

DAFTAR PUSTAKA

- Abd Allah OA, Aly SM, Abd El-Rahman HG, Youssef FMA, Ahmed FK. 2019. Effect of some immunostimulants on clinicopathological findings of African catfish *Clarias gariepinus* infected with motile *Aeromonas* septicemia. *EC Vet Sci* 4 (7): 498–510.
- Abd Allah OA, Aly SM, Abo El-Atta ME, Metwaly SA, Mohamed EH, Fathi M. 2023. Enhancing Nile tilapia health status and immunity against *Aeromonas hydrophila* with a combination of probiotics and immunostimulants (Vimolert®). *Iran J Fish Sci* 22 (5): 940–961. DOI: [10.22092/ijfs.2023.130128](https://doi.org/10.22092/ijfs.2023.130128).
- Abdel-Azziz ES, Younis AA. 2000. Effect of *Aeromonas hydrophila* and its bacterin on the blood and certain serum constituents of *Oreochromis niloticus* fish. *Egypt J Agric Res* 78 (3): 1323–1336.
- Abdelhamed H, Ibrahim I, Baumgartner W, Lawrence ML, Karsi A. 2017. Characterization of histopathological and ultrastructural changes in channel catfish experimentally infected with virulent *Aeromonas hydrophila*. *Front Microbiol* 8: 1519. DOI: [10.3389/fmicb.2017.01519](https://doi.org/10.3389/fmicb.2017.01519).
- Abdella B, Shokrak NM, Abozahra NA, Elshamy YM, Kadira HI, Mohamed RA. 2024. Aquaculture and *Aeromonas hydrophila*: a complex interplay of environmental factors and virulence. *Aquac Int* 32: 7671–7681. DOI: [10.1007/s10499-024-01535-y](https://doi.org/10.1007/s10499-024-01535-y).
- Adrianti DN, Rahmawati A, Satriya INB, Tarmizi A. 2023. Analisis Ketahanan Ikan Lele Dumbo (*Clarias Gariepinus*) Yang Diinfeksi Bakteri *Aeromonas Hydrophila* Dengan Konsentrasi Berbeda. *Al-Qlu: Jurnal Matematika, Teknik dan Sains* 1 (2): 72-76. DOI: [10.59896/aqlu.v1i2.21](https://doi.org/10.59896/aqlu.v1i2.21).
- Afrianto E, Liviawaty E, Jamaris Z, Hendi. 2015. Penyakit Ikan. Penerbit Swadaya, Jakarta.
- Agamy E. 2012. Histopathological Changes in the Livers of Rabbit Fish (*Siganus canaliculatus*) Following Exposure to Crude Oil and Dispersed Oil. *Toxicol Pathol* 40 (8): 1128-1140. DOI: [10.1177/0192623312448936](https://doi.org/10.1177/0192623312448936).
- Alfonso S, Fiocchi E, Toomey L, Boscarato M, Manfrin A, Dimitroglou A, Papaharisis L, Passabi E, Stefani A, Lembo G, Carbonara P. 2024. Comparative analysis of blood protein fractions in two mediterranean farmed fish: *Dicentrarchus labrax* and *Sparus aurata*. *BMC Vet Res* 20: 322. DOI: [10.1186/s12917-024-04182-w](https://doi.org/10.1186/s12917-024-04182-w).
- Ali MF, Rashid MM, Rahman MM, Haque MN. 2014. Pathogenicity of *Aeromonas hydrophila* in silver carp *Hypophthalmichthys molitrix* and its control trial. *Sch J Agric Vet Sci* 7 (6): 21-24. DOI: [10.9790/2380-07612124](https://doi.org/10.9790/2380-07612124).
- AlYahya SA, Ameen F, Al-Niaaem KS, Al-Sa'adi BA, Hadi S, Mostafa AA. 2018. Histopathological studies of experimental *Aeromonas hydrophila* infection in

- blue tilapia, *Oreochromis aureus*. Saudi J Biol Sci 25 (1): 182–185. DOI: [10.1016/j.sjbs.2017.10.019](https://doi.org/10.1016/j.sjbs.2017.10.019).
- Anashrullah A, Yusuf Y. 2021. Peluang Dan Kendala Budidaya Ikan Lele Dalam Konteks Pemberdayaan Masyarakat. JOM FISIP 8 (2): 1-12.
