

DAFTAR PUSTAKA

- [KKP] Kementerian Kelautan dan Perikanan. 2020. KKP news: Pemerintah
- Achmad, H., D. Susanti, D. Lantiany, Suprianto, I. Dedy, H. Novianto, dan R. Hafit. 2020. Penilaian resiko hama dan penyakit ikan karantina sebagai upaya pencegahan penyebarannya melalui lalu lintas komoditas perikanan dari Yogyakarta. *Journal of Fisheries and Marine Science* 2(2): 87-91.
- Anderson, J. L., D. Valderrama, D. E. Jory. 2019. GOAL: Global shrimp production review. Portsmouth, USA.
- Ayiku, S., J. Shen, B. Tan, X. Dong, and H. Liu. 2020. Effects of dietary yeast culture on shrimp growth, immune response, intestinal health and disease resistance against *Vibrio harveyi*. *Fish and Shellfish Immunology* 102: 286-295.
- Bell, T. A., and D. V. Lightner. 1988. A Handbook of Normal Penaeid Shrimp Histology. World Aquaculture Society, Baton Rouge, LA.
- Blaxhall, P. C., and K. W. Daisley. 1973. Routine haematological method for use with fish blood. *Journal Fish Biology* 5: 577-581.
- Centre for Health Protection. 2010. Scientific committee on enteric infections and foodborne diseases food poisoning associated with *V. parahaemolyticus* in Hong Kong current situation and recommendations. Department of Health for Disease Prevention and Control. 15 p
- Chen, W.M., X. Dong., L. Qiu., X. Y. Wan., G. S. Xie., and J. Huang. 2018. Quantitative analysis of acute hepatopancreatic necrosis disease causing *Vibrio parahaemolyticus* (Vp_{AHPND}) in Infected *Litopenaeus vannamei*. *Prog. Fish Science* 39: 93-100.
- Corry, J. E. L., G. D. W. Curtis, and R. M. Baird. 1996. Handbook of Culture Media for Food Microbiology. Elsevier 37: 612-614.
- Culot, A., N. Grosset, Q. Bruey, M. Auzou, J. C. Giard, B. Favard, A. Wkatsuki., and M. Gautier. 2021. Isolation of Harveyi clade *Vibrio spp.* collected in aquaculture farms: how can the identification issue be addressed?. *Journal of Microbiology Logical Methods* 180: 106106.
- Darwanti, K., S. Romziah, dan G. Mahasri. 2016. Efisiensi penggunaan imunostimulan dalam pakan terhadap laju pertumbuhan, respon imun, dan kelulushidupan Udang Vanamei (*Litopenaeus vannamei*). *Jurnal Biosains Pascasarjana* 18(2): 1-17.
- Devi, A. R., A. Susilowati, dan R. Setyaningsih. 2019. Morphology, molecular identification and pathogenicity of *Vibrio spp.* in blood clam (*Anadara granosa*) in Yogyakarta, Indonesia tourism beach areas. *Biodiversitas* 20(10): 2890-2896.
- DePaola, A., L. H. Hopkin, J. T. Peeler, B. Wentz, R. M. McPhearson. 1990. Incidence of *Vibrio parahaemolyticus* in US coastal waters and oysters. *Appl Environ Microbiol* 56: 2299-2302.
- Dong X., D. Bi, H. Z. P. Wang, G. Xie, X. Wan, Q. Yang, Y. Zhu, M. Chen, C. Guo, Z. Liu, W. Wang, and J. Huang. 2017. PirABvp bearing *Vibrio parahaemolyticus*

and *Vibrio campbellii* pathogens isolated from the same AHPND-affected pond possess highly similar pathogenic plasmids. *Frontiers in Microbiology* 8: 1-9.

