

## DAFTAR REFERENSI

- Ahmad F. 2013. Distribusi dan prediksi tingkat pencemaran logam berat (Pb, Cd, Cu, Zn, dan Ni) dalam sedimen di perairan Pulau Bangka menggunakan indeks beban pencemaran dan indeks geoakumulasi. *Jurnal Ilmu dan Teknologi Kelautan Tropis* 5(1): 170-181
- Akbar N, Zamani NP, Madduppa HH. 2014. Keragaman genetik ikan tuna sirip kuning (*Thunnus albacares*) dari dua populasi di Laut Maluku, Indonesia. *Depik* 3(1): 65-73
- Alves AP, Pereira RT, Rosa PV. 2021. Morphology of the digestive system in carnivorous freshwater dourado *Salminus brasiliensis*. *Journal of Fish Biology* 99(4): 1222-1235
- Andersen CB. 2002. Understanding carbonate equilibria by measuring alkalinity in experimental and natural systems. *Journal of Geoscience Education* 50(4): 389-403
- Ardeshir RA, Movahedinia AA, Rastgar S. 2017. Fish liver biomarkers for heavy metal pollution: a review article. *American Journal of Toxicology* 2(1): 1-8
- Ariyanto D, Listiyowati N, Imron I. 2011. Analisis truss morfometrik beberapa varietas ikan nila (*Oreochromis niloticus*). *Jurnal Riset Akuakultur* 6(2): 187-196
- Arnett HA, Kinnison MT. 2017. Predator-induced phenotypic plasticity of shape and behavior: parallel and unique patterns across sexes and species. *Current Zoology* 63(4): 369-378
- Ashraf MA, Maah MJ, Yusoff I. 2011a. Heavy metals accumulation in plants growing in ex tin mining catchment. *International Journal of Environmental Science and Technology* 8(2): 401-416
- Ashraf MA, Maah MJ, Yusoff I. 2011b. Analysis of physio-chemical parameters and distribution of heavy metals in soil and water of ex-mining area of Bestari Jaya, Peninsular Malaysia. *Asian Journal of Chemistry* 238: 3493-3499
- Ashraf MA, Maah MJ, Yusoff I. 2012a. Speciation of heavy metals in the sediments of former tin mining catchment. *Iranian Journal of Science and Technology* 36(A2): 163-180
- Ashraf MA, Maah MJ, Yusoff I. 2012b. Morphology, geology and water quality assessment of former tin mining catchment. *The Scientific World Journal* 2012: 1-15
- Ashraf MA, Maah MJ, Yusoff I. 2013. Evaluation of natural phytoremediation process occurring at ex-tin mining catchment. *Chiang Mai Journal of Science* 40(2): 198-213
- Astuti D. 2017. Struktur genetik populasi burung betet jawa (*Psittacula alexandri alexandri*) berdasarkan sekuen DNA mitokondria gen ND2. *Jurnal Biologi Indonesia* 13(1): 117-124
- Astuti LP, Adiwilaga EM, Setiawan BI, Pratiwi NTM. 2014. Kondisi hipoksia dan laju dekomposisi bahan organik di lokasi budidaya ikan Waduk Ir. H. Djuanda. *Bawal Widya Riset Perikanan Tangkap* 6(3): 147-154

- Bagherian A, Rahmani H. 2009. Morphological discrimination between two populations of shemaya, *Chalcalburnus chalcoides* (Actinopterygii, Cyprinidae), using a truss network. *Animal Biodiversity and Conservation* 32(1): 1-8
- Bahtiar A, Pharmawati M, Mahardika IGNK. 2020. Struktur populasi ikan tuna mata besar (*Thunnus obesus*) dengan analisis DNA mikrosatelit di perairan Samudera Hindia. *Metamorfosa: Journal of Biological Sciences* 7(2): 269-275
- Baillie SM, Muir AM, Hansen MJ, Krueger CC, Bentzen P. 2016. Genetic and phenotypic variation along an ecological gradient in lake trout *Salvelinus namaycush*. *BMC Evolutionary Biology* 16(1): 1-16
- Baker-Austin C, Dopson M. 2007. Life in acid: pH homeostasis in acidophiles. *Trends in Microbiology* 15(4): 165-171
- Baksir A, Akbar N, Ismail F. 2022. Keragaman genetik dan filogenetik kepiting biola (*Uca* spp.) di Pesisir Pantai Jailolo, Kabupaten Halmahera Barat. *Jurnal Kelautan Tropis* 25(1): 57-69