- Angka SL. 2005. Kajian Penyakit Motile Aeromonad Septicemia (MAS) pada Ikan Lele Dumbo (*Clarias* sp.): Patologi, Pencegahan dan Pengobatannya dengan Fitofarmaka. Disertasi. Institut Pertanian Bogor, Bogor.
- Asniatih, Idris M, Sabilu K. 2013. Studi Histopatologi pada Ikan Lele Dumbo (*Clarias gariepinus*) yang Terinfeksi Bakteri *Aeromonas hydrophila*. Jurnal Mina Laut Indonesia 3 (12): 13 – 21.
- Austin B, Austin DA. 2007. Bacterial Fish Pathogens: Disease of Farmed and Wild Fish. Praxis Publishing Ltd (Springer), Chichester.
- Baumgartner WA, Ford L, Hanson L. 2017. Lesions caused by virulent *Aeromonas hydrophila* in farmed catfish (*Ictalurus punctatus* and *I. punctatus* × *I. furcatus*) in Mississippi. J Vet Diagn Invest 29 (5): 747–751. DOI: [10.1177/1040638717708584](https://doi.org/10.1177/1040638717708584).
- Boyd CE. 1982. Water Quality Management for Pond Fish Culture. International Centre for Aquaculture Experiment Station Auburn University, Auburn.
- Chowdhury NR, Chowdhury JR, Avsar Y. 2013. Bile Pigment Metabolism and Its Disorders. In: Rimoin D, Pyeritz R, Korf B (eds.). Emery and Rimoin's Principles and Practice of Medical Genetics 6th Edition. Academic Press, San Diego. DOI: [10.1016/B978-0-12-383834-6.00073-2](https://doi.org/10.1016/B978-0-12-383834-6.00073-2).
- Damayanti SM, Kristin EP, Anjani TP, Kurniawan A. 2024. Keganasan *Aeromonas Hydrophila* Setelah Pasase 4 Kali Pada Ikan Lele (*Clarias* Sp.). Amreta Meena 1 (1): 5-9. DOI: [10.33019/am.v1i1.4574](https://doi.org/10.33019/am.v1i1.4574).
- Effendi H. 2003. Telaah Kualitas Air Bagi Pengelola Sumber Daya dan Lingkungan Perairan. Kanisius, Jakarta.
- Engelking LR. 2015. Protein Structure. In: Engelking LR (eds.). Textbook of Veterinary Physiological Chemistry 3rd Edition. Academic Press, Amsterdam. DOI: [10.1016/B978-0-12-391909-0.50004-9](https://doi.org/10.1016/B978-0-12-391909-0.50004-9).
- Evans EW, Casinghino S. 2018. Clinical Pathology as a Tool to Assess Immunotoxicity. In: McQueen CA (eds.). Comprehensive Toxicology 3rd Edition. Elsevier, Amsterdam. DOI: [10.1016/B978-0-12-801238-3.64172-7](https://doi.org/10.1016/B978-0-12-801238-3.64172-7).
- Fahmi U, Andriani I, Salmah S, Hatta TH, Omar SBA, Sari DK. 2019. Histopathology of liver and intestine of pangkalan bare fish (*Oryzias matanensis*) polluted by nickel and iron in Lake Matano, South Sulawesi. IOP Conf Ser Earth Environ Sci 370: 012078. DOI: [10.1088/1755-1315/370/1/012078](https://doi.org/10.1088/1755-1315/370/1/012078).

- Fazio F. 2019. Fish hematology analysis as an important tool of aquaculture: a review. *Aquaculture* 500: 237–242. DOI: [10.1016/j.aquaculture.2018.10.030](https://doi.org/10.1016/j.aquaculture.2018.10.030).
- Federer WT. 1977. *Experimental Design: Theory and Application* 3rd Edition. Oxford and IBH Publishing Co, Calcutta.
- Fitriyanti PD, Desrina, Prayitno SB. 2020. Pengaruh Perendaman Kombinasi Ekstrak Daun Binahong dan Bawang Putih pada Ikan Lele Dumbo (*Clarias gariepinus*) yang Diinfeksi *Aeromonas hydrophila*. *Jurnal Sains Akuakultur Tropis* 4 (1): 61-67. DOI: [10.14710/sat.v4i1.6912](https://doi.org/10.14710/sat.v4i1.6912).
- Franchini M, Targher G, Lippi G. 2010. Serum Bilirubin Levels and Cardiovascular Disease Risk: A Janus Bifrons?. In: Makowski GS (eds.). *Advances in Clinical Chemistry*. Elsevier, New York. DOI: [10.1016/S0065-2423\(10\)50003-9](https://doi.org/10.1016/S0065-2423(10)50003-9).