- Dong, X., D. Bi, H. Wang, P. Zou, G. Xie, X. Wang, Q. Yang, et al. 2017. PirAB_{VP}-bearing *Vibrio parahaemolyticus* and *Vibrio campbellii* pathogens isolated from the same AHPND-affected possess highly similar pathogenic plasmids. *Front Microbiology* 8: 1859.
- Duan, Y., Y. Wang., Q. Liu., H. Dong., H. Li., D. Xiong., and J. Zhang. 2019. Changes in the intestine microbial, digestion and immunity of *Litopenaeus vannamei* in response to dietary resistant starch. *Scientific Reports* 9: 6464.
- Ekasari, Julie., Jhon Lamhot F. Napitupulu., dan Enang Harris Surawidjaja. 2016. Imunitas dan pertumbuhan Udang Galah yang diberi pakan dengan suplementasi β -glukan. *Jurnal Akuakultur Indonesia* 15(1): 41-48.
- Facklam, R., dan J. A. Elliott. 1995. Identification, classification, and clinical relevance of catalase-negative, gram-positive cocci, excluding the *streptococci* and *enterococci*. *Clinical Microbiology* 8(4): 479.
- Febriana, D., M. Eulis, dan A. Oktaviana. 2018. Total hemosit Udang Vaname (*Litopenaeus vannamei*) yang dipelihara pada salinitas 10 ppt dengan padat tebar berbeda. *Journal of Aquaculture Science* 3(1): 100-107.
- Garrity, G. 2007. *Bergey's Manual® of Systematic Bacteriology: Volume 2: The Proteobacteria, Part B: The Gammaproteobacteria (Vol 2)*. Springer Science & Business Media.
- Han J. E., K. F. J. Tang, C. R. Pantoja, B.L. White, D. V. Lightner. 2015. qPCR assay for detecting and quantifying a virulence plasmid in acute hepatopancreatic necrosis disease (AHPND) due to pathogenic *Vibrio parahaemolyticus*. *Aquaculture* 442: 12–15.
- Handayani, D. W., G. Diansyah, dan Isnaini. 2020. Analisis koloni isolat *Vibrio* spp. dan kualitas air pada air budidaya juwana kuda laut (*Hippocampus* sp). *Maspari Journal* 12(1): 1-8.
- Harti, A.G. 2015. *Mikrobiologi Kesehatan*. Yogyakarta: Andi Offset.
- Hastuti, M. S. 2016. Current status of *acute hepatopancreatic necrosis disease* (AHPND) and other transboundary diseases of farmed shrimps in Indonesia. Paper presented at the *addressing acute hepatopancreatic necrosis disease* (AHPND) and other transboundary diseases for improved aquatic animal health in southeast Asia. Proceedings of the ASEAN Regional Technical Consultation on EMS/AHPND and Other Transboundary Diseases for Improved Aquatic Animal Health in Southeast Asia. 22-24 February. Makati City, Philippines.
- Ibrahim, A., A. Fridayanti, dan D. Fila. 2015. Isolasi dan Identifikasi bakteri asam laktat (BAL) dari Buah Mangga (*Mangifera indica* L.). *Jurnal Ilmiah Manuntung* 1(2): 159-163.
- Isnansetyo, Alim. 2007. *Petunjuk praktikum bakteriologi Ikan Pelatihan Lanjutan Bakteriologi Tingkat Ahli Karantina Ikan*. Laboratorium Hama dan Penyakit Ikan. Yogyakarta 2-27 Juli.

- Ismarati., R. Amilia Destryana, dan Nailiy Huzaimah. 2019. Imunitas Udang Vaname (*Litopenaeus vannamei*) yang diberi pakan tambahan daun kasembukan (*Paederia foetida* Linn.). Jurnal Kelautan 12(2): 201-206.
- Jayadi, M., A. Prejitno, and Maftuch. 2016. The Identification of *Vibrio* spp. bacteria from *Litopenaeus vannamei* infected by white feces syndrome. International Journal of ChemTech Research 9(7): 448-452.
- Kang, C. H., Y. Shin, S. C. Jang, H. Yu, S. Kim, *et al.* 2017. Characterization of *Vibrio parahaemolyticus* isolated from oysters in Korea: resistance to various antibiotics and prevalence of virulence genes. Marine Pollution Bulletin 118(1-2): 261-266
- Kharisma, A., dan A. Manan. 2012. Kelimpahan *Vibrio* sp. pada perairan pembesaran udang vaname (*Litopenaeus vannamei*) sebagai deteksi serangan penyakit vibriosis. Jurnal Ilmu Perikanan dan Kelautan 4(2): 129-134.
- Kumar, V. R. Suvra, B. B. Kumar, B. Peter, and B. K. Das. 2021. Acute hepatopancreatic necrosis disease (AHPND): virulence, pathogenesis and mitigation strategies in shrimp aquaculture. Toxins 13(524): 1-28.
- Kumar, V., L. B. De, L. Couck, *et al.* 2019. PirAB^{VP} toxin binds to epithelia cells of the digestive tract and produce pathognomonic AHPND lesion in germ-free brine shrimp. Toxins 11(12): 717.
- Lai H. C., T. H. Ng, M. And, C. T Lee, I. T. Chen, J. C. Chuang, R. Mavichak, *et al.* 2015. Pathogenesis of acute hepatopancreatic necrosis disease (AHPND) in shrimp. Fish and Shellfish Immunology 47: 1006-1014.
- Lake, R., A. Hudson, and P. Cressy. 2003. Risk Profile: *Vibrio parahaemolyticus* in Seafood. Institute of Environmental Science & Research Limited Christchurch Science Centre.
- Lee, C. T., I. T. Chen, Y. T. Yang, T. P. Ko, Y. T. Huang, J. Y. Huang, M. F. Lin., and S. S. Lin. 2015. The opportunistic marine pathogen *Vibrio parahaemolyticus* becomes virulent by acquiring a plasmid that express a deadly toxin. Proc. Natl Acad Scientific 112: 10798-10803.
- Li, P., L. N. Kinch, A. Ray, A. B. Dalia, T. Cong, L. M. Nunan, A. Camili, N. V. Grishin, D. Salomo, K. Orth. 2017. Acute hepatopancreatic necrosis disease-causing *Vibrio parahaemolyticus* strains maintain an antibacterial type VI secretion system with versatile effector repertoires. Application Environ Microbiology 83
- Liao, I. C., and H. Chen. 2011. The Pasific white shrimp *Litopenaeus vannamei* in Asia: The World's Most Widely Cultured Alien Crustacean. In the Wrong Place- Alien Marine Crustaceans. Distribution, Biology and Impact p: 489-519.
- Mahon, C. R., and D. C. Lehman. Textbook of Diagnostic Microbiology. Elsevier, Washington DC. ISBN: 978-0-323-48218-9
- Makino, K., K. Oshima, K. Kurokawa, K. Yokoyama, T. Uda, K. Tagomori, K., Y. Iijima, M. Najima, M. Nakano, A. Yamashita, Y. Kubota, S. Kimura, T. Yasunaga, T. Honda, H. Shinagawa, M. Hattori, T. Iida. 2003. Genome

