

DAFTAR PUSTAKA

- Agustina, T., Sunyoto, Agustina, A., 2014, Penetapan Kadar Tanin pada Daun Sirih Merah (*Piper crocatum* Ruiz dan Pav) Secara Spektrofotometri UV-Vis, *Journal of Pharmacy Science*, 5(1).
- Agustina, S. B., Leki, K.G.B., 2018, Identifikasi Komponen Fitokimia dalam Ekstrak Daun Sirih Merah (*Piper crocatum*), *CHMK Pharmaceutical Scientific Journal*, 1(1).
- Armianti, I. G. K., 2019, Pemolesan Tumpatan Komposit Dapat Menurunkan Angka Perubahan Warna (Diskolorisasi) Pada Resin Komposit Nanofiller Yang Disebabkan Oleh Penggunaan Obat Kumur *Chlorhexidine*, *Interdental Jurnal Kedokteran Gigi*, Vol. 15(1): 16-20
- Berger, D., Rakhamimova, A., Pollack, A., & Loewy, Z. (2018). *Oral Biofilms: Development, Control, and Analysis*. High-throughput, 7(3), 24. <https://doi.org/10.3390/ht7030024>
- Brookes, Z., 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, 103497. <https://doi.org/10.1016/j.jdent.2020.103497>
- Cankaya, I.I., T., Somuncuoglu, E. I., 2021, Potential and Prophylactic Use of Plants Containing Saponin-Type Compounds as Antibiofilm Agents against Respiratory Tract Infections, *Evidence-Based Complementary and Alternative Medicine*, vol. 2021, Article ID 6814215, 14 pages. <https://doi.org/10.1155/2021/6814215>
- Costa OYA, Raaijmakers JM and Kuramae EE, 2018, Microbial Extracellular Polymeric Substances: Ecological Function and Impact on Soil Aggregation, *Frontiers in Microbiology*, 9:1636. doi: 10.3389/fmicb.2018.01636
- Deng Z., Luo X.M., Liu J., and Wang H., 2020, Quorum Sensing, Biofilm, and Intestinal Mucosal Barrier: Involvement the Role of Probiotic, *Frontiers in Cell and Infection Microbiol.* 10:538077
- Garg, N., dan Garg, A., 2015, *Operative Dentistry*, New Delhi Jaypee Brothers, hal. 42 dan 45.
- Ge X, Shi X, Shi L, Liu J, Stone V, Kong F, et al., 2016, Involvement of NADH Oxidase in Biofilm Formation in *Streptococcus sanguinis*, *PLoS ONE* 11(3): e0151142. <https://doi.org/10.1371/journal.pone.0151142>
- Gunarti, N.S., Utari, F., 2018, Uji Aktivitas Fraksi Daun Sirih Merah, *Jurnal Farmasetis*, 7(2): 39-41.

- Gupta, P., Sarkar, S., Das, B., Bhattacharjee, S., and Tribedi, P., 2016, Biofilm, pathogenesis and prevention—a journey to break the wall: a review, *Archives of Microbiol*, 198, 1–15. doi: 10.1007/s00203-015-1148-6
- Hamzah, H., Hertiani, T., Pratiwi, S.U.T., Nuryastuti, T., 2019, The Inhibitory Activity of Tannin on the Formation of Mono-Species and Polymicrobial Biofilm *Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, and *Candida albicans*, *Traditional Medicine 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.
- Heliawati, L., Lestari, S., Hasanah, U., Ajiati, D., Kurnia, D., 2022, Phytochemical Profile of Antibacterial Agents from Red Betel Leaf (*Piper crocatum* Ruiz & Pav) against Bacteria in Dental Caries, *Molecules*, 27, 2861
- Hoffman, M. D., Zucker, L. I., Brown, P. J., Kysela, D. T., Brun, Y. V., & Jacobson, S. C. (2015). Timescales and Frequencies of Reversible and Irreversible Adhesion Events of Single Bacterial Cells. *Analytical chemistry*, 87(24), 12032–12039. <https://doi.org/10.1021/acs.analchem.5b02087>
- Huang, R., Li, M., Gregory, R.L., 2011, Bacterial interactions in dental biofilm, *Virulence*, 2(5): 435-444
- Januarti, I.B., Wijayanti R., Wahyuningsih, S., Nisa, Z., 2019, Potensi Ekstrak Terpurifikasi Daun Sirih Merah (*Piper crocatum* Ruiz & Pav.) Sebagai Antioksidan dan Antibakteri, *Journal of Pharmareutical Science and Clinical Research*, 02.
- Kaczmarek, B., 2020, Tannic Acid with Antiviral and Antibacterial Activity as A Promising Component of Biomaterials-A Minireview. *Materials* (Basel, Switzerland), 13(14), 3224. <https://doi.org/10.3390/ma13143224>
- Kemala, D., Hendiani, I., Satari, M.H., 2018, Uji daya antibakteri ekstrak etanol kulit buah manggis (*Garcinia mangostana* L) terhadap *Streptococcus sanguinis* ATCC 10556, *Padjajaran Journal Dental Resident Student*, 2(2): 137-140.
- Kementrian kesehatan, 2019, *Kesehatan Gigi Nasional*, InfoDATIN, Pusat Data dan Informasi Kementerian Kesehatan RI, pp. 184, 204
- Kining, E., Falah, S., Nurhidayat, N., (2016), The In Vitro Antibiofilm Activity of Water Leaf Extract of Papaya (*Carica papaya* L.) against *Pseudomonas aeruginosa*, *Current Biochemistry*, 2(3): 150-163.
- Kriebel K, Hieke C, Müller-Hilke B, Nakata M and Kreikemeyer B, 2018, Oral Biofilms from Symbiotic to Pathogenic Interactions and Associated Disease

