

DAFTAR PUSTAKA

- Ahilan, A. Nithiyapriyatharshini, and K. Ravaneshwaran. 2010. Influence Of Certain Herbal Additives On The Growth, Survival and Disease Resistance Of Goldfish, *Carassius auratus* (Linnaeus). Tamilnadu Journal Veterinary and Animal Sciences 6(1): 5-11.
- Alamanda, I. E., Handajani, N. S., & Budiharjo, A. 2007. The Use of Hematology Method and Blood Endoparasite Observation for Determining Catfish (*Clarias gariepinus*) Health in Fishery Mangkubumen, Boyolali. Biodiversitas Journal of Biological Diversity, 8(1): 34 - 38
- Allan, B. J., and R. M. W. Stevenson. 1981. Extracellular Virulence Factors of *Aeromonas hydrophila* in Fish Infections. Canadian Journal of Microbiology, 27: 1114 -1122.
- Al-Yahya, S.A., F. Ameen, K.S. Al-Niaeem, B.A. Al-Sa'adi, A. Hadi, A. A. Mostafa. Histopathological Studies of Experimental *Aeromonas hydrophila* Infection in Blue Tilapia, *Oreochromis aureus*. Saudi Journal of Biological Sciences, 25: 182-185.
- Anthony, J.W and K. Maurice. 1993. Freshwater Fishes of Western Indonesia and Sulawesi. Diterjemahkan oleh: Srinusani, K. dan W. Soetikno. Periplus Editions Limited Pte Ltd. Farrer Road, 24pp.
- Barton, B. A. 2002. Stress in Fishes: A Diversity of Responses With Particular Reference to Changes in Circulating Corticosteroids. Integrative and Comparative Biology, 42: 517–525.
- Bebak, J. And J. C. Garcia. 2012. Effect of Copper Sulfate on *Aeromonas hydrophila* Infection in Channel Catfish Fingerlings. North American Journal of Aquaculture, 74: 494-498.
- Blaxhall P. C and Daisley. 1973. The Haemathological Assesment of Tge Health of Fresh Water Fish. A Review of Selected Literature. Journal of Fish Biology 4: 593-604.
- Castro, L. and A. Ballester. 2014. *Aeromonas hydrophila* Produces Conductive Nanowires. Research in Microbiology, 165(9): 794-802.
- Cipriano, R.C. 2001. *Aeromonas hydrophila* and Motile Aeromonad Septicemias of Fish. Fish and Wildlife Service Division of Fishery Research Washington, D. C. United States Department of The Interior, 25p.
- Davis, A.K., D.L. Maney, and J.C. Maerz. 2008. The Use of Leukocyte Profiles to Measure Stress in Vertebrates: A Review For Ecologists. Fuctional Ecology, 22: 760-772.

- Dianti, L., S.B. Prayitno, R. W. Ariyanti. 2013. Ketahanan Non Spesifik Ikan Mas (*Cyprinus carpio*) yang Direndam Ekstrak Daun Jeruju (*Achantus ilicifolius*) Terhadap Infeksi Bakteri *Aeromonas hydrophila*. *Journal of Agriculture Management and Technology*, 2(4): 63-71.
- Dooley, J. S. and T. J. Trust. 1988. Surface Protein Composition of *Aeromonas hydrophila* Strains Virulent For Fish: Identification Of A Surface Array Protein. *Journal of Bacteriology*, 17: 499-506.
- El Deen, A.G.S. and M. Rawway. 2014. Study On Some Aerobic Bacterial Species In Ornamental Fish. *Assiut Veterinary Medical Journal*, 60(143): 156-154.
- El Deen, A.E.N., S.M. Dorgham, A.H.M. Hassan, and A.S. Hakim. 2014. Studies on *Aeromonas hydrophila* in Cultured *Oreochromis niloticus* at Kafr El Sheikh Governorate, Egypt with Reference to Histopathological Alterations in Some Vital Organs. *World Journal of Fish and Marine Sciences*, 6(3): 233-240.
- El Tawab, A.A., A.A.A. Maarouf, F.I. El Hofy, and E.E.A. El Mougy. 2017. Detection of some virulence genes in *A. hydrophila* and *A. caviae* isolated from fresh water fishes at Qalubia Governorate. *Benha Veterinary Medical Journal*, 33(2): 489-503.
- Elsaesser, C.F., & Clem, L.W. 1986. Haematological and Immunological Changes in Channel Catfish Stressed by Handling and Transport. *Journal Fish Biology* 28: 511-521.
- Fischer, U., Utke, K., Somamoto, T., Köllner, B., Ototake, M., & Nakanishi, T. (2006). Cytotoxic activities of fish leucocytes. *Fish & Shellfish Immunology*, 20(2): 209-226.
- Garde, C., Bjarnsholt, T., Givskov, M., Jakobsen, T. H., Hentzer, M., Claussen, A., et al. 2010. Quorum sensing regulation in *Aeromonas hydrophila*. *Journal Molecular Biology*, 396: 849–857.
- Gomez, D., Sunyer, J. O., & Salinas, I. 2013. The Mucosal Immune System Of Fish: The Evolution Of Tolerating Commensals While Fighting Pathogens. *Fish & shellfish immunology*, 35(6): 1729-1739.
- Hardi, E.H. dan C.B. Pebrianto. 2012. Isolasi dan uji postulat Koch *Aeromonas* sp. dan *Pseudomonas* sp. pada ikan nila (*Oreochromis niloticus*) di Sentra Budidaya Loa Kulu Kabupaten Kutai Kartanegara. *Jurnal Ilmu Perikanan Tropis*. 16(2):35-39.
- Harikrishnan, R., M. N. Rani, and C. Balasundaram, 2003. Haematological and Biochemical Parameters in Common Carp *Cyprinus carpio*, Following Herbal Treatment for *Aeromonas hydrophila* Infection. *Aquaculture*, 221:41-50

