

DAFTAR PUSTAKA

- Aji, K. W. dan Arisuryanti, T. 2021. Molecular identification of mudskipper fish (*Periophthalmus* spp.) from Baros Beach, Bantul, Yogyakarta. *Journal of Tropical Biodiversity and Biotechnology*, 6(3): 1-13.
- Akbar, N., dan Labenua, R. 2018. Keragaman genetik ikan cakalang (*Katsuwonus pelamis*) di Perairan Laut Maluku Utara, *Depik*, 7(2): 164-176.
- Amalia, P. R., dan Budijastuti, W. 2022. Morfometri ikan gelodok (famili gobiidae) di Perairan Mangrove Wonorejo Surabaya. *Lentera Bio*, 11(3): 457-472.
- Ansari, A. A., Trivedi, S., Saggu, S., and Rehman, H. 2014. Mudskipper: a biological indicator for environmental monitoring and assesment of coastal waters. *Journal of Entomology and Zoology Studies*, 2(6): 22-33.
- Ansell, A., Gibson, R., Barnes, M., and Clayton, D. 1993. Mudskippers. *Oceanography and Marine Biololgy Annual Review*, 31: 507-577
- Ardiana, S. A., Astarini, I. A., Putra, I. N. G., Pertiwi, P. D., Sembiring, A., Yusmalinda, A., dan Malik, D. A. 2021. Keragaman genetik dan filogenetik *longtail* tuna (*Thunnus tonggol*) yang didaratkan di Pasar Ikan Pabean, Surabaya. *Musamus Fisheries and Marine Journal*, 3(2): 107-115.
- Arisuryanti, T., Firdaus, N.U.N., Hakim, L. 2020. Genetic characterization of striped snakehead (*Channa striata* Bloch, 1793) from Arut River, Central Kalimantan inferred from *COI* mitochondrial gene. *AIP Conference Proceedings*, 2260: 020001.
- Arisuryanti, T., Hasan, R.L., and Koentjana, J.P. 2018. Genetic identification of two mudskipper species (Pisces: Gobiidae) from Bogowonto Lagoon (Yogyakarta, Indonesia) using *COI* mitochondrial gene as a DNA barcoding marker. *AIP Conference Proceedings*, 2002: 020068.
- Arisuryanti, Y., dan Sianturi, S. 2019. Ekstraksi DNA total dari sumber jaringan hewan (ikan kerapu) menggunakan metode *kit for animal tissue*. *Journal of Science and Applicative Technology*. 3(1):40-45.
- Audrea, D. J., dan Arisuryanti, T. 2022. Deteksi polimorfisme gen mitokondria *16s* ikan glodok (*Periophthalmus argentilineatus* Valenciennes, 1837) dari Muara Tekolok, Lombok Timur, Nusa Tenggara Barat. *Bioeksperimen*, 8(2): 65-72.
- Chinnery, P. F. and Hudson, G. 2013. Mitochondria genetics. *British Medical Bulletin*, 106: 135-139.
- Chukwu, K. O., Deekae, S. N., and Gabriel, U. U. 2010. Reproductive biology of *Periophthalmus barbarus* (Linneaus 1766) in New Calabar River, Nigeria.

