

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.
- Apriandi, R., Mardianingrum, R. dan Susanti, S. (2020) Uji Aktivitas Antibakteri *Streptococcus mutans* Penyebab Karies Gigi Pada Family *Zingiberaceae* dan *Myrtaceae* Secara Sistematis Review, *Pharmacoscrypt*, 3(2) : 127–133.
- Armbruster, C. R., dan Parsek, M. R. (2018) New insight into the early stages of biofilm formation, *Proceedings of the National Academy of Sciences*, 115 (17) : 4317-4319.
- ATCC, (2019) *Streptococcus sanguinis* (ATCC® 10556™), <https://www.atcc.org/products/10556#product-references> diakses 05 April 2022.
- Azzahra, F. dan Hayati, M. (2018) Uji Aktivitas Ekstrak Daun Pegagan (*Centella asiatica* (L.) Urb) terhadap Pertumbuhan *Streptococcus mutans*, *B-Dent: Jurnal Kedokteran Gigi Universitas Baiturrahmah*, 5 (1) : 9–19.
- Bi, Y., Xia, G., Shi, C., Wan, J., Liu, L., Chen, Y., Liu, R. 2021. Therapeutic strategies against bacterial biofilms, *Fundamental Research*, 1(2): 193–212.
- Biradar, S.R. dan Rachetii, B.D. (2013) Extraction of Some Secondary Metabolites & Thin Layer Chromatography from Different Parts of *Centella asiatica* L. (Urb), *American Journal of Life Science*, 1 (6) : 243-247.
- Brookes, Z. L. S., Bescos, R., Belfield, L. A., Ali, K. dan Anthony, (2020), Review Article : Current Uses of *Chlorhexidine* for Management of Oral Disease : A Narrative Review, *Journal of Dentistry*, 103: 1-9.
- Byakodi, M. K., Bagewadi, Z. K., & Muddapur, U. M. (2018). Phytoconstituents Profiling and evaluation of antimicrobial and antioxidant attributes of methanolic extract of *Centella asiatica*. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 9(3), 493–500. <https://doi.org/10.21161/mjm.190682>
- Carniello, V. Peterson, B.W., Mei, H.C., Busscher, H.J. (2018) Physico-chemistry from initial bacterial adhesion to surface-programmed biofilm growth, *Advances in Colloid and Interface Science*, 261 : 1-14.

- Coronado-Lopez, S., Caballero-Garcia, S., Anguilar-Luis, M., Mazulis, F., dan del Valle-Mendoza, J. (2018) Antibacterial Activity and Cytotoxic Effect of *Pelargonium peltatum* (Geranium) against *Streptococcus mutans* and *Streptococcus sanguinis*, *International Journal of Dentistry*, 2018 : 1-5
- Cruz, C.D., Shah, S., dan Tammela, P. (2018) Defining Conditions for Biofilm Inhibition and Eradication Assays for Gram-positive Clinical Reference Strains, *BMC Microbiol*, 18 : 173.
- Evans, A., Leishman, S. J., Walsh, L. U., dan Seow, W. K., (2015), Inhibitory effects of antiseptic mouthrinses on *Streptococcus mutans*, *Streptococcus sanguinis* and *Lactobacillus acidophilus*, *Australian Dental Journal*, 60(2): 247–254.
- Fatimah, S., Prasetyaningsih, Y. dan Astuti, R. W. (2022) Efektifitas Antibakteri Ekstrak Daun Pegagan (*Centella asiatica*) terhadap Pertumbuhan Bakteri *Staphylococcus aureus*, *Lambung Farmasi: Jurnal Ilmu Kefarmasian*, 3(1) : 61–68.
- Hamzah, H., Hertiani, T., Utami Tunjung Pratiwi, S., dan 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*, *Majalah Obat Tradisional*, 24(2): 110.
- Huang, R., Li, M., dan Gregory, R.L. (2011) Bacterial interactions in dentalbiofilm, *Virulence*, 2 (5) : 435-444.
- ITIS (2022) Diunduh dari: https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=29612#null. pada tanggal 06 April 2022.
- Jamal, M., Ahmad, W., Andleeb, S., Jalil, F., Imran, M., Nawaz, M. A., Hussain, T., Ali, M., Rafiq, M., Kamil, M. A. (2018) Bacterial biofilm and associated infections, *Journal of the Chinese Medical Association*, 81 (1) : 7-11.
- Jayaprakash, S. B. C. M. dan Nagarajan, N. (2016) Studies on the bioactive compounds and antimicrobial activities of medicinal plant *Centella asiatica* (Linn), *Journal of Medicinal Plants Studies*, 4 (5) : 181-185.
- Karyadi, E., Kaswindiarti, S., Roza, M.A., Larissa, S. (2020) Pengaruh Mengunyah Buah Apel Manalagi terhadap Penurunan Indeks Plak Usia 9-12 Tahun, *Jurnal Ilmu Kedokteran Gigi*, 3 (2) : 24-28.

