DAFTAR PUSTAKA

Agnihotri, S., Mukherji, S., dan Mukherji, S., 2014, Size-Controlled Silver Nanoparticles Synthesized Over The Range 5-100 nm Using The Same Protocol and Their Antibacterial Efficacy, *Royal Society of Chemistry*, 4: 3974-3983.

Aksamitiene, E., 2012, *96-well Plate Template*, https://www.cellsignet.com/media/templ.html, 19 Mei 2024.

Algammal, A.M., Hetta, H.F., Elkelish, A., Alkhalifah, D.H.H., Hozzein, W.N., Batiha, G.E.S., Nahhas, N.E., dan Mabrok, M.A., 2020, Methicillin-Resistant *Staphylococcus aureus* (MRSA): One Health Perspective Approach to the Bacterium Epidemiology, Virulence Factors, Antibiotic-Resistance, and Zoonotic Impacts, *Infection and Drug Resistance*, 13: 3255-3265.

Alshammari, M., Ahmad, A., Alkhulaifi, M., Farraj, D.A., Alsudir, S., Alarawi, M., Takashi, G., dan Alyamani, E., 2023, Reduction of Biofilm Formation of *Escherichia coli* by Targeting Quorum Sensing and Adhesion Genes Using The CRISPR/Cas9-HDR Approach, and Its Clinical Application on Urinary Catheter, *Journal of Infection and Public Health*, 16 (8): 1174-1183.

Al-Wrafy, F.A., Al-Gheethi, A.A., Ponnusamy, S.K., Noman, E.A., dan Fattah, S.A., 2022, Nanoparticles Approach to Eradicate Bacterial Biofilm-Related Infections: A Critical Review, *Chemosphere*, 288 (2), https://doi.org/10.1016/j.chemosphere.2021.132603, 24 Mei 2024.

Anand, K.K.H., dan Mandal, B.K., 2015, Activity Study of Biogenic Spherical Silver Nanoparticles Towards Microbes and Oxidants, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 135: 639-645.

Arunasri, K., dan Mohan, S.V., 2019, Biofilms: Microbial Life on the Electrode Surface, dalam Mohan, S.V., Varjani, S., Pandey, A., (Eds.), *Biomass, Biofuels and Biochemicals, Microbial Electrochemical Technology*, Elsevier, 295-297.

Asworo, R.Y., dan Widwiastuti, H., 2023, Pengaruh Ukuran Serbuk Simplisia dan Waktu Maserasi terhadap Aktivitas Antioksidan Ekstrak Kulit Sirsak, *Indonesian Journal of Pharmaceutical Education*, 3 (2): 256-263.

Bacdive, 2023, *Staphylococcus aureus*, https://bacdive.dsmz.de/strain/14448, 28 Mei 2024.

Bahirrah, S., Satria, D., dan Yuwanda, C., 2023, Mobe Leaf (*Artocarpus lakoocha Buch. Ham*) Ethanol Extract's Antibacterial Activity on *Streptococcus mutans* Cell Membrane Leakage and Biofilm Formation: An In Vitro Study, *Dental Journal*, 56 (4): 226-232.

Bailly, C., 2021, Anticancer Mechanism of Artonin E and Related Prenylated Flavonoids From The Medicinal Plant *Artocarpus elasticus*, *Asian Journal of Natural Product Biochemistry*, 19 (2): 45-57.

Baygar, T., dan Ugur, A., 2017, *In Vitro* Evaluation of Antimicrobial and Antibiofilm Potentials of Silver Nanoparticles Biosynthesised by *Streptomyces griseorubens*, *IET Nanobiotechnology*, 11 (6): 677-681.

Bhat, M.P., Kumar, R.S., Rudrappa, M., Basavarajappa, D.S., Swamy, P.S., Almansour, A.I., Perumal, K., dan Nayaka, S., 2023, Bio-Inspired Silver Nanoparticles from *Artocarpus lakoocha* Fruit Extract and Evaluation of Their Antibacterial Activity and Anticancer Activity on Human Prostate Cancer Cell Line, *Applied Nanoscience*, 13: 3041-3051.

Bhattacharya, E., Dutta, R., Chakraborty, S., dan Biswas, S.M., 2019, Phytochemical Profiling of *Atocarpus lakoocha* Roxb. Leaf Methanol Extraxt and Its Antioxidant, Antimicrobial and Antioxidative Activities, *Asian Pacific Journal of Tropical Biomedicine*, 9 (11): 484-492.

Bishnoi, S.K., Shinde, R., dan Sarkar, P.K., 2017, Monkey Jack (*Artocarpus lakoocha* Roxb.): Hope for Sustaining Livelihood, dalam Dutta, A.K., Mondal, B., *Fruits for Livelihood: Production Technology and Management Practices*, Agrobios, India, 203-204.

Blois, M.S., 1958, Antioxidant Determination by the Use of a Stable Free Radical, *Nature*, 181, 1199-1200.

Boles, B.R., dan Horswill, A.R., 2008, *agr*-Mediated Dispersal of *Staphylococcus aureus* Biofilms, *PLoS Pathogens*, 4 (4): 1-13.