- Agriculture and Biology Journal of North America*, 1(6): 1158-1161.
- Crawford, D. C., and Nickerson, D. A. 2005. Definition and Clinical Importance of Haplotypes. *Annual Review of Medicine*, 56(1): 303–320.
- Dabruzi, T. F., Fangue, N. A., Kadir, N. N., and Bennet, W. A. 2019. Thermal niche adaptations of common mudskipper (*Periophthalmus kalolo*) and barred mudskipper (*Periophthalmus argentilineatus*) in air and water. *Journal of Thermal Biology*, 81:1- 35.
- De Jong, M.A., Wahlberg, N., van Eijk, M., Brakefield, P.M., and Zwaan, B.J. 2011. Mitochondrial DNA Signature for Range-Wide Populations of *Bicyclus anynana* Suggests a Rapid Expansion from Recent Refugia. *PloS one*, 6(6): e2138
- Dharmayanti, N. L. P. I. 2011. Filogenetika molekuler: metode taksonomi organisme berdasarkan sejarah evolusi. *Wartazoa*, 21(1): 1-10.
- Dianiputri, U., Aji, K. W., dan Arisuryanti, T. 2022. Polimorfisme gen mitokondria 16s ikan baung (*Hemibagrus nemurus* Valenciennes, 1840) dari Sungai Progo, Magelang, Jawa Tengah. *Berkala ilmiah Biologi*, 13(1): 40-47.
- Djumanto, Setyobudi, E., dan Rudiansyah. 2012. Fekunditas ikan gelodok, *Boleophthalmus boddarti* (Pallas 1770) di Pantai Brebes. *Jurnal Iktiologi Indonesia*, 12(1): 59-71.
- Dogan, I., and Dogan, N. 2016. Genetic Distance Measures: Review. *Turkiye Klinikleri Journal of Biostatistics*, 8(1): 87–93.
- Elviana, S. dan Sunarni. 2018. Komposisi dan kelimpahan jenis ikan gelodok kaitannya dengan kandungan bahan organik di perairan estuari Kabupaten Merauke. *Jurnal Agribisnis Perikanan*, 11(2): 38-43.
- Faatih, M. 2009. Isolasi dan digesti DNA kromosom. *Jurnal Penelitian Sains & Teknologi*, 10(1): 61-67.
- Fietri, W. A., Razak, A., dan Ahda, Y. 2021. Analisis filogenetik ikan tuna (*Thunnus* spp) di Perairan Maluku Utara menggunakan COI (*Cytocrome Oxdase I*). *Jurnal Biologi Makassar*, 6(2): 31-39.
- Froese, R., and D. Pauly., 2022. *FishBase*. in World Wide Web electronic publication, viewed 21 February 2023, from <http://www.fishbase.org>, version (08/2022).
- Grant, W.S., and Bowen, B.W. 1998. Shallow population histories in deep evolutionary lineages of marine fishes: insights from sardines and anchovies and lessons for conservation. *The American Genetic Association*, 89: 415-426.
- Guo, C., McDowell, I. C., Nodzenski, M., Scholtens, D. M., Allen, A. S., Lowe, W. L., and Reddy, T. E. 2017. Transversions have larger regulatory effects than transition. *BioMed Central Genomic*, 18: 394.

- Hartatik, T. 2021. *Dasar Analisis Genetik pada Kambing dan Domba*. P.43. Gadjah Mada University Press. Yogyakarta.
- Hebert, P. D. N., Cywinska, A., Ball, S. L., & DeWaard, J. R. 2003. Biological identifications through DNA barcodes. *Proceedings of Biological Society B: Biological Sciences*, 270(1512): 313-321.
- Hidayat, T. 2017. DNA mitokondria (Mt-DNA) sebagai salah satu pemeriksaan alternatif untuk identifikasi bayi pada kasus infastida. *Jurnal Kesehatan Andalas*, 6(1): 213-221.
- Hobbs, J.P.A., Van Herwerden, L., Jerry, D.R., Jones, G.P. and Munday, P.L. 2013. High genetic diversity in geographically remote populations of endemic and widespread coral reef angelfishes (genus: *Centropyge*). *Diversity*, 5(1): 39-50.
- Irmawati. 2016. *Genetika Populasi Ikan*. P. 109. ANDI. Yogyakarta.
- Ishimatsu, A., and Graham, J.B. 2011. Roles of environmental cues for embryonic incubation and hatching in mudskippers. *Integrative and Comparative Biology*, 51(1): 38-48.
- Jaafar, Z., and Murdy, E. O. 2017. *Fishes Out of Water Biology and Ecology of Mudskippers*. Pp. 18, 229, 328-329, 225-228. CRC Press. New York.
- Jaafar, Z., Lim, K.K., and Chou, L.M. 2006. Taxonomical and morphological notes on two species of mudskippers, *Periophthalmus walailakae* and *Periophthalmodon schlosseri* (Teleostei: Gobiidae) from Singapore. *Zoological Science*, 23(11): 1043-1047.
- Jeon, H. B., Jun, J., Choi, S. H., dan Suk, H.Y. 2021. Diversification and colonization processes in Gobioidae predicted based on mitochondrial rRNA with focusing on Oxudercidae. *Mitochondrial DNA Part*, 6(3): 1166-1172.
- Jusmaldi, Duryadi, D., Affandi, R., Rahardjo, M. F., dan Gustiano, R. 2014. Kode batang DNA ikan lais genus *Kryptoterus* asal Sungai Mahakam Kalimantan Timur. *Jurnal Ikhtiologi Indonesia*, 14(3): 191-199.
- Kartika, G. R. E., Sartimbul, A., dan Widodo. 2017. Varian genetik *Sardinella lemuru* di perairan Selat Bali. *Jurnal Kelautan*, 10(1): 21-28.
- Kimura, M. 1980. A simple method for estimating evolutionary rates of base substitutions through comparative studies of nucleotide sequences. *Journal of Molecular Evolution*, 16: 111-120.
- Kusuma, R. O., Dadiono, M. S., Kusuma, B., dan Syakuri, H. 2021. Keragaman genetik ikan uceng (*Nemacheilus*) di Sungai Wilayah Banyumas berdasar sekuen gen *Cytochrome Oxidase Subunit I (COI)*. *Jurnal Perikanan Universitas Gadjah Mada*, 23(2): 89-94.
- Latuconsina, H. 2021. *Ekologi Ikan Perairan Tropis*. P. 16. Gadjah Mada University