- Kemala, D., Hendiani, I., dan Satari, M. H., (2018), Uji daya antibakteri ekstrak etanol kulit buah manggis (*Garcinia mangostana* L) terhadap *Streptococcus sanguinis* ATCC 10556, *Padjajaran Journal of Dental Researchers and Students*, 2(2) : 137-140.
- Kilian, M. *dkk.* (2016) The Oral Microbiome – An Update For Oral Healthcare Professionals, *British Dental Journal*, 221(10) : 657-666.
- Kolliyavar, B., Shettar, L., dan Thakur, S., (2016), Chlorhexidine: the gold standard mouth wash, *Journal of Pharmaceutical and Biomedical Sciences*, 6(2): 106-109.
- Kour, K. dan Kaur, S., (2019), Short Term Side Effects of 0.2% and 0.12% Chlorhexidine Mouthwash, *IP International Journal of Periodontology and Implantology*, 4(4): 138-140.
- Lamont, R. J., Hajishengallis, G. N., Koo, H. (Michel), dan Jenkinson, H. F. (2019), *Oral Microbiology and Immunology*, 3rdEd, Edinburgh: Elsevier.
- Lozano, C.P., Díaz-Garrido, N., Kreth, J. dan Giacaman, R.A., (2019), *Streptococcus mutans* and *Streptococcus sanguinis* expression of competitionRelated Genes, under Sucrose, *Caries Research*, 53(2): 194–203.
- Mahon, C.R. dan Lehman, D.C., (2019), *Textbook of Diagnostic Microbiology*, edisi ke 6, Missouri: Elsevier, hal, 1766-1771, 1781, 2506.
- Marsh P.D., Lewis, M. A. O., Rogers, H., Williams, D. W., Wilson, M. (2016) '*Marsh and Martin's Oral Microbiology 6th ed*, Edinburgh, Elsevier, pp. 13, 41, 37, 63, 81, 84, 87-93.
- Marsh, P. dan Zaura, E., (2017), Dental Biofilm: Ecological Interactions in Health and Disease, *Journal of Clinical Periodontology*, 44: S12–S22.
- Martini, A. M., Moricz, B. S., Ripperger, A. K., Tran, P. M., Sharp, M. E., Forsythe, A. N., Kulhankova, K., Salgado-Pabon, W., Jones, B. D. (2020) Association of Novel *Streptococcus sanguinis* Virulence Factors with Pathogenesis in a Native Valve Infective Endocarditis Model, *Frontiers in Microbiology*, 11 (10): 1- 15.
- Murdiansyah, S., Rasmi, D. A. C., Mertha, I. G., (2020) *Centella asiatica* Activities towards *Staphylococcus aureus* dan *Escherichia coli* Growth, *Jurnal Biologi Tropis*, 20 (3) : 499-506.

