

## DAFTAR PUSTAKA

- Abarantes, P. M. D. S., dan Africa, C. W. J., (2019). Measuring *Streptococcus mutans*, *Streptococcus sanguinis*, and *Candida albicans* Biofilm Formation using a Real-Time Impedance-based System. *Journal of Microbiological Methods*. 169: 1-5.
- Alqarni, H., Jamleh, A., dan Chamber M.S. (2022). Chlorhexidine as a Disinfectant in the Prosthodontic Practice: A Comprehensive Review. *Cureus*. 14(10): 1-9.
- Amalia, A., Irma, S., dan Risa, N. (2017). Aktivitas Antibakteri Ekstrak Etil Asetat Daun Sembung (*Blumea balsamifera* (L.)DC.) terhadap Pertumbuhan Bakteri *Methicilin Resistant Staphylococcus aureus* (MRSA). *Prosiding Seminar Nasional Biotik*. 387-391.
- Anggraini, T., Febrianti, F., dan Ismanto, S. D. (2016). Black Tea with *Averrhoa bilimbi* L Extract : A Healthy Beverage., *Agriculture and Agricultural Science Procedia*. 9: 241-252.
- Anzian, A., Rashidah, S., Nazamid, S., Sapawi, C.W.N.S., dan Hussin, M.A.S., (2017). Chemical Composition and Antioxidant Activity of Torch Ginger (*Etilingera elatior*) Flower Extract. *Food and Applied Bioscience Journal*. 5(1): 32-49.
- Aynapudi, J., El-Rami, F., dkk. (2017). Involvement of Signal Peptidase I in *Streptococcus sanguinis* Biofilm Formation. *Microbiology Society*. 163: 1306-1318.
- Berger, D., Rakhmimova, A., Ge, X., dkk. (2017) Pollack, A., Loewy, Z. (2018). Oral Biofilms: Development, Control, and Analysis. *High Throughout*. 7(3): 24.
- Brookes, Z. L., Belfield, L. A., Ashworth, A., Casas-Agustench, P., Raja, M., Pollard, A. J., dan Bescos, R., 2021, Effects of chlorhexidine mouthwash on the oral microbiome. *Journal of Dentistry*. 113:103768.
- Chan, E.W.C., Lim, Y.Y., dan Wong, S.K., (2011). Photochemistry and Pharmacological Properties of *Etilingera elatior*: A Review. *Pharmacognosy Journal*. 3(22): 6-10.
- Diaz-Garrido, N., Lozano, C.P. Kreth, J., Giacaman, R.A., (2020) Competition and Caries on Enamel of a Dual-Species Biofilm Model with *Streptococcus mutans* and *Streptococcus sanguinis*. *Applied and Environmental Microbiology*. 86(21): 1-8.
- Diyantika, D., Mufida, D.C., Misnawi. (2017) Perubahan Morfologi *Staphylococcus aureus* Akibat Paparan Ekstrak Etanol Biji Kakao (*Theobroma cacao*) secara *in vitro*. *Journal of Agromedicine and Medical Sciences*. 3(1): 25-33.
- Dong, S., Yang, X., Zhao, L., Zhang, F., Hou, Z., Xue, P., (2020), Antibacterial Activity and Mechanism of Action Saponins from *Chenopodium quinoa* Willd,

