

DAFTAR PUSTAKA

- Anam, C., Khumaidi, A., & Muqsith, A. (2016). Manajemen Produksi Naupli Udang Vaname (*Litopenaeus vannamei*) Di Instalasi Pembenihan Udang (IPU) Gelung Balai Perikanan Budidaya Air Payau (BPBAP) Situbondo Jawa Timur. *Jurnal Ilmu Perikanan*, 7(2), 2503-2283. <https://api.semanticscholar.org/CorpusID:90768712>
- Aziz, R. N., & Chaidir, R. R. A. Isolasi Bakteri *Vibrio* sp. Resisten Antibiotik Pada Sampel Udang Vaname (*Litopenaeus Vannamei*) Dari Pasar Seketeng. *Journal of Life Science and Technology*, 2(1), 26-35. <https://jurnal.uts.ac.id/biomaras/article/view/3075>
- Baron, S., Larvor, E., Chevalier, S., Jouy, E., Kempf, I., Granier, S. A., & Lesne, J. (2017). Antimicrobial susceptibility among urban wastewater and wild shellfish isolates of non-O1/non-O139 *Vibrio cholerae* from La Rance estuary (Brittany, France). *Frontiers in Microbiology*, 8, 1637. <https://doi.org/10.3389/fmicb.2017.01637>
- BPS Kabupaten Takalar. (2013). *Biro Pusat Statistik 2013*. Kabupaten Takalar Dalam Angka, Makassar.
- Cabello, F. C., Godfrey, H. P., Buschmann, A. H., & Dölz, H. J. (2016). Aquaculture as yet another environmental gateway to the development and globalisation of antimicrobial resistance. *The Lancet Infectious Diseases*, 16(7), e127-e133. [https://doi.org/10.1016/S1473-3099\(16\)00100-6](https://doi.org/10.1016/S1473-3099(16)00100-6)
- Caroll, K. C., Butel, J. S., Morse, S. A., Mietzner, T., Detrick, B., Mitchell, T. G., McKerrow, J. H., & Sakanari, J. A. (2016). *Jawetz, Melnick, & Adelberg's Medical Microbiology, 27th Edition*. McGraw-Hill: New York.
- Centers for Disease Control and Prevention [CDC]. (2020). *Vibrio illness (Vibriosis)*. U.S. Department of Health and Human Services. <https://www.cdc.gov/vibrio/index.html>
- Chen, L., Fan, J., Yan, T., Liu, Q., Yuan, S., Zhang, H., Yang, J., Deng, D., Huang, S., & Ma, Y. (2019). Isolation and characterization of specific phages to prepare a cocktail preventing *Vibrio* sp. Va-F3 infections in shrimp (*Litopenaeus vannamei*). *Frontiers in Microbiology*, 10(1), 2337. <https://doi.org/10.3389/fmicb.2019.02337>
- Chusna, N., Pratomo, G. S., & Murwanda L. (2018). Profil Penggunaan Obat Antibiotik Golongan Penisilin Di Apotek Rawat Jalan Rsud Kuala Kurun. *Borneo Journal of Pharmacy*, 1(1), 41-43. <https://doi.org/10.33084/bjop.v1i1.246>
- Clifton, L., Birks, J., dan Clifton, D. A. 2019. Comparing different ways of calculating sample size for two independent means: A worked example. *Contemporary Clinical Trials Communications*. 13(1): 1-7. <https://doi.org/10.1016/j.conctc.2018.100309>
- Clinical and Laboratory Standards Institute (CLSI). (2016). Performance Standards for Antimicrobial Susceptibility. 26 Edition. USA: Pennsylvania.
- Deng, Y., Tan, A., Zhao, F., Sun, K., Liang, Z., Cao, J., & Guo, Y. (2025). Global

- distribution of antimicrobial resistance genes in aquaculture. *One Health Advances*, 3(1), 6. <https://doi.org/10.1186/s44280-025-00071-5>
- Elmahdi, S., DaSilva, L. V., & Parveen, S. (2016). Antibiotic resistance of *Vibrio parahaemolyticus* and *Vibrio vulnificus* in various countries: A review. *Food Microbiology*, 57, 128-134. <https://doi.org/10.1016/j.fm.2016.02.008>
- Elmahdi, S., Parveen, S., Ossai, S., DaSilva, L. V., Jahncke, M., Bowers J., & Jacobs, J. (2018). *Vibrio parahaemolyticus* and *Vibrio vulnificus* recovered from oysters during an oyster relay study. *Applied and Environmental Microbiology*, 88(5), e02194-21. <https://doi.org/10.1128/aem.01790-17>
- Fajrani, B., Budiharjo, A., & Pujiyanto, S. (2018). Isolasi dan identifikasi molekuler bakteri antagonis terhadap *Vibrio parahaemolyticus* patogen pada udang *Litopenaeus vannamei* dari produk probiotik dan sedimen mangrove di Rembang. *Jurnal Biologi*, 7(1), 52-63. <https://ejournal3.undip.ac.id/index.php/biologi/article/view/19626>
- Food and Agriculture Organization [FAO]. (2020). *Antimicrobial resistance in aquaculture: Current status and options for action*. FAO Fisheries and Aquaculture Technical Paper No. 644. Rome, Italy.