sequence of *Vibrio parahaemolyticus*: a pathogenic mechanism distinct from that of *V. cholerae*. The Lancet 361: 743-749.

- Mandal, S. M., and D. Paul. 2022. Automation and Basic Techniques in Medical Microbiology. Springer, New York. ISBN 978-1-0716-2372.
- Marbun, J., E. Harpeni, dan W. Wardyanto. 2019. Penanganan penyakit *white feces* pada Udang Vaname (*Litopenaeus vannamei*) menggunakan aplikasi pakan yang dicampur ekstrak Lengkuas Merah *Alpinia purpurata* k. Schum. Jurnal Ilmu–Ilmu Perairan, Pesisir, dan Perikanan 8(2): 76-86.
- Putri, F., M. Srdjito, dan Suminto. 2013. Pengaruh penambahan *Spirulina* sp. dalam pakan buatan terhadap jumlah total hemosit dan aktivitas fagositosis Udang Vaname (*Litopenaeus vannamei*). Journal of Aquaculture 2(1): 102-112.
- Raghunath, P. 2015. Roles of thermostable direct hemolysin (TDH) and TDH-related hemolysin (TRH) in *Vibrio parahaemolyticus*. Frontiers in Cellular and Infection Microbiology 5: 805.
- Raja, R. A., R. Sridhar, C. Balachandran, A. Palanisammi, S. Ramesh, and K. Nagaraja. 2017. Pathogenicity profile of *Vibrio parahaemolyticus* in farmed pacific white shrimp, *Penaeus vannamei*. Fish and Shellfish Immunology. 67, 368-381
- Ramadhani, D. M., M. Rudi, R. F. A. Rangkuti, Widanarni, and Sukenda. 2021. Dinamika isolat *VIBrio* pada larva udang vaname yang diberi probiotik dan sinbiotik melalui *Artemia* sp. Jurnal Marikultur 1(1): 11-21.
- Ramesh, K., M. Natarajan, H. Sridhar, and S. Umamaheswari. 2014. Virulence determination among *Vibrio harveyi* hatchery isolates through haemolysis and growth constraint. Global Journal of Bio-Science and Biotechnology 3(1): 109-114.
- Redon, K.G. A., R. L. Olvera, B. Y. Rivera, and S. A. S. Rodriguez. 2020. Bacteriological and histopathological analysis of *Penaeus vannamei* experimentally infected with *Vibrio parahaemolyticus*-AHPND strains. Disease Aquatic Organism 140: 167-177.
- Ridlo, A., dan R. Pramesti. 2009. Aplikasi ekstrak rumput laut sebagai agen imunostimulan sistem pertahanan non spesifik pada Udang Vaname (*Litopenaeus vannamei*). Jurnal Ilmu Kelautan 14(3): 133-137.
- Sarjito., M. Apriliani, D. Afriani, dan A. H. C. Haditomo. 2015. Agensia penyebab *Vibriosis* pada Udang Vaname (*Litopenaeus vannamei*) yang dibudidayakan secara intensif di Kendal. Jurnal Kelautan Tropi 18(3): 189-196.
- Takeuchi. 2003. Role of COX Inhibition in Pathogenesis of NSAID-Induced Small Intestinal Damage. Kyoto (JP): Kyoto Pharmaceutical University
- Tanrikul, T. T., and E. Dinctürk. 2021. Assessment of chromogenic media in bacterial fish pathogens. Journal of Limnology and Freshwater Fisheries Research 7(2): 150-156.
- Taslihan, A., W. Ani, H. Retna, dan S. M. Astuti. 2004. Pengendalian penyakit pada budidaya ikan air payau. Direktorat Jendral Perikanan Balai Besar Budidaya Air Payau Jepara.

