroscopy as a new tool for studying single living cells: Is there a niche?, *Biomed. Spectrosc. Imaging*, 6, 85–99.
- Samanta, A., Wang, Q., Shaw, S.K., dan Ding, H., 2020, Roles of chemistry modification for laser textured metal alloys to achieve extreme surface wetting behaviors, *Mater. Des.*, 192, 108744.
- Sarney, W.L., 2004, Sample Preparation Procedure for TEM Imaging of Semiconductor Materials, *Army Res. Laboratories*.
- SATO, H., O-Hori, M., dan Nakayama, K., 1982, Surface Roughness Measurement by Scanning Electron Microscope, *CIRP Ann. - Manuf. Technol.*, 31, 457–462.
- Shen, R., Guo, Y., Wang, S., Tuerxun, A., He, J., dan Bian, Y., 2023, Biodegradable Electrospun Nanofiber Membranes as Promising Candidates for the Development of Face Masks, *Int. J. Environ. Res. Public Health*, 20, .
- Smith, S.I., Seriki, A., dan Ajayi, A., 2016, Typhoidal and non-typhoidal *Salmonella* infections in Africa, *Eur. J. Clin. Microbiol. Infect. Dis.*, 35, 1913–1922.
- Sorg, H., Tilkorn, D.J., Hager, S., Hauser, J., dan Mirastschijski, U., 2017, Skin Wound Healing: An Update on the Current Knowledge and Concepts, *Eur. Surg. Res.*, 58, 81–94.
- Sridhar, R., Lakshminarayanan, R., Madhaiyan, K., Barathi, V.A., Hsiu, K., Lim, C., dan Ramakrishna, S., 2015, Chem Soc Rev nanofibers based on natural materials : applications in tissue regeneration , drug delivery, *Chem. Soc. Rev.*, 44, 790–814.
- Stokroos, I., Kalicharan, D., Van Der Want, J.J.L., dan Jongebloed, W.L., 1998, A comparative study of thin coatings of Au/Pd, Pt and Cr produced by magnetron sputtering for FE-SEM, *J. Microsc.*, 189, 79–89.
- Tracy, L.E., Minasian, R.A., dan Caterson, E.J., 2016, Extracellular Matrix and Dermal Fibroblast Function in the Healing Wound, *Adv. Wound Care*, 5, 119–



136.

- Uhljar, L.É., dan Ambrus, R., 2023, Electrospinning of Potential Medical Devices (Wound Dressings, Tissue Engineering Scaffolds, Face Masks) and Their Regulatory Approach, *Pharmaceutics*, 15, .
- Ullah, S., Hashmi, M., Khan, M.Q., Kharaghani, D., Saito, Y., Yamamoto, T., dan Kim, I.S., 2019, Silver sulfadiazine loaded zein nanofiber mats as a novel wound dressing, *RSC Adv.*, 9, 268–277.
- ustundag, C.R., dan Piskin, M.B., 2023, Investigation of electrospun poly (ϵ -caprolactone) fiber mats loaded with Calophyllum inophyllum essential oil for wound dressing applications: Morphology, drug release and in vitro evaluation, *Mater. Technol.*, 38, .
- Valgas, C., De Souza, S.M., Smânia, E.F.A., dan Smânia, A., 2007, Screening methods to determine antibacterial activity of natural products, *Brazilian J. Microbiol.*, 38, 369–380.
- Verno-Parry, K., 2000, Scanning electron microscopy: An introduction, *Elsevier*, 13, 40–44.
- Volynskii, A.L., Panchuk, D.A., Bol'Shakova, A. V., Yarysheva, L.M., dan Bakeev, N.F., 2011, Structure and properties of nanosized coatings deposited onto polymers, *Colloid J.*, 73, 587–604.
- Wade, R.J., dan Burdick, J.A., 2014, Advances in nanofibrous scaffolds for biomedical applications: From electrospinning to self-assembly, *Nano Today*, 9, 722–742.
- Weil, A.A., Becker, R.L., dan Harris, J.B., 2019, Vibrio cholerae at the Intersection of Immunity and the Microbiome , *mSphere*, 4, 1–16.
- Wilkinson, H.N., Hardman, M.J., dan Wilkinson, H.N., 2006, Wilkinson Dkk 2005, 1–160.
- Xiao, X., Wang, J., Meng, C., Liang, W., Wang, T., Zhou, B., Wang, Y., Luo, X., Gao, L., dan Zhang, L., 2020, Moringa oleifera Lam and its Therapeutic Effects in Immune Disorders, *Front. Pharmacol.*, 11, 1–9.
- Yang, J.M., Su, W.Y., Leu, T.L., dan Yang, M.C., 2004, Evaluation of chitosan/PVA blended hydrogel membranes, *J. Memb. Sci.*, 236, 39–51.
- Yousefi, I., Pakravan, M., Rahimi, H., Bahador, A., Farshadzadeh, Z., dan Haririan, I., 2017, An investigation of electrospun Henna leaves extract-loaded chitosan based nanofibrous mats for skin tissue engineering, *Mater. Sci. Eng. C*, 75, 433–444.
- Zahedi, P., Rezaeian, I., Ranaei-Siadat, S.O., Jafari, S.H., dan Supaphol, P., 2010, A review on wound dressings with an emphasis on electrospun nanofibrous polymeric bandages, *Polym. Adv. Technol.*, 21, 77–95.
- Zhang, W., Ronca, S., dan Mele, E., 2017, Electrospun nanofibres containing antimicrobial plant extracts, *Nanomaterials*, 7, 1–17.