- Fuchs CD, Trauner M. 2022. Role of bile acids and their receptors in gastrointestinal and hepatic pathophysiology. *Nat Rev Gastroenterol Hepatol* 19: 432–450. DOI: [10.1038/s41575-021-00566-7](https://doi.org/10.1038/s41575-021-00566-7).
- Hardi EH, Pebrianto CA, Hidayanti T, Handayani RT. 2014. Infeksi *Aeromonas Hydrophila* Melalui Jalur Yang Berbeda Pada Ikan Nila (*Oreochromis Niloticus*) Di Loa Kulu Kutai Kartanegara Kalimantan Timur. *Jurnal Kedokteran Hewan* 8 (2): 130-133. DOI: [10.21157/j.ked.hewan.v8i2.2632](https://doi.org/10.21157/j.ked.hewan.v8i2.2632).
- Hastuti S, Subandiyono S. 2018. Haematological parameters of the North African catfish (*Clarias gariepinus*) farmed using biofloc technology. *AAFL Bioflux* 11 (4): 1415–1424.
- Huang X, Liu S, Zhang H, Yao J, Geng Y, Ou Y, Chen D, Yang S, Yin L, Luo W. 2022. Pathological characterization and cause of a novel liver disease in largemouth bass (*Micropterus salmoides*). *Aquac Rep* 23: 101028. DOI: [10.1016/j.aqrep.2022.101028](https://doi.org/10.1016/j.aqrep.2022.101028).
- Jabbar RA, Sari DK, Tahir A. 2021. Histopathology overview of tilapia (*Oreochromis mossambicus*) liver organs contaminated by lead metal (Pb) in Lake Tempe, Wajo Regency. *IOP Conf Ser Earth Environ Sci* 870: 012008. DOI: [10.1088/1755-1315/870/1/012008](https://doi.org/10.1088/1755-1315/870/1/012008).
- Janičko M, Veselíny E, Leško D, Jarčuška P. 2013. Serum cholesterol is a significant and independent mortality predictor in liver cirrhosis patients. *Ann Hepatol* 12 (4): 413–419. DOI: [10.1016/S1665-2681\(19\)31342-0](https://doi.org/10.1016/S1665-2681(19)31342-0).
- Jin L, Chen Y, Yang W, Qiao Z, Zhang X. 2020. Complete genome sequence of fish-pathogenic *Aeromonas hydrophila* HX-3 and a comparative analysis: insights into virulence factors and quorum sensing. *Sci Rep* 10 (1): 15479. DOI: [10.1038/s41598-020-72484-8](https://doi.org/10.1038/s41598-020-72484-8).
- Junior GB, Baldisserotto B. 2021. Fish infections associated with the genus *Aeromonas*: A review of the effects on oxidative status. *J Appl Microbiol* 131 (3): 1083-1101. DOI: [10.1111/jam.14986](https://doi.org/10.1111/jam.14986).

- Kartikaningsih H, Yahya, Rohman FZ, Jaziri AA. 2020. Characteristics of *Aeromonas hydrophila*-infected catfish (*Clarias* sp.). IOP Conf Ser Earth Environ Sci 493: 012036. DOI: [10.1088/1755-1315/493/1/012036](https://doi.org/10.1088/1755-1315/493/1/012036).
- Khairuman, Amri K. 2002. Budidaya Lele Dumbo Secara Intensif. Agromedia Pustaka, Jakarta.
- Khairuman, Amri K. 2012. Pembesaran Lele Diberbagai Jenis Kolam. Agromedia Pustaka, Jakarta.
- Kobayashi A, Suzuki Y, Sugai S. 2020. Specificity of transaminase activities in the prediction of drug-induced hepatotoxicity. J Toxicol Sci 45 (9): 515–537. DOI: [10.2131/jts.45.515](https://doi.org/10.2131/jts.45.515).
- Kunutsor SK. 2016. Gamma-glutamyltransferase-friend or foe within?. Liver Int 36 (12): 1723-1734. DOI: [10.1111/liv.13221](https://doi.org/10.1111/liv.13221).
- Kusdarwati R, Amin M, Wardana AB. 2021. DNase and gelatinase activities of β -hemolysin *Aeromonas hydrophila* isolated from catfish (*Clarias batrachus*). J Aquac Fish Health 10 (3): 331–340. DOI: [10.20473/jafh.v10i3.25918](https://doi.org/10.20473/jafh.v10i3.25918).