- Banks SC, Cary GJ, Smith AL, Davies ID, Driscoll DA, Gill AM, Lindenmayer DB, Peakall R. 2013. How does ecological disturbance influence genetic diversity?. *Trends in Ecology & Evolution* 28(11): 670-679
- Beaumont NJ, Austen MC, Atkins JP, Burdon D, Degraer S, Dentinho TP, Derosus S, Holm P, Horton T, Van Lerland E, Marboe AH, Starkey DJ, Townsend M, Zarzycki T. 2007. Identification, definition and quantification of goods and services provided by marine biodiversity: implications for the ecosystem approach. *Marine Pollution Bulletin* 54(3): 253-265
- Beck SV, Carvalho GR, Barlow A, Ruber L, Tan HH, Nugroho E, Wowor D, Nor SAM, Herder F, Muchlisin ZA, De Bruyn M. 2017. Plio-pleistocene phylogeography of the Southeast Asian blue panchax killifish, *Aplocheilichthys panchax*. *PLoS ONE* 12(7): e0179557
- Benstead JP, De Rham PH, Gattolliat J, Gibon F, Loiselle PV, Sartori M, Sparks JS, Stiassny MIJ. 2003. Conserving Madagascar's freshwater biodiversity. *BioScience* 53(11): 1101-1111
- Berois N, Arezo MJ, De Sa RO. 2014. The Neotropical Genus *Austrolebias*: an emerging model of annual killifishes. *Cell & Developmental Biology* 3(2): 1000136
- Bervoets L, Knapen D, De Jonge M, Van Campenhout K, Blust R. 2013. Differential hepatic metal and metallothionein levels in three feral fish species along a metal pollution gradient. *PLoS ONE* 8(3): e60805
- Bian F, Yang X, Ou Z, Luo J, Tan B, Yuan M, Chen T, Yang R. 2019. Morphological characteristics and comparative transcriptome analysis of three different phenotypes of *Pristella maxillaris*. *Frontiers in Genetics* 10(2019): 698
- Bickford D, Lohman DJ, Sodhi NS, Ng PK, Meier R, Winker K, Ingram KK, Das I. 2007. Cryptic species as a window on diversity and conservation. *Trends in Ecology & Evolution* 22(3): 148-155
- Bobo-Pinilla J, Salmerón-Sánchez E, Mendoza-Fernández AJ, Mota JF, Peñas J. 2021. Conservation and phylogeography of plants: From the mediterranean to the rest of the world. *Diversity* 14(78): 1-23

- Boluda CG, Hawksworth DL, Divakar PK, Crespo A. 2016. Microchemical and molecular investigations reveal *Pseudephebe* species as cryptic with an environmentally modified morphology. *The Lichenologist* 48(5): 527-543
- Bonnet X, Brischoux F, Briand M, Shine R. 2021. Plasticity matches phenotype to local conditions despite genetic homogeneity across 13 snake populations. *Proceedings of the Royal Society B* 288(1943): 20202916
- Braganca PHN, Amorim PF, Costa WJEM. 2018. Pantanodontidae (Teleostei, Cyprinodontiformes), the sister group to all other cyprinodontoid killifishes as inferred by molecular data. *Zoosystematics and Evolution* 94(1): 137-145
- Budiarsa IM, Artama IWT, Sembiring L, Situmorang J. 2009. Diversitas genetik burung maleo (*Macrocephalon maleo*) berdasarkan intron satu gen rhodopsin nukleus (RDP1). In Seminar Nasional Penelitian, Pendidikan dan Penerapan MIPA. Fakultas MIPA, Universitas Negeri Yogyakarta. Prosiding Seminar Nasional Penelitian, Pendidikan dan Penerapan MIPA, Fakultas MIPA. Universitas Negeri Yogyakarta 16 Mei 2009
- Buhay JE. 2009. "COI-like" sequences are becoming problematic in molecular systematic and DNA barcoding studies. *Journal of Crustacean Biology* 29(1): 96-110
- Burns MD, Sidlauskas BL. 2019. Ancient and contingent body shape diversification in a hyperdiverse continental fish radiation. *Evolution* 73(3): 569-587
- Campaner VP, Luiz-Silva W, Machado W. 2014. Geochemistry of acid mine drainage from a coal mining area and processes controlling metal attenuation in stream waters, Southern Brazil. *Anais da Academia Brasileira de Ciências* 86(2): 539-554
