DAFTAR PUSTAKA

Aghdam, M.A., Barhaghi, M.H.S., Aghazadeh, M., dan Jafari, F., (2017) Virulence Genes in Biofilm Producer *Enterococcus faecalis* Isolates From Root Canal Infections. *Cellular and molecular biology (Noisy-le-Grand, France)*. 63(5):55-59.

Alanazi, M.L., Alotaibi, N.L., Alasimi, S.M., Albleshi, H.M., Alturaif, D.J., dan Alaqeedi, M.F., (2022) The Effect of Failure Root Canal Treatment on the Tooth: A Systematic Review. *Saudi Journal of Oral and Dental Research.* 8(1):21-27.

AlBalawi, A.N., Elmetwalli, A., Barka, D.M., Alnagar, H.A., Alamri, E.A., dan Hassan, M.G., (2023) Chemical Constituents, Antioxidant Potential, and Antimicrobial Efficacy of *Pimpinella anisum* Extracts against Multidrug-Resistant Bacteria. *Microorganism.* 11(1204):1-20.

Aldulaimi, O.A., (2017) General Overview of Phenolics from Plant to Laboratory, Good Antibacterials or Not. *Pharmacognosy Reviews*. 11(22):123-127.

Alghamdi, F. dan Shakir, M., (2020) The Influence of *Enterococcus faecalis* as a Dental Root Canal Pathogen on Endodontic Treatment: A Systematic Review. *Cureus Journal,* 12(3):1-10.

Ali, M.M., Hashim, N., Aziz, S.A., dan Lasekan, O., (2020) Pineapple (*Ananas comosus*): A Comprehensive Review of Nutritional Values, Volatile Compounds, Health Benefits, and Potential Food Products. *Food Research International*. 137(10):1-13.

Ali, A., Bhosale, A., Pawar, S., Katki, A., Bichupuriya, A., dan Agwan, M.A., (2022) Current Trends in Root Canal Irrigation. *Cureus.* 14(5)1-8.

Alshareef, F., (2021) Protocol to Evaluate Antibacterial Activity MIC, FIC and Time Kill Method. *Acta Scientific Microbiology.* 4(5):2-6.

Arun, C., dan Sivashanmugam, P., (2015) Investigation of Biocatalytic Potential of Garbage Enzyme and Its Influence on Stabilization of Industrial Waste Activated Sludge. *Process Safety and Environmental Protection*. 94(1):471–478.

Assumi, S.R., Singh, P.T., dan Jha, A.K., (2021) *Tropical Fruit Crops: Theory to Practical.* 1st ed*.,* New Delhi:Jaya Publishing House. hal 487-541.

ATCC, (2022) Enterococcus faecalis (Andrewes and Horder) Schleifer and Kilpper-Balz 29212, https://www.atcc.org/products/29212 (29/03/2023).

Auer, G.K., dan Weibei, D.B., (2017) Bacterial Cell Mechanics. *Biochemistry.* 56(29):3710-3724.

Burmeister, A.R., (2015) Horizontal Gene Transfer. *Evolution, Medicine and Public Health*. 2015(1): 193–194.

Chandwani, N.D., Maurya, N., Nikhade, P., Chandwani, J., (2022) Comparative Evaluation of Antimicrobial Efficacy of Calcium Hydroxide, Triple Antibiotic Paste and Bromelain Against *Enterococcus faecalis*: An In Vitro Study. *Journal of Conservative Dentistry*. 25(1): 63-67.

Chulalaksananakul, S., Sinbuathong, N., dan Chulalaksananakul, W., (2012) Bioconversion of Pineapple Solid Waste under Anaerobic Condition through Biogas Production. *Khon Kaen University Res. J.* 17(5):734-742

Deng, Z., Lon, B., Liu, F., dan Zhao, W., (2023) Role of *Enterococcus faecalis* In Refractory Apical Periodontitis : from Pathogenicity to Host Cell Response. *Journal of Oral Microbiology*. 15(2184924):1-15.

De Sermeño, R.F., da Silva, L.A.B., Herrera, H., Herrera, H., Silva, R.A.B., dan Leonardo, M.R., (2009) Tissue Damage After Sodium Hypochlorite Extrusion During Root Canal Treatment. *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology.* 108(1):45-49.

