

## DAFTAR PUSTAKA

- Abebe, G. M. 2020. The role of bacterial biofilm in antibiotic resistance and food contamination. *International journal of microbiology*, 2020(1), 1705814.
- Adonizio, A. L., Downum, K., Bennett, B. C., & Mathee, K. 2006. Anti-quorum sensing activity of medicinal plants in southern Florida. *Journal of ethnopharmacology*, 105(3), 427-435.
- Asfour, H. Z. 2018. Anti-quorum sensing natural compounds. *Journal of microscopy and ultrastructure*, 6(1), 1-10.
- Bai, X., P. Liu, W. Wang., Y. Jin., Q. Wang. Y. Qi, X. Zhang., W. Sun., W. Fang., X. Han., dan W. Jiang. 2024. TssL2 of T6SS2 is required for mobility, biofilm formation, wrinkly phenotype formation, and virulence of *Vibrio parahaemolyticus* SH112. *Applied Microbiology and Biotechnology*. 108(537).
- Behzadnia, A., M. Moosavi-Nasab., dan N. Oliyaei. 2024. Anti-biofilm activity of marine algae-derived bioactive compounds. *Front Microbiol.* 15(1270174). DOI: [10.3389/fmicb.2024.1270174](https://doi.org/10.3389/fmicb.2024.1270174).
- Christodoulou, M. S., F. Villa., A. Pinto., dan F. Cappitelli. Correlation between perturbation of redox homeostasis and antibiofilm capacity of phytochemicals at non-lethal concentrations. *Antioxidants*. 11(12).
- Coenye, T dan H. J. Nelis. 2010. In vitro and in vivo model systems to study microbial biofilm formation. *Microbiology Methods*. 83(2), 89-105. DOI: [10.1016/j.mimet.2010.08.018](https://doi.org/10.1016/j.mimet.2010.08.018).
- Coffey, B. M., dan G. G. Anderson. 2014. Biofilm formation in the 96-well microtiter plate. *Pseudomonas Methods and Protocols*, Method in Molecular Biology. 631-641.
- Doghri, I., F. Brian-Jaisson., M. Graber., A. Bazire., A. Dufour., M. Bellon-Fontaine., H. Jean-Marie., A. C. Ferro., V. Sopena., dan I. Lanneluc. 2020. Antibiofilm activity in the culture supernatant of a marine *Pseudomonas* sp. bacterium. *Microbiology*. 166(3).
- Elbestawy, M. K. M., G. M. El-Sherbiny., S. A. Moghannem., dan E. E. Farghal. 2023. Antibacterial, antibiofilm, and anti-inflammatory activities of ginger extract against *Helicobacter pylori*. *Microbiol. Res.* 14(3), 1124-1138
- Elfaky, M.A., H. M. Okairy., H. M. Abdallah., A. E. Koshak., G. A. Mohamed., S. R. M. Ibrahim., A. A. Alzain., W. A. H. Hegazy., E. Khafagy., dan N. M. Seleem. 2024. Assesing the antibacterual potential of 6-gingerol: Combined experimental and computational approaches. *Saudi Pharmaceutical Journal*. 32(5).
- Feberian, Y., dan D. Fitriati. 2022. Klasifikasi rimpang menggunakan convolution neural network. *Journal of Informatics and Advanced Computing (JIAC)*. 3(1), 10-14.
- Filho, J. G. O., M. J. De Almeida., T. L. Sousa., D. C. dos Santos., dan M. B. Egea. 2021. Bioactive Compound of Tumeric (*Curcuma longa* L.) In H. N. Murthy dan K. Y.