- Husks against Foodborne Pathogenic Bacteria. *Industrial Coprs and Products*. 149: 1-14.
- Dwipriastuti, D., Putranto, R.R., Anggarani, W. (2017). Perbedaan Efektivitas Chlorhexidine Glukonat 0,2% dengan The Hijau (*Camellia sinensis*) terhadap Jumlah Porphyromonas gingivalis. *ODONTO Dental Journal*. 4(1): 50-54.
- Fatmawati, D.W.A., (2011) Hubungan Biofilm *Streptococcus mutans* terhadap Resiko Terjadinya Karies Gigi. *Stomatognatic (J.K.G Unej)*. 8(3): 127-130.
- Ghasemzadeh, A., Jaafar, H.Z.E., Rahmat, A., dan Ashkani S., (2015). Secondary Metabolites Constituents and Antioxidant, Anticancer and Antibacterial Activities of *Etilingera elatior* (Jack) R.M.Sm Grown in Different Locations of Malaysia. *BMC Complementary and Alternative Medicine*. 15(1): 335.
- Hamzah, H., Hertiani, T., Pratiwi, S. U. T. dan Titik. (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.
- Haniastuti, T. (2016). Penurunan Hidrofobisitas Permukaan Sel Bakteri Plak Gigi Setelah Dipapar Rebusan Daun Sirih Merah Konsentrasi 10%, *Dentika Dental Journal*. 19(1): 38-41.
- Haydari, M., Bardakci, A. G., Koldslund, O. C., Aass, A. M., Sandvik, L., dan Preus, H. R. (2017). Comparing the Effect of 0.06% -, 0.12% and 0.2% Chlorhexidine on Plaque, Bleeding and Side Effects in an Experimental Gingivitis Model: a Parallel Group, Double Masked Randomized Clinical Trial. *BMC Oral Health*. 17(118):1-8.
- Hudaya, A., Radiastuti, N., Sukandar, D., dan Djajanegara, I. (2014). Uji Aktivitas Antibakteri Ekstrak Air Bunga Kecombrang terhadap Bakteri *E. coli* dan *S. aureus* sebagai Bahan Pangan Fungsional. *Al-Kaunyah Jurnal Biologi*. 7(1): 9-15.
- Hutomo, S., Putri, D.U., Welviyanda, B.C., dan Susilowati, H. (2021). Inhibition Effect of Garlic (*Allium sativum*) Extract on *Streptococcus sanguinis* Biofilm Formation Involving Bacterial Motility Mechanism. *Malaysian Journal of Medicine and Health Sciences*. 17(2): 169-174.
- Isyanti, M., Andarwulan, N., Faridah, D.N., (2019). Karakteristik Fisik dan Fitokimia Buah Kecombrang (*Etilingera elatior* (Jack) R.M. Sm) Physical and Phytochemical Characteristics of Kecombrang Fruits (*Etilingera elatior* (Jack) R.M. Sm). *Journal of Agro-based Industry*. 36(2):96-105.
- ITIS (Integrated Taxonomic Information System). 2018. Taxonomy Hierarchy: *Etilingera elatior* (Jack) R.M. Sm.

[https://www.itis.gov/servlet/SingleRpt/SingleRpt?search\\_topic=TSN&search\\_value=502458#null](https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=502458#null), pada tanggal 12/06/2022.

ITIS (Integrated Taxonomic Information System). 2018. Taxonomy Hierarchy: *Streptococcus sanguinis* White and Niven. [https://www.itis.gov/servlet/SingleRpt/SingleRpt?search\\_topic=TSN&search\\_value=966473#null](https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=966473#null), pada tanggal 12/06/2022.

Jain, A., Parihar, D.K. (2018). Antibacterial, Biofilm Dispersal and Antibiofilm Potential of Alkaloids and Flavonoids of Curcuma. *Biocatalysis and Agricultural Biotechnology*. 16:677-682.

Juwita, T., Puspitasari, I., M. dan Levita, J., (2018). Torch ginger (*Etilingera elatior*): A Review on its Botanical Aspects, Phytoconstituents and Pharmacological Activities. *Pak. J. Biol. Sci.* 21: 151-165.

Kaczmarek, B. (2020), Tannic Acid with Antiviral and Antibacterial Activity as A Promising Component of Biomaterial-A Minireview, *Materials*, 13(14):3224.

Kemenkes RI. (2018) *Laporan Nasional Riset Kesehatan Dasar (Riskesmas) Indonesia tahun 2018, Riset Kesehatan Dasar 2018*. Jakarta: Lembaga Penerbit Badan Penelitian dan Pengembangan Kesehatan. hal. 195, 204.

Kining, E., Syamsul, F., dan Novik, N. (2016). Aktivitas Antibiofilm Ekstrak Air Daun Pepaya (*Carica papaya* L.) terhadap Bakteri *Pseudomonas aeruginosa* secara *in vitro*. *Current Biochemistry*. 2(3): 150-163.