- Holt. 1994. *Bergey's Manual of Determinative Bacteriology* 9th Edition. USA: Williams and Wilkins Baltimore.
- Hossain, M.J., Sun D., McGarey, D.J. 2014. An Asian Origin Of Virulent *Aeromonas hydrophila* Responsible For Disease Epidemics in United States-farmed catfish. *mBio*, 5:e00848–14.
- Imanpoor, R.M., T. Bagheri, and S.A.A. Hadayati. 2010. The Anesthetic of Clove Essence in Persian Sturgeon, *Acipenser persicus*. *World Journal of Fish and Marine Sciences*, 2(1): 29-36.
- Janda, J.M. and S.L. Abbott. 2010. The Genus *Aeromonas*: Taxonomy, Pathogenicity, and Infection. *Clinical Microbiology Reviews*, 35-37p.
- Jain, N. C. 1993. *Essentials of Veterinary Hematology*. Lea and Febiger Publishing. Philadelphia. 417 p.
- Kabata, Z. 1985. *Parasites and Disease of Fish Cultured in the Tropics*. London and Philadelphia: Taylor and Fancis Press, 318p.
- Katae, H., K. Kuono, Y. Takase, H. Miyazaki, M. Hashimoto, and M. Shimizu. 1979. The Evaluation of Piromidic Acid as an Antibiotic in Fish: An *in vitro* and *in vivo* Study. *Journal of Fish Diseases*, 2: 321-335.
- Knapp O, Stiles B, Popoff MR. 2010. The Aerolisin-like toxin family of cytolytic, pore-Forming toxins. *The Open Toxinology Journal*, 3: 53-68.
- Kottelat, M. 1995. Four New Species of Fishes From The Middle Kapuas Basin, Indonesian Borneo (Osteichtyes: Cyprinidae and Belontiidae). *The Raffles Bulletin of Zoology*, 43(1): 51-64.
- Kusriningrum. 2008. *Dasar Perancangan Percobaan dan Rancangan Acak Lengkap*. Fakultas Kedokteran Hewan, Universitas Airlangga: Surabaya. Hal 21.
- Lagler KF, Bardach JE, RR Miller, and Passino DRM. 1977. *Ichthyology*. John Willey and Sons. Inc. New York-London, 506p.
- Lazado, C. C., & Caipang, C. M. A. 2014. Mucosal immunity and probiotics in fish. *Fish & shellfish immunology*, 39(1): 78-89
- Lumbantobing, D.N. 2014. Four new species of *Rasbora* of the Sumatrana group (Teleostei: Cyprinidae) from northern Sumatra, Indonesia. *Zootaxa*, 3763(1): 001-025.
- Magnadottir, B. 2010. Immunological Control of Fish Diseases. *Marine Biotechnology*, 12: 361-379