- Paek. 2021. Bioactive compounds in underutilized vegetables and legumes. Springer Reference.
- Frischkorn, K. R., A. Stojanovski, dan R. Paranjpye. 2013. *Vibrio parahaemolyticus* type IV pili mediate interactions with diatom-derived chitin and point to an unexplored mechanism of environmental persistence. *Environmental microbiology*. DOI: 10.1111/1462-2920.12093.
- Ilhami, M. F. A., dan S. Wibisono. 2023. Klasifikasi rimpang menggunakan metode jaringan saraf konvolusi dengan arsitektur Alexnet. *Journal of Information Technology and Computer Science*. 6(2), 666-670.
- Jamal, M., Ahmad, W., Andleeb, S., Jalil, F., Imran, M., Nawaz, M. A., ... & Kamil, M. A. 2018. Bacterial biofilm and associated infections. *Journal of the chinese medical association*, 81(1), 7-11.
- Jones, J. L. 2014. *Vibrio* | introduction, including *vibrio parahemolyticus*, *vibrio vulnificus*, and other *vibrio* species. *Encyclopedia of Food Microbiology* (Second Edition). 691-698.
- Jung, S. W. 2018. A foodborne outbreak of gastroenteritis caused by *Vibrio parahaemolyticus* associated with cross-contamination from squid in Korea. *Epidemiol Health*. 40. DOI: [10.4178/epih.e2018056](https://doi.org/10.4178/epih.e2018056).
- Karunasagar, I., B. Maiti., dan B. K. Kumar. 2018. Molecular methods to study *Vibrio parahaemolyticus* and *Vibrio vulnificus* from atypical environments. *Methods in Microbiology*. ISSN 0580-9517.
- Kim, H. S., & Park, H. D. 2013. Ginger extract inhibits biofilm formation by *Pseudomonas aeruginosa* PA14. *PLoS one*, 8(9), e76106.
- Kumar, L., Chhibber, S., & Harjai, K. 2013. Zingerone inhibit biofilm formation and improve antibiofilm efficacy of ciprofloxacin against *Pseudomonas aeruginosa* PAO1. *Fitoterapia*, 90, 73-78.
- Kumar, R., Ng, T. H., & Wang, H. C. 2020. Acute hepatopancreatic necrosis disease in penaeid shrimp. *Reviews in Aquaculture*, 12(3), 1867-1880.
- Li, D., B. Zhou., dan B. Lv. 2020. Antibacterial therapeutic agents composed of functional biological molecules. *Journal of Chemistry*.
- Li, L., Meng, H., Gu, D., Li, Y., dan Jia, M. 2019. Molecular mechanism of *Vibrio parahaemolyticus* pathogenesis. *Microbiological Research*. 222. 43-51
- Lima, E. M. F., Winans, S. C., & Pinto, U. M. 2023. Quorum sensing interference by phenolic compounds—A matter of bacterial misunderstanding. *Heliyon*, 9(7).
- Liu, F., W. Fei., Y. Yixuan., L. Xiaoran., Z. Xiaojun., Y. Menghua. 2023. Quorum sensing signal synthases enhance *Vibrio parahaemolyticus*. *Molecular Microbiology*. 120(2), 241-257.
- Liu, H. Y., E. L. Prentice., dan M. A. Webber. 2024. Mechanisms of antimicrobial resistance in biofilms. *Npj Antimicrobials and Resistance*. 2(27). DOI: [doi.org/10.1038/s44259-024-00046-3](https://doi.org/10.1038/s44259-024-00046-3).

- Lopez, D., H. Vlamakis., dan R. Kolter. 2010. Biofilm. *Cold Spring Harb Perspect Biol.* 27). DOI: [10.1101/cshperspect.a000398](https://doi.org/10.1101/cshperspect.a000398).
- Madigan, M. T., J. M. Martinko., K. S. Bender., D. H. Buckley., dan D. A. Stahl. 2015. Brock Biology of Microorganism. Pearson Education, Inc:United States of America. ISBN: 978-0-321-89739-8.
- Mangoudehi, H. T., H. Zamani., S. S. Shahangian., dan L. Mirzanejad. 2020. Effect of curcumin on the expression of *ahyl/R* quorum sensing genes and some associated in pathogenic *Aeromonas hydrophila* fish isolates. *World Journal of Microbiology and Biotechnology.* 36(70).
- Mao, Q. Q., Xu, X. Y., Cao, S. Y., Gan, R. Y., Corke, H., Beta, T., & Li, H. B. 2019. Bioactive compounds and bioactivities of ginger (*Zingiber officinale* Roscoe). *Foods*, 8(6), 185.
- Mohamad, N., Amal, M. N. A., Yasin, I. S. M., Saad, M. Z., Nasruddin, N. S., Al-saari, N., ... & Sawabe, T. 2019. Vibriosis in cultured marine fishes: a review. *Aquaculture*, 512, 734289.
- Na, H.S., M. H. Cha., O. Dool-Ri., C. Cheong-Weon., J. H. Rhee., dan Y. R. Kim. 2011. Protective mechanism of curcumin against *Vibrio vulnificus* infection. *FEMS Immunol Med Microbiol.* 63. 355-362.
- Othman, A. F., Rukayadi, Y., & Radu, S. (2019). Inhibition of *Pseudomonas aeruginosa* quorum sensing by *Curcuma xanthorrhiza* Roxb. Extract. *Journal of Pure & Applied Microbiology*, 13(3).
- Packiavathy, I. A. S. V., Priya, S., Pandian, S. K., & Ravi, A. V. 2014. Inhibition of biofilm development of uropathogens by curcumin—an anti-quorum sensing agent from *Curcuma longa*. *Food chemistry*, 148, 453-460.
- Pepi, M dan S. Focardi. 2021. Antibiotic-resistant bacteria in aquaculture and climate change: A challenge for health in the mediterranean area. *Int J Environ Res Public Health.* 18(15).
- Perrone, P dan S. D'angelo. 2025. Hormesis and health: molecular mechanism and the key role of polyphenols. *Food Chemistry Advance.* 101030.
- Preda, V. G., dan O. Sandulescu. 2019. Communication is the key: biofilms, quorum sensing, formation, and prevention. *Discoveries (Craiova).* 7(3). DOI: [10.15190/d.2019.13](https://doi.org/10.15190/d.2019.13).
- Rahmat, E., Lee, J., & Kang, Y. 2021. Javanese turmeric (*Curcuma xanthorrhiza* Roxb.): Ethnobotany, phytochemistry, biotechnology, and pharmacological activities. *Evidence-Based Complementary and Alternative Medicine*, 2021(1), 9960813.
- Rutherford, A. dan B. L. Bassler. 2012. Bacterial quorum sensing: its role in virulence and possibilities for its control. *Cold Spring Harbor Perspect Med.* 2(11).
- Samrot, A. V., A. A. Mohamed., E. Faradjeva., L. S. Jie., C. H. Sze., A. Arif., T. C. Sean., E. N. Michael., C. Y. Mun., N. X. Qi., P. L. Mok., dan S. S. Kumar. 2021.