- Ngajow, M., Abidjulu, J. dan Kamu, V.S., (2013), Pengaruh antibakteri ekstrak kulit batang matoa (*Pometia pinnata*) terhadap Bakteri *Staphylococcus aureus* secara in vitro, *Jurnal MIPA UNSRAT*, 2(2): 128–132.
- Nightingale, K. J. dkk. (2014) Toothbrush efficacy for plaque removal, *International Journal of Dental Hygiene*, 12(4) : 251–256.
- Nurjanah, S., Isbiyantoro dan Fadhillah, H., (2018), Ekstrak daun kembang bulan (*Tithonia diversifolia* (Hemsl.) A. Gray) sebagai antibakteri terhadap *Streptococcus mutans* dan *Streptococcus sanguinis*, *Jurnal Farmasi Lampung*, 7(1): 33–40.
- Nurrosyidah, I. H., Hermawati, R., Asri, M., (2019) Uji Aktivitas Antibakteri Sediaan Gel Ekstrak Etanol Pegagan (*Centella asiatica* L.) terhadap Bakteri *Staphylococcus aureus* secara in Vitro, *Journal of Pharmaceutical Care Anwar Medika*, 1(2) : 45-57.
- Okahashi, N., Nakata, M., Terao, Y., Isoda, R., Sakurai, A., Sumitomo, T., Yamaguchi, M., Kimura, R.K., Oiki, E., Kawabata, S. dan Ooshima, T. (2011), Pili oforal *Streptococcus sanguinis* bind to salivary amylase and promote the biofilm formation, *Microbial Pathogenesis*, 50(3–4): 148–154.
- Parashar, A. (2015) Mouthwashes and Their Use in Different Oral Conditions, *Scholars Journal of Dental Sciences (SJDS)*, 2 (2B) : 186-191.
- Pargaputri, A. F., Mudjiono, M., Subiwahjudi, A. (2015) Daya Antibakteri Ekstrak Daun Beluntas (*Pluchea Indica Less*) Terhadap *Streptococcus Viridans* (in Vitro), *DENTA Jurnal Kedokteran Gigi*, 9 (1) : 11-19.
- Patabang, W.A., Leman, M.A., Maryono, J., Studi, P., Dokter, P. dan Kedokteran, G.F., (2016), Perbedaan jumlah pertumbuhan koloni bakteri rongga mulut sebelum dan sesudah menggunakan obat kumur yang mengandung khlorheksidine, *Jurnal Ilmiah Farmasi-UNSRAT*, 5(1): 26–31.
- Penda, P.A.C., Kaligis, S.H.M. dan Juliatri, (2015), Perbedaan Indeks Plak sebelum dan sesudah Pengunyahan Buah Apel, *Jurnal e-GiGi (eG)*, 3(2): 380–385.
- Pleszczynska, M., Wiater, A., Bachanek, T., dan Szczodrak, J., (2017), Enzymes in therapy of biofilm-related oral diseases, *Biotechnology and Applied Biochemistry*, 64(3): 337–346.

- Pramesti, H.T. (2016) *Streptococcus sanguinis* as An Opportunistic Species in Human Oral Cavity : Adherence, Colonization, and Invasion, *Padjadjaran Journal o Dentistry*, 28 (1) : 45 - 52.
- Pushparaj, P. N. (2020) Revisiting the Micropipetting Techniques in Biomedical Sciences: A Fundamental Prerequisite in Good Laboratory Practice, *Bioinformation*, 16 (1): 8 – 12.
- 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.
- Ray, L., Iliff, J.J., dan Heys, J.J. (2019) Analysis of convective and diffusive transport in the brain interstitium, *Fluids and Barriers of the CNS*, 16 (6): 1-18.
- Sadik, F. dan Anwar, A. R. A. (2022) Standarisasi Parameter Spesifik Ekstrak Etanol Daun Pegagan (*Centella asiatica* L.) sebagai Antidiabetes, *Journal Syifa Sciences and Clinical Research (JSSCR)*, 4 (1) : 1-9.
- Saggu, S. K., Jha, G., dan Mishra, P. C. (2019), Enzymatic degradation of biofilm by metalloprotease from *microbacterium sp.*, *Frontiers in Bioengineering and Biotechnology*, 7 (192): 1-13.
- Sajjan, P., Laxminarayan, N., Kar, P. P., Sajjanar, M. (2016) Chlorhexidine asan Antimicrobial Agent in Dentistry - A Review, *OHDM*, 15 (2) : 93-100.
- Sapara, T.U., Waworuntu, O. dan Juliatri, (2016), Efektivitas Antibakteri Ekstrak Daun Pacar Air (*Impatiens balsamina* L.) terhadap Pertumbuhan *Porphyromonas gingivalis*, *Jurnal Ilmiah Farmasi-UNSRAT*, 5(4): 10–17.
- Sari, D.P., Didit, A., Taufiqurrahman, I. (2020) Antibacterial Effectivity of Kasturi Leaf Extract (*Mangifera casturi*) against the Growth of *Streptococcus sanguinis* Bacteria, *Dentino Jurnal Kedokteran Gigi*, 5 (1): 33-38.
- Schoch, CL, *dkk.*, (2020), *NCBI Taxonomy: a comprehensive update on curation, resources and tools. Database (Oxford)*, baaa062. PubMed: 32761142 PMC: PMC7408187.
- Silhavy, T. J., Kahne, D., dan Walker, S. (2010) The bacterial cell envelope. *Cold Spring harbor prespective in biology*, 2 (5): 414.