- Martins M.L., and Moraes F.R. 2004. Favourable Conditions And Principal Teleostean Diseases In Intensive Fish Farming. In: Cyprino JEP, Urbinati EC, Fracalossi DM, Castagnolli N (Eds) Especial Topics In Tropical Intensive Freshwater Fish Farming. Tec Art Sao Paulo 343-383.
- Moyle PB and Cech Jr JJ. 1988. Fishes An Introduction to Ichthyology. Prentice Hall, Inc. USA, 559pp.
- Neelima, P., Sunitha, K., G. Rao, and C. Sekhara Rao. 2015. Haematological Alterations in *Cyprinus carpio* as Biomarkers of Cypermethrin Toxicity. International Journal of Current Research, 7(8): 18864-18870.
- Nugroho, R.A., H. Manurung, F.M. Nur, and W. Prahastika. 2017. *Terminalia catappa* L. extract improves survival, hematological profile and resistance to *Aeromonas hydrophila* in *Betta* sp. Archives of Polish Fisheries, 25: 103-115.
- Nya, E. J., & Austin, B. 2009. Use of garlic, *Allium sativum*, to control *Aeromonas hydrophila* infection in rainbow trout, *Oncorhynchus mykiss* (Walbaum). Journal of Fish Diseases, 32(11): 963-970.
- Opasola, O.a., S.O. Adewoye, and O.O. Fawole. 2013. Growth Performance and Survival Rate of *Clarias gariepinus* Fed *Lactobacillus acidophilus* Supplemented Diets. Journal of Agriculture and Veterinary Science, 3(6): 45-50.
- Osman, A.G.M., K.Y. AbouelFadl, A. El Reheem, U.M. Mahmoud, W. Kloas, and M.A. Mustafa. 2018. Blood Biomarkers in Nile tilapia *Oreochromis niloticus niloticus* and African Catfish *Clarias gariepinus* to Evaluate Water Quality of the River Nile. Journal of Fisheries Sciences, 12(1): 1-15.
- Plumb, J.A and L.A. Hanson. 2011. Health Maintenance and Principal Microbial Diseases of Cultured Fishes. Blackwell Publishing, 482 pp.
- Pratama RC, Rosidah, Sriati, Rustikawati I. 2017. Efektivitas Ekstrak Biji Rambutan dalam Mengobati Benih Ikan Mas yang Terinfeksi Bakteri *Aeromonas hydrophila*. Jurnal Perikanan dan Kelautan, 8(1): 130-138.
- Rachmatika, I., R. Nasi, D. Sheil, and M. Wan. 2005. A First Look at the Fish Species of the Middle Malinau: Taxonomy, Ecology, Vulnerability, and Importance. Center for International Forestry Research (CIFOR) Published. 26p.
- Ramakrishnan, M., M. A. Haniffa, P.A.J. Sheela. 2015. Investigation On Virulence Dose And Antagonistic Activity Of Selected Probiotics Against *Aphanomyces invadans* And *Aeromonas hydrophila*. International Journal of Pharmacy & Pharmaceutical Research, 2(4): 53-65

- Ramesh, M. and M. Saravanan. 2008. Haematological and Biochemical Responses in a Freshwater Fish *Cyprinus carpio* Exposed to Chlorpyrifos. *International Journal of Integrative Biology*, 3(1): 80.
- Rashidi, Z., H. Khara, and H. Mousavi-Sabet. 2012. Hematological Profile of the Mature *Rutilus frisii kutum* (Cyprinidae) Migrated to the Tajan River in the Southern Caspian Sea. *World Journal of Fish and Marine Sciences* 4 (6): 665-671.
- Retnoaji, B., F. Nanda, D. Sartika, N. Eunike, D.D. Oktaviani, and D. Afriani. 2016. The Effect Of Volcanic Dust On The Histological Structure Of Wader Pari (*Rasbora Lateristriata* Bleeker, 1854) Organs. *AIP Conference Proceedings*.
- Rustikawati, I. 2012. Efektivitas Ekstrak *Sargassum* sp. Terhadap Diferensiasi Leukosit Ikan Nila (*Oreochromis niloticus*) yang Diinfeksi *Streptococcus iniae*. *Jurnal Akuatika*, 3(2): 125-134.
- Rosadi, E. E. Yuli H., D. Setyohadi, and G. Bintoro. 2014. Distribution, Composition, and Abiotic Environment of Silver Rasbora (*Rasbora argyrotaenia* Blkr) Fish in Upstream Areas of Barito Watershed, South Kalimantan. *Journal of Environment and Ecology*, 5(1) : 117-131.
- Rosidah, A. Rizal, I. Rustikawati, and F. Octavia. 2017. The Effect of Differences in Altitude Location of an Aquaculture on fish's Hematocrit and Fish's Haemoglobin of Carp fish and Resistance to Bacterial Attack. *Earth and Environmental Science*, 137pp.
- Salasia, S.I.O., D. Sulanjari., dan A. Ratnawati. 2001. Hematology studies of freshwater fish. *Biology*, 2(12):710-723.
- Samal, S.K. B.K. Das, and B.B. Pal. 2014. In Vitro And In Vivo Virulence Study Of *Aeromonas hydrophila* Isolated From Fresh Water Fish. *International Journal of Current Research and Acadmic Review*. 2(11): 117-125.
- Sarker, J., and Faruk, M.A.R. 2016. Experimental Infection Of *Aeromonas hydrophila* In *Pangasius*. *Progressive Agriculture*, 27(3): 392-399.
- Sharifuzzaman, S.M. and Austin, B. 2009. Influence Of Probiotic Feeding Duration On Disease Resistance And Immune Parameters In Rainbow Trout. *Fish Shell Fish Immunology*, 27: 440-445.
- SNI (Standart Nasional Indonesia) 7303:2009. Metode Identifikasi Bakteri *Aeromonas hydrophila* secara Biokimia. Jakarta.
- Stratev, D., Daskalov, H., and Vashin, I. 2015. Characterization and determination of antimicrobial resistance of β -haemolytic *Aeromonas* spp. isolated from common carp (*Cyprinus carpio* L.). *Revue Médical Vétérinary.*, 166(1-2): 54-61.