Febrianti, S. N., Cevanti, T. A., dan Sumekar, H., (2016) The Secondary Metabolites Screening and the Effectiveness (*Ananas comosus* (L.) *Merr*) of the Queen Pineapple Stems in Decreasing the Number of Enterococcus faecalis's Colonies. *Jurnal Kedokteran Gigi*. 10(1):89-99.

Fitriyanti, Hendrawan, M.N.U., dan Aastuti, K.I., (2019) Bacterial Activity Test of Ethanol Extract Pineapple (*Ananas comosus* (L.) Merr.) Peel against Growth of Propionibacterium acnes. *Borneo Journal of Pharmacy*. 2(2):108-113.

Foerster, S., Unemo, M., Hathaway, L.J., Low, N., dan Althaus, C.L., (2016) Time-kill Curve Analysis and Pharmacodynamic Modelling for In Vitro Evaluation of Antimicrobials Against *Neisseria gonorrhoeae. BioMed Central Microbiology.* 16(216):1-11.

García-Solache, M. dan Rice, L.B., (2019) The Enterococcus: a Model of Adaptability to Its Environment. *Clinical Microbiology Reviews*. 32(2):1-28.

Garg, N. dan Garg, A., (2019) *Textbook of Endodontics*. 4th ed. New Delhi: Jaypee Brothers Medical Publisher. hal 224.

Ginting, N., Hasnudi, Yunilas, dan Prayitno, L., (2022) Dilution of Eco Enzyme and Antimicrobial Activity Against *Staphylococcus aureus*. *Jurnal Ilmu dan Teknologi Peternakan Tropis*. 9(1):123-128.

Gomes, B.F.A dan Herrera, D.R., (2018) Etiologic Role of Root Canal Infection in Apical Periodontitis and Its Relationship with Clinical Symptomatology. *Brazil Oral Research.* 32(1):82-110.

Gómez, F.S., dan Pablos, M.P.A., (2016) Pineapple Waste Extract for Preventing Oxidation in Model Food Systems. *Journal of Food Science.* 81(7):1622–1628.

Goudarzi, M., Mehdipour, M., Hajikhani, B., Sadeghinejad, S., dan Sadeghi-Nejad, B., (2019) Antibacterial Properties of Citrus limon and Pineapple Extracts on Oral Pathogenic Bacteria (*Streptococcus mutans* and *Streptococcus sanguis*). *International Journal of Enteric Pathogens.* 7(3):99-103.

Gunwantrao, B., Bhausaheb, S., Ramrao, B., dan Subhash, K., (2016) Antimicrobial Activity and Phytochemical Analysis of Orange (*Citrus aurantium L.*) and Pineapple (*Ananas comosus (L.) Merr.*) Peel Extract. *Annals of Phytomedicine*. 5(2):156–160.

Haapasalo, M., Shen, Y., Wang, Z., dan Gao, Y., (2014) Irrigation in Endodontics. *British Dental Journal,* 216(6):299–303.

Halima, R.D., Yuliawati, K.M., dan Kodir, R.A., (2020) Potensi Aktivitas Antibakteri Ekstrak Kulit Buah Nanas (*Ananas comosus (L.) Merr.*) terhadap Bakteri Gram Positif. *Prosiding Farmasi.* 6(2):806-810.

Halkai, R.S., Hegde, M.N., dan Halkai, K.R., (2016) Evaluation of Enterococcus faecalis Adhesion, Penetration, and Method to Prevent The Penetration of Enterococcus faecalis into Root Cementum: Confocal Laser Scanning Microscope

and Scanning Electron Microscope Analysis. *Journal of Conservative Dentistry*. 19(6):541–548.

Halstead, F.D., Rauf, M., Moiemen, N.S., Bamford, A., Wearn, C.M., Fraise, A.P., Lund, P.A., Oppenheim, B.A., dan Webber, M.A., (2015) The Antibacterial Activity of Acetic Acid against Biofilm-Producing Pathogens of Relevance to Burns Patients. *Public Library Of Science One.* 10(9):1-15.

