

DAFTAR PUSTAKA

- Amalia, N., Islawati, Hasanuddin, AR P., 2022, Uji Antibakteri Ekstrak Jahe emprit (*Zingiber officinale*) Terhadap Pertumbuhan Bakteri *Staphylococcus aureus* dengan Metode Difusi Cakram, *Nuhela Journal of Injury*, 1(1): 31-39.
- Ana, I. D., Lestari, A., Lagarrigue, P., Soulie, J., Anggraeni, R., Maube-Bosc, F., Thouron C., Duployer, B., Tenailleau, C., dan Drouet C., 2022, Safe-by-Design Antibacterial Peroxide-Substituted Biomimetic Apatites: Proof of Concept in Tropical Dentistry, *Journal of Functional Biomaterials*, 13(144): 1-23.
- Ana, I. D., Barlian, A., Hidajah, A. C., Wijaya, C. H., Notobroto, H. B., dan Wungu, T. D. K., 2021, Challenges and Strategy in Treatment with Wxosome for Cell-Free-Based Tissue Engineering in Dentistry, *Future Sci.*, 7(10).
- Anggraini, W., Nisa, S. C., Ramadhani, R., dan Ma'arif, B., 2019, Aktivitas Antibakteri Ekstrak Etanol 96% Buah Blewah (*Cucumis melo* L. var. *cantalupensis*) terhadap Pertumbuhan Bakteri *Eschericia coli*, *Pharmaceutical journal of Indonesia*, 5(1): 61-66.
- Baker, J. L., Welch, J. L. M., Kauffman, K. M., McLean, J. S., dan He, X., 2024, The Oral Microbiome: Diversity, Biogeography, and Human Health, *Nat Rev Microbiol.*, 22(2): 89-104.
- Barlian, A., Amsar, R. M., Prawitasari, S., Wijaya, C. H., Ana, I. D., dan Wungu, T. D. K., 2023, The Properties of Exosomes Derived from Mesenchymal Stem Cells Preconditioned with L-Ascorbic Acid and Cobalt (II) Chloride, *HAYATI Journal of Biosciences*, 30(6): 1100-1110.
- Bell, K. T., Salmon, C. M., Purdy, B. A., dan Canfield, S. G., 2023, Evaluation of Traxenamic Acid and Calcium Chloride in Major Traumas in A Prehospital Setting: A Narrative Review, *SHOCK*, 60(3): 325-332
- Cowan, M. K. dan Smith, H., 2018, *Microbiology: A System Approach*, 5th ed., McGraw-Hill Education, New York.
- Devitaningtyas, N., Syaify, A., Herawati, D., dan Suryono, 2020, Evaluation of Antibacterial Potential of Carbonated Hydroxyapatite Combined with Propolis on *Porphyromonas gingivalis*, *Trad. Med. J.*, 25(1): 55-58.
- Dianawati, N. dan Zulfira, M. R., 2023, Perbedaan antara Ekstrak Etanol Jahe Emprit (*Zingiber officinale* var. *Amarum*), Jahe Gajah (*Zingiber officinale* var. *Officinarum*), Jahe Merah (*Zingiber officinale* var. *Rubrum*) dalam Menghambat Bakteri *Streptococcus mutans*, *Bhakta Dental Jurnal*, 1(1): 13-18.

- Diaz-Garrido, N., Lozano, C. P., Kreth, J., dan Giacaman, R. A., 2022, Extended Biofilm Formation Time by *Streptococcus sanguinis* Modifies Its Non-Cariogenic Behavior, In Vitro, *Braz. Oral Res.*, 36(107): 1-11.
- Doyle, L. M. dan Wang, M. Z., 2019, Overview of Extracellular Vesicles, Their Origin, Composition, Purpose, and Methods for Exosome Isolation and Analysis, *Cells*, 8:272.
- Fathiah, 2022, Identifikasi Tanaman Jahe (*Zingiber officinale*) Berdasarkan Morfologi, *AGRIFOR*, 21(2): 341-352.
- Fatimah, S., Prasetyaningsih, Y., dan Baru, H. Y., 2021, Uji Efektivitas Ekstrak Gel Lidah Buaya (*Aloe vera*) terhadap Bakteri *Propionibacterium acnes*, *Forte Jurnal*, 1(2): 25-32.
- Fuadi, N. A. dan Sijid, S. A., 2021, Patofisiologi Penyakit pada Berbagai Sistem Organ Manusia, *Journal UIN Alauddin*, 53-58.
- Frantz, C., Stewart, K. M., dan Weaver, V. M., 2010, The Extracellular Matrix at a Glance, *Journal of Cell Science*, 123: 4195-4200.
- Handayani, H., Achmad, H., Suci, A. D., Firman, M., Mappangara, S., Ramadhany, S., Pratiwi, R., dan Wulansari D. P., 2018, Analysis of Antibacterial Effectiveness of Red Ginger Extract (*Zingiber officinale* var. *Rubrum*) Compared to White Ginger Extract (*Zingiber officinale* var. *Amarum*) in Mouth Cavity Bacterial *Streptococcus mutans* (In-Vitro), *Journal of International Dental and Medical Research*, 11(2): 676-681.
- Huang, K., Lin, B., Liu, Y., Ren, H., dan Guo, Q., 2022, Correlation Analysis between Chronic Osteomyelitis and Bacterial Biofilm, *Stem Cells Int.*, 1-8.
- Hayashi, K., Shimabukuro, M., Zhang, C., Alashkar, A. N. T., Kishida, R., Tsuchiya, A., dan Ishikawa, K., 2024, Silver Phosphate-modified Carbonate Apatite Honeycomb Scaffolds for Anti-infective and Pigmentation-free Bone Tissue Engineering, *Materials Today Bio*, 27, 1011161.
- Kalluri, R. dan LeBleu V. S., 2020, The Biology, Function, and Biomedical Application of Exosomes, *Science*, 367(6478).
- Karygianni, L., Ren, Z., Koo, H., dan Thurnheer, T., 2020, Biofilm Matrixome: Extracellular Components in Structured Microbial Communities, *Trends in microbiology*, 28(8): 668–681.
- Klemm EJ, Shakoor S, Page AJ, Qamar FN, Judge K, Saeed DK, Wong VK, Dallman TJ, Nair S, Baker S, Shaheen G, Qureshi S, Yousafzai MT, Saleem MK, Hasan Z, Dougan G, Hasan R. 2018. Emergence of an Extensively Drug-Resistant *Salmonella enterica* Serovar Typhi Clone Harboring a Promiscuous Plasmid Encoding Resistance to Fluoroquinolones and Third-Generation Cephalosporins. *mBio*. 9(1):e00105-18.

