

DAFTAR PUSTAKA

- Abdoli, A., Rasooli, P., & Mostafavi, H. 2008. Length-weight relationships of *Capoeta capoeta capoeta* (Gueldenstaedt, 1772) in the Gorganrud River, south Caspian Basin. *Journal of Applied Ichthyology*, 24(1), 96-98.
- Abu-Almaaty, A. H., Ebied, A. B. M., dan Allam, M. 2018. Genetic characterization of four fish species of genus *Synodontis* using RAPD marker. *Indian Journal of Geo-Marine Sciences*, 47(12): 2395–2406
- Abubakar, S., R. Subur., & I. Tahir. 2019. Estimation of the First Time the Size of the Mackerel Gonads (*Rastrelliger* sp.) in the Waters of Sidangoli Dehe Village, South Jailolo District, West Halmahera Regency. *Jurnal Biologi Tropis*, 19(1), 42-51.
- Achakzai, W., M. S. Saddozai, W. A. Baloch, J. Massod, H. U. Rehman and M. Ain. 2015. Food and feeding habits of *Glossogobius giuris* (Hamilton and Buchannan, 1822) collected from Manchar Lake Distt. Jamshoro, Sindh, Pakistan. *Globals. Veteri.* 14: 613-618
- Allendorf, F.W. and G. Luikart. 2007. *Conservation and The Genetics of Populations*. Victoria, Australia : Blackswell Publishing.
- Ahmed, N., 1953. *Fish Fauna of East Pakistan*. Pak. J. Sci., 1:18-24
- Ahmed, E. O., M. E. Ali., & A. A. Aziz. 2011. Length-weight relationships and condition factors of six fish species in Atbara River and Khashm El-Girba Reservoir, Sudan. *International Journal of Agriculture Sciences*, 3(1), 65-70.
- Allen GR. 1991. *Field guide to the freshwater fishes of New Guinea*. Christenses Research Institute. Papua New Guinea. Hal: 268.
- Ambarwati, A. 2023. *Biologi Reproduksi Ikan Menga (Sicyopterus lagocephalus, Pallas 1770) di Sungai Cibareno, Sukabumi, Jawa Barat*. Disertasi. IPB University.
- Andriyani, I., S. Wah yuningsih, dan S. Suryaningtias. 2019. Perubahan Tata Guna Lahan di Sub DAS Rembangan - Jember dan Dampaknya Terhadap Laju Erosi. *Jurnal Agritech*. 39(2), 117–127.
- Anggraini, N., Karyadi, B., Ekaputri, R. Z., Zukmadini, A. Y., Sastiawan, R., & Anggriani, F. 2018. The population and habitat of mungkus fish (*Sicyopterus cynocephalus*) in Bengkenang Waters South of Bengkulu. *Journal of Physics: Conference Series*, 1116(5).

- Aquino, L. M. G., Tango, J. M., Canoy, R. J. C., Fontanilla, I. K. C., Basiao, Z. U., Ong, P. S., & Quilang, J. P. 2011. DNA barcoding of fishes of Laguna de Bay, Philippines. *Mitochondrial DNA*, 22(4), 143–153.
- Arrafi, M., Ambak, A. M., Rumeaida, M. P., & Muchlisin, Z. A. 2016. Biology of Indian mackerel *Rastrelliger kanagurta* (Cuvier, 1817) in the Western Waters of Aceh. *Iranian Journal of Fisheries Sciences*, 15(3), 957-972.
- Arteaga JP, Garcia R, Carlo S, dan Valle. 1997. Length-Weight Relationships of Cuban Marine Fishes, NAGA. Philippines: *ICLARM*. 2(1) 38- 43.
- Asdak C. 2002. *Hidrologi dan Pengelolaan Daerah Aliran Sungai*. Gadjah Mada University Press. Yogyakarta.
- Assay, K, Houki, A, and Afrizal S. 1998. *Water Quality Assesment of River of West Sumatera Using Epilithic Diatom Assemblages*. 15th Diatom Symposium. Tokyo, Japan.
- Azis, R., Affandi, R., Nirmala, K., & Prihadi, T. 2015. Growth of Off-Flavours-Caused Phytoplankton in Milkfish Culture Fertilized with Different N:P. *Jurnal Akuakultur Indonesia*, 14(1), 58. <https://doi.org/10.19027/jai.14.58-68>
- Baldwin, C. C., & Smith, D. G. 2003. Larval gobiidae (Teleostei: Perciformes) of Carrie Bow Cay, Belize, central America. *Marine Science*, 72(3), 639–674.
- Balon, E. K. & Bruton, M. N. 1994. Fishes of the Tatinga River, Comoros, with comments on freshwater amphidromy in the goby *Sicyopterus lagocephalus*. *Ichthyological Exploration of Freshwaters* 5, 25–40.
- Bal, D. V., & K. V. Rao. 1984. *Marine fisheries*. Tata McGraw-Hill Publishing Company.
- Barnham, C. A., & A. F. Baxter. 2003. *Condition factor, K, for salmonid fish*. Department of Primary Industries.
- Boyd, C. E., & Tucker, C. S. 2012. *Pond Aquaculture Water Quality Management*. New York: Springer Science and Business Media.
- Bhuiyan A.L. 1964. *Fishes of Dacca*. Asiatic Soc. Pak. Dacca. Pub.No 13. Hal:148
- Bidawi, B. M., Desrita, D., & Yunasfi, Y. 2017. Hubungan panjang berat dan faktor kondisi ikan belodok (Famili: Gobiidae) pada ekosistem mangrove di Desa Pulau Sembilan Kabupaten Langkat Provinsi Sumatera Utara. *Depik*, 6(3), 228–234.
- Bjornsson, B. , A. Steinarsson and T. Árnason. 2007. Growth Model for Atlantic Cod (*Gadus morhua*): Effects of Temperature and Body Weight on Growth Rate. *Aquaculture* 271 (2007). 216–226.