–Connection of Periodontitis and Rheumatic Arthritis by Peptidylarginin Deiminase, *Frontiers in Microbioly*, 9:53. doi: 10.3389/fmicb.2018.00053

Kumar, S., Pandey, A.K., 2013, Chemistry and biological activities of flavonoids: an overview, *Scientific World Journal*, 1-16.

Kurniawati, A., Sulistiyani, Rahmah, A., 2019, Peran Ekstrak daun Wungu terhadap adhesi *Streptococcus mutans* pada neutrofil, *Cakradonya Dent Journal*, 11(2):128-134.

Lamont, R.J., Hajishengallis, G.N., Jenkinson, H.F., 2014, *Oral Microbiology an Immunology*, 2nd ed., Washington DC, pp. 59

Laurentina, M., Pradnyani, I.G.A.S., Pertiwi, N.K.F.R., 2021, Uji daya hambat ekstrak etanol daun kamboja putih (*Plumeria acuminata*) terhadap pertumbuhan *Streptococcus sanguinis* secara in-vitro, *Bali Dental Journal*, 5(1): 56-62

Marrelli, M., Conforti, F., Araniti, F. dan Statti, G.A., 2016, Effects of saponins on lipid metabolism: a review of potential health benefits in the treatment of obesity, *Molecules*, 21(10): 1–20.

Moerfiah, Supomo, F.D.S., 2011, Pengaruh Ekstrak Daun Sirih Merah (*Piper cf. Fragile Benth.*) Terhadap Bakteri Penyebab Sakit Gigi, *Ekologia*, 11(1).

Muhammad MH, Idris AL, Fan X, Guo Y, Yu Y, Jin X, Qiu J, Guan X and Huang T, 2020, Beyond Risk: Bacterial Biofilms and Their Regulating Approaches, *Frontiers in Microbioly*, 11:928. doi: 10.3389/fmicb.2020.00928

Neldawati, Ratnawulan, Gusnedi, 2013, Analisis Nilai Absorbansi dalam Penentuan Kadar Flavonoid untuk Berbagai Jenis Daun Tanaman Obat, *Pillar of Physics*, 2: 76-83

Oktanauli, P., Taher, P., dan Prakasa, A. D., 2017, Efek Obat Kumur Beralkohol Terhadap Jaringan Rongga Mulut, *Jurnal Ilmiah dan Teknologi Kedokteran Gigi FKG UPDM(B)*, Vol. 13(1): 4-7

Parashar, A., (2015), Mouthwashes and their use in different oral conditions, *Scholars Journal of Dental Sciences (SJDS)*, 2(2B): 186–191. www.saspublisher.com.

Parfati, N., dan Windono, T., 2016, Sirih Merah (*Piper crocatum* Ruiz & Pav.) Kajian Pustaka Aspek Botani, Kandungan Kimia, dan Aktivitas Farmakologi, *Media Pharmaceutica Indonesiana*, 1(2): 106-115.