Press. Yogyakarta.

- Lemey, P., Salemi, M., and Vandamme, A-M. 2009. *The Phylogenetic Handbook: A Practical Approach to Phylogenetic Analysis and Hypothesis Testing*. Pp. 26-27. Cambridge University Press. Cambridge.
- Madison, W.P., Madison, D.R. 2018. Mesquite: A modular system for evolutionary analysis. Version 3.51 (<http://www.mesquiteproject.org>).
- McConnell, S. K. J. 2004. Mapping aquatic faunal exchanges across the Sunda shelf, South-East Asia, using distributional and genetic data sets from the cyprinid fish *Barbodes gonionotus* (Bleeker, 1850). *Journal of Natural History*, 35: 651-670.
- McCraney, W.T., Thacker, C.E., Alfaro, M.E. 2020. Supermatrix phylogeny resolves goby lineages and reveals unstable root of Gobiaria. *Molecular Genetics and Evolution*, 151: 106862.
- Meiklejohn, K. A., Damaso, N., and Robertson, J. M. 2019. Assessment of BOLD and GenBank – Their accuracy and reliability for the identification of biological materials. *PloS One*, 14(6): : e0217084.
- Muhtadi, A., Ramadhani, S., dan Yunasfi. 2016. Identifikasi dan tipe habitat ikan gelodok (famili: gobiidae) di Pantai Bali Kabupaten Batu Bara Provinsi Sumatra Utara. *Biospecies*, 9(2): 1-6.
- Mulyasari. 2007. Beberapa teknik penentuan variasi genetik pada ikan untuk proses pemuliaan. *Media Akuakultur*, 2(1):177-182.
- Murdy, E.O., 1989. A taxonomic revision and cladistic analysis of the oxudercine gobies (Gobiidae: Oxudercinae). *Records of the Australian Museum, Supplement*, 11(August 1989): 1–93.
- Musalima, F. A., Haykal, M. F., Adibah, F., Asyari, I. M., Irsyad, M. J., Andrimida, A., dan Hardiyani, F.Z. 2021. Valuasi ekosistem mangrove di Pantai Clungup sebagai upaya perlindungan konservasi. *Journal of Empowerment Community and Education*, 1(1): 21-26.
- Nelson, J. S., Grande, T. C., and Wilson, M. V. H. 2016. *Fishes of the World* (5th ed). P. 330. John Wiley & Sons. New Jersey.
- Newell, P. D., Fricker, A. D., Roco, C. A., Chandransu, P., and Merkel, S. M. 2013. A small-group activity introducing the use and interpretation of BLAST. *Journal of Microbiology & Biology Education*, 14(2): 238-243.
- Ningsih, A., dan Santoso, H. 2020. Keanekaragaman ikan gelodok (*mudskipper*) di hutan mangrove Kecamatan Ujung Pangkah Kabupaten Gresik. *Jurnal Enggano*, 5(3): 367-376.
- Ottenburghs, J. 2016. *Crossing species boundaries: the hybrid histories of the true geese*. Doctoral dissertation, Wageningen University and Research.