- Čekovská K, Šanda R, Eliášová K, Kovačić M, Zogaris S, Pappalardo AM, Soukupová T, Vukić J. 2020. Population genetic diversity of two marine gobies (Gobiiformes: Gobiidae) from the North-Eastern Atlantic and the Mediterranean Sea. *Journal of Marine Science and Engineering* 8(792): 1-18
- Çelebi EE, Öncel MS. 2016. Determination of acid forming potential of massive sulfide minerals and the tailings situated in lead/zinc mining district of Balya (NW Turkey). *Journal of African Earth Sciences* 2016(124): 487-496
- Cerca J, Meyer C, Purschke G, Struck TH. 2020. Delimitation of cryptic species drastically reduces the geographical ranges of marine interstitial ghost-worms (*Stygocapitella*; Annelida, Sedentaria). *Molecular Phylogenetics and Evolution* 143(2020): 106663
- Chandra G, Bhattacharjee I, Chatterjee SN, Ghosh A. 2008. Mosquito control by larvivorous fish. *Indian Journal of Medical Research* 127(1): 13-27
- Chaturvedi AD, Pal D, Penta S, Kumar A. 2015. Ecotoxic heavy metals transformation by bacteria and fungi in aquatic ecosystem. *World Journal of Microbiology and Biotechnology* 31(10): 1595-1603
- Chen N, Juric I, Cosgrove EJ, Bowman R, Fitzpatrick JW, Schoech SJ, Clark AG, Coop G. 2019. Allele frequency dynamics in a pedigreed natural population. *PNAS* 116(6): 2158-2164

- Chen SC, Hornsby MA, Robertson RM, Hawryshyn CW. 2014. The influence of chromatic background on the photosensitivity of tilapia erythrocytes. *Biology Open* 3(2): 117-120
- Choo-in S. 2019. The relationship between the total dissolved solids and the conductivity value of drinking water, surface water and wastewater. In *The 2019 International Academic Research Conference in Amsterdam*: 11-16
- Chowdhury MM, Rahman AS, Nahar L, Rahman M, Al Reza H, Ahmed MS. 2016. Efficiency of different DNA extraction methods for fish tissues: A comparative analysis. *IOSR-JPBS* 11(3): 11-15
- Cimmaruta R, Scialanca F, Luccioli F, Nascetti G. 2003. Genetic diversity and environmental stress in Italian populations of the cyprinodont fish *Aphanius fasciatus*. *Oceanol Acta* 26(1): 101-110
- Coates DJ, Byrne M, Moritz C. 2018. Genetic diversity and conservation units: dealing with the species-population continuum in the age of genomics. *Frontiers in Ecology and Evolution* 6(165): 1-13
- Costa WJEM. 2013. Historical biogeography of aplocheiloid killifishes (Teleostei: Cyprinodontiformes). *Vertebrate Zoology* 63(2): 139-154
- Costa WJEM. 2016. Comparative morphology and classification of South American cynopociline killifishes (Cyprinodontiformes: Aplocheilidae), with notes on family-group names used for aplocheiloids. *Vertebrate Zoology* 66(2): 125-140
- Damodaran D, Suresh G, Mohan BR. 2011. Bioremediation of soil by removing heavy metals using *Saccharomyces cerevisiae*. In *2<sup>nd</sup> International Conference on Environmental Science and Technology* 6(2): 22-27
- De Barros TF, Louvise J, Caramaschi ÉP. 2019. Flow gradient drives morphological divergence in an Amazon pelagic stream fish. *Hydrobiologia* 833(1): 217-229
- De Oliveira DAS, Decraemer W, Moens T, Dos Santos GAP, Derycke S. 2017. Low genetic but high morphological variation over more than 1000 km coastline refutes omnipresence of cryptic diversity in marine nematodes. *BMC Evolutionary Biology* 17(1): 1-17
- Dekar M, Sarong MA, Batubara AS, Muchlisin ZA. 2018. Ichthyofauna of Aceh River, Aceh Province, Indonesia. In *IOP Conference Series: Earth and Environmental Science* 216(1): 012024