- Sulistiyarto B. 2013. Hubungan antara Kelimpahan Ikan Saluang (*Rasbora argyrotaenia* Blkr) dengan Populasi Fitoplankton di Dataran Banjir Sungai Rungan Kalimantan Tengah. *Jurnal Ilmu Hewani Tropika*, 2(1): 27-30.
- Svobodová Z., Pravda D., Paláčková J. 1991. Unified Methods Of Haematological Examination Of Fish. *Research Institute of Fish Culture and Hydrobiology, Vodňany. Methods* 20: 31.
- Tripathi, N. K., Latimer, K. S., & Burnley, V. V. 2004. Hematologic Reference Intervals For Koi (*Cyprinus carpio*), Including Blood Cell Morphology, Cytochemistry, and Ultrastructure. *Veterinary Clinical Pathology*, 33(2), 74–83.
- Triyanto. 1990. Patogenesitas Beberapa Isolat *Aeromonas hydrophila* terhadap Ikan Lele (*Clarias batrachus L.*). prosiding Seminar Nasional II Penyakit Ikan dan Udang. Balai Penelitian dan Pengembangan Perikanan. Badan Penelitian dan Pengembangan Pertanian, 116-122p.
- Trust, T.J., I.D. Courtice, and H. M. Atkinson. 1980. Hemagglutination Properties of *Aeromonas*. Pages 128-223 in W. Ahne, ed. *Fish Diseases*. Third COPRAQ. Springer Verlag. Berlin.
- Umar, M.P. and K.S. Ramulu. 2013. Haematological Changes In *Pangasius hypophthalmus* Infected With *Aeromonas hydrophila*. *International Journal of Food, Agriculture and Veterinary Sciences*, 3(1): 70-75.
- Uribe, C., H. Folch, R. Enriques, and G. Moran. 2011. Innate and Adaptive Immunity in Teleost Fish: a Review. *Veterinarni Medicina*, 56(10): 486-503.
- Wang, G., Clark, C., Liu, C., Pucknell, C., Munro, C., Kruk, T., Caldeira, R., Woodward, D. & Rodgers, F. 2003. Detection and Characterization of the Hemolysin Genes in *Aeromonas hydrophila* and *Aeromonas sobria* by Multiplex PCR. *Journal of Clinical Microbiology* 41: 1048-1054.
- Wedemeyer GA, and Yasutake. 1977. Clinical Methods for The Assessment on The Effect of Enviromental Stress on Fish Health. Technical Paper of The US Departement of The Interior Fish ang the Wildlife Service, 89 : 1-17.
- Wendelaar, B.S.E. 1997. The Stress Response in Fish. *Physiol . Rev.* 77: 591 – 625.
- Yours, A.H., Napis, S., Rusul, G.R.A. and Son, R. 2007. Detection of Aerolysin and Hemolysin Genes in *Aeromonas* spp. Isolated from Environmental and Shellfish Sources by Polymerase Chain Reaction. *ASEAN Food Journal*, 14(2): 115-122.
- Zhang X-J, Yang W-M, Li T-T., Li Auhua. 2013. The Genetic Diversity And Virulence Characteristics of *Aeromonas hydrophila* isolated from

fishponds with disease outbreaks in Hubei province. *Acta Hydrobiol* 3:458–66.

Zulkifi, H., Setiawan, D., dan Yustian, I. 2011. Freshwater Fish Diversity in Pulokerto Musi River, Palembang-South Sumatra: A Preliminary Results. Paper presented on The 6th CRISUCUPT Conference, International Seminar and Exhibition: Exploring Research Potentials, Palembang, October 20 – 22nd.