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.

Kurniasih, N.F., Madaningrum, R.F., Khasanah, N. (2021). Gelecot *Toothpaste* sebagai Terobosan Baru Pencegahan Karies Gigi. *PHARMASI: Jurnal Farmasi Indonesia*. 19(02): 492-498.

Maghfirah, F., Saputri, D., dan Basri., (2017). Aktivitas Pembentukan Biofilm *Streptococcus mutans* dan *Candida albicans* setelah Dipapar dengan Cigarette Smoke Condensate dan Minuman Probiotik, *Journal Caninus Dentistry*. 2(1): 12-19.

Mahamuni-Badiger, P. P., Patil, P. M., Badiger, M. V., Patel, P. R., Thorat-Gadgil, B. S., Pandit, A., dan Bohara, R. A., (2020). Biofilm Formation to Inhibition: Role of Zinc Oxide-based Nanoparticles. *Materials Science and Engineering*. 108, 110.

Marsh, P. D. dan Martin, M. V. (2016). *Marsh & Martin's Oral Microbiology, 6<sup>th</sup> Ed.*, New York: Elsevier, hal. 35, 75, 108 dan 115.

- Martini, A.M., Moricz, B.S., Ripperger, A.K., Tran, P.M., Sharp, M.E. dkk. (2020) Association of Novel *Streptococcus sanguinis* Virulence Factors with Pathogenesis in a Native Valve Infective Endocarditis Model. *Frontiers in Microbiology*. 11(10): 1-15.
- Memariani, H., Memariani, M., dan Ghasemian, A. (2019). An Overview on Anti-biofilm Properties of Quercetin Against Bacterial Pathogens. *World Journal of Microbiology and Biotechnology*. 35(143): 1-16.
- Nursidika, P., Saptarini, O., dan Rafiqua, N. (2014). Aktivitas Antimikroba Fraksi Etanol Buah Pinang (*Areca catechu L.*) pada Bakteri *Methicilin Resistant Staphylococcus aureus*. *MKB*. 46(2): 41-45.
- Pambudi, A.R., Wasiaturrahmah, Y., dan Aspriyanto, D. (2021). Antibacterial Effectiveness of Kecapi Sentul Extract (*Sandoricum Koetjape Merr.*) Against *Streptococcus mutans*. *Odonto Dental Journal*. 8(2): 1-10.
- Panche, A.N., Diwan, A.D., dan Chandra, S.R. (2016). Flavonoids: an Overview. *Journal of Nutritional Science*. 5(47): 1-15.
- Panjaitan, M.A.P., Suprayitno, E., Hardoko. (2020). Identifikasi Perubahan Morfologi Sel *Aeromonas Hydrophila* terhadap Paparan Ekstrak Daun Mangrove *Rizophora mucronata*. *Journal of Fisheries and Marine Research*. 4(1):41-45.
- Permatasari, D., Budiarti, L.Y., Apriasari, M.L. (2016) Efektivitas Antifungi Ekstrak Metanol Batang Pisang Mauli (*Musa acuminata*) dan *Chlorhexidine Gluconate* 0,2% terhadap *Candida albicans*. *Dentino*. 1(1): 10-14.
- Pratiwi, A.R., dan Putri, D.K.T. (2022). *Biofilm Oral & Implikasi Klinis pada Rongga Mulut*. Malang. UB Press. hal. 6, 11, 12, 13.
- Rahman, F.A., Haniastuti T., dan Utami T.W. (2017). Skrining Fitokimia dan Aktivitas Antibakteri Ekstrak Etanol Daun Sirsak (*Annona muricata L.*) pada *Streptococcus mutans* ATCC 35668. *Majalah Kedokteran Gigi Indonesia*. 3:4-6.
- Sajjan, P., Laxminarayan N., Kar, P. P., dan Sajjanar, M. (2016). Chlorhexidine as an Antimicrobial Agent in Dentistry – A Review. *OHD*. 15(2):93-100.
- Samaranayake, L. (2018). *Essential Microbiology for Dentistry. Fifth Edition*. hal. 275, 284, dan 313.
- Sani, R. Nisa, F Andriani, R, D dan Madigan J.M. (2013). Analisis Reedmen dan Skrining Fitokimia Ekstrak Etanol Mikroalga Laut (*Tetraselmis chui*). *Jurnal Pangan dan Agroindustri*. 2(2): 121-126.
- Shafiei, Z., Rahim, Z. H. A., Philip, K., Thurairajah, N., dan Yaacob, H., (2020). Potentian Effects of *Psidium* sp., *Mangifera* sp., *Mentha* sp. and Its Mixture (PEM) in Reducing Bacterial Populations in Biofilms, Adherence, and Acid Production of *S. sanguinis* and *S. mutans*, 109(2020):1-15.