- Smullen, J., Finney, M., Storey, D.M. dan Foster, H.A., (2012), Prevention of artificial dental plaque formation *in vitro* by plant extracts, *Journal of Applied Microbiology*, 113(4): 964–973.
- Srinivasan, R., dkk. (2021) Bacterial Biofilm Inhibition: A Focused Review on Recent Therapeutic Strategies for Combating the Biofilm Mediated Infections, *Frontiers in Microbiology*, 12 : 1-19.
- Sun, B., dkk. (2020) Therapeutic Potential of *Centella asiatica* and Its Triterpenes: A Review, *Frontiers in Pharmacology*, 11 : 1-24.
- Sycz, Z., Tichazcek-Goska, D., Jezierska-Domaradzka, A., Wojnicz, D. (2021) Area Uropathogenic Bacteria Living in Multispecies Biofilm Susceptible to Active Plant Ingredient-Asiatic Acid? *Biomolecules*, 11: 1-24.
- Sycz, Z., Goska, D. T., Wojnicz, D. (2022) Anti-Planktonic and Anti Biofilm Properties of Pentacyclic Triterpenes—Asiatic Acid and Ursolic Acid as Promising Antibacterial Future Pharmaceuticals, *Biomolecules*, 12 (98): 1 - 29.
- Swaiij, B. W. M. V., Weijden, G. A. (F.) V. D., Bakker, E. W. P., Graziani, F. dan Slot, (2020), Does Chlorhexidine Mouthwash, with An Anti-discoloration System, Reduce Tooth Surface Discoloration without Losing Its Efficacy? A Systematic Review and Meta-analysis, *International Journal of Dental Hygiene*, 18: 27-43.
- Umniyati, H., Miegasivia, B. dan Zakki, M., (2020), Crossmark The Effectiveness of Oral Health Education and Toothbrush Training in Decreasing Plaque Index Score among Elementary Students in Jakarta, *Journal of Dentomaxillofacial Science*, 5(3): 168–172.
- Vaddadi, S., Agrawal, P., Das, A., Kotagiri, D., Kolluru, C. (2017) Antimicrobial and Antioxidant Activities in the Root, Stem, and Leaf, Extracts of *Centella asiatica*, *Advances in Biotechnology & Microbiology*, 3(4) : 1-10.
- Vasudewan, R. (2017) Dental Plaques: Microbial Community of the Oral Cavity, *Journal of Microbiology & Experimentation*, 4 (1) : 1-9.
- Vornhagen, J., dkk. (2013) Coaggregation Occurs amongst Bacteria within and between Domestic Showerhead Biofilms, *Biofouling*, 29(1): 53-68.
- 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 : 1562 - 15628.

- Widiastuti, R., Nurhaeni, F., Marfuah, D.L., Wibowo, G.S. (2016) Potensi Antibakteri dan Anticandida Ekstrak Etanol Daun Pegagan (*Centella asiatica* (L) Urb.), *Jurnal Ilmu Kesehatan Bhakti Setya Medika*, 1 (1).
- Wong, J. X. dan Ramli, S. (2021) Antimicrobial activity of different types of *Centella asiatica* extracts against foodborne pathogens and food spoilage microorganisms, *LWT- Food Science and Technology*, 142 : 1-6.
- Yu, M. dan Chua, S.L. (2019) Demolishing the Great Wall of Biofilms in Gram-Negative Bacteria: to Disrupt or Disperse, *Medicinal Research Reviews*, 40: 1-14.
- Yu, O. Y., Zhao, I. S., Mei, M. L., Lo, E. C., Chu, C. (2017) Dental Biofilm and Laboratory Microbial Culture Models for Cariology Research, *Dentistry Journal*, 5(21) : 1-12.
- Zhu, B. dkk. (2018) *Streptococcus Sanguinis* Biofilm Formation & Interaction With Oral Pathogens, *Future microbiology*, 13(8) : 915–932.