

## DAFTAR PUSTAKA

- Aji, K. W. & 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.
- Al-Behbehani, B.E. & Ebrahim, H.M.A. 2010. Environmental studies on the mudskippers in the intertidal zone of Kuwait Bay. *Nature and Science*, **8**(5): 79- 89.
- Anisa, Jaya, A. K., & Sunarti. 2016. Analisis Hidden Markov Model untuk segmentasi barisan DNA. *Jurnal Matematika, Statistika, & Komputasi*, **13**(1): 55-65.
- Ansari, A.A., Trivedi, S., Saggu, S., & Rehman, H. 2014. Mudskipper: A biological indicator for environmental monitoring and assessment of coastal waters. *Journal of Entomology and Zoology Studies*, **2**(6): 22-33.
- Arisuryanti, T., Hasan, R.L., & 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.
- Boissinot, S. 2022. On the base composition of transposable elements. *International Journal of Molecular Sciences*, **23**(9): 1-13.
- Dharmayanti, N. I. 2011. Filogenetika Molekular : Metode Taksonomi Organisme Berdasarkan sejarah Evolusi. *Filogenetika Molekular : Metode Taksonomi Organisme Berdasarkan Sejarah Evolusi*, **30**: 1–10.
- Caliscan, M., Oz, G.C., Kavakli, I.H., & Ozcan, B. 2015. *Molecular Approaches to Genetic Diversity*. IntechOpen. London. pp. 172-173
- Choudhuri, S. 2014. Bioinformatics for Beginners: Genes, Genomes, Molecular Evolution, Databases and Analytical Tools. *Bioinformatics for Beginners: Genes, Genomes, Molecular Evolution, Databases and Analytical Tools*, 1– 225.
- Cracraft, J. & K. Helm-Bychowski. 1991. *Parsimony and Phylogenetic Inference Using DNA Sequences: Some Methodological Strategies*. In *Phylogenetic Analysis of DNA Sequences*. M. Miyamoto and J. Cracraft (Eds.). Oxford University Press, New York.
- De Jong, M.A., Wahlberg, N., Van, E.M., Brakefield, P.M., & 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): e21385.

- Doğan, I. & Doğan, N. 2016. Genetic distance measures: review. *Turkiye Klinikleri Journal of Biostatistic*, **8**(1): 87-93.
- Dudu, A., Georgescu, S.E., & Costache, M. 2015. Evaluation of genetic diversity in fish using molecular markers. *Molecular Approaches to Genetic Diversity*: 163-193.
- Elviana, S. & 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.
- Elviana, S., Sunarni, S., Maturbongs, M. R., Sajriawati, & Fakhriyyah, S. 2019. Mudskipper diversity and its relationship to an environmental condition in Estuary. *IOP Conf. Series: Earth and Environmental Science*, **343**:1- 5.
- Ewens, W. J. 2013. Genetic Variation. In Brenner's Encyclopedia of Genetics: Second Edition (Vol. 3). Elsevier Inc.
- Grant, W.S. & Bowen, B.W. 1998. Shallow population histories in deep evolutionary lineages of marine fishes: insights from sardines and anchovies and lessons for conservation. *Journal of Heredity*, **89**(5): 415-426.
- Voris, H. K. 2000. Maps of Pleistocene sea levels in Southeast Asia: shorelines, river system and time durations. *Journal of Biogeography*, **27**: 1153-1167.
- Hasibuan, F. E., Mantiri, F. R., & Rumende, R. R. H. 2017. Kajian variasi sekunes intraspesies dan filogenetik monyet hitam Sulawesi (*Macaca nigra*) dengan menggunakan gen *COI*. *Jurnal Ilmiah Sains*, **17**(1): 59-67.
- Hobbs, J.P.A., Van Herwerden, L., Jerry, D.R., Jones, G.P. & 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.
- Hoffmann, A. & Spengler, D. 2018. The Mitochondrion as Potential Interface in Early-Life Stress Brain Programming. *Frontiers*, **12**:1-19.
- Ishimatsu, A., Yoshida, Y., Itoki, N., Takeda, T., Lee, H.J., & Graham, J.B. 2007. Mudskipper brood their eggs in air but submerge them for hatching. *Journal of Experimental Biology*, **210**: 3946-3954.
- Jaafar, Z., Lim, K. K., & 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.
- Jaafar, Z. & Murdy, E. O. 2017. *Fishes Out of Water Biology and Ecology of Mudskippers*. CRC Press Taylor & Francis Group, Boca Raton. pp. 1-385.