Mechanism and impact of Biofilms and targeting of biofilms using bioactive compounds—A Review. *Medicina*. 57(8). DOI: <https://doi.org/10.3390/medicina57080839>.

- Samrot, A. V., Abubakar Mohamed, A., Faradjeva, E., Si Jie, L., Hooi Sze, C., Arif, A., ... & Kumar, S. S. 2021. Mechanisms and impact of biofilms and targeting of biofilms using bioactive compounds—A review. *Medicina*, 57(8), 839.
- Sanches-Fernandes, I. Sa-Correia, dan R. Costa. 2022. Vibriosis outbreaks in aquaculture: addressing environmental and public health concerns and preventive therapies using gilthead seabream farming as a model system. *Front. Microbiol.* 13.
- Soowannayan, C., S. Boonmee., S. Puckcharoen., T. Anatamsombat., P. Yatip., N. Wing-Keong., S. Thitamadee., P. Tuchinda., B. Munyoo., N. Chabang., B. Nuangsaeng., M. Sonthi., dan B. Withyachumnarnkul. 2019. Ginger and its component shogaol inhibit *Vibrio* biofilm formation in vitro and orally protect shrimp against acute hepatopancreatic necrosis disease (AHPND). *Aquaculture*. 504, 139-147.
- Stolaj, E., Belfiori, B., Mercuri, A., Papili, R., Rosignoli, D., Albagini, M., ... dan Francisci, D. 2023. Acute gastroenteritis due to *Vibrio cholerae* biovar albensis infection: A case report. *IDCases*, 33, e01878.
- Tamfu, A. N., O. Ceylan., G. Carac., E. Talla., dan R. M. Dinica. 2022. Antibiofilm and anti-quorum sensing potential of cycloartane-type triterpene acids from cameroonian grassland propolis: phenolic profile and antioxidant activity of crude extract. *Molecules*. 27(15). DOI: <https://doi.org/10.3390/molecules27154872>.
- Valente, C., & Wan, A. H. 2021. *Vibrio* and major commercially important vibriosis diseases in decapod crustaceans. *Journal of Invertebrate Pathology*, 181, 107527.
- Vestby, L. K., T. Gronseth., R. Simm., dan L. L. Nesse. 2020. Bacterial biofilm and its role in the pathogenesis of disease. *Antibiotics*. 9(2), 59. DOI: [10.3390/antibiotics9020059](https://doi.org/10.3390/antibiotics9020059).
- Wu, L dan Y. Luo. 2021. Bacterial quorum-sensing systems and their role in intestinal bacteria-host crosstalk. *Front. Microbiol.* 12(611413).
- Zhang, Q., L. Li-Gen., dan Y. Wen-Cai. 2018. Techniques for extraction and isolation of natural products: a comprehensive review. *Chinese Medicine*. 13(20).
- Zhao, A., J. Sun., dan Y. Liu. 2023. Understanding bacterial biofilms: from definition to treatment strategies. *Front Cell Infect Microbiol.* 6(13). DOI: [10.3389/fcimb.2023.1137947](https://doi.org/10.3389/fcimb.2023.1137947).