- Hadi, F. R., Riyanti, I., Subhan, U., & Ihsan, Y. N. (2018). Efek Cekaman Salinitas Rendah Perairan Terhadap Kemampuan Adaptasi Udang Vaname (*Litopenaeus Vannamei*). *Jurnal Perikanan dan Kelautan*, 9(2), 72-79. <https://jurnal.unpad.ac.id/jpk/article/view/20669>
- Harlina, MP. (2018). *Penyakit Bakterial Pada Udang Windu*. Pustaka Al Zikra: Makassar.
- Hamzah, H., Mundayana, Y., Srinawati, S., Afandi, A. A., Batubara, H., Lideman, L., Sahabuddin, S., Akmal, A., Syaichudin, M., Faridah, S., Sudrajat, I., & Gafur, A. (2024). Level of antibiotic resistance in *Vibrio parahaemolyticus* bacteria isolated from shrimp: Observation of shrimp ponds in South Sulawesi Province. *Islamic Research*, 3(2), 128-136. <https://doi.org/10.47076/jkpi.v7i2.318>
- Haris, A. T. L. P. L. (2019). Analisis efisiensi usaha tambak udang vannamei (*Litopenaeus vannamei*) di Kabupaten Takalar. *Jurnal Sketsa Bisnis*, 6(1), 35-42. <https://doi.org/10.35891/jsb.v6i1.1605>
- Hernando-Amado, S., Coque, T. M., Baquero, F., & Martínez, J. L. (2019). Defining and combating antibiotic resistance from One Health and Global Health perspectives. *Nature Microbiology*, 4(9), 1432-1442. <https://doi.org/10.1038/s41564-019-0503-9>
- Jannah, M., Junaidi, M., Setyowati, D. N., & Azhar, F. (2018). Pengaruh Pemberian *Lactobacillus* Sp. Dengan Dosis Yang Berbeda Terhadap Sistem Imun Udang Vaname (*Litopenaeus Vannamei*) Yang Diinfeksi Bakteri *Vibrio Parahaemolyticus*. *Jurnal Kelautan*, 11(2), 140-150. <https://doi.org/10.21107/jk.v11i2.3980>
- Kamaruddin, Telussa, R. F., & Ernaningsih, D. (2019). Analisis Kualitas Ikan Hasil Tangkapan Pancing Ulur Dan Bubu Di Pulau Tidung, Perairan Kepulauan Seribu Dki. *Jurnal Satya Minabahari*, 4(2), 101-114.

- <https://doi.org/10.53676/jism.v4i2.68>
- Khan, F., Sadique, A., Jaber, A. A., Hossain, M. S. A., Imam, R., Rahman, M. M., Alam, J., Rafsan, R., Saha, K., Faik, M. A., Das, T. K., Ahmed, O., Shams, F., Sharmin, A., Hossain, M. M., Rumman, K., Alam, M., & Hossain, M. (2025). Draft genome report of *Vibrio alginolyticus* from marine water of Saint Martin Island, Bangladesh. *Microbiology Resource Announcements*, 1(1), 1-3. <https://doi.org/10.1128/mra.01290-24>.