- Dixit R, Malaviya D, Pandiyan K, Singh UB, Sahu A, Shukla R, Singh BP, Rai JP, Sharma PK, Lade H, Paul D. 2015. Bioremediation of heavy metals from soil and aquatic environment: an overview of principles and criteria of fundamental processes. *Sustainability* 7(2): 2189-2212
- Dolfi L, Ripa R, Cellerino A. 2014. Transition to annual life history coincides with reduction in cell cycle speed during early cleavage in three independent clades of annual killifish. *EvoDevo* 5(32): 1-9
- Domingos TJ, Moraes LN, Moresco RM, Margarido VP, Venere PC. 2014. Genetic and morphological diversity of *Moenkhausia oligolepis* (Characiformes: Characidae) populations in the tributaries of the Araguaia River, Brazil: implications for taxonomy and conservation. *Genetics and Molecular Research* 13(3): 7979-7991

- Dominguez-Castanedo O, Mosqueda-Cabrera MÁ, Valdesalici S. 2013. First observations of annualism in *Millerichthys robustus* (Cyprinodontiformes: Rivulidae). *Ichthyological Exploration of Freshwaters* 24(1): 15-20
- Dopson M, Johnson DB. 2012. Biodiversity, metabolism and applications of acidophilic sulfur-metabolizing microorganisms. *Environmental Microbiology* 14(10): 2620-2631
- Dorey JB, Groom SV, Freedman EH, Matthews CS, Davies OK, Deans EJ, Rebola C, Stevens MI, Lee MSY, Schwarz MP. 2020. Radiation of tropical island bees and the role of phylogenetic niche conservatism as an important driver of biodiversity. *Proceedings of the Royal Society B: Biological Sciences* 287(1925): 20200045
- Dutta AL, Chakraborty D, Dey SK, Manna AK, Manna PK. 2013. Ornamental fishes of coastal West Bengal, India-Prospects of conservation and involvement of local fishermen. *Natural Resources* 4(2) 155-162
- Dwivedi AK, Dubey VK. 2012. Advancements in morphometric differentiation: a review on stock identification among fish populations. *Reviews in Fish Biology and Fisheries* 23(4): 557-557
- Dwiyitno HS, Parmentier K, Van Keer C. 2018. Method comparison of DNA isolation and quantification for fish and seafood authenticity determination. *Squalen Bulletin of Marine and Fisheries Postharvest and Biotechnology* 13(3): 115-124
- Endo C, Watanabe K. 2020. Morphological variation associated with trophic niche expansion within a lake population of a benthic fish. *PloS ONE* 15(4): e0232114
- Esguicero AL, Arcifa MS. 2010. Fragmentation of a Neotropical migratory fish population by a century-old dam. *Hydrobiologia* 638(1): 41-53
- Excoffier L, Lischer HEL. 2010. Arlequin suite ver 3.5: A new series of programs to perform population genetics analyses under Linux and Windows. *Molecular Ecology Resources* 10(3): 564-567
- Farmawati DA, Wirajana N, Yowani SC. 2015. Perbandingan kualitas DNA dengan menggunakan metode boom original dan boom modifikasi pada isolat *Mycobacterium tuberculosis*. *Kimia* 9(1): 41-46
- Faulwetter S, Simboura N, Katsiaras N, Chatzigeorgiou G, Arvanitidis C. 2017. Polychaetes of Greece: An updated and annotated checklist. *Biodiversity Data Journal* 5: e20997
- Froese R, Pauly D. 2021. *Aplocheilus panchax* (Hamilton, 1822). <https://fishbase.mnhn.fr/summary/SpeciesSummary.php?ID=4756&AT=Jhingra>
- Fugi R, Agostinho AA, Hahn NS. 2001. Trophic morphology of five benthic-feeding fish species of a tropical floodplain. *Revista Brasileira de Biologia* 61(1): 27-33
- Fujii R. 2000. The regulation of motile activity in fish chromatophores. *Pigment Cell Research* 13(5): 300-319
- Furness AI. 2015. The evolution of an annual life cycle in killifish: adaptation to ephemeral aquatic environments through embryonic diapause. *Biological Reviews* 91(3):796-812