Hargreaves, K.M. dan Berman, L.H., (2016) *Cohen's Pathways of the Pulp.* 11th ed. Canada: Elsevier. hal. 145.

Haq, L., Ichrom N.M.Y. dan Erlita, I., (2018) Efektivitas Senyawa Fenol Ekstrak Umbi Bawang Dayak (Eleutherine palmifolia (L.) Merr) terhadap Bakteri mix Saluran Akar. *Dentin Jurnal Kedokteran Gigi.* 2(1):7-12.

Hayati, Z., Desfiana, U.H., dan Suhartono, S., (2022) Distribution of Multidrug-Resistant Enterococcus faecalis and Enterococcus faecium Isolated from Clinical Specimens in The Zainoel Abidin General Hospital, Banda Aceh, Indonesia. *Biodiversitas*. 23(10):5033-5049.

Hikal, W.M., Mahmoud, A.A., Ahl, H.A.H.S., Bratovcic, A., Tkachenko, K.G., Kacaniova, M., dan Rodriguez, R.M., (2021) Pineapple (*Ananas comosus L. Merr.*), Waste Streams, Characterisation and Valorisation: An Overview. *Open Journal of Ecology.* 11(1):610-634.

Hossain, M. F., (2016) World Pineapple Production: An overview. *African Journal of Food, Agriculture, Nutrition and Development*. 16(4):11443–11456.

Hubble, T.S., Hatton, J.F., Nallapareddy, S.R., Murray, B.E., dan Gillespie, M. J., (2003) Influence of Enterococcus faecalis proteases and the collagen-binding protein, Ace, on adhesion to dentin. *Oral Microbiology and Immunology,* 18(2):121–126.

ITIS., (1998) Integrated Taxonomic Information System. Washington DC: Smithsonian Institution. *http://www.itis.gov* (5/03/2023).

Jhajharia, K., Parolia, A., Shetty, V., dan Mehta, L.K., (2015) Biofilm in Endodontics: A Review. *Journal of International Society of Preventive and Community Dentistry*. 5(1):1-12.

Kany, F., El-feky, E., dan Alnugaimish, D., (2012) The Antimicrobial Effect Of Commercial Acetic Acid Against Enterococcus Faecalis. *Journal of Applied Sciences Research*. 8(5): 2807-2811

Karlina, Muslim, I., dan Trimulyono, G., (2013) Aktivitas Antibakteri Ekstrak Herbal Krokot (Portulaca oleraceae L.) terhadap Staphylococcus aureus dan Escherichia coli. *Lentera Bio.* 2(1): 87-93.

Khalifa, L., Shlezinger, M., Beyth, S., Houri-Haddad, Y., Copenhagen-Glazer, S., Beyth, N., dan Hazan, R., (2016) Phage Therapy Against *Enterococcus faecalis* in Dental Root Canals. *Journal Oral Microbiology*. 8(1):1-14.

Kim, J.Y., Song, H.S., Kim, Y.B., Kwon, J., Choi, J.S., Cho, Y.J., Kim, B.Y., Rhee, J.K., Myoung, J., Nam, Y.D., dan Roh, S.W., (2016) Genome Sequence of A Commensal Bacterium, *Enterococcus faecalis* CBA7120, Isolated from A Korean Fecal Sample. *Genome Report.* 8(62);1-8.

Kiruthiga, A., Padmavathy, K., Shabana, P., Naveenkumar, V., Gnanadesikan, S., dan Mlaiyan, J., (2020) Improved detection of esp, hyl, asa1, gelE, cylA virulence

genes among clinical isolates of Enterococci. *BioMed Central Research Notes*. 13(170):1-7.

Klepser, M. E., Ernst, E. J., Lewis, R. E., Ernst, M. E., dan Pfaller, M. A., (1998) Influence of Test Conditions on Antifungal Time-Kill Curve Results: Proposal for Standardized Methods. *Antimicrobial Agents and Chemotherapy.* 42(5):1207-1212.

Kowalska-Krochmal, B., dan Dudek-Wicher, R., (2021) The Minimum Inhibitory Concentration of Antibiotics: Methods, Interpretation, Clinical Relevance. *Pathogens*. 10(2):

Kundukad, B., Schussman, M., Yang, K., Seviour, T., Yang, L., Rice, S. A., dan Doyle, P. S., (2017) Mechanistic action of weak acid drugs on biofilms. *Scientific Reports.* 7(1):1-12.