Brown, D.F., Edwards, D.L., Hawkey, P.M., Morrison, D., Ridgway, G.L., Towner, K.J., dan Wren, M.W.D., 2005, Guidelines for The Laboratory Diagnosis and Susceptibility Testing of Methicillin-Resistant *Staphylococcus aureus* (MRSA), *Journal of Antimicrobial Chemotherapy*, 56: 1000-1018.

Bruna, T., Maldonado-Bravo, F., Jara, P., dan Caro, N., 2021, Silver Nanoparticles and Their Antibacterial Applications, *International Journal of Molecular Sciences*, 22 (13): 4.

Burman, V., Kanaujia, H., Lehari, K., Aastha, Singh, N.P., dan Vaishali, 2019, Characterization of Phenolic Compounds of Turmeric Using TLC, *Journal of Pharmacognosy and Phytochemistry*, 994-998.

Cahyani, R.K., Susilowati, A., dan Sari, S.L.A., 2019, Tannins Inhibition of Tea Leaves (*Camellia sinensis*) Against *Escherichia coli* Diarrhea-Causing Bacteria, *Bioteknologi*, 16 (2): 48-52.

Charirak, P., dan Ratananikom, K., 2022, Anti-Methicillin-Resistant *Staphylococcus aureus* Activities of *Artocarpus lakoocha* Roxb Extract and Its Mode of Action, *The Scientific World Journal*, https://doi.org/10.1155%2F2022%2F1839356, 23 September 2023.

Choi, J.H., Seo, H.S., Lim, S.Y., dan Park, K., 2014, Cutaneous Immune Defenses Against *Staphylococcus aureus* Infections, *Journal of Lifestyle Medicine*, 4 (1): 39-46.

Clinical and Laboratory Standards Institute (CLSI), 2006, *Performance Standard for Antimicrobial Susceptibility Testing*, Sicteenth International Supplement, CLSI Document M100-S16, Clinical and Laboratory Standards Institute, Wayne, Pennsylvania, cit. Baygar, T., Ugur, A., 2017, *In Vitro* Evaluation of Antimicrobial and Antibiofilm Potentials of Silver Nanoparticles Biosynthesised by *Streptomyces griseorubens*, *IET Nanobiotechnology*, 11 (6): 677-681.

Clinical and Laboratory Standards Institute (CLSI), 2015, *Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically*,

Approved Standard, Edisi X, CLSI Document M07-A10, Clinical and Laboratory Standards Institute, Wayne, Pennsylvania, 19-20; 25; 28-30.

Cress, B.F., Englaender, J.A., He, W., Kasper, D., Linhardt, R.J., dan Koffas, M.A.G., 2014, Masquerading Microbial Pathogens: Capsular Polysaccharides Mimic Host-Tissue Molecules, *Federation of European Microbiological Societies Microbiology Reviews*, 38: 660-697.

Dalir, S.J.B., Djahaniani, H., Nabati, F., dan Hekmati, M., 2020, Characterization and The Evaluation of Antimicrobial Activities of Silver Nanoparticles Biosynthesized from *Carya illinoinensis* Leaf Extract, *Heliyon*, 6 (3).

Darmasiwi, S., Aramsirirujiwet, Y., dan Kimkong, I., 2022, Antibiofilm Activity and Bioactive Phenolic Compounds of Ethanol Extract from The *Hericium erinaceus* basidiome, *Journal of Advanced Pharmaceutical Technology & Research*, 13 (2): 111-116.

Donlan, R.M., 2002, Biofilms: Microbial Life on Surfaces, *Emerging Infectious Diseases*, 8 (9): 881-890.

Drexler, M., 2010, *What You Need to Know About Infectious Disease*, National Academy of Sciences, 4-10, https://www.ncbi.nlm.nih.gov/books/NBK209706/pdf/Bookshelf_NBK209706.pdf, 12 Oktober 2023.

Ekowati, N., Mumpuni, A., Ratnaningtyas, N.I., dan Maharning, A.R., 2020, Compounds Detection and Inhibition Activity of Chloroform and Ethyl Acetate Extracts of *Schizophyllum commune* on Some Cancer Cell Types, *Biodiversitas*, 21 (12): 5865-5871.

Filipiak, W., Sponring, A., Baur, M.M., Filipiak, A., Ager, C., Wiesenhofer, H., Nagl, M., Troppmair, J., dan Amann, A., 2012, Molecular Analysis of Volatile Metabolites Released Specifically by *Staphylococcus aureus* and *Pseudomonas aeruginosa*, 12 (1), http://dx.doi.org/10.1186/1471-2180-12-113, 24 Juni 2024.

Flemming, H.C., dan Wuertz, S., 2019, Bacteria and Archaea on Earth and Their Abundance in Biofilms, *Nature Reviews Microbiology*, 17: 247-260, cit. Muhammad, M.H., Idris, A.L., Fan, X., Guo, Y., Yu, Y., Jin, X., Qiu, J., Guan, X., dan Huang, T., 2020, Beyond Risk: Bacterial Biofilms and Their Regulating Approaches, *Frontiers in Microbiology*, 11 (928): 1-20.