- Li CC, Yang HT, Hou YC, Chiu YS, Chiu WC. 2014. Dietary fish oil reduces systemic inflammation and ameliorates sepsis-induced liver injury by up-regulating the peroxisome proliferator-activated receptor gamma-mediated pathway in septic mice. J Nutr Biochem 25 (1): 19–25. DOI: [10.1016/j.jnutbio.2013.08.010](https://doi.org/10.1016/j.jnutbio.2013.08.010).
- López-Velázquez JA, Chávez-Tapia NC, Ponciano-Rodríguez G, Sánchez-Valle V, Caldwell SH, Uribe M, Méndez-Sánchez N. 2014. Bilirubin alone as a biomarker for short-term mortality in acute-on-chronic liver failure: An important prognostic indicator. Ann Hepatol 13 (1): 98–104. DOI: [10.1016/S1665-2681\(19\)30910-X](https://doi.org/10.1016/S1665-2681(19)30910-X).
- Magnadottir B. 2010. Immunological control of fish diseases. Mar Biotechnol 12 (4): 361-379. DOI: [10.1007/s10126-010-9279-x](https://doi.org/10.1007/s10126-010-9279-x).
- Masubuchi N, Sugihara M, Sugita T, Amano K, Nakano M, Matsuura T. 2015. P1168: Prognostic clinical biomarkers of cholestatic liver injury: Perturbation of bile acid metabolism and reactive oxidative stress marker. J Hepatol 62 (2): S791. DOI: [10.1016/S0168-8278\(15\)31364-7](https://doi.org/10.1016/S0168-8278(15)31364-7).
- Mbokane EM, Moyo NAG. 2018. Alterations of haemato-biochemical parameters pre and post-challenge with *Aeromonas hydrophila* and survival of *Oreochromis mossambicus* fed *Moringa oleifera*-based diets. Fish Shellfish Immunol 83: 213–222. DOI: [10.1016/j.fsi.2018.09.017](https://doi.org/10.1016/j.fsi.2018.09.017).
- McCormick K, Salcedo J. 2017. SPSS Statistics versus SPSS Modeler: Can I Be a Data Miner Using SPSS Statistics?. In: McCormick K, Salcedo J (eds.). SPSS Statistics for Data Analysis and Visualization. John Wiley & Sons, Indianapolis. DOI: [10.1002/9781119183426.ch11](https://doi.org/10.1002/9781119183426.ch11).

- McNeil JB, Jackson KE, Wang C, Siew ED, Vincz AJ, Shaver CM, Bastarache JA, Ware LB. 2021. Linear association between hypoalbuminemia and increased risk of acute respiratory distress syndrome in critically ill adults. *Crit Care Explor* 3 (9): e0527. DOI: [10.1097/CCE.0000000000000527](https://doi.org/10.1097/CCE.0000000000000527).
- Miller MA, Zachary JF. 2017. Chapter 1 – Mechanisms and Morphology of Cellular Injury, Adaptation, and Death. In: Zachary JF (eds.). *Pathologic Basis of Veterinary Disease 6th Edition*. Mosby, St. Louis. DOI: [10.1016/B978-0-323-35775-3.00001-1](https://doi.org/10.1016/B978-0-323-35775-3.00001-1).
- Mitrić A, Castellano I. 2023. Targeting gamma-glutamyl transpeptidase: A pleiotropic enzyme involved in glutathione metabolism and in the control of redox homeostasis. *Free Radic Biol Med* 208: 672–683. DOI: [10.1016/j.freeradbiomed.2023.09.020](https://doi.org/10.1016/j.freeradbiomed.2023.09.020).
- Mohamad NFA, Daud HM, Manaf SR. 2022. Pathogenicity of *Aeromonas hydrophila* in cultured African catfish (*Clarias gariepinus*). *J Smart Sci Technol* 2 (1): 34-45. DOI: <https://doi.org/10.24191/jsst.v2i1.25>.
- Mulia DS, Vauziyyah S. 2021. Pengobatan Lele Dumbo (*Clarias gariepinus* L.) yang Terinfeksi *Aeromonas hydrophila* di Kabupaten Banyumas dengan Menggunakan Ekstrak Daun Api-Api (*Avicennia marina*). *Sainteks* 18 (1): 9-24. DOI: [10.30595/sainteks.v18i1.10650](https://doi.org/10.30595/sainteks.v18i1.10650).