Kuswandani, F., Satari, M.H., dan Maskoen, A.M., (2019) Antimicrobial Efficacy of Myrmecodia pendens Extract and Fraction Combination against *Enterococcus faecalis* ATCC 29212. *Journal of Dentistry Indonesia.* 26(3):119-125.

Liliany, D., Widyarman, A.S., Erfan, E., Sudiono, J., dan Djamil, M.S., (2018) Enzymatic Activity of Bromelain Isolated Pineapple (*Ananas comosus*) Hump and Its Antibacterial Effect on *Enterococcus faecalis. Scientific Dental Journal.* 2(2018):41-52.

Lim, G., Janu, U., Chiou, L.L., Gandhi, K.K., Palomo, L., dan John, V., (2020) Periodontal Health and Systemic Condition. *Dentistry Journal.* 8(4):1-12.

Liu, F., Sun, Z., Wang, F., Liu, Y., Zhu, Y., Du, L., Wang, D., dan Xu, W., (2020) Inhibition of Biofilm Formation and Exopolysaccharide Synthesis of Enterococcus faecalis by Phenyllactic Acid. *Food Microbiology.* 86(2020): 1-39.

Lubaina, A.S., Renjith, P.R., dan Kumar, P., (2019) Antibacterial Potential of Different Extracts of Pineapple Peel against Gram-Positive and Gram-Negative Bacterial Strains. *Asian Journal of Pharmacy and Pharmacology*. 5(1):66-70.

Loon, Y.K., Satari, M.H., dan Dewi, W., (2018) Antibacterial Effect of Pineapple (Ananas comosus) Extract Towards Staphylococcus aureus. *Padjadjaran Journal of Dentistry*. 30(1): 1-6.

Mahon, C. R., Lehamn, D. C., dan Manuselis, G., (2015) *Textbook of Diagnostic Microbiology. 5* th ed. China: Elsevier. hal. 308.

Mallick, R., Mohanty, S., Behera, S., Sarangi, P., Nanda, S., dan Satapathy, S.K., (2014) *Enterococcus faecalis*: A Resistant Microbe in Endodontics. *International Journal of Contemporary Dental and Medical Reviews*. 1(1):1-2.

Martinez, C.C., Gilbert, M.C.G., Lapiolo, M.A.M., Varona, F.D., Ortega, H.D., dan Ciodaro, A.R., (2015) Low Frequency of Enterococcus faecalis In The Oral Mucosa of The Subjects Attending Dental Consultation. *Revistas Faculty Odontology University Antioq*. 26(2): 57-66.

Mathew, L.M. dan Somasundaram, M., (2020) Complications of Root Canal Irrigation - A Review. *Indian Journal of Public Health Research & Development*. 11(6):390-394.

Mavani, H.A.K., Tew, I.M., Wong, L., Yew, H.Z., Mahyuddin, A., Ghazali, R.A., dan Pow, E.H.N., (2020) Antimicrobial Efficacy of Fruit Peels Eco-Enzyme against *Enterococcus faecalis* : An In Vitro Study. *International Journal of Environmental Research and Public Health.* 17(5107):1-12.

Miklasińska-Majdanik, M., Kępa, M., Wojtyczka, R., Idzik, D., Wąsik, T., (2018) Phenolic Compounds Diminish Antibiotic Resistance of *Staphylococcus Aureus* Clinical Strains. *International Journal of Environmental Research and Public Health.* 15(10):1-18.

Minogue, T.D., Daligault, H.E., Davenport, K.W., Broomali, S.M., Bruce, D.C., Chain, P.S., Coyne, S.R., Chertkov, O., Freitas, T., Gibbons, H.S., Jaissle, J., Koroleva, G.I., Ladner, J.T., Palacios, G.F., Rosenzweig, C.N., Xu, Y., dan Johnson, S.L., (2014) Complete Genome Assembly of Enterococcus faecalis 29212, a Laboratory Reference Strain. *Genome Announcements.* 2(5):1-2.