- Furness AI, Reznick DN, Springer MS, Meredith RW. 2015. Convergent evolution of alternative developmental trajectories associated with diapause in African and South American killifish. *Proceedings of the Royal Society of London B: Biological Sciences* 282(1802): 20142189
- Furness AI, Reznick DN, Tatarenkov A, Avise JC. 2018. The evolution of diapause in *Rivulus* (Laimosemion). *Zoological Journal of the Linnean Society* 2018(20): 1-18
- Gaikwad RW, Gupta DV. 2008. Review on removal of heavy metals from acid mine drainage. *Applied Ecology and Environmental Research* 6(3): 81-98
- Garcia D, Loureiro M, Tassino B. 2008. Reproductive behavior in the annual fish *Austrolebias reicherti* Loureiro & García 2004 (Cyprinodontiformes: Rivulidae). *Neotropical Ichthyology* 6(2): 243-248
- Ghoshal S, Hazra MK. 2015.  $\text{H}_2\text{CO}_3 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$  decomposition in the presence of  $\text{H}_2\text{O}$ ,  $\text{HCOOH}$ ,  $\text{CH}_3\text{COOH}$ ,  $\text{H}_2\text{SO}_4$  and  $\text{HO}_2$  radical: Instability of the gas-phase  $\text{H}_2\text{CO}_3$  molecule in the troposphere and lower stratosphere. *RSC Advances* 5(23): 17623-17635
- Gonzalez-Toril E, Gomez F, Malki M, Amils R. 2006. The Isolation and Study of Acidophilic Microorganisms. In *Methods in Microbiology* 35: 471-510. Academic Press
- Goonatilake S, De A, Fernando M, Kotagama O, Perera N, Vidanage S, Weerakoon D, Daniels AG, Máiz-Tomé L. 2020. The national red list of Sri Lanka: assessment of the threat status of the freshwater fishes of Sri Lanka 2020 Colombo: IUCN, International Union for Conservation of Nature, Sri Lanka and the Biodiversity Secretariat, Ministry of Environment and Wildlife Resources. 106 pp
- Goulding KWT. 2016. Soil acidification and the importance of liming agricultural soils with particular reference to the United Kingdom. *Soil Use and Management* 32(3): 390-399
- Gupta S, Banerjee S. 2013. Comparative assessment of mosquito biocontrol efficiency between guppy (*Poecilia reticulata*) and panchax minnow (*Aplocheilichthys panchax*). *Bioscience Discovery* 4(1): 89-95
- Haas TC, Blum MJ, Heins DC. 2010. Morphological responses of a stream fish to water impoundment. *Biology Letters* 6(6): 803-806
- Hajibabaei M, Smith MA, Janzen DH, Rodriguez JJ, Whitfield JB, Hebert PDN. 2006. A minimalist barcode can identify a specimen whose DNA is degraded. *Molecular Ecology Notes* 6(4): 959-964
- Hapsah, Gusmawartati, Yusuf M. 2014. Effect various combination of organic waste on compost quality. *Journal of Tropical Soils* 20(1): 59-65
- Harahap FR. 2016. Restorasi lahan pasca tambang timah di Pulau Bangka. *Society* 4(1): 61-69
- Hasler CT, Jeffrey JD, Schneider EV, Hannan KD, Tix JA, Suski CD. 2018. Biological consequences of weak acidification caused by elevated carbon dioxide in freshwater ecosystems. *Hydrobiologia* 806(1): 1-12

- Hatar H, Rahim SA, Razi WM, Sahrani FK. 2013. Heavy metals content in acid mine drainage at abandoned and active mining area. In AIP Conference Proceedings 1571(1): 641-646
- Hautier Y, Tilman D, Isbell F, Seabloom EW, Borer ET, Reich PB. 2015. Anthropogenic environmental changes affect ecosystem stability via biodiversity. *Science* 348(6232): 336-340
- Heidel C, Tichomirowa M. 2011. Galena oxidation investigations on oxygen and sulphur isotopes. *Isotopes in Environmental and Health Studies* 47(2): 169-188
- Helmstetter AJ, Papadopoulos AS, Igea J, Van Dooren TJ, Leroi AM, Savolainen V. 2016. Viviparity stimulates diversification in an order of fish. *Nature Communications* 2016(7): 1-7