- Bleeker, P., 1853. *Diagnostische beschrijvingen van nieuwe of weinig bekende vischsoorten van Sumatra*. Tiental V–X. *Natuurkundig Tijdschrift voor Nederlandsch-Indie*, 4: 243–302.
- Blob, R. W., Bridges, W. C., Ptacek, M. B., Maie, T., Cediell, R. A., Bertolas, M. M., Julius, M. L., & Schoenfuss, H. L. 2008. Morphological selection in an extreme flow environment: Body shape and waterfall-climbing success in the Hawaiian stream fish *Sicyopterus stimpsoni*. *Integrative and Comparative Biology*, 48(6), 734–749.
- Bostrom MK, Ostman O, Bergenius MAJ, Lunneryd SG. 2012. Cormorant diet in relation to temporal changes in fish communities. *Ices Journal of Marine Science*, 69, 175–183.
- Brown-peterson, N.J., D.M. Wyanski, F. Saborido-rey, J. Beverly, S.K. Lowerre-barbieri, D.M. Wyanski, S.K. Lowerre-barbieri. 2003. A Standardized Terminology for Describing Reproductive Development in Fishes Special Section: Fisheries Reproductive Biology. *Marine and Coastal Fisheries; Dynamics, Management, and Ecosystem Science* 3 (1): 52-70.
- Bullock, Robert, Ralph, Gina, Stump, E., Al Abdali, F., Al Asfoor, J., Al Buwaiqi, B., Al Kindi, A., Ambuali, A., Birge, T., Borsa, P., Di Dario, F., Everett, B., Fennessy, S., Fonseca, C., Gorman, C., Govender, A., Ho, H., Holleman, W., Jiddawi, N., Khan, M., Larson, H., Linardich, C., Matiku, P., Matsuura, K., Maunde, C., Motomura, H., Munroe, T., Nair, R., Obota, C., Polidoro, B., Russell, B., Shaheen, S., Sithole, Y., Smith-Vaniz, W.F., Uiblein, F., Weerts, S., Williams, A., Yahya, S., Carpenter, K. 2021. *The conservation status of marine biodiversity of the Western Indian Ocean*. IUCN, International Union for Conservation of Nature and Natural Resources. Gland, Switzerland. ISBN: 978-2-8317-2098-2
- Chauhan, T., dan Rajiv, K. 2010. Molecular markers and their applications in fisheries and aquaculture. *Advances in Bioscience and Biotechnology*, 01(04): 281–291.
- Chiang, T.Y., Chen, I.S., Chang, W.B., Ju, Y.M. 2013. “Complete Mitochondrial Genome of *Sicyopterus japonicus* (Perciformes, Gobiidae)”. *Mitochondrial DNA* 24. No. 3:191-193.
- Christy, R. M., & Maie, T. 2019. Adhesive force and endurance during waterfall climbing in an amphidromous gobiid, *Sicyopterus japonicus* (Teleostei: Gobiidae): Ontogenetic scaling of novel locomotor performance. *Zoology*, 133(February), 10–16.
- Culley, T.M., L.E. Wallace, K.M. Gengler-Nowak dan D.J. Crawford. 2002. a Comparison of Two Methods of Calculating G_{st}, A Genetic Measure of Population Differentiation. *American Journal of Botany*. 89(3):460-465.

- Danish, M., & Singh, I. J. 2018. Assessment of Genetic Diversity of Two Populations of Catfish *Clarias batrachus* L. Using Random Amplified Polymorphic DNA (RAPD) Markers. *Journal of Pharmacognosy and Phytochemistry*, 7(3), 2345–2352.
- Dharmayanti N. 2011. Filogenetika molekuler: metode taksonomi organisme berdasarkan sejarah evolusi. *Wartazoa*. vol 21(1): 1– 10.
- Djumanto, D., Setyobudi, E., & Rudiansyah, R. 2012. Fekunditas ikan gelodok, *Boleophthalmus boddarti* (Pallas 1770) di Pantai Brebes [Fecundity of Boddart's goggle-eyed goby, *Boleophthalmus boddarti* (Pallas 1770) in Brebes Coast]. *Jurnal Iktiologi Indonesia*, 12(1), 59-71.
- Djumanto, Devi, M. I. P., & Setyobudi, E. 2013. Ichthyofauna distribution in downstream region of Opak River, Yogyakarta. *Jurnal Iktiologi Indonesia*, 13(2), 97–108.
- Doha S. 1973. Fishes of The District of Mymensingh and Tangail. *Bangladesh J. Zool.*, 1: 1-10.
- Dokumentasi Pribadi 2020. Wawancara Nelayan di Sepanjang Aliran Sungai Batang Kuranji, Batang Air Dingin dan Lubuk Hitam. Padang. Sumatera Barat
- Dolgov, A.V. 2005. Feeding and food Consumption bay the Barents sea Skate. *J. of Northwest Atlantic Fish. Sci*, Vol 35 (34).
- Donaldson, T. J., & Myers, R. F. 2002. Insular freshwater fish faunas of Micronesia: Patterns of species richness and similarity. *Environmental Biology of Fishes*, 65(2), 139–149. <https://doi.org/10.1023/A:1020050931158>
- Dotu Y. & Mito S. 1955. - Life history of the gobioid fish, *Sicydium japonicum* Tanaka. *Sci. Bull. Fac. Agr. Kyushu Univ.*, 10: 120-126. (in Japanese with English abstract)
- Dunham RA. 2002. *Aquaculture and Fisheries Biotechnology: Genetic Approach*. New York: CABI Publishing, Cambridge. pp85-99.
- Dunham, R. A. 2004. *Aquaculture and Fisheries Biotechnology. Genetic Approaches*. Departemen of Fisheries and Allied Aquacultures, Auburn Univ. Alabama. USA
- Edmonsons, W.T. 1959. *Fresh Water Biology*, Second Edition. John Willey and Sons, Compman and Hall Limited, London.
- Effendie, M. I.. 2002. *Biologi Perikanan*. Cetakan Kedua. Yayasan Pusaka Nusantara.

- Effendi, I. 2004. *Pengantar Akuakultur*. Penebar Swadaya. Jakarta
- Ekasanti, A., Syakuri, H., Muslih, M., & Listiowati, E. 2024. Keragaman Genetik Guppy (*Poecilia reticulata*) Menggunakan Metode RAPD (Random Amplified Polymorphic DNA) *Jurnal Perikanan Unram*, 13(4), 1032–1042. <https://doi.org/10.29303/jp.v13i4.663>
- Eragradhini, A. R. 2014. Biologi Reproduksi Ikan Bungo (*Glossogobius giurus*, Hamilton- Buchanan 1822) di Danau Tempe, Sulawesi Selatan.
- Fafioye, O. O., Oluajo, O. A. 2005. Length-weight relationships of five fish species in Epe lagoon, Nigeria. *African Journal of Biotechnology*. 4(7): 749–751
- Fahrur, M., Radiarta, I. N., & Suhaimi, A. 2013. Struktur Komunitas , Keragaman , Keseragaman , dan Dominansi Fitoplankton Di Kepulauan Bungku Selatan Kabupaten Morowali. *Teknologi Akuakultur*. 198(3), 1083–1089.
- Famoofo, O.O., W.O. Abdul. 2020. Biometry, condition factors and length-weight relationships of sixteen fish species in Iwopin fresh- water ecotype of Lekki Lagoon, Ogun State, Southwest Nigeria. *Heliyon*, 6: 1–8.
- Fitri, F., Pramana, A., Mahendra, W., & Kurniawan, N. 2019. Abiotic Factors as Indicators of the Abundance of Penjah Fish of the Gobiidae Family in the Mapilli River Estuary , Polewali Mandar District , West Sulawesi. *Journal of Environmental Engineering & Sustainable Technology*, 6(1), 1–8.
- Fitzpatrick, B.M., J.A. Fordyce and S. Gavrillets. 2008. What, if anything, is Sympatric Speciation?. *Journal of Evolution Biology*. Vol.21: 1452-1459.
- Fitzsimons, J. M., McRae, M. G., Schoenfuss, H. L., & Nishimoto, R. T. 2003. Gardening Behavior in the Amphidromous Hawaiian Fish *Sicyopterus stimpsoni* (Osteichthyes: Gobiidae). *Ichthyological Exploration of Freshwaters*, 14(2), 185–191.
- Flores, A., R. Wiff., K. Ganas., & C. T. Marshall. 2019. Accuracy of gonadosomatic index in maturity classification and estimation of maturity ogive. *Fisheries Research*, 210, 50-62.
- Fossati, O., Mosseron, M. & Keith, P. 2002. Atyidae (Crustacea Decapoda) macro- and micro-distribution in the rivers of Nuku-Hiva island (French Polynesia). *Hydrobiologia*, 472, 197–206
- Frankham, R., Ballou, J.D., Briscoe, D.A. 2002. *Introduction to Conservation Genetics*. Cambridge: Cambridge University.

Friedah, Buwono, N. R., & S, A. R. 2017. Kebiasaan Makan Ikan Janjan *Pseudapocryptes elongatus* di Kali Mireng Kabupaten Gresik pada November-Januari. *Journal of Aquaculture and Fish Health*, 6(2), 88–93.

GenBank. 2021. Genomes. <http://www.ncbi.nlm.nih.gov/> (17 Februari 2021).

Gosch M, Hernandez-Milian G, Rogan E, Jessopp M, Cronin M. 2014. Grey seal diet analysis in Ireland highlights the importance of using multiple diagnostic features. *Aquatic Biology*, 20, 155–167.

Hafidah, R., Yustiati, A., Mulyani, Y., & Suryadi, I. B. B. (2021). Determination of Genetic Diversity of Four Guppy Strains Using the Random Amplified Polymorphic DNA-PCR. *Asian Journal of Biochemistry, Genetics and Molecular Biology*, 8(1), 1–8. <https://doi.org/10.9734/ajbgmb/2021/v8i130183>

Hancock, F.D. 1985. Diatoma Association in The Aufwuchs of in Undated Trees and Under Water Leaves of Salfinia, Drawned Mawenda River Lake Karibia, Zimbabwe. *Hydrobiol.* Vol. 121. No. 1. Page 65 – 75.

Haryadi, D., Lumbessy, S. Y., & Abidin, Z. 2015. Pengaruh Salinitas Terhadap Pertumbuhan, Tingkat Kelangsungan Hidup, Dan Konversi Pakan Benih Ikan Nila *Oreochromis niloticus*. *Jurnal Perikanan Unram*, 6(1), 64-69.

Hayuningtyas, E. P., & Kadarini, T. (2016). Keragaman Genotipe Tiga Generasi Ikan Rainbow Kurumoi (*Melanotaenia parva*) Hasil Domestikasi Berdasarkan RAPD. *Jurnal Riset Akuakultur*, 11(2), 107–114.

Hedianto D.A., Purnomo K., & Warsa, A. 2013. Analisis tingkat trofik dan pemanfaatan pakan alami oleh komunitas ikan di Waduk Penjalin, Jawa Tengah. *Bawal*. 5(1): 33–40.

Hedrick, P.W. 2005. *A Standardized Genetic Differentiation Measure*. *Evolution*. 59(8): 1633-1638.

Herre AW. 1927. *Gobies of the Philippines and the China Sea*. Monographs of the Bureau of Science. *Monograph*. Vol. 23. Manila: Bureau of Printing. 352 Halaman.

Hirashima, K., Tachihara, K. 2000. Embryonic Development and Morphological Changes in Larvae and Juveniles of Two Landlocked Gobies, *Rhinogobius* spp. (Gobiidae), on Okinawa Island (in Japanese with English abstract Jpn). *J Ichthyol.* 47 29–41

Hustedt, F. 1930. *Bacillariophyta (Diatomea)*, *Archief Hydrobiol.* Suppl, Bremen.

Hoese D.F., 1986. *Gobiidae*. In *Smith's Sea Fishes*. Springer-Verlag, Berlin, Hal:774-807

- Holden, M.J dan Raitt, D.F.S. 1974. *Manual of fisheries science part 2-methods of resource investigation and their application*. Rome: Food and Agriculture Organization of the United Nations.
- Huyen, K.T., H.T. Hue., N.Q. Linh.. 2021. Genetic Diversity Of Giant Mottled Eel (*Anguilla Marmorata* Quoy & Gaimard, 1824) By RAPD In Thua Thien Hue Province, Vietnam. *Hue University Journal of Science: Techniques and Technology*. 130(2B): 29–40.
- Iida, M., Watanabe, S., & Tsukamoto, K. 2010. Validation of otolith daily increments in the amphidromous goby *Sicyopterus japonicus*. *Coastal marine science*, 34(1), 39–41.
- Iida, M., Watanabe, S., & Tsukamoto, K. 2011. Reproductive biology of the amphidromous goby *Sicyopterus japonicus* (Gobiidae: Sicydiinae). *Cybium*, 35(4), 329–336. <https://doi.org/10.26028/cybium/2011-354-006>
- Iida, M., Watanabe S., & Tsukamoto K., 2013. Riverine life history of the amphidromous goby *Sicyopterus japonicus* (Gobiidae: Sicydiinae) in the Ota River, Wakayama, Japan. *Environmental Biology of Fishes*, 96(5): 645–660.
- Iguchi, K. & Mizuno, N. 1990. Diel changes of larval drift among amphidromous gobies in Japan, especially *Rhinogobius brunneus*. *Journal of Fish Biology* 37, 255–264.
- Iguchi, K. & Mizuno, N. 1991. Mechanisms of embryonic drift in the amphidromous goby *Rhinogobius brunneus*. *Environmental Biology of Fishes* 31, 295–300
- Inger R.F., and Kong C.P. 1962. *Freshwater Fishes of North Borneo*. Fieldana, Zoology. Chicagon Natl. Hist. Mus. Hal: 5
- Irmawati. 2016. *Genetika Populasi Ikan (P. Christian (ed.); 1st ed.)*. CV. Andi Offset.
- Islam, M.N., A. Basak, Ashrafullah., M.S. Alam. 2011. Genetic Diversity in Wild and Hatchery Populations of Stinging Catfish (*Heteropneustes fossilis* Blonch) Revealed by RAPD Analysis. *J.bio-sci.* 19:81-87.
- Jorde, L.B. 1995. *Population Spesific Genetic Markers and Diseases*. In: Mayer (Ed). *Molecular Biology and Biotechnology A Comprehensive Desk Reference*. VCH Publisher Inc. New York, USA. 724-728.
- Ju, Y. M., Hsu, C. H., Fang, L. S., Lin, H. D., Wu, J. H., Han, C. C., Chen, I. S., & Chiang, T. Y. (2013). Population structure and demographic history of *Sicyopterus japonicus* (Perciformes; Gobiidae) in Taiwan inferred from mitochondrial control region sequences. *Genetics and Molecular Research*, 12(3), 4046–4059.

- Juanda, T. 1980. *Kehidupan dalam setetes air*. ITB Press. Bandung.
- Kasmi, M., Hadi, S., & Kantun, W. (2017). Biologi reproduksi ikan kembung lelaki, *Rastrelliger kanagurta* (Cuvier, 1816) di Perairan Pesisir Takalar, Sulawesi Selatan. *Jurnal Iktiologi Indonesia*, 17(3), 259-271.
- Katiandagho, B., & F. Marasabessy. 2017. Reproductive Potential, Spawning Patterns and Alternative Management of Indian Mackerel (*Rastrelliger kanagurta*) Around the Coast of Biak Waters. *Agrikan: J. Agro. & Fish*, 10(2), 51-55.
- Keith, P., Watson, R. E. & Marquet, G. 2002. *Stenogobius (insularigobius) yateiensis*, a new species of freshwater goby from New Caledonia (Teleostei: Gobiidae). *Bulletin Franc, ais de Peˆche et de Pisciculture* 364, 187–196.
- Keith, P., Hoareau, T. B., Lord, C., Ah-Yane, O., Gimonneau, G., Robinet, T., & Valade, P. 2008. Characterisation of post-larval to juvenile stages, metamorphosis and recruitment of an amphidromous goby, *Sicyopterus lagocephalus* (Pallas) (Teleostei : Gobiidae : Sicydiinae). *Marine and Freshwater Research*, 59(10), 876–889. <https://doi.org/10.1071/MF08116>
- Keith P., Gerbeaux P., Boseto D., Ebner B.C., and Marquet G. 2015. Freshwater Fish & Crustaceans Of Kolombangara Watershed Priority Site: Diversity And Conservation (Choiseul, Solomon). *French Ichthyological Society (SFI)*. 1:1–32.
- Keith, P., Lord, C., Darhuddin, H., Limmon, G., Sukmono, T., Hadiaty, R., & Hubert, N. 2017. *Schismatogobius* (Gobiidae) from Indonesia, with description of four new species. *Cybium*, 41(2), 195–211.
- Kholis, M. N., Amrullah, M. Y., Limbong, I. 2021. Studi Jenis Alat Penangkapan Ikan Tradisional di Sungai Batang Bungo Kabupaten Bungo Provinsi Jambi. *Jurnal Sumberdaya Akuatik Indopasifik*, 5(1): 31-46
- Khristenko, D. S., & Kotovska, G. O. (2017). Length-weight relationship and condition factors of freshwater bream *Abramis brama* (Linnaeus, 1758) from the Kremenchug Reservoir, Middle Dnieper. *Turkish Journal of Fisheries and Aquatic Sciences*, 17(1), 71-77.
- Knight TM, McCoy MW, Chase JM, McCoy KA, Holt RD. 2005. Trophic cascades across ecosystems. *Nature*, 437, 880–883.
- Kottelat M, Whitten AJ, Kartikasari SN, Wirjoatmodjo S. 1993. *Freshwater fishes of Western Indonesia and Sulawesi*. Periplus Editions, Hongkong.

- Kottelat M. 2013. The fishes of the inland waters of Southeast Asia: A catalogue and core bibliography of the fishes known to occur in freshwaters, mangroves and estuaries. *Raffles Bulletin of Zoology*. vol 27: 1–663. <https://doi.org/10.1080/02701367.2001.10608936>.
- Koumans F.P. 1953. *Gobioidea*. In *Fishes of the Indo-Australian Archipelago*. (Eds. Max Weber and L.F. Beaufort), Published by E. J. Brill, Leiden, Hal: 243.
- Kouwets, A.C. 1987. *Desminda* from The Anvergne (France), *Hydrobiologia*. Vol. 146. No. 3. 30 March.
- Kramer, K. and H. Lang-Bertalot. 1986. *Süßwasserflora von Mitteleuropa; Naviculaceae*. Gustav Fisher Verlag, Stuttgart
- Kramer, K. and H. Lang-Bertalot. 1990. *Süßwasserflora von Mitteleuropa; Nitzschiaceae und Ssuriellaceae*. Gustav Fisher Verlag, Stuttgart
- Kramer, K. and H. Lang-Bertalot. 1991. *Süßwasserflora von Mitteleuropa; Achnantheaceae*. Gustav Fisher Verlag, Stuttgart
- Kumari, N. and S.K. Thakur. 2014. Randomly Amplified Polymorphic DNA: A Brief Review. *American J. Animal and Veterinary Science*. 9(1):6-13.
- Kumla, S., S. Doolgindachbaporn, R. Sudmoon and N. Sattayasai. 2012. Genetic Variation, Population Structure, and Identification of Yellow Catfish, *Mystus nemurus* (C&V) in Thailand Using RAPD, ISSR, and SCAR Marker. *Molecular Biology Rep.* 39:5201-5210.
- Kusminies, I. I., R. Gustiano., dan Mulyasari. 2011. Karakterisasi Genetik Ikan Kelabau (*Osteochilus kelabau*) Dari Berbagai Lokasi Di Kalimantan Barat Menggunakan Metode RAPD (Random Amplified Polymorphism DNA). *Berita Biologi*. 10: 449–454.
- Lante, S., A. Tenriulo., dan N.N. Palinggi. 2012. Variasi Genetik Ikan Beronang (*Siganus Guttatus*) Asal Perairan Barru, Lampung, Dan Sorong Menggunakan Penanda RAPD (Random Amplified Polymorfism DNA). *J. Ris. Akuakultur*. 7(2): 195-204.
- Larson H.K., Geiger M.F., Hadiaty R. & Herder F., 2014. - *Mugilogobius* hitam, a new species of freshwater goby (Teleostei: Gobioidei: Gobiidae) from Lake Towuti, central Sulawesi, Indonesia. *Raff. Bull. Zool.*, 62: 718-725.
- Librado, P. dan Rozas, J. 2009. “DnaSP v5: A Software for Comprehensive Analysis of DNA Polymorphism Data”. *Bioinformatics*. Vol 25. No. 11 (2009): 1451-1452
- Liu, Z. 2007. Randomly Amplified Polymorphic DNA (RAPD). *Aquaculture Genome Technologies*, 21–28.

- Liu, S., Z. Yang., D. Wang and M. Liu. 2014. The Mitochondrial Genome of *Mystacoleucus* (Cypriniformes, Cyprinidae). *Mitochondrial DNA*.
- Lodish, H., Berk, A., Zipursky, S. L., Matsudaira, P., Baltimore, D. & Darnell, J. (2000). *Molecular Cell Biology*, 4 th Edition. W. H. Freeman and Company. New York. <https://www.ncbi.nlm.nih.gov/books/NBK21475/>.
- Lord, C., & Keith, P. 2008. Threatened fishes of the world: *Sicyopterus sarasini* Weber & de Beaufort, 1915 (Gobiidae). *Environmental Biology of Fishes*, 83(2), 169–170. <https://doi.org/10.1007/s10641-007-9311-9>
- Mamangkey JJ, Sulistiono, DS Sjafei, D Soedarma, S Sukimin, dan E Nugroho. 2007. Keragaman genetik ikan endemik Butini (*Glossogobius matanensis*) berdasarkan penanda Random Amplified Polymorphism DNA (RAPD) di danau Towuti Sulawesi Selatan. *Jurnal Riset Akuakultur* 2, 389 – 397.
- Mauge L.A. 1986. *Gobiidae*. In Check List of the Freshwater Fishes of Africa, 2: 358-388.
- Michael, P. 1984. *Ecological Method For Field and Laboratory Investigation*. Tata Mc graww-hill publisher. New Delhi.
- Moody, K. N., Wren, J. L. K., Kobayashi, D. R., Blum, M. J., Ptacek, M. B., Blob, R. W., Toonen, R. J., Schoenfuss, H. L., & Childress, M. J. 2019. Evidence of local adaptation in a waterfall-climbing Hawaiian goby fish derived from coupled biophysical modeling of larval dispersal and post-settlement selection. *BMC Evolutionary Biology*, 19(1). <https://doi.org/10.1186/s12862-019-1413-4>
- Moriyama, A., Yanagisawa, Y., Mizuno, N. & Omori, K. 1998. Starvation of drifting goby larvae due to retention of free embryos in upstream reaches. *Environmental Biology of Fishes*, 52, 321–329.
- Muchlisin, Z. A. (2010). *Diversity of freshwater fishes in Aceh Province with emphasis on several biological aspect of the depik (Rasbora tawarensis) an endemic species in Lake Laut Tawar* (Doctoral dissertation, Thesis, Universiti Sains Malaysia, Penang).
- Muhajirah, E., M.M. Kamal., N.A. Butet., A. Wibowo. 2021. Keragaman genetik giant Snakehead (*Channa micropeltes*) menggunakan penanda Polymerase Chain Reaction (PCR) di perairan Taman Nasional Seabngau, Kalimantan Tengah. *JPSL*. 11(1): 141-151.
- Muharam, E.G., I.D Buwono., dan Y. Muyani. 2012. Analisis Kekerabatan Ikan Mas Koi (*Cyprinus carpio koi*) dan Ikan Mas Majalaya (*Cyprinus carpio*) Menggunakan Metode RAPD. *Jurnal Perikanan Kelautan*. 3 (3): 15-23.

- Munirwan H, Prayudi WA, Putra ZDW. 2019. *Buku Pengantar Praktis Pengelolaan Lingkungan Kota*. Yogyakarta (ID): Deepublish.
- Munro I.S. 1955. *The Marine and Freshwater Fisheries of Ceylon*. Dept. External Affairs, Canbarra Publication, Hal: 349.
- Murdy EO. 1989. A taxonomic revision and cladistic analysis of the oxudercine gobies (Gobiidae: Oxudercinae). *Records of the Australian Museum Supplements*, 11:1-93.
- Muthiadin, C. U. T., Aziz, I. R., & Darajat, A. Z. 2018. DNA Mitokondria Untuk Identifikasi Ikan yang Kaya Spesies. *Prosiding Seminar Nasional Megabiodiversitas Indonesia*, April, 51–53.
- Natarajan, A. V., & Jhingran, A. G. (1961). Index of Preponderance - A Method of Grading The Food Elements in The Stomach Analysis of Fishes. *Indian J Fish*, 8(1), 54–59.
- Nebauer, S. G., Del Castillo-Agudo, L., dan Segura, J. 2000. An assessment of genetic relationships within the genus *Digitalis* based on PCR-generated RAPD markers. *Theoretical and Applied Genetics*, 100(8): 1209–1216.
- Needham, J.Cr., and P.R. Needham. 1964. *A Guide to The Study of Fresh Water Biology*. Holden Day Inc, San Francisco.
- Nei, M. 1978. Estimation of Average Heterozygosity and Genetic Distance from Small Number of Individuals. *Genetics*. 89: 583-590.
- Nei, M. 1987. *Molecular Evolutionary Genetics*. New York. Columbia University Press. 512.
- Neekhara, B., Aa, M., Verma, S., & Rk, K. 2014. RAPD-PCR Based Biomarker Study in Fish Species (Family: Cyprinidae) of Madhya Pradesh, India. *Molecular and Cell Biology*, 1(1), 1–6.
- Nichols J.T., 1943. *The Freshwater Fishes of China*. Natural History of Central Asia, Hal:322.
- Nikolsky, G. V. (1963). *The Ecology of Fishes*. London : Academic Press London.
- Nugroho, R.A., Florentino, A.P., Lariman., Aryani, R., Rudianto., & Kusneti, M. 2021. Hubungan Panjang Berat dan Faktor Kondisi Relatif Lima Spesies Ikan di Sungai Suwi Muara Ancalong, Kutai Timur. *Biota: Jurnal Ilmiah Ilmu-Ilmu Hayati*, Vol. 6 (2): 64-70.

- Nursyahra, N. 2012. Jenis-Jenis Ikan Yang Tertangkap Di Batang Air Dingin Kelurahan Balai Gadang Kecamatan Koto Tangah Kota Padang. *Jurnal Pelangi*, 4(2).
- Pamungkas, W., E. Tahapari., & J. Darmawan. 2014. Gonadal Development and Spawning Frequency of Tilapia (*Oreochromis niloticus*) That Fedded by Vitamin E Supplementation. *Berita Biologi*, 13(3), 239-244.
- Paujiah, E., Solihin, D. D., & Affandi, R. 2017. Struktur trofik komunitas ikan di Sungai Cisadea Kabupaten Cianjur, Jawa Barat Trophic structure of fish community in Cisadea River, Cianjur, Jawa Barat]. *Jurnal Iktiologi Indonesia*, 13(2), 133–143.
- Pechsiri, J. and A Vanichanon. 2016. Genetic Diversity in Slender in Walking Catfish (*Clarias neuhofii*) Populations: Implications for Population Management. *Walailak Journal of Science & Technology*. Vol.23.29-39
- Pereira SL. 2000. *Mitochondrial Genome Organization and Vertebrate Phylogenetics*. Gen Mol Biol 23:745-752.
- Pramleonita, M., Yuliani, N., Arizal, R., & Wardoyo, S. E. 2018. Parameter Fisika dan Kimia Air Kolam Ikan Nila Hitam (*Oreochromis niloticus*). *Jurnal Sains Natural*, 8(1),24-34.
- Prescot, G.W. 1961. *Algae Of the Western Great Lake Area*. Reviced Edition. WMC. Brown Company Publisher. Iowa.
- Radtke, R. L., Kinzie, R. A. III & Shafer, D. J. 2001. Temporal and spatial variation in length of larval life and size at settlement of the Hawaiian amphidromous goby *Lentipes concolor*. *Journal of Fish Biology* 59, 928–938
- Rahadi B, Wiroesoedarmo R, Haji ATS, Ariyanto AP. 2020. Prediksi TDS, TSS, dan Kedalaman Waduk Selorejo Menggunakan Aerial Image Processing. *Jurnal Sumberdaya Alam dan Lingkungan* 7 (2): 65-71
- Rajasekar, M., Thangaraj, M., Barathkumar, T.R., Subburaj, J., and Muthazhagan, K. (2012). Genetic Diversity Analysis of Lates calcarifer (Bloch 1790) in Captive and Wild Populations Using RAPD Markers. *Notulae Scientia Biologicae*, 4(3), 33-37.
- Ridho, M. R., Patriono, E., & Mulyani, Y. S. 2020. Hubungan Kelimpahan Fitoplankton, Konsentrasi Klorofil-a dan Kualitas Perairan Pesisir Sungsang, Sumatera Selatan. *Jurnal Ilmu Dan Teknologi Kelautan Tropis*, 12(1), 1–8.
- Romimohtarto K & Juwana S. 2001. *Biologi Laut: Ilmu Pengetahuan tentang Biologi Laut*. Jakarta. Djambatan. Hal: 483.