- Peloa, A., Wullur, S., dan Sinjal, C. A. 2015. Amplifikasi gen *Cytochrome Oxidase Subunit 1 (COI)* dari sampel sirip ikan hiu dengan menggunakan beberapa pasangan primer. *Jurnal Pesisir dan Laut Tropis*, 1(1): 37-42.
- Polgar, G., Ghanbarifardi, M., Mili, S., Agorreta, A., Aliabadian, M., Esmaeili, H. R., dan Khang, T. F. 2017. Ecomorphological adaptation in three mudskippers (Teleostei: Gobioidae: Gobiidae) from the Persian Gulf and the Gulf of Oman. *Hydrobiologia*, 795: 91-111.
- Polgar, G., Zane, L., Babbucci, M., Barbisan, F., Patarnello, T., Ruber, L., and Papetti, C. 2014. Phylogeography and demographic history of two widespread Indo-Pacific mudskippers (Gobiidae: *Periophthalmus*). *Molecular phylogenetics and Evolution*, 73: 161-176.
- Pormansyah, Iqbal, M., Setiawan, A., Yustian, I., Zulkifli, H. 2019. A review of recent status on mudskippers (Oxudercine Gobies) in Indonesian Waters. *Oceanography & Fisheries Open Access Journal*, 9(4): 555769.
- Prasetya, H., dan Saefuddin, A. 2011. Performance comparison kimura 2-parameter and juker-cantor model in constructing phylogenetic tree of neighbour joining. *Forum Statistika dan Komputasi*, 16(1): 8-16.
- Purwaningsih, S., Salamah, E., dan Riviani. 2013. Perubahan komposisi kimia, asam amino, dan kandungan taurin ikan glodok (*Periophthalmodon schlosseri*). *Jurnal Pengolahan Hasil Perikanan Indonesia*, 16(1): 12-21.
- Rha'ifa, F. A., Audrea, D. J., Hakim, L., and Arisuryanti, T. 2021. DNA barcode of barred mudskipper (*Periophthalmus argentilineatus* Valenciennes, 1837) from Tekolok Estuary (West Nusa Tenggara, Indonesia) and their phylogenetic relationship with other Indonesian barred mudskippers. *Journal of Tropical Biodiversity and Biotechnology*, 6(2): 1-13.
- Rozas, J., Rerrer-Matta, A., Sanchez-DelBarrio, J.C., Guirao-Rico, S., Librado, P., Ramos-Onsins, S.E., and Sanchez-Gracia, A. 2017. DnaSP 6: DNA sequence polymorphism analysis of large data sets. *Molecular Biology and Evolution*, 13(12): 3299-3302.
- Ruhmalatu, D., Sangur, K., Leuwol, A.P., Apituley Y.N., Salmanu, S. I. A., and Arini, I. 2020. Study of environmental condition morphometric and meristic of mudskipper (*Periophthalmus*) from Ambon Island Coastal Water, Indonesia. *Indian Journal of Ecology*, 47(3): 782-787.
- Russo, C. A. M., and Selvatti, A. P. 2018. Bootstrap and rogue identification tests for phylogenetic analyses. *Molecular Biology and Evolution*, 35(9): 2327-2333.
- Samal, K. C., Sahoo, J. P., Behera, L., and Dash, T. 2021. Understanding the BLAST (Basic Local Alignment Search Tool) program and a step-by-step guide for its use in life science research. *Bhartiya Krishi Anusandhan Patrika*, 36(1): 55-61.
- Saputra, F., A., Amelia, Putri, N., Purnama, F., dan Valen, F. S. 2022. Filogenetik genus