- Henny C. 2011. Bioakumulasi beberapa logam pada ikan di kolong bekas tambang timah di Pulau Bangka. *Limnotek* 18(1): 83-95
- Hinckley A, Camacho-Sanchez M, Ruedi M, Hawkins MT, Mullon M, Cornellias A, Yuh FTY, Leonard JA. 2022. Evolutionary history of Sundaland shrews (Eulipotyphla: Soricidae: Crocidura) with a focus on Borneo. *Zoological Journal of the Linnean Society* 20: 1-14
- Hirata T, Kaneko T, Ono T, Nakazato T, Furukawa N, Hasegawa S, Wakabayashi S, Shigekawa M, Chang M, Romero MF, Hirose S. 2003. Mechanism of acid adaptation of a fish living in a pH 3.5 lake. *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology* 284(5): R1199-R1212
- Hormeno S, Ibarra B, Carrascosa JL, Valpuesta JM, Moreno-Herrero F, Arias-Gonzalez JR. 2011. Mechanical properties of high-G·C content DNA with A-type base-stacking. *Biophysical Journal* 100(8): 1996-2005
- Hosoishi S, Ogata K. 2019. Cryptic diversity in the widespread Asian ant *Crematogaster rothneyi* (Hymenoptera: Formicidae) inferred from morphological and genetic evidence. *Zoological Studies* 58(11): 1-15
- Hossain MA, Nahiduzzaman MD, Saha D, Khanam MUH, Alam MS. 2010. Landmark-based morphometric and meristic variations of the endangered carp, kalibaus *Labeo calbasu*, from stocks of two isolated rivers, the Jamuna and Halda, and a hatchery. *Zoological Studies* 49(4): 556-563
- Hu ZM, Zhong KL, Weinberger F, Duan DL, Draisma SG, Serrao E. 2020. Linking ecology to genetics to better understand adaptation and evolution: A review in marine macrophytes. *Frontiers in Marine Science* 7: 545102
- Huang HH. 2016. The Eh-pH diagram and its advances. *Metals* 6(23): 1-30
- Huang JP. 2020. Is population subdivision different from speciation? From phylogeography to species delimitation. *Ecology and Evolution* 10(14): 6890-6896
- Imre I, McLaughlin RL, Noakes DLG. 2002. Phenotypic plasticity in brook charr: changes in caudal fin induced by water flow. *Journal of Fish Biology* 61(5): 1171-1181

- Indarti S, Muhaemin M, Hudaidah S. 2012. Modified toca colour finder (M-TCF) dan kromatofor sebagai penduga tingkat kecerahan warna ikan komet (*Carasius auratus auratus*) yang diberi pakan dengan proporsi tepung kepala udang (TKU) yang berbeda. e-Jurnal Rekayasa dan Teknologi Budidaya Perairan 1(1): 9-16
- Indrayani E, Nitimulyo KH, Hadisusanto S, Rustadi R. 2015. Analisis kandungan nitrogen, fosfor dan karbon organik di Danau Sentani-Papua. Jurnal Manusia dan Lingkungan 22(2): 217-225
- Irawan RR, Sumarwan U, Suhardjo B, Djohar S. 2014. Strategic model of tin mining industry in Indonesia (case study of Bangka Belitung Province). International Journal of Business and Management Review 2(3): 48-58
- Irwan F, Afdal A. 2016. Analisis hubungan konduktivitas listrik dengan total dissolved solid (TDS) dan temperatur pada beberapa jenis air. Jurnal Fisika Unand 5(1): 85-93
- Ivanova NV, Zemplak TS, Hanner RH, Hebert PD. 2007. Universal primer cocktails for fish DNA barcoding. Molecular Ecology Notes 7(4): 544-548
- Javanbakht V, Alavi SA, Zilouei H. 2014. Mechanisms of heavy metal removal using microorganisms as biosorbent. Water Science and Technology 69(9): 1775-1787
- Jayaneththi HB. 2015. Vertebrate fauna of Morankanda-Mukalana secondary forest patch in Sri Lanka: a checklist reported from 2004-2008 survey. Ruhuna Journal of Science 6(1): 21-41
- Jewel MAS, Haque MA, Khatun R, Rahman MS. 2018. A comparative study of fish assemblage and diversity indices in two different aquatic habitats in Bangladesh: Lakhandaha Wetland and Atari River. Jordan Journal of Biological Sciences 11(4): 427-434
- