

## DAFTAR PUSTAKA

- Abrantes, P. M. D. S. dan Africa, C. W. J., (2020) Measuring *Streptococcus mutans*, *Streptococcus sanguinis* and *Candida albicans* Biofilm Formation Using a Real-Time Impedance-Based System. *Journal of Microbiological Methods*.169: 1-5.
- Aldecoa, A. L. I. D., Zafra, O., Pastor, E. G., (2017) Mechanisms and Regulation of Extracellular DNA Release and Its Biological Roles in Microbial Communities. *Frontiers in Microbiology*. 8(1390): 1-19.
- American Dental Association (ADA). (2017) *Mouthwash (mouthrinse)*. [www.ada.org](http://www.ada.org) diakses pada 8 April 2023.
- Anjelina, S. H., (2020) Antibacterial Activity of Ethanolic Extract of Kitolod (*Hippobramalongiflora*) Leaf Against *Staphylococcus aureus* and *Salmonella typhi*. *Asian Journal of Pharmaceutical Research and Development*. 8(1): 52-54.
- Arjuna, A., Pratama, W. S., Sartini, Mufidah, (2018) Uji Pendahuluan Anti-Biofilm Ekstrak Teh Hijau dan Teh Hitam pada *Streptococcus mutans* melalui Metode *Microtiter Plate*. *Jurnal Farmasi Galenika*. 4(1): 44-49.
- Astuti, T. D. dan Hadi, W. S., (2018) Potensi Ekstrak Daun *Carica pubescens* Sebagai Alternatif Antidiare Bakteri *Vibrio cholerae* dan *Shigella dysenteriae*. *Jurnal Teknologi Laboratorium*. 7(2): 61-69.
- ATCC. (2020) *Streptococcus sanguinis* (ATCC 10556™). [www.atcc.org](http://www.atcc.org) diakses pada 26 Maret 2023.
- Azimi, S., Klementiev, A. D., Whiteley, M., Diggle, S. P., (2020) Bacterial Quorum Sensing During Infection. *Annual Reviews of Microbiology*. 8(74): 201-219.
- Bjarnsholt, T., Moser, C., Jensen, P. O., Hoiby, N., (2011) *Biofilm Infection*. 1<sup>st</sup> ed. Springer. New York. hal. 1-5.
- Brookes, Z. L. S., Bescos, R., Belfield, L. A., Ali, K., Roberts, A., (2020) Current Uses of Chlorhexidine for Management of Oral Disease: A Narrative Review. *Journal of Dentistry*. 103(2020): 1-9.
- Buang, A., Isnaeni, D., Nurhunaída, E., (2019) Uji Efektivitas Ekstrak Kulit Buah Pepaya (*Carica papaya* L.) terhadap *Propioni bacterium acnes*. *Majalah Farmasi Nasional*. 16(1): 13-20.
- Chen, X., Daliri, E. B. M., Kim, N., Kim, J. R., Yoo, D., Oh, D. H., (2020) Microbial Etiology and Prevention of Dental Caries: Exploiting Natural Products to Inhibit Cariogenic Biofilms. *Pathogens*. 9(7): 1-15.
- Desmond, P., Huisman, K. T., Sanawar, H., Farhat, N. M., Traber, J., Fridjonsson, E. O., Johns, M. L., Flemming, H. C., Picioreanu, C., Vrouwenvelder, J. S., (2022) Controlling the Hydraulic Resistance of Membrane Biofilms by Engineering Biofilm Physical Structure. *Water Research*. 210(5): 1-14.
- Dominguez, I. J. F., Merino, J. M., Chayeb, L. T., Gonzalez, A. D., Cardenas, E. P., Becerril, C. T., (2021) The Role of Extracellular DNA (exDNA) in Cellular Processes. *Cancer Biology and Therapy*. 22(4): 267-278.