- Mahanani, E. S., Ana, I. D., Bachtiar, I., Xiao, Y., 2024, Resembling Mesenchymal Stem Cell Microenvironment with Growth Factors Loaded Synthetic Coral Matrix for Bone Tissue Engineering, 21: 1-14.
- Mu, J., Zhuang, X., Wang, Q., Jiang, H., Deng, Z., Wang, B., Zhang, L., Kakar, S., Jun, Y., Miller, D., dan Zhang, H., 2014, Interspecies Communication Between Plant and Mouse Gut Host Cells Through Edible Plant Derived Exosome-like Nanoparticles, *Mol. Nutr. Food Res.*, 58(7): 1561-1573.
- Naomi, R., Bahari, H., Ridzuan, P. M., dan Othman, F., 2021, Natural-Based Biomaterial for Skin Wound Healing (Gelatin vs. Collagen): Expert Review, *Polymers*, 13(2319): 1-20.
- Nepal, A., Tran, H. D. N., Nguyen, N. T., dan Ta, H. T., 2023, Advances in Haemostatic Sponges: Characteristics and the Underlying Mechanisms for Rapid Haemostasis, *Bioactive Materials*, 27: 231-256.
- Olthof, M. G. L., Kempen, D. H. R., Liu, X., Dadsetan, M., Tryfonidou, M. A., Yaszemski, M. J., Dhert, W. J. A., dan Lu, L., 2019, Effect of Biomaterial Electrical Charge on Bone Morphogenetic Protein-2-Induced In Vivo Bone Formation, *Tissue Engineering*, 25(13-14): 1037-1052.
- Ou, X., Wang, H., Tie, H., Liao, J., Luo, Y., Huang, W., Yu, R., Song, L., dan Zhu, J., 2023, Novel Plant-Derived Exosome-Like Nanovesicles from *Catharanthus Roseus*: Preparation, Characterization, And Immunostimulatory Effect Via TNF- α /NF- κ B/PU.1 Axis, *Journal of Nanobiotechnology*, 21(1).
- Pirofski, L. dan Casadevall, A., 2015, What is Infectiveness and How is It Involved in Infection and Immunity, *BMC Immunol.*, 16:13.
- Pitts, N. B., Twetman, S., Fisher, J., dan Marsh, P. D., 2021, Understanding Dental Caries as an Non-communicable Disease, *British Dental Journal*, 231(12): 749-753.
- Pramesti, H. T., 2016, *Streptococcus sanguinis* as an opportunistic species in human oral cavity: adherence, colonization, and invasion, *Padjadjaran Journal of Dent.*, 28(1): 45-52.
- Putra, H. P., Ulfa, E. U., Wulandari, L., 2023, Penentuan Kandungan Fenolik Total dan Model Klasifikasi Serbuk Rimpang Jahe Emprit (*Zingiber officinale* var. *Amarum Roscoe*) di Dataran Sedang dan Tinggi, *PHARMACY*, 20(2): 141-146.
- Rahyussalim, A. J., Supriadi, S., Marsetio, A. F., Pribadi, P. M., dan Suharno, B., 2019, The Potential of Carbonate Apatite as an Alternative Bone Substitute Material, *Medical Journal of Indonesia*, 28(1): 92-97.
- Ratnadewi, D., Widjaja, C. H., Barlian, A., Amsar, R. M., Ana, I. D., Hidajah, A. C., Notobroto, H. B., dan Wungu, T. D. K., 2023, Isolation of Native Plant-Derived Exosome-like Nanoparticles and Their Uptake by Human Cells, *HAYATI*, 30(1): 182-192.