Moryl, M., Palatyriska-ULatowska, A., Maszewska, A., Grzejdziak, I., Oliviera, S.D., Pradebon, M.C., Steier, L., Rozalski, A., dan Figueiredo, J.A.P., (2022) Benefits and Challenges of the Use of Two Novel vB_Efa29212_2e and vB_Efa29212_3e Bacteriophages in Biocontrol of the Root Canal *Enterococcus faecalis* Infections. *Journal Clinical Medicine.* 11(21):1-14.

Mubarak, Z. dan Soraya, C. (2018) The acid tolerance response and pH adaptation of Enterococcus faecalis in extract of lime Citrus aurantiifolia from Aceh Indonesia. *F1000Research*. 7(287):1-15.

Najafi, K., Ganbarov, K., Gholizadeh, P., Tanomand, A., Rezaee, M. A., Mahmood, S.S., dan Kafil, H. S., (2019) Oral cavity infection by Enterococcus faecalis : Virulence Factors and Pathogenesis. *Reviews in Medical Microbiology.* 31(2):1-10.

Nugraha, A.C., Prasetya, A.R., dan Mursiti, S. (2017) Isolasi, Identifikasi, Uji Aktivitas Senyawa Flavonoid sebagai Antibakteri dari Daun Mangga. *Indonesian Journal of Chemical Science*. 6(2): 91-96.

Nugroho, J.J., dan Basir, I. (2022) Endodontic Reintervention on Tooth with Apicalis Periodontitis: A case report. *Journal of Case Reports in Dental Medicine.* 4(1):6-9.

Nurnaningsih, H., dan Laela, D.S., (2022) Efektivitas daya antibakteri berbagai konsentrasi enzim bromelain dari ekstrak buah nanas *Ananas comosus (L.) Merr*. terhadap *Streptococcus mutans* secara *in-vitro. Padjadjaran Journal of Dental Researchers and Students*. 6(2):75-82.

Olajuyigbe, O.O. dan Afolayan, A.J., (2012) In Vitro Antibacterial and Time-Kill Evaluation of the *Erythrina caffra Thunb*. Extract against Bacteria Associated with Diarrhoea. *The Scientific World Journal*. 2012(1):1-8.

Oyedeji, O., Taiwo, F.O., Ajayi. O.S., Ayinde, F., Oziegbe, M., dan Oseghare, C.E., (2015) Biocidal and Phytochemical Analysis of Leaf Extracts of Annona muricata (Linn.). *International Journal of Sciences: Basic and Applied Research*. 24(7):76-87

Permatananda, P.A.Y.K., Pandit, I.G.S., Cahyawati, P.N., dan Aryastuti, A.A.S.A., (2023) Antimicrobial Properties of Eco Enzyme: A Literature Review. *Bioscientia Medicina: Journal of Biomedicine and Translational Research*. 7(6):3370-3376.

Peterson, B.W., Sharma, P.K., Mei, H.C.V.D., dan Busscher, H.J., (2012) Bacterial Cell Surface Damage Due to Centrifugal Compaction. *Applied and Environmental Microbiology*. 78(1):120-125.

Pietrzycka, K., Radwanski, M., Hardan, L., Bourgi, R., Mancino, D., Haikel, Y., dan Lukomska-Szymanska, M., (2022) The Assessment of Quality of the Root Canal

Filling and the Number of Visits Needed for Completing Primary Root Canal Treatment by Operators with Different Experience. *Bioengineering*. 9(9): 468.

Pintor, A.V.B., dos Santos, M.R.M., Ferreira, D.M., Barcelos, R., Primo, L.G., dan Maia, L.C., (2016) *D*oes Smear Layer Removal Influence Root Canal Therapy Outcome? A Systematic Review. *Journal of Clinical Pediatric Dentistry.* 40(1):1–7.

Prasetio, V.M., Ristiawati, T., dan Philiyanti, F., (2021) Manfaat Eco Enzyme Pada Lingkungan Hidup Serta Workshop Pembuatan Eco Enzyme. *Jurnal Pengabdian Kepada Masyarakat.* 1(1): 21-29.

Praveen, N.C., Rajesh, A., Madan, M., Chaurasia, V.R., Hiremath, N.V., dan Sharma, A.M., (2014) *In vitro* Evaluation of Antibacterial Efficacy of Pineapple Extract (Bromelain) on Periodontal Pathogens. *Journal of International Oral Health*. 6(5):96-98.

Putri, R.M.A., Yuanita, T., dan Roelianto, M., (2016) Daya anti bakteri ekstrak kulit nanas (*Ananas comosus*) terhadap pertumbuhan bakteri *Enterococcus faecalis. Conservative Dentistry Journal*. 6(2):61-65.

Qassim, (2012) Antimicrobial Irrigants in the Endodontic Therapy. *International Journal of Health Sciences*. 6(2):186-192.

Qureshi, K.A., Imtiaz, M., Parvez, A., Kai, P.K., Jaremko, M., Emwas, A.H., Bholay, A.D., dan Fatmi, M.Q., (2022) In Vitro and In Silico Approaches for the Evaluation of Antimicrobial Activity, Time-Kill Kinetics, and Anti-Biofilm Potential of Thymoquinone (2-Methyl-5-propan-2-ylcyclohexa-2,5-diene-1,4-dione) against Selected Human Pathogens. *Antibiotics.* 11(1):1-23.

Rahmi, H., Widayanti, A., dan Hanif, A., (2019) Utilization of Bromelain Enzyme from Pineapple Peel Waste on Mouthwash Formula Against Streptococcus mutans. I*OP Conference Series: Earth and Environmental Science*. 217(1):1-4.

Ramadani, A. H., Karima, R., dan Ningrum, R.S., (2022) Antibacterial Activity of Pineapple Peel (*Ananas comosus*) Eco-enzyme Against Acne Bacteria (*Staphylococcus aureus* and *Propionibacterium acnes*). *Indonesian Journal of Chemical Research.* 9(3):201-207.

Retamozo, B., Sbababang, S., Johnson, N., Aprecio, R.M., dan Torabinejad, M., (2010) Minimum Contact Time and Concentration of Sodium Hypochlorite Required to Eliminate Enterococcus faecalis. *Journal of Endodontics*. 36(3):520–523.

Riset Kesehatan Dasar (Riskesdas), (2018) Badan Penelitian dan Pengembangan Kesehatan Kementerian Republik Indonesia tahun 2018, *http://repository.bkpk.kemkes.go.id/3514/1/Laporan%20Riskesdas%202018%20Nasional.pdf* (23/12/2022).

Rohmah, N.U., Astuti, A.P., dan Maharani, E.T.W., (2020) Organoleptic Test of The Ecoenzyme Pineapple Honey with Variations in Water Content. *Seminar Nasional Edusaintek.* 4(2020):408-414.

Rusdianasari, Syakdani, A., Zaman, M., Sari, F.F., Nasyta, N.P., dan Amalia, R., (2021) Production of Disinfectant by Utilizing Eco-enzyme from Fruit Peels Waste. *International Journal of Research in Vocational Studies*. 1(3):1-7.

Safadi, S., Maan, H., Kolodkin-Gal, I., Tsesis, I., dan Rosen, E., (2022) The Products of Probiotic Bacteria Effectively Treat Persistent *Enterococcus faecalis* Biofilms. *Journal Pharmaceutics.* 4(4):1-11.

Saffari, F., Sobhanipoor, M.H., Shahravan, A., dan Roya, A., (2018) Virulence Genes, Antibiotic Resistance and Capsule Locus Polymorphisms in *Enterococcus faecalis* isolated from Canals of Root-Filled Teeth with Periapical Lesions. *Infection & Chemotherapy.* 50(4):340-345.

Saputera, M.M.A., Marpaung, T.W.A., dan Ayuchecaria, N., (2019) Konsentrasi Hambat Minimum (KHM) Kadar Ekstrak Etanol Batang Bajakah Tampala (*Spatholobus littoralis Hassk)* terhadap Bakteri *Escherichia coli* Melalui Metode Sumuran. *Jurnal Ilmiah Manuntung*. 5(2):167-173.

Saramanda, G. dan Kaparapu, J., (2017) Antimicrobial Activity of Fermented Citrus Fruit Peel Extract. *Int. Journal of Engineering Research and Application*. 7(11):25-28.