- Syahrani, H.D., Manalu, K., dan Tambunan, E.P.S. (2021). Uji Efektivitas Antimikroba Ekstrak Bunga Kecombrang (*Etilingera elatior*) terhadap Pertumbuhan *Streptococcus mutans* dan *Candida albicans*. *Biology Education Science & Technology*. 4(2): 367-373.
- Tobi, C.H.B., Saptarini, O., dan Rahmawati, I. (2022). Aktivitas Antibiofilm Ekstrak dan Fraksi-Fraksi Biji Pinang (*Areca catechu* L.) terhadap *Staphylococcus aureus* ATCC 25923. *Journal of Pharmaceutical Science and Clinical Research*. 01:56-70.
- Tortora, G. J., Funke, B. R. dan Case. (2019). *Microbiology: An Introduction, 13<sup>th</sup> Ed.*, Boston: Pearson Education Inc. hal. 77, 426, 724 dan 725.
- 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.
- Riwanti, P., Izazih, F., dan Amaliyah, (2020) Pengaruh Perbedaan Konsentrasi Etanol pada Kadar Flavonoid Total Ekstrak Etanol 50,70, dan 96% *Sargassum polycystum* dari Madura. *Journal of Pharmaceutical Care Anwar Medika*. 2(2): 82-95.
- Unepetty, A., Dávila-Lezama, A., Garibo, D., Oknianska, A., Bogdanchikova, N., Hernández-Sánchez, J. F., & Susarrey-Arce, A., (2022) Strategies Applied to Modify Structured and Smooth Surfaces: A Step Closer to Reduce Bacterial Adhesion and Biofilm Formation, *Colloid and Interface Science Communications*. hal 46, 100, 560.
- Utami, D.T., Pratiwi, S.U.T., Haniastuti, T., dan Hertiani, T. (2020). Efficacy of Quercetin on Degradation of *Streptococcus sanguinis* and *Streptococcus mutans* Biofilms. *International Medical Journal*. 25(04): 1763-1770.
- Vyas, T., Bhatt, G., Gaur, A., Sharma, C., Sharma, A., dan Nagi, R. (2021). Chemical Plaue Control - A Brief Review. *Journal of Family Medicine and Primary Care*. 10 : 1562 – 15628.
- Wardani, dan I Gusti. (2020). Efektivitas Pemberian Gel Ekstrak Etanol Bunga Kecombrang (*Etilingera elatior*) terhadap Penyembuhan Luka Bakar Derajat IIA Pada Mencit Putih (*Mus musculus* L.). *Jurnal Ilmiah Medicamento*. 6(2): 72-78.
- Yunus, M.F., Ismail, N.A., Sundram, T.C.M., Zainuddin, Z., dan Rosli, N.M., (2021) Commercial Potentials and Agronomic Status of *Etilingera elatior*, a Promising Horticulture from *Zingiberaceae* Family. *AGRIVITA Journal of Agricultural Science*. 43(3): 665-678.

Zhou, X., (2016) *Dental Caries Principles and Management*. New York. hal. 31.

Zhu, B., Macleod, L. C., Kitten, T., Xu, P. (2018) *Streptococcus sanguinis* Biofilm Formation and Interaction with Oral Pathogens. *Future Microbiology*. 13(8): 915-932.