- Jamniczky, H.A., Boughner, J.C., Rolian, C., Gonzalez, P.N., Powell, C.D., Schmidt, E.J., Parsons, T.E., Bookstein, F.L. and Hallgrímsson, B., 2010. Rediscovering Waddington in the post-genomic age: Operationalising Waddington's epigenetics reveals new ways to investigate the generation and modulation of phenotypic variation. *Bioessays*, **32**(7), 553-558.
- Juniar, A. E., Rosyada, S., Nur, A.M., & Rahayu, D.A. 2019. Identifikasi jenis ikan mudskipper di Pantai Surabaya dan Sidoarjo. *Biotropika: Journal of Biology*, **7**(3): 95-101.
- Kocher, T. D., Thomas, W. K. Meyer, A., Edwards, S. V., Paabo, S., Villablanca, F. X. & Wilson, A. C. 1989. Dynamics of Mitochondrial DNA Evolution in animals: amplification and sequencing with conserved primers. *Proceeding Natural Academic Science*, **86**: 6196-6200.
- Kress, W.J., Prince, L.M. and Williams, K.J. 2002. The phylogeny and a new classification of the gingers (Zingiberaceae): evidence from molecular data. *Ann. J. Bot*, **89**: 1682-1696.
- Kuang, T., Tornabene, L., Li, J., Jiang, J., Cakrabarty, P., Sparks, J.S., Naylor, G.J.P., & Li, C. 2018. Phylogenomic analysis on the exceptionally diverse fish clade Gobioidae (Actinopterygii: Gobiiformes) and data-filtering based on molecular clocklikeness. *Molecular Phylogenetics and Evolution*, **128**(2018): 192-202.
- Kumar, S., Stecher, G., Li, M., Knyaz, C., & Tamura, K. 2018. MEGA X: Molecular evolutionary genetics analysis across computing platforms. *Molecular Biology and Evolution*, **35**: 1547-1549.
- Kusumaningrum, R., Sutopo, S., & Kurnianto, E. 2020. Genetic diversity of Sragen Black Cattle based on D-Loop gene sequencing analysis. *Livestock & Animal Research*, **118**(2): 124-131.
- Lee, H. J., Martinez, C. A., Hertzberg, K. J., Hamilton, A. L., & Graham, J. B. 2005. Burrow air phase maintenance and respiration by the mudskipper *Scartelaos histophorus* (Gobiidae: Oxudercinae). *The Journal of Experimental Biology*, **208**: 167-177.
- Lubis, K. 2014. Cara Pembuatan Pohon Filogeni. *Jurnal Pengabdian Kepada Masyarakat*, **20**(75), 66–69.
- Maddison, W.P. & Maddison, D.R. 2019. *Mesquite: a modular system for evolutionary analysis*. <http://www.mesquiteproject.org>. Diakses tanggal 6 Januari, Jam 17.01.
- Mahboob, S., Al-Ghanim, K. A., Al-Misned, F., Al-Balawi, H. F. A., Ashraf, A., & Al-Mulhim, N. M. A. 2019. Genetic diversity in tilapia populations in a freshwater reservoir assayed by randomly amplified polymorphic DNA markers. *Saudi Journal of Biological Sciences*, **26**(2): 363-367.