Saraswaty, V., Risdian, C., Primadona, I., Andriyani, R., Andayani, D.G.S., dan Mozef, T., (2017) Pineapple peel wastes as a potential source of antioxidant compounds. *IOP Conference Series: Earth and Environmental Science*. 60(2017):1-5.

Shah, K., Vimala, N., Naykodi, T., Dharmadikari, S., dan Padhye, L., (2016) Endo-Perio Restorative Continuum-A Case Report. *International Journal of Oral Health Dentistry*. 2(4):265-267.

Shehab N.F., Zakaria N.A., dan Taha, M.Y., (2019) Efficiency of sodium hypochlorite as root canal disinfectant against *Enterococcus faecalis*: An in vitro study. *ECronicon Microbiology.* 15(4):288–294.

Siqueira Jr., J.F., Rocas, N.I., Ricucci, D., dan Hulsmann, M., (2014) Causes and management of post-treatment apical periodontitis. *British Dental Journal.* 216(6):305-312.

Sistem Informasi Pengelolaan Sampah Nasional (SIPSN), (2022) Capaian Kinerja Pengelolaan Sampah 2022, *https://sipsn.menlhk.go.id/sipsn/#* (23/12/2022).

Suerni, E., Alwi, M., dan Guli, M.M., (2013) Uji Daya Hambat Ekstrak Buah Nanas (Ananas comosus L.Merr.), Salak (Salacca edulis Reinw.) dan Mangga Kweni (Mangifera odorata Griff.) terhadap Daya Hambat Staphylococcus aureus. *Biocelebes.* 7(1):35-47.

Suwandi, T., Kuntjoro, K.N., dan Tjandrawinata, J.A., (2022) Laporan Kasus Keberhasilan Perawatan Kombinasi Lesi Endo-Perio pada Gigi Insisivus Sentral dengan Kegoyangan Derajat 3. *Jurnal Kedokteran Gigi Universitas Padjajaran.* 4(3):281-288.

Tabassum, S., dan Khan, F., (2016) Failure of Endodontic Treatment : The Usual Suspect. *European Journal of Dentistry.* 10(1):144-147.

Tambayong, A.J., Lunardhi, C.G.J., dan Widjiastuti, I., (2018) Differences in Photodynamic Therapy Exposure Time and *Staphylococcus aureus Counts. Dental Journal Majalah Kedokteran Gigi*. 51(2):95-98.

Taglialegna,A., Matilla-Cuenca, L., DOrado-Morales, P., Navarro, S., Ventura, S., Garnett, J.A., Lasa, I., dan Valle, J., (2020) The Biofilm-Associated Surface Protein Esp of Enterococcus faecalis Forms Amyloid-like Fibers. *Biofilm and Microbiomes*. 15(2020):1-12.

Thakur, V., Fatima, A., Shabir, H., Kour, P., Chauhan, M., Shahi, S., dan Raina, S., (2021) Management of Apical Periodontitis in Dental Clinic. *Journal of Current Medical Research and Opinion.* 4(1):751-754.

Tiburcio-Machado, C.S., Michelon, C., Zanatta, F.B., Gomes, M.S., Marin, J.A., dan Bier, C.A., (2020) The Global Prevalence of Apical Periodontitis: A Systematic Review and Meta-analysis. *International Endodontic Journal.* 54(5):712-735.

Tyne, V., Martin, M.J., dan Gilmore, M.S., (2013) Structure, Function, and Biology of the Enterococcus faecalis Cytolysin. *Toxins*. 5(5): 895-911.

Uchoi, D., Raju, C.V., Lakshmisha, R.R., Singh, R.R., dan Elavarasan, K., (2017) Antioxidative Effect of Pineapple Peel Extracts in Refrigerated Storage of Indian Mackerel. *Fishery Technology*. 54(2020):42-50.

Unanma, H.C., Anaduaka, E.G., Uchendu, N.O., Ononiwu, C.P., dan Ogugua, V.N., (2021) Ananas comosus and Citrus sinensis Peels Ameliorate CCl4-Induced Liver Injury in Wistar Rats. *Scientific African*. 14(1):1-7.