- Kumar, R., Ng, T. H., & Wang, H. C. (2021). Acute hepatopancreatic necrosis disease in pigs: Etiology, diagnosis, and control measures. *Reviews in Aquaculture*, 13(2), 1081-1104. <https://doi.org/10.1111/raq.12514>
- Kurniawan, Asmarita, & Supratman, O. (2017). Identifikasi Jenis Ikan (Penamaan Lokal, Nasional Dan Ilmiah) Hasil Tangkapan Utama (Htu) Nelayan Dan Klasifikasi Alat Penangkap Ikan Di Pulau Bangka Provinsi Kepulauan Bangka Belitung. *Jurnal Sumberdaya Perairan*, 13(1), 42-51. <https://doi.org/10.33019/akuatik.v13i1.1107>
- Kurniawan, E., Jekti, D. S. D., & Zulkifli, L. (2019). Aktivitas Antibakteri Ekstrak Metanol Batang Bidara Laut (*Strychnos ligustrina*) Terhadap Bakteri Patogen. *Jurnal Biologi Tropis*, 19(1), 61-69. <https://doi.org/10.29303/jbt.v19i1.1040>
- Kusmarwati, A., Yennie, Y., & Indriati N. (2017). Resistensi Antibiotik Pada *Vibrio Parahaemolyticus* Dari Udang Vaname Asal Pantai Utara Jawa Untuk Pasar Ekspor. *JPB Kelautan dan Perikanan*, 12(2), 91-106. <https://doi.org/10.15578/jpbkp.v12i2.352>
- Laxminarayan, R., Matsoso, P., Pant, S., Brower, C., Røttingen, J. A., Klugman, K., & Davies, S. (2016). Access to effective antimicrobials: A worldwide challenge. *The Lancet*, 387(10014), 168-175. [https://doi.org/10.1016/S0140-6736\(15\)00474-2](https://doi.org/10.1016/S0140-6736(15)00474-2)
- Li, L., Dechesne, A., He, Z., Madsen, J. S., Nesme, J., Sørensen, S. J., & Smets, B. F. (2020). Estimating the transfer range of plasmids encoding antimicrobial resistance in a wastewater treatment plant microbial community. *Environmental Science & Technology Letters*, 7(8), 571-577. <https://doi.org/10.1021/acs.estlett.8b00105>
- Mahulauw, F. R., Lamadi, A., & Mulis. (2022). Patogenitas Bakteri *Vibrio* sp. pada Udang Vannamei di Kabupaten Puhuwato. *Jurnal Ilmiah Perikanan dan Kelautan*, 10(1), 31-40. <https://doi.org/10.37905/nj.v10i1.11192>
- Martinez, J. L., Coque, T. M., & Baquero, F. (2014). What is a resistance gene? Ranking risk in resistomes. *Nature Reviews Microbiology*, 13, 116-123. <https://doi.org/10.1038/nrmicro3399>
- Munita, J. M., & Arias, C. A. (2016). Mechanisms of antibiotic resistance. *Microbiology Spectrum*, 4(2), VMBF-0016-2015. <https://doi.org/10.1128/microbiolspec.VMBF-0016-2015>
- Muzahar. (2020). *Teknologi dan Manajemen Budidaya Udang*. UMRAH PRESS: Tanjungpinang.

- Milijasevic, M., Veskovic-Moracanin, S., Babic Milijasevic, J., Petrovic, J., & Nastasijevic, I. (2024). Antimicrobial resistance in aquaculture: Risk mitigation within the One Health context. *Foods*, 13(15), 2448 . <https://doi.org/10.3390/foods13152448>
- Nurhasanah, Junaidi, M., & Azhar, F. (2021). Tingkat Kelangsungan Hidup Dan Pertumbuhan Udang Vaname (*Litopenaeus Vannamei*) Pada Salinitas 0 Ppt Dengan Metode Aklimatisasi Bertingkat Menggunakan Kalsium CaCO₃. *Jurnal Perikanan*, 11(2), 166-177. <https://doi.org/10.29303/jp.v11i2.241>
- Ramadani, M. F., Salsabila, S., Ratna, M., Iskandar, A. S., Hajirah, R. N., Azani, S. A., & Putri, N. E. (2023). *Teknik Budidaya Udang Vaname Skala Super Intensif*. Penerbit Jurusan Biologi Universitas Negeri Makassar: Makassar.