Pena RT, Blasco L, Ambroa A, González-Pedrajo B, Fernández-García L, López M, Bleriot I, Bou G, García-Contreras R, Wood TK and Tomás M, 2019,

Relationship Between Quorum Sensing and Secretion Systems, *Frontiers in Microbiology*, 10:1100. doi: 10.3389/fmicb.2019.01100

Peres, M.A., Macpherson, L., Weyant, R.J., Daly, B., Venturelli, R., Mathur, M.R., Listi, S., Celeste, R.K., Guarnizo-Herreno, C.C., Kearns, C., Benzan, H., Allison, P., Watt, R.G., 2019, *Oral Diseases: a global public health challenge*, Lancet (London, England), 394(10194),249-260

Poeloengan M, Praptiwi P., 2012, Uji aktivitas antibakteri ekstrak kulit buah manggis (*Garcinia mangostana* Linn), *Media Litbang Kesehatan*, 20(2), h. 65-9.

Pratiwi, I., Suswati, I., 2012, Efek Ekstrak Daun Sirih Merah (*Piper crocatum* Ruiz & Pav) Terhadap Pertumbuhan *Streptococcus Pneumoniae*, *E-Journal UMM*, 8(1).

Puspita, P.J., Safithri, M., Sugiharti, N.P., 2018, Antibacterial Activities of Sirih Merah (*Piper crocatum*) Leaf Extracts, *Current Biochemistry*, 5(3): 1-10.

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.

Rathee M, Sapra A. Dental Caries. [Updated 2021 Oct 6]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK551699/>

Rachmawaty, F.J., Akhmad, M.M., Pranacipta, S.H., Nabila, Z., Muhammad, A., 2018, Optimasi Ekstrak Etanol Daun Sirih Merah (*Piper Crocatum*) sebagai Antibakteri terhadap Bakteri *Staphylococcus Aureus*, *Jurnal Kedokteran dan Kesehatan: Mutiara Medika*, 18(1), 13-19.

Rinanda, T., Zulfitri, & Alga, D. M., 2012, Antibacterial activity of red betel (*Piper crocatum*) leaf methanolic extracts against methicillin resistant *Staphylococcus aureus*. *Proceedings of the 2nd Annual International Conference Syiah Kuala University & The 8th IMT-GT Uninet Biosciences Conferen*, II (1), 270-275.

Suri, M., Azizah, Z., & Asra, R., 2021, A Review: Traditional Use, Phytochemical and Pharmacological Review of Red Betel Leaves (*Piper crocatum* Ruiz & Pav), *Asian Journal of Pharmaceutical Research and Development*, 9(1), 159-163. <https://doi.org/https://doi.org/10.22270/ajprd.v9i1.926>

Tartaglia, G. M., Tadakamadla, S. K., Connelly, S. T., Sforza, C., & Martín, C. (2019). Adverse events associated with home use of mouthrinses: a systematic review. *Therapeutic Advances in Drug Safety*. <https://doi.org/10.1177/2042098619854881>

- Takenaka, S., Ohsumi, T., & Noiri, Y., 2019, Evidence-based strategy for dental biofilms: Current evidence of mouthwashes on dental biofilm and gingivitis, *The Japanese dental science review*, 55(1), 33–40. <https://doi.org/10.1016/j.jdsr.2018.07.001>
- Tandelilin, R. TC., & Saini, R., 2018, *Dental Plaque : A Biofilm*, PT. Kanisius, Sleman, pp. 1, 47.
- Thakur, P., Chawla, R., Tanwar, A., Chakotiya, A.S., Narula, A., Goel, R., Arora, R., & Sharma, R.K., 2016, Attenuation of adhesion, quorum sensing and biofilm mediated virulence of carbapenem resistant *Escherichia coli* by selected natural plant products, *Microbial pathogenesis*, 92, 76-85
- Tortora, G.J., Funke, B.R., Case, C.L., 2019, *Microbiology an Introduction*, 13th e.d., Pearson, Boston, pp. 158
- Trentin, D.S, Silva, D.B, Amaral, M.W, Zimmer, K.R, Silva, M.V, et al., 2013, Tannins Possessing Bacteriostatic Effect Impair *Pseudomonas aeruginosa* Adhesion and Biofilm Formation, *PLoS ONE*, 8(6): e66257. doi:10.1371/journal.pone.0066257
- World Health Organization, 2022, Oral Health, <https://www.who.int/news-room/fact-sheets/detail/oral-health>, diakses 16 Februari 2022
- Zhu, B., Macleod, L. C., Kitten, T., & Xu, P., 2018, *Streptococcus sanguinis* biofilm formation & interaction with oral pathogens, *Future microbiology*, 13(8), 915–932. <https://doi.org/10.2217/fmb-2018-0043>