- Ge, X., Kitten, T., Chen, Z., Lee, S. P., Munro, C. L., Xu, P., (2008) Identification of *Streptococcus sanguinis* Genes Required for Biofilm Formation and

- Examination of Their Role in Endocarditis Virulence. *American Society for Microbiology*. 76(6): 2551-2559.
- Goldberg, M., (2016) *Understanding Dental Caries: From Pathogenesis to Prevention and Therapy*. Springer International Publishing. Switzerland. hal. 43-44.
- Gumay, A. R., Bakri, S., Oktavia, D., Saristya, K. V., Retnoningrum, D., Indraswari, D. A., Saraswati, I., Istiadi, H., Purwoko, Y., Muniroh, M., Hardian, (2020) Chemopreventive Effect of *Carica pubescens* Leaf Extract on Neutrophil-lymphocyte Ratio, Erythrocyte Count, and Colon Histopathological Appearance of Dimethylhydrazine-induced Colon Cancer Rats. *Malaysian Journal of Medicine and Health Sciences*. 16(14): 50-56.
- Hamzah, H., Hertiani, T., Pratiwi, S. U. T., Nuryastuti, T., (2019) The Inhibition Activity of Tannin on the Formation of Mono-Species and Polymicrobial Biofilm *Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, and *Candida albicans*. *Traditional Medical Journal*. 24(2): 110-118.
- Hao, Y., Huang, X., Zhou, X., Li, M., Ren, B., Peng, X., Cheng, L., (2018) Influence of Dental Prosthesis and Restorative Materials Interface on Oral Biofilms. *International Journal of Molecular Sciences*. 19(10): 1-17.
- Jeffrey, Satari, M. H., Kurnia, D., (2019) Antibacterial Effect of Lime (*Citrus aurantifolia*) Peel Extract in Preventing Biofilm Formation. *Journal of Medicine and Health*. 2(4): 1020-1029.
- Jennifer dan Geetha, B., (2020) Plaque. *European Journal of Molecular and Clinical Medicine*. 7(2): 6678-6683.
- Kemala, D., Hendiani, I., Satari, M. H., (2019) Uji Daya Antibakteri Ekstrak Etanol Kulit Buah Manggis (*Garcinia mangostana L*) terhadap *Streptococcus sanguinis* ATCC 10556. *Padjajaran Journal of Dental Researchers and Students*. 4(1): 1-5.
- Kolliyavar, B., Shettar, L., Thakur, S., (2016) Chlorhexidine: The Gold Standard Mouth Wash. *J Pharm Biomed Sci*. 6(2): 106-109.
- Kumar, S. B., (2017) Chlorhexidine Mouthwash-A Review. *Journal of Pharmaceutical Sciences and Research*. 9(9): 1450-1452.
- Lingga, A. R., Pato, U., Rossi, E., (2016) Uji Antibakteri Ekstrak Batang Kecombrang (*Nicolaia speciosa Horan*) terhadap *Staphylococcus aureus* dan *Escherichia coli*. *Jurnal Online Mahasiswa Faperta*. 3(1): 1-15.
- Magdalena, N. V. dan Kusnadi, J., (2015) Antibakteri dari Ekstrak Kasur Daun Gambir (*Uncaria gambir var Cubadak*) Metode Microwave-Assisted Extraction terhadap Bakteri Patogen. *Jurnal Pandan dan Agroindustri*. 3(1): 124-135.
- Magfiroh, U. L., (2017) Faktor Ketinggian Tempat Terhadap Sintesis Vitamin Buah Carica (*Carica pubescens*). *Prosiding Seminar Nasional Pendidikan Biologi dan Biologi*. Yogyakarta. hal 69-74.
- Martini, A. M., Moricz, B. S., Woods, L. J., Jones, B. D., (2021) Type IV Pili of *Streptococcus sanguinis* Contribute to Pathogenesis in Experimental Infective Endocarditis. *Microbiology Spectrum*. 9(3): 1-18.