- Channa* (Actinopterygii; channinidae) di Indonesia berdasarkan gen *Cytochrome C Oxidase Subunit I (COI)*. *Journal of Aquatropica Asia*, 7(2): 85-91.
- Sokefun, O., Gan, H. M., and Tan, M. P. 2022. Phylogenetic position of the Atlantic Mudskipper (*Periophthalmus barbarus*) (Linnaeus, 1766) (Perciformes: Gobiidae): the congruence of the complete mitogenome and the *COI* gene region. *Internationa; Journal of Fisheries and Aquatic Studies*, 10(3): 186-189.
- Subari, A., Razak, A., dan Sumarmin, R. 2021. Phylogenetic Analysis of *Rasbora* spp. Based on the Mitochondrial DNA *COI* gene in Harapan Forest. *Jurnal Biologi Tropis*, 21(1): 89–94.
- Sufah, F. 2020. *Keanekaragaman Hayati*. Pp. 28-29. Guepedia. Bogor.
- Takita, T., Larson, H. K., and Ishimatsu, A. 2011. The natural history of mudskippers in northern Australia, with field identification characters. *Records of the Museums and Art Galleries of the Northern Territory*, 27:189-204.
- Tam, N.T., Dwiyaniti, M.S., Koide, Y., Nagano, A.J., Ky, H., Tin, H.Q., Hien, N.L., Dung, L.V., and Kishima, Y., 2019. Profiling SNP and nucleotide diversity to characterize Mekong Delta rice landraces in Southeast Asian populations. *The Plant Genome*, 12(3): 190042.
- Tamura, K., Stecher, G., and Kumar, S. 2021. MEGA11: Molecular evolutionary genetic analysis version 11. *Molecular Biology and Evolution*, 38(7): 3022-3027.
- Taniwel, D., Leiwakabessy, F., and Ruhmalatu, D. Density and length-weight relationship of mudskipper (*Periophthalmus* spp.) in the mangrove area of Kairatu Beach, Maluku, Indonesia. *Biodiversitas*, 21(11): 5465-5473.
- Tomy, Z. 2016. *Buku Ajar Dasar-Dasar Sains Genetika* . P. 189. Syiah Kuala. Banda Aceh.
- Triwani dan Saleh, I. 2015. *Single nucleotide polymorphism promoter -765g/C Gen Cox-2* sebagai faktor risiko terjadinya karsinoma kolorektal. *Biomedical Journal of Indonesia*, 1(1):1-10.
- Utomo, A. H. P., Pramono, T. B., Soedibya, H. T., Sukardi, P., dan Syakuri, H. 2020. Analisis polimorfisme DNA ikan gabus (*Channa striata*) berbeda ukuran menggunakan teknik RAPD. *Sainteks*, 17(2): 133-143.
- Voris, H.K. 2000. Maps of Pleistocene sea levels in Southeast Asia: shorelines, river systems and time durations. *Journal of Biogeography*, 27:1153-1167.
- Wandia, I. N. 2001. Genom Mitokondria. *Jurnal Veteriner*, 2(4): 131-137.
- Ward, R.D., Zemlak, T.S., Innes, B.H., Last, P.R., and Hebert, P.D.N. 2005. DNA barcoding Australia's fish species. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 360(1462): 1847-1857.

- Wirdateti, Indriana, E., dan Handayani. 2016. Analisis sekuens DNA mitokondria *cytochromeoxidase I (COI)* Mt-DNA pada kukang Indonesia (*Nyceticebus* spp) sebagai penanda guna pengembangan identifikasi spesies. *Jurnal Biologi Indonesia*, 12(1): 119-128.
- Zein, M. S. A., dan Prawiradilaga, D. M. 2013. *DNA Barcode Fauna Indonesia*. (Edisi 1). P. 15. Kencana. Jakarta.
- Zemlak, T.S., Ward, R. D., Connell, A. D., Holmes, B.H., and Hebert, P. D. N. 2009. DNA barcoding reveals overlooked marine fishes. *Molecular Ecology Resources*, 9:237-242.