- 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**: 06862.
- Muhtadi, A., Sabilah, F. R., & Yunasfi. 2016. Identifikasi dan tipe habitat ikan gelodok (Famili: Gobiidae) di Pantai Bali Kabupaten Batu Bara Provinsi Sumatera Utara. *Biospecies*, **9**(2): 1-6.
- Minter, M., Nielsen, E. S., Blyth, C., Bertola, L. D., Kantar, M. B., Morales, H. E., Orland, C., Segelbacher, G., & Leigh, D. M. 2021. What is genetic diversity and why does it matter. *Frontier* **9**: 1-9.
- Murdy, E. O. 1989. A Taxonomic Revision and Cladistic Analysis of the Oxudercine Gobies (Gobiidae: Oxudercinae). *Records of the Australian Museum* **11**:1-93.
- Nei, M. & S. Kumar. 2000. *Molecular evolution and phylogenetics*. Oxford University Press, New York.
- Nelson, J. S., Grande, T. C., & Wilson, M. V. 2016. *Fishes of the World*. John Wiley & Sons.
- Palmer, B.A.T., & Scott, R.J. 2011. Genetic variation and its role in Malignancy. *International Journal of Biomedical Science*, **7**(3): 158-171.
- Polgar G, Jaafar Z, Konstantinidis P. 2013. A new species of mudskipper, *Boleophthalmus poti* (teleostei: gobiidae: oxudercinae) from the gulf of Papua, Papua New Guinea, and a key to the genus. *The Raffles Bulletin of Zoology*, **161**: 311-321.
- Pormansyah, Iqbal, M., Setiawan, A., Yustian, I., & Zulkifli, H. 2019. A review of recent status on Mudskippers (Oxudercine Gobies) in Indonesian Waters. *Oceanography & Fisheries*, **9**(4): 1-4.
- Rahayu, D. A. & Jannah, M. 2019. *DNA Barcode Hewan dan Tumbuhan Indonesia*. Yayasan Inspirasi Ide Berdaya, Jakarta. pp. 1-13.
- Rahayu, S. E., & Handayani, S. 2011. Keragaman genetik pandan asal Jawa Barat berdasarkan penanda inter simple sequence repeat. *MAKARA of Science Series*, **14**(2): 10–15.
- Ratnasingham, S. & Hebert, P. D. BOLD: The Barcode of Life Data System. *Molecular Ecology Notes*, **7**(3): 355-364.
- Rha'ifa, F. A., Audrea, D. J., Hakim, L., & 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.
- Rupp H. 2021. Submerged spawning and larval dispersal of the mudskipper *Periophthalmus variabilis*. *Aquatic Biology*, **30**: 113-118.
- Rusdin, M., Solihin, D.D., Gunawan, A., Talib, C., & Sumantri, C. Genetic Variation of Eight Indonesian Swamp-Buffalo Populations Based on Cytochrome b Gene Marker. *Tropical Animal Science Journal*, **43**(1): 1-10.
- Tamura, K., Stecher, G., & Kumar, S. 2021. MEGA 11: Molecular evolutionary genetics analysis version 11. *Molecular Biology and Evolution*, **38**(7): 3022-3027.
- Thacker, C. E. 2003. Molecular phylogeny of the gobioid fishes (Teleostei: Perciformes: Gobioidae). *Molecular Phylogenetics and Evolution*, **26**(3), 354-368
- Schwab, I. R. 2012. *Evolution's Witness How Eyes Evolved*. Oxford University Press, New York. p. 95.
- Sunarni, & Maturbongs, M.R. 2017. Biodiversitas dan kelimpahan ikan gelodok (Mudskipper) di daerah intertidal Pantai Payumb, Merauke. *Prosiding Seminar Nasional dan Sumberdaya Pulau-Pulau Kecil*, **1**(1): 125-131.
- Van Der Laan, R., Eschmeyer, W.N., Fricke, R. 2014. Family-group names of Recent fishes. *Zootaxa*, **3882**(2): 1-230.
- Wandia, I. N. 2001. Genom Mitokondria. *Jurnal Veteriner*, **2**(4): 131-137.
- Wang, T., Zhang, T., Yang, Z., Liu, Z., & Du, Y. 2020. DNA barcoding reveals cryptic diversity in the underestimated genus *Triplophysa* (Cypriniformes: Cobitidae, Nemacheilinae) from the northeastern Qinghai-Tibet Plateau. *BMC Ecology and Evolution*, **20**(151): 1-15.
- Ward, R. D., Zemlak, T. S., Innes, B. H., Last, P. R., & Hebert, P. D. 2005. DNA barcoding Australia's fish species. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **360**(1462), 1847-1857.
- Wirdateti, Indriana, E., & Handayani. 2016. Analisis sekuen DNA mitokondria *Cytochrome Oxidase I (COI)* mtDNA pada kukang Indonesia (*Nycticebus spp*) sebagai penanda guna pengembangan identifikasi spesies. *Jurnal Biologi Indonesia*, **12**(1): 119-128.
- Widjaja, E., Rahayuningsih, Y., Rahajoe, J.S., Ubaidillah, R., Maryanto, I., Walujo, E.B., Semiadi, G. 2015. *Kekinian Keanekaragaman Hayati Indonesia 2014. 2 ed.* Lembaga Ilmu Pengetahuan Indonesia (LIPI) Press, Jakarta.

- Xinxin, Y., Min, S., Jia, L., Chao, B., Jieming, C., Yunhai, Y., Hui, Y., & Qiong, S. 2018. Mudskippers and their genetic adaptations to an amphibious lifestyle. *Animals (Basel)*, **8**(2): 24.
- Yang, L., Tan, Z., Wang, D., Xue, L., Guan, M-X., Huang, T. & Li, R. 2014. Species identification through Mitochondrial rRNA genetic analysis. *Scientific Reports*, **4**:4089.
- Ye, J., McGinnis, S., & Madden, T. L. 2006. BLAST: improvements for better sequence analysis. *Nucleic Acid Research*, **34**(2):6-9.
- Zemlak, T. S., Ward, R. D., Connell, A. D., Holmes, B. H., & Hebert, P. D. N. 2009. DNA barcoding reveals overlooked marine fishes. *Molecular Ecology Resources*, **9**: 237–242.