- Minarno, E. B., (2015) Skrining Fitokimia dan Kandungan Total Flavanoid pada Buah *Carica pubescens* Lenne & K. Koch di Kawasan Bromo, Cangar, dan Dataran Tinggi Dieng. *El-Hayah*. 5(2): 73-82.
- Mounika, S., Jagannathan, N., Murali, (2015) Association of *Streptococcus Mutans* and *Streptococcus Sanguis* in Act of Dental Caries. *Journal of Pharmaceutical Sciences and Research*. 7(9): 764-766.
- Nasution, M., Simatupang, Y., Dennis, D., (2020) Effectiveness of Star Fruit Leaf Extract on the Growth of *Streptococcus Sanguinis*: An *In Vitro* Study. *World Journal of Dentistry*. 11(3): 196-200.
- Nayak, S. U., Kumari, A., Rajendran, V., Singh, V. P., Hegde, A., Pai, K. K., (2020) Comparative Evaluation of Efficacy of Chlorhexidine and Herbal Mouthwash as a Preprocedural Rinse in Reducing Dental Aerosols: A Microbiological Study. *Hindawi International Journal of Dentistry*. 2020(4): 1-6.
- Novalina, D., Sugiyarto, dan Susilowati, A., (2013) Aktivitas Antibakteri Ekstrak Daun *Carica pubescens* dari Dataran Tinggi Dieng terhadap Bakteri Penyebab Penyakit Diare. *EL-VIVO*. 1(1): 1-12.
- Pal, M. K. dan Lavanya, M., (2022) Microbial Influenced Corrosion: Understanding Bioadhesion and Biofilm Formation. *Journal of Bio- and Tribo-Corrosion*. 8(76): 1-13.
- Patabang, W. A., Leman, M. A., Maryono, J., (2016) Perbedaan Jumlah Petumbuhan Koloni Bakteri Rongga Mulut Sebelum dan Sesudah Menggunakan Obat Kumur yang Mengandung Chlorheksidine. *Pharmacon Jurnal Ilmiah Farmasi*. 5(1): 26-31.
- Patil, S. S., Yadav, A. R., Chopade, A. R., Mohite, S. K., (2020) Design, Development and Evaluation of Herbal Mouthwash for Antibacterial Potency against Oral Bacteria. *Journal of University of Shanghai for Science and Technology*. 22(11): 1137-1148.
- Puccio, T., Kunka, K. S., Zhu, B., Xu, P., Kitten, T., (2020) Manganese Depletion Leads to Multisystem Changes in the Transcriptome of the Opportunistic Pathogen *Streptococcus sanguinis*. *Frontiers of Microbiology*. 11: 1-17.
- Quan, K., Hou, J., Zhang, Z., Ren, Y., Peterson, B. W., Flemming, H. C., Mayer, C., Busscher, H. J., Mei, H. C. V. D., (2022) Water in Bacterial Biofilms: Pores and Channels, Storage and Transport Functions. *Critical Reviews in Microbiology*. 48(3): 283-302.
- Rabin, N., Zheng, Y., Temeng, C. O., Du, Y., Bonsu, E., Sintim, H., (2015) Biofilm Formation Mechanisms and Targets for Developing Antibiofilm Agents. *Future Medical Chemistry*. 7(4): 493-512.
- Saini, R., Saini, S., Sharma, S., (2011) Biofilm: A Dental Microbial Infection. *Journal of Natural Science, Biology, and Medicine*. 2(1): 71-75.
- Sajjan, P., Laxminarayan, N., Kar, P. P., Sajjanar, M., (2016) Chlorhexidine as an Antimicrobial Agent in Dentistry-A Review. *Oral Health and Dental Management*. 15(4): 1-8.
- Seneviratne, C. J., (2017) *Microbial Biofilms Omic Biology, Antimicrobials and Clinical Implications*. CRC Press. Boca Raton. hal. 70-71.