Urumugam, A. dan Ponnusami, V., (2013) Pineapple fruit bromelain recovery using recyclable functionalized ordered mesoporous silica synthesized from sugarcane leaf ash Brazilian. *Journal of Chemical Engineering.* 30(3):477-486.

Villacís-Chiriboga, J., Elst, K., Van Camp, J., Vera, E., dan Ruales, J., (2020) Valorization of Byproducts from Tropical Fruits: Extraction Methodologies, Applications, Environmental, and Economic Assessment: A review (Part 1: General Overview of The Byproducts, Traditional Biorefinery Practices, and Possible Applications). *Comprehensive Reviews in Food Science and Food Safety*. 19(2):405–447.

Wafa, N., Sofiane, G., dan Mouhamed, K., (2016) The Antioxidant and Antimicrobial Activities of Flavonoids and Tannins Extracted from Phlomis bovei De Noé. *European Journal of Experimental Biology.* 6(3):55-61.

Wang, Z., Shen, Y., dan Haapasalo, M., (2014) Dentin Extends the Antibacterial Effect of Endodontic Sealers against Enterococcus faecalis Biofilms. *Journal of Endodontics.* 40(4), 505–508.

Wang, S., Liu, K., Seneviratne, C.J., Li, X., Cheung, G.S.P., Jin, L., Chu, C.H., dan Zhang, C. (2015) Lipoteichoic Acid from An Enterococcus faecalis Clinical Strain Promotes TNF-α Expression Through the NF-κB and p38 MAPK Signaling Pathways in Differentiated THP-1. Macrophages. *Biomedical Reports.* 3(1):697-702.

Widyarman, A.S. dan Lazaroni, N.K.E., (2019) Persistent Endodontics Pathogens Biofilm Inhibited by *Lactobacillus reuteri* Indonesian Strain, *Journal of Dentistry Indonesia.* 26(3):160-164.

Wong, J., Manoil, D., Nasman, P., Belibasakis, G.N., dan Neelakantan, P., (2021) Microbiological Aspects of Root Canal Infections and Disinfection Strategies: An Update Review on the Current Knowledge and Challenges. *Frontiers in Oral Health*. 2(1):1-19.

Xue, P., Yao, Y., Yang, X.S., Feng, J., dan Ren, G.X., (2017) Improved Antimicrobial Effect of Ginseng Extract by Heat Transformation. *Journal of Ginseng Research*. 41(2):180- 187.

Zancan, R.F., Canali, L.C.F., Tartari, T., Andrade, F.B., Vivan, R.R., dan Duarte, M.A.H., (2018) Do Different Strains of *E. faecalis* Have the Same Behavior

Towards Intracanal Medications in In Vitro Research?. *Brazilian Oral Research*. 32(46):1-8.

Zand, V., Lotfi, M., Soroush, M. H., Abdollah, A. A., Sadeghi, M., Mojadadi, A., (2016) Antibacterial Efficacy of Different Concentrations of Sodium Hypochlorite Gel and Solution on Enterococcus faecalis Biofilm. *Iranian Endodontic Journal.* 11(4): 315-319.

Zhang, J., Liu, J., dan Ming, R., (2014) Genomic analyses of the CAM plant pineapple. *Journal of Experimental Botany.* 65(13):3395-3404.

Zhang, L., Lu, W., Yuan, Y., Wang, X., Zhou, W, Liao, L., dan Li, J., (2020) Physicochemical characterization of pineapple peel wine. *Earth and Environmental Science*. 546(042075):1-7.

Zheng, J.X., Wu, Y., Lin, Z.E., Pu, Z.Y., Yao, W.M., Chen, Z., li, D.Y., Deng, Q.W., Qu, D., dan Yu, J.Y., (2017) Characteristics of and Virulence Factors Associated with Biofilm Formation in Clinical *Enterococcus faecalis* Isolates in China. *Frontiers In Microbiology*. 8(2338):1-9.

Zou, Z., Bhandari, J., Xiao, B., Liang, X., Zhang, Y., dan Yan, G., (2021) Effect of using diode laser on *Enterococcus faecalis* and its lipoteichoic acid (LTA) in chronic apical periodontitis. *Lasers in medical science*. 36(5): 1059–1066.