- Mustajab R. 2024. Data Produksi Lele di Indonesia Periode 2012-2022. *DataIndonesia.id*. <https://dataindonesia.id>.
- Nahak G, Sahu RK. 2014. Immunomodulatory activity of aqueous leaf extract of *Ocimum basilicum* linn in *Clarias batrachus*. *Int J Pharm Pharm Sci* 6 (6): 433-440.
- Needham S, Funge-Smith SJ. 2014. The consumption of fish and fish products in the Asia-Pacific region based on household surveys. *RAP Publication* 2015/12. www.fao.org.
- Night S, Jadhav A, Deshmukh S. 2025. A clinical case study on jaundice: Causes, diagnosis, treatment, management and public awareness. *Int J Pharm Sci* 3 (5): 2816–2833. DOI: [10.5281/zenodo.1544892](https://doi.org/10.5281/zenodo.1544892).
- Obeng E. 2021. Apoptosis (programmed cell death) and its signals – A review. *Braz J Biol* 81 (4): 1133–1143. DOI: [10.1590/1519-6984.228437](https://doi.org/10.1590/1519-6984.228437).
- Oghenochuko MO, Ola EI, Thomas MR, Daodu OG, Oguntuase GA, Aluko OI, Irokanulo E, Akpor BO. 2024. Effects of single and co-infections of *Proteus mirabilis* and *Aeromonas hydrophila* on baseline hematological, serological, and histological data in cultured *Clarias gariepinus*. *Open Agric* 18: E18743315277346. DOI: [10.2174/0118743315277346231123094611](https://doi.org/10.2174/0118743315277346231123094611).
- Poynard T, Imbert-Bismut F. 2012. Chapter 14 – Laboratory Testing for Liver Disease. In: Boyer TD, Manns MP, Sanyal AJ (eds.). *Zakim and Boyer's*

- Hepatology 6th Edition. WB Saunders, Philadelphia. DOI: [10.1016/B978-1-4377-0881-3.00014-0](https://doi.org/10.1016/B978-1-4377-0881-3.00014-0).
- Prescod MB. 1973. Investigation of Rational Effluent and Sream Standars for Tropical Countries. Far East APD US Army Research and Development Group, San Fransisco.
- Ramaiah SK. 2007. A toxicologist guide to the diagnostic interpretation of hepatic biochemical parameters. Food Chem Toxicol 45 (9): 1551–1557. DOI: [10.1016/j.fct.2007.06.007](https://doi.org/10.1016/j.fct.2007.06.007).
- Rashid MM, Hossain MS, Ali MF. 2013. Isolation and identification of *Aeromonas hydrophila* from silver carp and its culture environment from Mymensingh region. J Bangladesh Agric Univ 11: 373-376. DOI: <https://doi.org/10.22004/ag.econ.209880>.
- Rasmussen-Ivey CR, Hossain MJ, Odom SE, Terhune JS, Hemstreet WG, Shoemaker CA, Zhang D, Xu DH, Griffin MJ, Liu YJ, Figueras MJ, Santos SR, Newton JC, Liles MR. 2016. Classification of a hypervirulent *Aeromonas hydrophila* pathotype responsible for epidemic outbreaks in warm-water fishes. Front Microbiol 7: 1615. DOI: [10.3389/fmicb.2016.01615](https://doi.org/10.3389/fmicb.2016.01615).
- Rudneva II, Kovyrshina TB. 2011. Comparative study of electrophoretic characteristics of serum albumin of round goby *Neogobius melanostomus* from Black Sea and Azov Sea. Int J Adv Biol Res 1 (1): 131–136.
- Rumondang, Ningsih DA, Sari I, Sari P. 2022. Penyakit Pada Ikan. Eureka Media Aksara, Purbalingga.
- Seamaty, 2021. Vet Chemistry Analyzer SMT-120VP. Chengdu Seamaty Technology Co., Ltd, China. <https://en.seamaty.com>.
- Sellegounder D, Gupta YR, Muruganankumar R, Senthilkumaran B. 2018. Enterotoxic effects of *Aeromonas hydrophila* infection in the catfish, *Clarias gariepinus*: Biochemical, histological and proteome analyses. Vet Immunol Immunopathol 204: 1–10. DOI: [10.1016/j.vetimm.2018.08.008](https://doi.org/10.1016/j.vetimm.2018.08.008).
- Semwal A, Kumar A, Kumar N. 2023. A review on pathogenicity of *Aeromonas hydrophila* and their mitigation through medicinal herbs in aquaculture. Heliyon 9 (3): e14088. DOI: [10.1016/j.heliyon.2023.e14088](https://doi.org/10.1016/j.heliyon.2023.e14088).
- Setyawan N, Budipramana VS. 2015. Correlation between alkaline phosphatase, g-glutamyl transpeptidase, and bilirubin with interleukin-1b level in dogs with obstructive jaundice. J Med Sci 47 (4): 154-161. DOI: [10.19106/JMedSci004704201502](https://doi.org/10.19106/JMedSci004704201502).
- Shima T, Tada H, Morimoto M, Nakagawa Y, Obata H, Sasaki T, Park H, Nakajo S, Nakashima T, Okanoue T, Kashima K. 2000. Serum total bile acid level as a sensitive indicator of hepatic histological improvement in chronic hepatitis C

- patients responding to interferon treatment. *J Gastroenterol Hepatol* 15 (3): 294–299. DOI: [10.1046/j.1440-1746.2000.02126.x](https://doi.org/10.1046/j.1440-1746.2000.02126.x).
- Soeters PB, Wolfe RR, Shenkin A. 2019. Hypoalbuminemia: Pathogenesis and clinical significance. *J Parenter Enteral Nutr* 43 (2): 181–193. DOI: [10.1002/jpen.1451](https://doi.org/10.1002/jpen.1451).
- Sudarmawan Y, Yuliana, Yulyana R, Baskara E, Lestari P. 2023. Pengembangan Potensi Budidaya Dan Pengelolaan Lele Olahan Membawa Sejahtera Sebagai Strategi Penguatan Usaha Ekonomi Kelompok Masyarakat Di Kelurahan Sukamoro Kecamatan Talang Kelapa Banyuasin. *Community Development Journal* 4 (4): 7699-7702. DOI: [10.31004/cdj.v4i4.18977](https://doi.org/10.31004/cdj.v4i4.18977).
- Tao J, Tu C, Xu Z, Bai Y, Chen B, Yang S, Huang X, Zhang L, Liu L, Lin L, Qin Z. 2024. The infection of *Aeromonas hydrophila* activated multiple programmed cell death pathways in red blood cells of *Clarias fuscus*. *Fish Shellfish Immunol* 145: 109315. DOI: [10.1016/j.fsi.2023.109315](https://doi.org/10.1016/j.fsi.2023.109315).
- Thomas PC, Divya PR, Chandrika V, Paulton MP. 2009. Genetic Characterization of *Aeromonas hydrophila* using Protein Profiling and RAPD PCR. *Asian Fish Sci* 22 (2): 763-771. DOI: [10.33997/j.afs.2009.22.2.035](https://doi.org/10.33997/j.afs.2009.22.2.035).
- Utami PW. 2009. Efektivitas Ekstrak Paci-Paci (*Leucas lavandulaefolia*) yang Diberikan Lewat Pakan Untuk Pencegahan dan Pengobatan Penyakit Ikan MAS (Motile Aeromonas Septicemia) pada Ikan lele dumbo Dumbo (*Clarias* sp.). Skripsi. Institut Pertanian Bogor, Bogor.
- Varga M. 2014. Chapter 2 – Clinical Pathology. In: Varga M (eds.). *Textbook of Rabbit Medicine* 2nd Edition. Butterworth-Heinemann, Edinburgh. DOI: [10.1016/B978-0-7020-4979-8.00002-9](https://doi.org/10.1016/B978-0-7020-4979-8.00002-9).
- Zhang D, Xu DH, Shoemaker CA, Beck BH. 2020. The severity of motile *Aeromonas* septicemia caused by virulent *Aeromonas hydrophila* in channel catfish is influenced by nutrients and microbes in water. *Aquaculture* 519: 734898. DOI: [10.1016/j.aquaculture.2019.734898](https://doi.org/10.1016/j.aquaculture.2019.734898).
- Zhang D, Feng J, Wang Y, Shoemaker CA, Wise AA, Beck BH. 2025. Contributions of hemolytic proteins in virulent *Aeromonas hydrophila* to motile *Aeromonas* septicemia disease of channel catfish (*Ictalurus punctatus*). *FEMS Microbiol Lett* 372: fnae108. DOI: [10.1093/femsle/fnae108](https://doi.org/10.1093/femsle/fnae108).