- Taslihan, A., W. Ani, H. Retna, dan S. M. Astuti. 2004. Pengendalian penyakit pada budidaya ikan air payau. Direktorat Jendral Perikanan Balai Besar Budidaya Air Payau, Jepara.
- Todar, K. 2002. Mechanisms of bacterial pathogenicity endotoxins. Todar's Online Textbook of Bacteriology. University of Wisconsin-Madison Department of Bacteriology.
- Tran, L., L. Nunan, R. M. Rdeman, L. L. Monhey, C. R. Pantoja, K. Fitzsimmons, D. V. Lightner. 2013. Determination of the infectious nature of the agent of acute hepatopancreatic necrosis syndrome affecting penaeid shrimp. Dis. Aquatic 105: 45-55
- Tran, P. T. N., V. Kumar, P. Bossier. 2020. Do acute hepatopancreatic necrosis disease-causing PirAB^{VP} toxins aggravate vibriosis?. Emerg Microbes Infect 9: 1919-1932.
- Valente, C. D. S., and A. H. L. Wan. 2021. *Vibrio* and major commercially important vibriosis disease in decapod crustaceans. Journal of Invertebrate Pathology 181: 107527.
- Van de Braak, K. 2002. Haemocytic defence in Black Tiger Shrimp (*Penaeus monodon*). Thesis. Wageningen University. Netherland 159.
- Wahyudewantoro, G. 2011. Catatan biologi udang putih (*Litopenaeus vannamei* (Bone, 1931). Fauna Indonesia 10(2): 394-399.
- Wang, H., X. Wang, G. Xie, X. Dong, X. Wang, and J. Huang. 2020. Insights into the histopathology and microbiome of Pasific white shrimp, *Penaeus vannamei*, suffering from white feces syndrome. Aquaculture 527: 735477.
- Wang, X., I. K. Jordan, L. W. Mayer. 2015. A phylogenetic perspective on molecular epidemiology. Molecular Medical Microbiology 1: 517-536.
- Watkins, W. D., dan V. J. Cabelli. 1985. Effect of fecal pollution *Vibrio parahaemolyticus* densities in an estuarine environment. Appl Environ Microbiology 49: 1307-1313.
- Win, W., S. Allen, W. Janda, E. Koneman, G. Procop, P. Schreckenberger, G. Woods. 2006. Color atla and textbook of diagnostic microbiolohy, 6th ed. Lippincott William&Wilkins, Philadelphia, PA.
- Wulandari A., S. B. Prayitno, dan Sarjito. 2014. Patogenisitas isolat K14 yang diisolasi dari Lele Dumbo (*Clarias gariepinus*) yang berasal dari Demak 3(2): 143-149.
- Yeh, S. P., Y. N. Chen, S. L. Hsieh, W. Cheng, and C. H. Liu. 2009. Immune response of white shrimp *Litopenaeus vannamei* after concurrent infection with white spot syndrome virus and infectious hypodermal and hematopoietic necrosis virus. Fish and Sellfish Immunologies 26: 582-558.
- Zaenuddin, A., Y. L. Nuraini, A. Faries, dan S. Wahyuningsih. 2019. Pengendalian penyakit *Vibriosis* pada Ikan Kakap Putih. Jurnal Perekayaaan Budidaya Air Payau dan Laut 14: 77-83.
- Zhang, X. H., X. He., and B. Austin. 2020. *Vibrio harveyi*: A srious pathogen of fish and invrtebrate in mariculture. Marine Life Science & Technology 2: 231-245.