Galib, A.G., dan Algfri, S.K., 2016, Phytochemical Screening and Antioxidant Evaluation by DPPH pf *Capparis cartilaginea* Decne Leaves, *Journal of Medicinal Plant Studies*, 4 (5): 280-286.

Gallegos, M.T., Vargas, P., dan Rodríguez-García, I., Antibacterial Actions of Flavonoids, dalam Govil, J.N., Pathak, M., 2015, *Recent Progress in Medicinal Plants*, Stadium Press LLC, Amerika Serikat, 105-111.

Gebreyohannes, G., Nyerere, A., Bii, C., dan Sbhatu, D.B., 2019, Challenges of Intervention, Treatment, and Antibiotic Resistance of Biofilm-Forming Microorganisms, *Heliyon*, 5 (8): 1-7.

Goodwine, J., Gil, J., Doiron, A., Valdes, J., Solis, M., Higa, A., Davis, S., dan Sauer, K., 2019, Pyruvate-Depleting Conditions Induce Biofilm Dispersion and Enhance the Efficacy of Antibiotics in Killing Biofilms *In Vitro* and *In*

Vivo, *Scientific Reports*, 9 (3763), https://doi.org/10.1038/s41598-019-40378-z, 9 Juni 2024.

Gould, I.M., dan Bal, A.M., 2013, New Antibiotic Agents in the Pipeline and How They Can Help Overcome Microbial Resistance, *Virulence*, 4 (2): 185-191.

Gowtam, P., dan Patel, R., 2014, *Artocarpus lacoocha* Roxb: An Overview, *European Journal of Complementary and Alternative Medicine*, 1 (1): 10-14, cit. Vanajakshi, M., Virupaksha, J.H., Maria, S., 2016, A Review on Pharmacological Actions of *Artocarpus lacoocha* Roxb., *Research Journal of Pharmacology and Pharmacodynamics*, 8 (4): 181-18.

Gwatidzo, L., Dzomba, P., dan Mangena, M., 2018, TLC Separation and Antioxidant Activity of Flavonoids from *Carissa bispinosa*, *Ficus sycomorus*, and *Grewia bicolar* fruits, *Nutrire*, 43 (3).

Hanafiah, O.A., Satria, D., dan Syafitri, A., 2021, Effects of 1% and 3% Mobe Leaf Extract Gel on Socket Wound Healing After Tooth Extraction, *dentika Dental Journal*, 24 (1): 1-5.

Harlim, A., 2019, *Buku Ajar Ilmu Kesehatan: Kulit dan Kelamin*, Fakultas Kedokteran Universitas Kristen Indonesia, Jakarta, 1.

Hasibuan, P.A.Z., dan Mardiana, 2018, Antioxidant Activity of *n*-Hexane, Ethyl Acetate and Ethanol Extract from Lakoocha Leaves (*Artocarpus lacucha* Buch.-Ham) using DPPH Method, *Indonesian Journal of Pharmaceutical and Clinical Research*, 1 (2): 40-47.

Hasriadi, dan Limpeanchob, N., 2018, *In Vitro* Cytotoxicity of *Artocarpus lakoocha* Aqueous Extract and Oxyresveratol in SH-SY5Y Cells, *IOP Publishing*, 1028, https://doi.org/10.1088/1742-6596/1028/1/012009, 21 Oktober 2023.

Hertiani dkk. unpublished data, 2023, Biosintesis, Karakterisasi dan Pengujian Aktivitas Antibakteri Nanopartikel Perak dari Ekstrak Daun Nangka (*Artocarpus integer*), Kluwih (*Artocarpus camansi*), dan Mobe (*Artocarpus lakoocha*) dengan Metode Iradiasi Gelombang Mikro, *Laporan Penelitian*, RKI 2023.

Heyne, K., 1987, *Tumbuhan Berguna Indonesia*, Jilid II, Badan Litbang Kehutanan, Terjemahan, Yayasan Sarana Wana Jaya, Jakarta.

Hou, S., Guo, J., Liu, L., Qiu, F., dan Liu, X., 2022, Antibacterial and Antibiofilm Activity of *Lagotis brachystachya* Extract Against Extended-Spectrum β-Lactamases-Producing *Escherichia coli* From Broiler Chickens, *Poultry Science*, 101 (1), https://doi.org/10.1016%2Fj.psj.2021.101555, 21 Oktober 2023.

Iaconis, A., De Plano, L.M., Caccamo, A., Franco, D., dan Conoci, S., 2024, Anti-Biofilm Strategies: A Focused Review on Innovative Approaches, *Microorganisms*, 12 (4), http://dx.doi.org/10.3390/microorganisms12040639, 15 Juni 2024.

Irianti, T., Puspitasari, A., dan Suryani, E., 2011, Aktivitas Penangkapan Radikal 2,2-Difenil-1-Pikrilhidrazil Oleh Ekstrak Etanolik Batang Brotowali (*Tinospora crispa (L.) Miers*) dan Fraksi-Fraksinya, *Majalah Obat Tradisional*, 16 (3): 139-146.

Ivanov, M., Novović, K., Malešević, M., Dinić, M., Stojković, D., Jovčić, B., dan Soković, M., 2022, Polyphenols as Inhibitors of Antibiotic Resistant

Bacteria – Mechanisms Underlying Rutin Interference with Bacterial Virulence, *Pharmaceuticals*, 15 (3).

Jemielita, M., Wingreen, N.S., dan Bassler, B.L., 2018, Quorum Sensingg Controls *Vibrio cholerae* Multicellular Aggregate Formation, *Microbiology and Infectious Diseases*, 7: 1-25.

Ji, H., Zhou, S., Fu, Y., Wang, Y., Mi, J., Lu, T., Wang, X., dan Lü, C., 2020, Size-Controllable Preparation and Antibacterial Mechanism of Thermo-Responsive Copolymer-Stabilized Silver Nanoparticles with High Antimicrobial Activity, *Material Science and Engineering: C*, 110, https://doi.org/10.1016/j.msec.2020.110735, 23 Juni 2024.

Joung, D.K., Mun, S.H., Choi, S.H., Kang, I.H., Kim, S.B., Lee, Y.S., Zhou, T., Kong, R., Choi, J.G., Shin, D.W., Kim, Y.C., Lee, D.S., dan Kwon, D.Y., 2016, Antibacterial Activity of Oxyresveratrol Against Methicillin-Resistant *Staphylococcus aureus* and Its Mechanism, 12: 1597-1584.

Kauffmann, A.C., dan Castro, V.S., 2023, Phenolic Compounds in Bacterial Inactivation: A Perspective from Brazil, *Antibiotics*, 12 (4)

Khatoon, Z., McTiernan, C.D., Suuronen, E.J., Mah, T.F., dan Alarcon, E.I., 2018, Bacterial Biofilm Formation on Implantable Devices and Approaches to Its Treatment and Prevention, *Heliyon*, 4 (12): 1-36.

Korshed, P., Li, L., Liu, Z., Mironov, A., Wang, T., 2019, Size-Dependent Antibacterial Activity for Laser-Generated Nanoparticles, *Journal of Interdisciplinary Nanomedicine*, 4 (1): 24-33.

Kostakioti, M., Hadjifrangiskou, M., dan Hultgren, S.J., 2013, Bacterial Biofilms: Development, Dispersal, and Therapeutic Strategies in the Dawn of the Postantibiotic Era, *Cold Spring Harbor Perspectives in Medicine*, 3 (4): 1-23.

Kranjec, C., Angeles, D.M., Mårli, M.T., Fernández, L., García, P., Kjos, M., dan Diep, D.B., 2021, Staphylococcal Biofilms: Challenges and Novel Therapeutic Perspectives, *Antibiotics (Basel)*, 10 (131): 1-28.

Kumar, M.B.S., Kumar, M.C.R., Bharath, A.C., Kumar, H.R.V., Kekuda, R.R.P., Nandini, K.C., Rakshitha, M.N., dan Raghavendra, H.L., 2010, Screening of Selected Biological Activities of *Artocarpus lakoocha* Roxb (*Moraceae*) Fruit Pericarp, *Journal of Basic and Clinical Pharmacy*, 1 (4): 239-245.

Lu, Z., Rong, K., Yang, H., dan Chen, R., 2013, Size-Dependent Antibacterial Activities of Silver Nanoparticles Against Oral Anaerobic Pathogenic Bacteria, *Journal of Materials Science: Materials in Medicine*, 24: 1465-1471

Mabinya, L.V., Mafunga, T., dan Brand, J.M., 2006, Determination of Ferulic Acid and Related Compounds by Thin Layer Chromatography, *African Journal of Biotechnology*, 5 (13): 1271-1273.

Macia, M.D., Rojo-Molinero, E., dan Oliver, A., 2014, Antimicrobial Susceptibility Testing in Biofilm-Growing Bacteria, *Clinical Microbiology and Infection*, 20 (10): 981-990.

Majoumouo, M.S., Sibuyi, N.R.S., Tincho, M.B., Mbekou, M., Boyom, F.F., dan Meyer, M., 2019, Enhanced Anti-Bacterial Activity of Biogenic Silver Nanoparticles Synthesized From *Terminalia mantaly* Extracts,

International Journal of Nanomedicine, 14, https://doi.org/10.2147%2FIJN.S223447, 20 Juni 2024.

Malaekeh-Nikouei, B., Bazzaz, B.S.F., Mirhadi, E., Tajani, A.S., dan Khameneh, B., 2020, The Role of Nanotechnology in Combating Biofilm-Based Antibiotic Resistance, *Journal of Drug Delivery Science and Technology*, 60, https://doi.org/10.1016/j.jddst.2020.101880, 28 Mei 2024.

Malaikozhundan, B., Vaseeharan, B., Vijayakumar, S., Sudhakaran, R., Gobi, N., dan Shanthini, G., 2016, Antibacterial and Antibiofilm Assessment of *Momordica charantia* Fruit Extract Coated Silver Nanoparticle, *Biocatalysis and Agricultural Biotechnology*, 8: 189-196.

Matilla-Cuenca, L., Gil, C., Cuesta, S., Rapún-Araiz, B., Žiemytė, M., Mira, A., Lasa, I., dan Valle, J., 2020, Antibiofilm Activity of Flavonoids on Staphylococcal Biofilms Through Targeting BAP Amyloids, *Scientific Reports*, 10, https://doi.org/10.1038%2Fs41598-020-75929-2, 21 Oktober 2023.

Mishra, S., Gupta, A., Upadhye, V., Singh, S.C., Sinha, R.P., dan Häder, D.-P., 2023, Therapeutic Strategies Against Biofilm Infections, *Life (Basel)*, 13 (172), https://doi.org/10.3390%2Flife13010172, 28 Mei 2024.

Miu, B.A., dan Dinischiotu, A., 2022, New Green Approaches in Nanoparticles Synthesis: An Overview, *Molecules*, 27 (19), https://doi.org/10.3390/molecules27196472, 20 Juni 2024.

Mohanta, Y.K., Biswas, K., Jena, S.K., Hashem, A., Abd_Allah, E.F., dan Mohanta, T.K., 2020, Anti-biofilm and Antibacterial Activities of Silver Nanoparticles Synthesized by the Reducing Activity of Phytoconstituents Present in the Indian Medicinal Plants, *Frontiers in Microbiology*, 11 (1143), https://doi.org/10.3389/fmicb.2020.01143, 22 Oktober 2023.

Moormeier, D.E., dan Bayles, K.W., 2017, *Staphylococcus aureus* Biofilm: A Complex Developmental Organism, *Molecular Microbiology*, 104 (3): 365-376.

Moormeier, D.E., Bose, J.L., Horswill, A.R., dan Bayler, K.W., 2014, Temporal and Stochatic Control of *Staphylococcus aureus* Biofilm Development, *mBio*, 5 (5): 1-12.

More, P.R., Pandit, S., Filippis, A.D., Franci, G., Mijakovic, I., dan Galdiero, M., 2023, Silver Nanoparticles: Bactericidal and Mechanistic Approach Against Drug Resistant Pathogens, *Microorganisms*, 11 (2), https://doi.org/10.3390%2Fmicroorganisms11020369, 23 Juni 2024.

Muhammad, M.H., Idris, A.L., Fan, X., Guo, Y., Yu, Y., Jin, X., Qiu, J. Guan, X., dan Huang, T., 2020, Beyond Risk: Bacterial Biofilms and Their Regulating Approaches, *Frontiers in Microbiology*, 11: 1-20.

Murphy, J.T., dan Walshe, R., 2011, Modeling Antibiotic Resistance in Bacterial Colonies Using Agent-Based Approach, dalam Dubitzky, W., Southgate, J., Fub, H., (Eds.), *Understanding the Dynamics of Biological Systems*, 131-154, Springer, New York.

Murthy, S.K., 2007, Nanoparticles in Modern Medicine: State of The Art and Future Challenges, *International Journal of Medicine*, 2 (2): 129-141.

Nadar, S., Khan, S., Patching, S.G., dan Omri, A., 2022, Development of Antibiofilm Therapeutics Strategies to Overcome Antimicrobial Drug Resistance, *Microorganisms*, 10 (2), https://doi.org/10.3390%2Fmicroorganisms10020303, 15 Juni 2024.

Nadgir, C.A., dan Biswas, D.A., 2023, Antibiotic Resistance and Its Impact on Disease Management, *Cureus*, 15 (4), https://doi.org/10.7759%2Fcureus.38251, 14 Juni 2024

Nassima, B., Nassima, B., dan Riadh, K., 2019, Antimicrobial and Antibiofilm Activities of Phenolic Compounds Extracted from *Populus nigra* and *Populus alba buds* (Algeria), *Brazilian Journal of Pharmaceutical Sciences*, 55, https://doi.org/10.1590/s2175-97902019000218114, 21 Oktober 2023.

Nath, P.C., dan Boruah, S., 2019, Antimicrobial Activity of Ethanolic and Methanolic Extract of *Artocarpus lakoocha* Wall. Ex Roxb. (Moraceae) Against Five Different Oral Bacterial Strains, *International Journal of Current Microbiology and Applied Sciences*, 8 (3): 1321-1325.

Ni, Q., Zhu, T., Wang, W., Guo, D., Li, Y., Chen, T., dan Zhang, X., 2024, Green Synthesis of Narrow-Size Silver Nanoparticles Using *Ginkgo biloba* Leaves: Condition Optimization, Characterization, and Antibacterial and Cytotoxic Activities, *International Journal of Molecular Sciences*, 25 (1913), https://doi.org/10.3390/ijms25031913, 20 Juni 2024.

Nwobodo, D.C., Ugwu, M.C., Anie, C.O., Al-Ouqaili, M.T.S., Ikem, J.C., Chigozie, U.V., dan Saki, M., 2022, Antibiotic Resistance: The Challenges and Some Emerging Strategies For Tackling a Global Menace, *Journal of Clinical Laboratory Analysis*, 37 (8): 1-10.

Oluwole, O.M., 2022, Biofilm: Formation and Natural Products' Approach To Control – A Review, *African Journal of Infectious Diseases*, 16 (2): 59-71.

Paczkowski, J.E., Mukherjee, S., McCready, A.R., Henke, B.R., dan Smith, C.D., 2017, Flavonoids Suppress *Pseudomonas aeruginosa* Virulence Through Allosteric Inhibition of Quorum-Sensing Receptors, *Microbiology*, 292 (10): 4064-4076.

Pecsok, R.L., Shields, L.D., Cairns, T., dan McWilliam, I.G., 1976, *Modern Methods of Chemical Analysis*, Edisi II, John Wiley & Sons, Canada, 41.

Peng, Q., Tang, X., Dong, W., Sun, N., dan Yuan, W., 2023, A Review of Biofilm Formation of *Staphylococcus aureus* and Its Regulation Mechanism, *Antibiotics*, 12 (12): 1-21.

Pinto, R.M., Soares, F.A., Reis, S., Nunes, C., dan Dijck, P.V., 2020, Innovative Strategies Toward the Disassembly of the EPS Matrix in Bacterial Biofilms, *Frontiers in Microbiology*, 11 (952), https://doi.org/10.3389%2Ffmicb.2020.00952, 28 Mei 2024.

Pittsa, B., Hamilton, M.A., Zelverc, N., dan Stewart, P.S., 2003, A Microtiter-Plate Screening Method for Biofilm Disinfection and Removal, *Microbiology Methods*, 54: 269-276.

Pubchem, 2023, *Artonin A*, https://pubchem.ncbi.nlm.nih.gov/compound/Artonin-A, 15 Oktober 2023.

Purnamasari, M.D., Harjono, dan Wijayanti, N., 2016, Sintesis Antibakteri Nanopartikel Perak Menggunakan Bioreduktor Ekstrak Daun Sirih dengan

Irradiasi *Microwave*, *Indonesian Journal of Chemical Science*, 5 (2): 152-158.

Quan, K., Hou, J., Zhang, Z., Ren, Y., Peterson, B.W., Flemming, H.-C., Mayer, C., Busscher, H.J., van der Mei, H.C., 2022, Water in Bacterial Biofilms: Pores and Channels, Storage and Transport Functions, *Critical Reviews in Microbiology*, 48 (3): 283-302.

Rabin, N., Zheng, Y., Opoku-Temeng, C., Du, Y., Bonsu, E., dan Sintim, H.O., 2015, Biofilm Formation Mechanisms and Targets for Developing Antibiofilm Agents, *Future Medicinal Chemistry*, 7 (4): 493-512.

Riedel, S., Hobden, J.A., Miller, S., Morse, S.A., Mietzner, T.A., Detrick, B., Mitchell, T.G., Sakanari, J.A., Hotez, P., dan Mejia, R., 2019, *Jawetz, Melnick & Adelberg's Medical Microbiology*, Edisi XXVIII, McGrawHill Education, Amerika Serikat, 167.

Roberts, J.A., Kruger, P., Paterson, D.L., dan Lipman, J., 2008, Antibiotic Resistance-What's Dosing Got to Do With It?, *Critical Care Medicine*, 36 (8): 2433-2440.

Romeo, L., Cariccio, V.L., Iori, R., Rollin, P., Bramanti, P., dan Mazzon, E., 2018, The α-Cyclodextrin/Moringin Complex: A New Promising Antimicrobial Agent Against *Staphylococcus aureus*, 23 (9), https://doi.org/10.3390/molecules23092097, 24 Juni 2024.

Roy, R., Tiwari, M., Donelli, G., dan Tiwari, V., 2018, Strategies for Combating Bacterial Biofilms: A Focus on Anti-Biofilm Agents and Their Mechanisms of Action, *Virulence*, 9 (1): 522-554.

Rumbaugh, K.P., dan Sauer, K., 2020, Biofilm Dispersion, *Nature Reviews Microbiology*, 18: 571-586.

Rutherford, S.T., dan Bassler, B.L., 2012, Bacterial Quorum Sensing: Its Role in Virulence and Possibilities for Its Control, *Cold Spring Harbor Perspectives in Medicine*, 2 (11): 1-25.

Salyer, S.W., 2007, Gynecological and Obstetric Emergencies, dalam Salyer, S.W., (Ed.), *Essential Emergency Medicine*, W.B. Saunders, 545-549.

Samanta, I., dan Bandyophadhyay, S., 2020, Staphylococcus, dalam Samanta, I., Bandyophadhyay, S., (Eds.), *Antimicrobial Resistance in Agriculture*, 196; 199-200; 204, Academic Press, New Delhi.

Santos, C.A., Lima, E.M.F., Franco, B.D. G.d.M., dan Pinto, U.M., 2021, Exploring Phenolic Compounds as Quorum Sensing Inhibitors in Foodborne Bacteria, *Frontiers in Microbiology*, 12 (735931), https://doi.org/10.3389/fmicb.2021.735931, 28 Mei 2024.

Sartini, S., Djide, M.N., dan Nainu, F., 2019, Correlation Phenolic Concentration to Antioxidant and Antibacterial Activities of Seceral Ethanolic Extracts From Indonesia, *IOP Publishing*, 1341 (7), https://doi.org/10.1088/1742-6596/1341/7/072009, 21 Oktober 2023.

Saxena, R., Sharma, R., dan Nandy, B.C., 2017, Chromatographic Determination of Phenolic Profile from *Punica granatum* Fruit Peels, *International Research Journal of Pharmacy*, 8 (1): 61-65.

Senhaji, B., Chebli, B., Mayad, E., Hamdouch, A., Heimeur, N., Chahid, A., dan Ferji, Z., 2017, Phytochemical Screening, Quantitative Analysis and

Antioxidant Activity of *Astericus imbricatus* and *Pulicaria mauritanica* Organic Extracts, *International Food Research Journal*, 24 (6): 2482-2489.

Sharma, S., Mohler, J., Mahajan, S.D., Schwartz, S.A., Bruggemann, L., dan Aalinkeel, R., 2023, Microbial Biofilm: A Review on Formation, Infection, Antibiotic Resistance, Control Measures, and Innovative Treament, *Microorganisms*, 11 (1614): 1-32.

Sheikh, S., dan Tale, V., 2017, Green Synthesis of Silver Nanoparticles: Its Effect on Quorum Sensing Inhibition of Urinary Tract Infection Pathogens, *Asian Journal of Pharmaceutical and Clinical Research*, 10 (5): 302-305.

Sherma, J., dan Fried, B., 1996, *Handbook of Thin-Layer Chromatography*, Edisi II, Marcel Dekker, New York, 3; 7; 20; 26.

Shin, W.S., 2016, Combination Antibacterial Therapy Against β-Lactam Drug Resistance, *Tesis*, University of Minnesota, Minnesota.

Singh, H., Desimone, M.F., Pandya, S., Jasani, S., Geoge, N., Adnan, M., Aldarhami, A., Bazaid, A.S., Alderhami, S.A., 2023, Revisiting the Green Synthesis of Nanoparticles: Uncovering Influences of Plant Extracts as Reducing Agents for Enhanced Synthesis Efficiency and Its Biomedical Applications, *International Journal of Nanomedicine*, 18: 4727-4750.

Singh, N., Rajwade, J., dan Paknikar, K.M., 2018, Transcriptome Analysis of Silver Nanoparticles Treated *Staphylococcus aureus* Reveals Potential Targets for Biofilm Inhibition, *Colloids and Surfaces B: Biointerfaces*, https://doi.org/10.1016/j.colsurfb.2018.12.032 , 25 Mei 2024.

Singhatong, S., Leelarungrayub, D., dan Chaiyasut, C., 2010, Antioxidant and Toxicity Activities of *Artocarpus lakoocha* Roxb. Heartwood Extract, *Journal of Medicinal Plants Research*, 4 (10): 947-953.

Sitorus, P., Muhammad, M., Cintya, H., dan Satria, D., 2021, Antibacterial and Antioxidant Activities of Ethanol Extract of *Artocarpus lacucha* Buch-Ham. Leaves Against *Propionibacterium acne*, *E3S Web of Conferences*, 332: 1-5.

Sitorus, P., Muhammad, M., Satria, D., dan Nasri, 2023, Antibacterial and Antioxidant Activities of Ethanol Extract of *Artocarpus lacucha* Buch-Ham. Leaves, *Food Research*, 7 (4): 360-364

Socfindo Conservation, 2024, *Mobe*, https://www.socfindoconservation.co.id/plant/630, 24 Juni 2024.

Sriyanti, I., dan Jauhari, J., 2019, Electrospun of Poly(vinyl Alcohol) Nanofiber as Carrier of *Garcinia mangostana* L. Pericarp Extract, *Journal of Physics: Conference Series*, 1170

Swidan, N.S., Hashem, Y.A., Elkhatib, W.F., dan Yassien, M.A., 2022, Antibiofilm Activity of Green Synthesized Silver Nanoparticles Against Biofilm Associated Enterococcal Urinary Pathogens, *Scientific Reports*, 12, https://doi.org/10.1038/s41598-022-07831-y, 22 September 2023.

Taylor, T.A., dan Unakal, C.G., 2023, *Staphylococcus aureus* Infection., dalam *StatPearls (Internet)*, Treasure Island (FL), StatPearls Publishing, https://www.ncbi.nlm.nih.gov/books/NBK441868/, 21 September 2023.

Teanpaisan, R., Senapong, S., dan Puripattanavong, J., 2014, *In Vitro* Antimicrobial and Antibiofilm Activity of *Artocarpus lakoocha* (Moraceae) Extract

Against Some Oral Pathogens, *Tropical Journal of Pharmaceutical Research*, 13 (7): 1149-1155.

Theos, K.R., Johnson, K.M., dan Johnson, D.W., 2019, *Staphylococcus aureus* Antibiotic Susceptibilities in Infections in an Outpatient Dermatology Office on O'ahu, *Hawai'i Journal of Medicine & Public Health*, 78 (5): 163-168.

Tiwari, J.N., Tiwari, R.N., dan Kim, K.S., 2012, Zero-Dimensional, One-Dimensional, Two-Dimensional and Three-Dimensional Nanostructured Materials for Advanced Electrochemical Energy Devices, *Progress in Material Science*, 57 (4): 724-803.

Tong, S.Y.C., Davis, J.S., Eichenberger, E., Holland, T.L., dan Fowler, V.G.Jr., 2015, *Staphylococcus aureus* Infections: Epidemiology, Pathophysiology, Clinical Manifestations, and Management, *Clinical Microbiology Reviews*, 28 (3): 603-661.

Toyofuku, M., Inaba, T., Kiyokawa, T., Obana, N., Yawata, Y., dan Nomura, N., 2016, Environmental Factors that Shape Biofilm Formation, *Bioscience, Biotechnology, and Biochemistry*, 80 (1): 7-12.

Tropicos, 2024, Artocarpus lakoocha *Wall. ex Roxb*, https://www.tropicos.org/name/50131999, 28 Mei 2024.

Turner, N.A., Sharma-Kuinkel, B.K., Maskarinec, S.A., Eichenberger, E.M., Shah, P.P., Carugati, M., Holland, T.L., dan Fowler, V.G.Jr., 2020, Methicillin-Resistant *Staphylococcus aureus*: An Overview of Basic and Clinical Research, *Nature Reviews Microbiology*, 17 (4): 203-218.

Usman, Y., dan Muin, R., 2023, Uji Kualitatif dan Perhitungan Nilai Rf Senyawa Flavonoid dari Ekstrak Daun Gulma Siam, *Journal of Pharmaceutical Science and Herbal Technology*, 1 (1): 10-15.

van Seventer, J.M., dan Hochberg, N.S., 2017, Principles of Infectious Diseases: Transmission, Diagnosis, Prevention, and Control, *International Encyclopedia of Public Health*, 6: 22-39.

Ventola, C.L., 2015, The Antibiotic Resistance Crisis, *Pharmacy and Therapeutics*, 40 (4): 277-283.

Waters, C.M., dan Bassler, B.L., 2005, Quorum Sensing: Cell-To-Cell Communication in Bacteria, *Annual Review of Cell and Development Biology*, 21: 319-346.

World Health Organization, 2020, *Antibiotic Resistance*, https://www.who.int/news-room/fact-sheets/detail/antibiotic-resistance, 21 September 2023.

World Health Organization, 2021, *10 Global Health Issues to Track in 2021*, https://www.who.int/news-room/spotlight/10-global-health-issues-to-track-in-2021, 21 September 2023.

World Health Organization, 2022, *Sekarang Saatnya Beraksi Menangkal Resistensi Antimikroba*, https://www.who.int/indonesia/id/news/detail/12-10-2022-time-to-act-to-curb-antimicrobial-resistance-now, 23 September 2023.

World Health Organization, 2022, *World Health Statistics 2022*, https://www.who.int/news/item/20-05-2022-world-health-statistics-2022, 12 Oktober 2023

Xu, P., Xu, X.B., Khan, A., Fotina, T., dan Wang, S.H., 2021, Antibiofilm Activity Against *Staphylococcus aureus* and Content Analysis of *Taraxacum officinale* Phenolic Extract, *Polish Journal of Veterinary Sciences*, 24 (1): 243-251.

Yamada, K.J., dan Kielian, T., 2019, Biofilm-Leukocyte Cross-Talk: Impact on Immune Polarization and Immunometabolism, *Journal of Inate Immunity*, 11: 280-288.

Yang, B., Lei, Z., Chao, Y., Ahmed, S., Wang, C., Zhang, S., Fu, S., Cao, J., dan Qiu, Y., 2017, Combination Susceptibility Testing of Common Antimicrobials *In Vitro* and The Effects of Sub-MUC of Antimicrobials on *Staphylococcus aureus* Biofilm Formation, *Frontiers in Microbiology*, 8, https://doi.org/10.3389/fmicb.2017.02125, 21 Oktober 2023.

Yuliani, C.R., Ramadhan, H., Sayakti, P.I., dan Torizella, C., 2022, Kadar Total Fenolik dan Flavonoid Fraksi N-Heksana Daun Binjai (*Mangifera caesia* Jack. Ex. Wall), *Jurnal Ilmiah Farmasi*, Special Edition: 11-19.

Zhang, X-F., Liu, Z-G., Shen, W., dan Gurunathan, S., 2016, Silver Nanoparticles: Synthesis, Characterization, Properties, and Therapeutic Approaches, *International Journal of Molecular Sciences*, 17 (9), https://doi.org/10.3390%2Fijms17091534, 14 Juni 2024.

Zhou, J.-W., Chen, T.-T., Tan, X.-J., Sheng, J.-Y., dan Jia, A.-Q., 2018, Can The Quorum Sensing Inhibitor Resveratrol Function as an Aminoglycoside Antibiotic Accelerant Against *Pseudomonas aeruginosa*, *International Journal of Antimicrobial Agents*, 52 (1): 35-41.

Zoragi, R., See, R.H., Axerio-Cilies, P., Kumar, N.S., Gong, H., Moreau, A., Hsing, M., Kaur, S., Swayze, R.D., Worrall, L., Amandoron, E., Lian, T., Jackson, L., Jiang, J., Thorson, L., Labriere, C., Foster, L., Brunham, R.C., McMaster, W.R., Finlay, B.B., Strynadka, N.C., Cherkasov, A., Young, R.N., dan Reiner, N.E., 2011, Identification of Pyruvate Kinase in Methicillin-Resistant *Staphylococcus aureus* as a Novel Antimicrobial Drug Target, *Antimicrobial Agents and Chemotherapy*, 55 (5): 2042-2053.