- Reverter, M., Sarter, S., Caruso, D., Avarre, J. C., Combe, M., Pepey, E., Pouyaud, L., Vega-Heredía, S., de Verdal, H., & Gozlan, R. E. (2020). Aquaculture at the crossroads of global warming and antimicrobial resistance. *Nature Communications*, 11(1), 1870. <https://doi.org/10.1038/s41467-020-15735-6>
- Rocha, R. dos S., Sousa, O. V., & Vieira, R. H. (2016). Multidrug-resistant *Vibrio* associated with an estuary affected by shrimp farming in Northeastern Brazil. *Marine Pollution Bulletin*, 105(1), 337-340. <https://doi.org/10.1016/j.marpolbul.2016.02.001>
- Rodkhum, C., Hirono, I., Crosa, J. H., & Aoki, T. (2006). Multiplex PCR for simultaneous detection of five virulence-associated genes in *Vibrio anguillarum*. *Journal of Microbiological Methods*, 175, 105979. <https://doi.org/10.1016/j.mimet.2005.09.009>
- Santos, L., & Ramos, F. (2018). Antimicrobial resistance in aquaculture: Current knowledge and alternatives to tackle the problem. *International Journal of Antimicrobial Agents*, 52(2), 135-143. <https://doi.org/10.1016/j.ijantimicag.2018.03.010>
- Sari, J. M., & Hafiludin. (2023). Analisis Kadar Residu Antibiotik Kloramfenikol Pada Udang Vannamei (*Litopenaeus Vannamei*) Di Kabupaten Bangkalan Dengan Metode Elisa (Enzym Link Immunosorbentassay). *Juvenil*, 4(2), 84-89. <https://doi.org/10.21107/juvenil.v4i2.18075>
- Schar, D., Klein, E. Y., Laxminarayan, R., Gilbert, M., & Van Boeckel, T. P. (2020). Global trends in antimicrobial use in aquaculture. *Scientific Reports*, 10(1), 21878. <https://doi.org/10.1038/s41598-020-78849-3>
- Shaw, K. S., Rosenberg Goldstein, R. E., He, X., Jacobs, J. M., Crump, B. C., & Sapkota, A. R. (2020). Antimicrobial susceptibility of *Vibrio vulnificus* and *Vibrio parahaemolyticus* recovered from recreational and commercial areas of Chesapeake Bay and Maryland Coastal Bays. *PLOS ONE*, 15(1), e0227337. <https://doi.org/10.1371/journal.pone.0227337>
- Sholih, M. G., Muhtadi, A., & Saidah, S. (2015). Rasionalitas Penggunaan Antibiotik di Salah Satu Rumah Sakit Umum di Bandung Tahun 2010. *Jurnal Farmasi Klinik Indonesia*, 4(1), 63-70.
- Siregar, T., Hendra, B., & Syafitri, E. (2021). Isolasi Dan Identifikasi *Vibrio Parahaemolyticus* Pada Udang Vaname (*Litopenaeus Vannamei*) Penyebab

- Penyakit Vibriosis. *Jurnal Aquaculture Indonesia*, 1(1), 7-14.
- Suprakto, B., Lestari, M. D., Aulia, D., Hakimah, N., & Wartini, S. (2024). Analisis komposisi dan kelimpahan bakteri *Vibrio* sp. pada budidaya udang vannamei (*Litopenaeus vannamei*) sistem intensif. *Jurnal Perikanan*, 14(1), 215-224. <https://doi.org/10.29303/jp.v14i1.777>
- Triani, Rahmawati, & Turnip, M. (2017). Aktivitas Antifungi Ekstrak Metanol Jamur Kuping Hitam (*Auricularia polytricha*) terhadap *Aspergillus flavus* (UH 26). *Jurnal Labora Medika*, 1(2), 14-20.
- Vu, T. T. T., Hoang, T. T. H., Fleischmann, S., Pham, H. N., Lai, T. L. H., Cam, T. T. H., Truong, L. O., Le, V. P., Phung, D. C., & Alter, T. (2022). Quantification and antimicrobial resistance of *Vibrio parahaemolyticus* in retail seafood in Hanoi, Vietnam. *Journal of Food Protection*, 85(5), 786-791. <https://doi.org/10.4315/JFP-21-362>
- Watts, J. E., Schreier, H. J., Lanska, L., & Hale, M. S. (2017). The rising tide of antimicrobial resistance in aquaculture: Sources, sinks and solutions. *Marine Drugs*, 15(6), 158. <https://doi.org/10.3390/md15060158>
- Witoko, P., Purbosari, N., Noor, N. M., Hartono, D. P., Barades, E., & Bokau, R. J. Budidaya Udang Vaname (*Litopenaeus Vannamei*) di Keramba Jaring Apung Laut. *Prosiding Nasional Pengembangan Teknologi Pertanian*, 1(1), 410-418.
- Yano, Y., Hamano, K., Satomi, M., Tsutsui, I., Ban, M., & Aue-umneoy, D. (2014). Prevalence and antimicrobial susceptibility of *Vibrio* species related to food safety isolated from shrimp cultured at inland ponds in Thailand. *Food Control*, 38, 30-36.
- Zdolec, N., Bogdanović, T., Vitula, F., Kiš, M., Blažević, N., Mrvčić, J., & Mengoni, A. (2024). Antimicrobial resistance in aquaculture: Risk mitigation within the One Health context. *Foods*, 13(15), 2448. <https://doi.org/10.3390/foods13152448>
- Zhang, S., Wang, Y., Song, H., Lu, J., Yuan, Z., & Guo, J. (2019). Copper nanoparticles and copper ions promote horizontal transfer of plasmid-mediated multi-antibiotic resistance genes across bacterial genera. *Environment International*, 129, 478-487. <https://doi.org/10.1016/j.envint.2019.05.054>