- Roberts, W. E., Mangum, J. E., dan Schneider, P. M., 2022, Pathophysiology of Demineralization, Part II: Enamel White Spots, Cavitated Cares, and Bone Infection, *Curr Osteoporos Rep*, 20: 106-119.
- Saha, S., Chopra, A., Kamath, S. U., dan Kashyap, N. N., 2023, Can acid produced from probiotic bacteria alter the surface roughness, microhardness, and elemental composition of enamel? An in vitro study, *Odontology*, 111: 929-941.
- Sarasati, A., Syahrudin, M. H., Nuryanti, A., Ana, I. D., Barlian, A., Wijaya, C. H., Ratnadewi, D., Wungu, T. D. K., dan Takemori, H., 2023, Plant-derived Exosome-like Nanoparticles for Biomedical Applications and Regeneration Therapy, *biomedicines*, 11(1053): 1-27.
- Sari, D. dan Nasuha, A., 2021, Kandungan Zat Gizi, Fitokimia, dan Aktivitas Farmakologis pada Jahe (*Zingiber officinale* Rosc.): Review, *Journal of Bio Sci.*, 1(2): 11-18.
- Sasaki, M., Kodama, Y., Shimoyama, Y., Ishikawa, T., dan Kimura S., 2018, Aciduricity and Acid Tolerance Mechanisms of *Streptococcus anginosus*, *J. Gen. Appl. Microbiol.*, 64: 174-179.
- Shamsudin, N. F., Ahmed, Q. U., Mahmood, S., Shah, S. A. A., Khatib, A., Mukhtar, S., Alsharif, M. A., Parveen, H., dan Zakaria, Z. A., 2022, Antibacterial Effects of Flavonoids and Their Structure-Activity Relationship Study: A Comparative Interpretation, *molecules*, 27(1149): 1-43.
- Sihite, G. S., Setiadhi, R., dan Sugiaman, V. K., 2023, Efek Antibakteri Ekstrak Etanol Kulit Bawang Merah (*Allium ascalonicum*) terhadap *Streptococcus sanguinis*, *e-GiGi*, 11(2): 152-160.
- Suharta, S., Barlian, A., Hidajah, A. C., Notobroto, H. B., Ana, I. D., Indariani, S., Wungu, T. D. K., & Wijaya, C. H., 2021, Plant-derived exosome-like nanoparticles: A concise review on its extraction methods, content, bioactivities, and potential as functional food ingredient, *Journal of food science*, 86(7): 2838–2850.
- Takagi, T., Tsujimoto, H., Torii, H., Ozamoto, Y., dan Hagiwara, A., 2018, Two-layer sheet of gelatin: A new topical hemostatic agent. *Asian journal of surgery*, 41(2): 124–130.
- Thimmegowda, U., Belagatta, V., Chikkanarasaiah, N., & Bilichodmath, S., 2023, Identification and Correlation of *Streptococcus mutans* and *Streptococcus sanguinis* in Caries-active and Caries-free Children: A PCR Study. *International journal of clinical pediatric dentistry*, 16(1): 9–15.
- Valm, A. M., 2019, The Structure of Dental Plaque Microbial Communities in the Transition from Health to Dental Caries and Periodontal Disease, *J Mol Biol.*, 431(16): 2957-2969.

- Viršilė, A., Samuolienė, G., Laužikė, K., Šipailaitė, E., Balion, Z., dan Jekabsone A., 2022, Species-Specific Plant-Derived Nanoparticle Characteristics, *Plants*, 11(22).
- Wang, X., Shen, Y., Thakur, K., Han, J., Zhang, J. G., Hu, F., & Wei, Z. J., 2020, Antibacterial Activity and Mechanism of Ginger Essential Oil against *Escherichia coli* and *Staphylococcus aureus*. *Molecules (Basel, Switzerland)*, 25(17): 3955.
- Wangko, S. dan Karundeng, R., 2014, Komponen Sel Jaringan Ikat, *Jurnal Biomedik*, 6(3): 1-7.
- Zhang, M., Viennois, E., Prasad M., Zhang, Y., Wang, L., Zhang, Z., Han, M. K., Xiao, B., Xu, C., Srinivasan, S., dan Merlin, D., 2016, Edible Ginger-Derived Nanoparticles: A Novel Therapeutic Approach for the Prevention and Treatment of Inflammatory Bowel Disease and Crohn's-Associated Cancer, *Biomaterials*, 101: 321-340.
- Zhang, Y., Bi, J., Huang, J., Tang, Y., Du, S., dan Li, P., 2020, Exosomes: A Review of Its Classification, Isolation Techniques, Storage, Diagnostic and Targeted Therapy Applications, *International Journal of Nanomedicine*, 15: 6917-6934.
- Zhu, B., Macleod, L. C., Kitten, T., dan Xu, P., 2018, *Streptococcus sanguinis* biofilm formation and interaction with oral pathogens, *Future Microbiol.*, 13(8): 915-932.