- Senpuku, H., Tuna, E. B., Nagasawa, R., Nakao, R., Ohnishi, M., (2019) The

- Inhibitory Effects of Polypyrrole on the Biofilm Formation of *Streptococcus mutans*. *Plos One*. 14(11): 1-18.
- Shah, S. S., Nambiar, S., Kamath, D., Suman, E., Unnikrishnan, B., Desal, A., Mahajan, S., Dhawan, K. K., (2019) Comparative Evaluation of Plaque Inhibitory and Antimicrobial Efficacy of Probiotic and Chlorhexidine Oral Rinses in Orthodontic Patients: A Randomized Clinical Trial. *Hindawi International Journal of Dentistry*. 2019(5): 1-6.
- Shukla, V. dan Bhatena, Z., (2016) Broad Spectrum Anti-Quorum Sensing Activity of Tannin-Rich Crude Extracts of Indian Medicinal Plants. *Scientifica*. 2016(5): 1-8.
- Simanjuntak, H. A. dan Rahmiati, (2021) Antibacterial and Antifungal Activities of Patikan Kebo (*Euphoria Hirta* L.) Herb Ethanol Extract. *Asian Journal of Pharmaceutical Research and Development*. 9(5): 6-9.
- Sun, Y., Saha, L. K., Saha, S., Jo, U., Pommier, Y., (2020) Debulking of Topoisomerase DNA-Protein Crosslink (TOP-DPC) by the Proteasome, Non-Proteasomal and Non-Proteolytic Pathways. *Elsevier*. 94(1): 1-16.
- Swaaij, B. W. M., Wejiden, G. A. V. D., Bakker, E. W., Graziani, F., Slot, D. E., (2020) Does Chlorhexidine Mouthwash, with an Anti-Discoloration System, Reduce Tooth Surface Discoloration Without Losing Its Efficacy? A Systematic Review and Meta-Analysis. *Wiley International Journal of Dental Hygiene*. 18(1): 27-43.
- Umarudin dan Yuliarni, F. F., (2019) Uji Antimikroba Daging Buah (*Carica pubescens*) Matang terhadap Bakteri *Staphylococcus aureus* Metode Kirby Bauer Secara In Vitro. *Jurnal Simbiosis*. 8(2): 148-157.
- Vasudevan, R., (2014) Biofilms: Microbial Cities of Scientific Significance. *Journal of Microbiology and Experimentation*. 1(3): 1-16.
- Velsko, I. M., Yates, J. A. F., Aron, F., Hagan, R. W., Frantz, Loe, L., Martinez, J. B. R., Chaves, E., Gosden, C., Larson, G., Warinner, C., (2019) Microbial Differences Between Dental Plaque and Historic Dental Calculus are Related to Oral Biofilm Maturation Stage. *Microbiome*. 7(1): 1-20.
- Vyas, T., Bhatt, G., Gaur, A., Sharma, C., Sharma, A., Nagi, R., (2021) Chemical Plaque Control-A Brief Review. *Journal of Family Medicine and Primary Care*. 10(4): 1562-1568.
- Winkelmann, J., Listl, S., Ginneken, E. V., Vassallo, P., Benzian, H., (2022) Universal Health Coverage Cannot be Universal Without Oral Health. *Lancet Public Health*. 8(1): 1-3.
- Yadav, S., Parijat, P., Krishnan, V., (2023) Crystal Structure of The Pilus-Specific Sortase From Early Colonizing Oral *Streptococcus sanguinis* Captures an Active Open-Lid Conformation. *International Journal of Biological Macromolecules*. 243: 1-19.
- Yu, M. dan Chua, S. L., (2020) Demolishing the Great Wall of Biofilms in Gram-Negative Bacteria: to Disrupt or Disperse?. *Medicinal Research Reviews*. 40(3): 1103-1116.
- Zhu, B., Macleod, L. C., Kitten, T., Xu, P., (2018) *Streptococcus sanguinis* Biofilm Formation and Interaction with Oral Pathogens. *Future Medicine*. 13(8): 915-932.