- Roesma, D.I. 2011. *Diversitas Spesies dan Kekerabatan Genetik Ikan-ikan Cyprinidae di Danau-danau dan Sungai-sungai di Sekitar Kawasan Sumatera Barat*. Disertasi. Jurusan Biologi Universitas Andalas.
- Roesma DI, Tjong DH, Munir W, Agesi AV, Chornelia A. 2017. Genetic diversity of *Tor douronensis* (Pisces: Cyprinidae) in West Sumatra, Indonesia. *Biodiversitas* 18: 1018-1025
- Saanin, H. 1984. *Taksonomi and Kunci Indentifikasi Ikan. Jilid I dan II*. Bina Cipta, Bogor.
- Sachlan, M. 1962. *Planktonologi*. Fakultas Peternakan dan Perikanan UNDIP. Semarang.
- Salim, D., Yuliyanto, dan Baharuddin. 2017. Karakteristik Parameter Oseanografi Fisika-Kimia Perairan Pulau Kerumpunan Kabupaten Kotabaru Kalimantan Selatan. *Jurnal Enggano*. 2 (2): 218-228.
- Sambrook, J., & Russel, D. W. 2011. *Molecular Cloning*. New York: Cold Spring Harbor Laboratory Press
- Samudra, S. R., T. R. Soeprbowati, dan M. Izzati. 2013. Komposisi, Kelimpahan dan Keanekaragaman Fitoplankton Danau Rawa Pening Kabupaten Semarang. *Bioma*. 15(1): 6-13.
- Sari, R. T. 2016. Hubungan Panjang Tubuh Dan Rasio Papilla Dengan Jenis Kelamin Pada Ikan Gobi (*Sicyopterus macrostetholepis* Blkr.). *Jurnal Pendidikan Matematika dan IPA*, 7(2), 55.
- Sari, R. T., & Zakaria, I. J. 2017. The Relationship of Body Length and Ratio Pappilla with Sex in Gobi Fish (*Sicyopterus macrostetholepis* Blkr.). *Biosaintifika: Journal of Biology & Biology Education*, 9(2).
- Sapna, L., & Nugrahalia, M. 2017. Hubungan Fisiokimia Air Terhadap Keanekaragaman Udang Air Tawar di Perairan Sungai Bederak Terjun Kecamatan Medan Marelan Kota Madya Medan. *Jurnal Biosains*, 3(2), 112–118.
- Sarumaha, H., R. Kurnia., & I. Setyobudiandi. (2016). Biologi reproduksi ikan kuniran *Upeneus moluccensis* Bleeker, 1855 di perairan Selat Sunda. *Jurnal Ilmu dan Teknologi Kelautan Tropis*, 8(2), 701-711.
- Setiowati, R., & Wahyuni, E.T., 2016. Monitoring Kadar Nitrit dan Nitrat pada Air Sumur di Daerah Catur Tunggal Yogyakarta dengan Metode Sptrofotometris UV VIS. *Jurnal Manusia Dan Lingkungan*, 143–148.
- Siegers, WH., Prayitno, Y., & Sari, A. 2019. Pengaruh kualitas air terhadap pertumbuhan ikan nila nirwana (*Oreochromis* sp.) pada tambak payau. The

- Journal of Fisheries Development, 3(2), 95- 104. Schmitz OJ, Hawlena D, Trussell GC. 2010. Predator control of ecosystem nutrient dynamics. *Ecology Letters*, 13, 1199–1209
- Silbiger, N. and P. Munguia. 2008. Carapace color change in *Uca pugilator* as a response to temperature. *Journal of Experimental Marine Biology and Ecology*. 355(1): 41-46.
- Shaw G.E., and Shebbeare E.O. 1937. *Fishes of Northern Bengal*. J. Royal Asiatic Soc. Bengal, Science, Hal: 137.
- Smith, G.M. 1951. *Fresh Water Algae of United State. Second Edition*. McGraw Hill Book Company Inc, New York-Toronto.
- Sofarini, D., Siswanto, & Mardiah, A. A. 2020. Eutrophication of Danau Bangkai Peatland Based on Nitrate-Phosphate Concentrations and Fish Diversity. *Russian Journal of Agricultural and Socio-Economic Sciences*, 11(07), 98–106.
- Sone, S., Inoue, M. & Yanagisawa, Y. 2001. Habitat use and diet of two stream gobies of the genus *Rhinogobius* in south-western Shikoku, Japan. *Ecological Research* 16, 205–219.
- Srivastava G.J. 1968. *The Fishes of The Eastern Uttar Pradesh*. 1st Edn, Vishwavidyalaya Prokashan, Varanasi (India), Hal: 163.
- Stergiou KI, and Karpouzi VS. 2002. Feeding habits of Mediterranean fish. *Fish Biology and Fisheries*. 11: 217–254.
- Subiyanto, Ruswahyuni, Cahyono, D.G. 2008. “Komposisi dan Distribusi Larva Ikan Pelagis di Estuaria Pelawangan Timur, Segara Anakan, Cilacap”. *Jurnal Saintek Perikanan* 4 No. 1: 62-68.
- Sulistiono, S. (2012). Reproduction of tank goby (*Glossogobius giuris*) in Ujung Pangkah waters, East Java. *Jurnal Akuakultur Indonesia*, 11(1), 64-75.
- Sundari, S., Priadi, B., dan Sudarmaji, S. 2018. Perbandingan Tiga Metode Ekstraksi DNA untuk Analisa PCR Ikan Baung (*Hemibagrus nemurus*). *Buletin Teknik Litkayasa Akuakultur*. 16(2): 67-72.
- Suryandari, A., dan Krismono. 2011. Beberapa Aspek Biologi Ikan Manggabei (*Glossogobius giuris*) di Danau Limboto, Gorontalo. *Bawal*. Vol.3 (5): 329-336
- Syaifullah, S., N.P.M. Sari., D.H. Tjong., Z.A. Muchlisin. 2019. Species Composition of Eels Larvae (Anguillidae) in Mentawai Island waters, Indonesia based genetic data. *IOP Conf. Ser.: Earth Environ. Sci.* 348 : 1-6.
- Symondson WOC, and Harwood JD. 2014. Special issue on molecular detection of trophic interactions: unpicking the tangled bank. *Molecular Ecology*, 23, 3601–3604

- Syofyan, E. R., Saidi, A., Istijono, B., & Herdianto, R. 2016. Kajian Model Hidrograf Akibat Perubahan Tataguna Lahan dengan Menggunakan Data Lapangan DAS Batang Air Dingin Study of Hydrograph Assessment Model Due Changes in Land Use Using Batang Air Dingin Watershed Fields Data. *Poly Rekayasa*.12(1): 29–40.
- Takahashi, D., Kohda, M., and Yanagisawa, Y. 2001. “Male-male Competition for Large Nests as a Determinant of Male Mating Success in a Japanese Stream Goby, *Rhinogobius* sp.”. *Ichthyological Research*. 46 : 91-95
- Taillebois, L., Keith, P., Valade, P., Torres, P., Baloché, S., Dufour, S., Rousseau, K. 2011. “Involvement of Thyroid Hormones in The Control of Larval Metamorphosis in *Sicyopterus lagocephalus* (Teleostei: Gobiidae) at the Time of River Recruitment”. *Gen Comp Endocrinol*. 173: 281-288.
- Tanaka T, and Aranishi F. 2016. Comparative Genetic Characterization of Ark Shell *Scapharca broughtonii* in Northeast Asia. *Journal of Shellfish Research*. vol 35(2): 421–427.
- Tarigan, A., Bakti, D. & Desrita, D. 2017. Tangkapan dan Tingkat Kematangan Gonad Ikan Selar Kuning (*Selariodes leptolepis*) di Perairan Selat Malaka. *Acta Aquatica: Aquatic Sciences Journal*, 4(2), 44-52.
- Tatangindatu, F., Kalesaran, O., & Rompas, R. 2013. Studi Parameter Fisika Kimia Air pada Areal Budidaya Ikan di Danau Tondano, Desa Paleloan, Kabupaten Minahasa. *E-Journal Budidaya Perairan*, 1(2), 8–19.
- Teichert N., Valade P., Lim P., Dauba, F., Labonne J., Richardson M., Bosc P., Gaudin P. 2014. Habitat selection in amphidromous Gobiidae of Reunion Island : *Sicyopterus lagocephalus* (Pallas , 1770) and *Cotylopus acutipinnis* (Guichenot , 1863). *Environmental Biology of Fishes*, 97(3), 255–266.
- Thacker CE, Roje DM. 2011. Phylogeny of Gobiidae and Identification of Gobiid Lineages. *Systematics and Biodiversity*. 9(4):329-347.
- Titrawani, R. Elvyra, dan R. U. Sawalia. 2016. Analisis Isi Lambung Ikan Senangin (*Eleutheronema tetradactylum* Shaw) di Perairan Dumai. *Al-Kauniyah Jurnal Biologi*. 6 (2): 85-90.
- Tsang, L. M., B. K. Chan, K. Y. Ma and K. H. Chu. 2008. Genetic differentiation, hybridization and adaptive divergence in two subspecies of the acorn barnacle *Tetraclita japonica* in the northwestern Pacific. *Molecular Ecology*. 17(18): 4151-4163.
- Valade, P., Lord, C., Grondin, H., Bosc, P., Taillebois, L., Iida, M., Tsukamoto, K., & Keith, P. 2009. Early life history and description of larval stages of an amphidromous goby, *Sicyopterus lagocephalus* (Gobiidae: Sicydiinae). *Cybiu*, 33(4), 309–319.

- Victor, B. C., Vásquez-Yeomans, L., Valdez-Moreno, M., Wilk, L., Jones, D. L., Lara, M. R., & Shivji, M. 2010. The larval, juvenile, and adult stages of the Caribbean goby, *Coryphopterus kuna* (Teleostei: Gobiidae): a reef fish with a pelagic larval duration longer than the post-settlement lifespan. *Zootaxa*, 2346, 53-61.
- Vicentini, R. N., & Araujo, F. G. 2003. Sex ratio and size structure of *Micropogonias furnieri* (Desmarest, 1823) (Perciformes, Sciaenidae) in Sepetiba bay, Rio de Janeiro, Brazil. *Brazilian Journal of Biology*, 63, 559-566.
- Watanabe, M., and R. Usman. 1987. *Epilithic Fresh Water Diatoms in Central Sumatera Diatoms*, 3 : 33 – 87.
- Watson RE. 1991. A provisional review of the genus *Stenogobius* with description of a new subgenus and thirteen new species (Pisces: Teleostei: Gobiidae). *Records of the Western Australian Museum*, 15(3): 627-710.
- Weber, M., and L.F.D. de Beaufort. 1916. *The Fishes on The Indo-Australian Archipelago. Vol. I ~ X. E.J. Brill. Ltd Eerbeek, Holland.*
- Wetzel, R. G. (2001). *Limnology: Lake and River Ecosystems (3rd ed.)*. Academic press.
- Williams, J.G.K., Kubelik, A.R., Livak, K.J., Rafalski, J.A., Tingey, S.V. 1990. DNA polymorphisms amplified by arbitrary primers are useful as genetic markers. *Nucleic Acids Res.*, 18: 6531–6535.
- Wu, X. Y., & Yang, Y. F. 2010. Accumulation of Heavy Metals and Total Phosphorus in Intensive Aquatic Farm Sediments: Comparison of *Tilapia Oreochromis niloticus* × *Oreochromis aureus*, Asian Seabass *Lateolabrax niloticus* and White Shrimp *Litopenaeus vannamei* farms. *Aquaculture Research*, 41, 1.377–1.386.
- Xie R-T, Amenogbe E, Chen G, Huang J-S. 2021. Effects of feed fat level on growth performance, body composition and serum biochemical indices of hybrid grouper, *Epinephelus fuscoguttatus* × *E. polyphekadion*. *Aquaculture*. 530:735813.
- Yamaji, I. 1980. *Illustrations of the Freshwater Plankton of Japan*. Hoikusha Publishing Co. Ltd. Japan.
- Yeh, F. C., R.C.B.J. Yang., Z.H. Boyle., J.X.Y. Mao. 1999. *POPGENE 1.31. The User Friendly Shareware for populations Genetics Analysis*. Molecular Biology and Biotechnology Centre. University of Alberta. Canada. 1-8.
- Yusrika., Zakaria, I. J., Efrizal 2019. Beberapa Aspek Ekologi Ikan Kulari (*Lobocheilos falcifer* C.V: Cyprinidae) di Batang Kuranji river Padang , Sumatera Barat. *Metamorfosa: Journal of Biological Sciences* 6(2), 252–258.

- Yustiati, A., Hutagalung, R. M., Andriani, Y., Lili, W., dan Bangkit, I. 2020. Genetic Analysis of Tilapia (*Oreochromis niloticus*) Nirwana Strain Cultured in Aceh Besar and Wanayasa by Using Random Amplified Polymorphic DNA Method. *Asian Journal of Biochemistry, Genetics and Molecular Biology*, February 2021, 1–9.
- Zhao, F., Dong, Y., Zhuang, P., Zhang, T., Zhang, L. a & Shi, Z. (2011). Genetic diversity of silver pomfret (*Pampus argenteus*) in the Southern Yellow and East China Seas. *Biochemical Systematics and Ecology*, 39,145-150.
- Zuraidah, S., Akuakultur, P. S., Umar, U. T., Perikanan, P. S., & Umar, U. T. 2020. Pemberian Pakan Yang Berbeda Untuk Memacu Pertumbuhan Ikan Bileh (*Rasbora* Sp.) Sebagai Upaya Domestikasi Ikan Lokal Aceh Giving Different Feed For Spuring Growth Of Bileh Fish (*Rasbora* Sp.) as a Local Fish Domestication Efforts. *Jurnal Akuakultura*, 4(1): 6-10.

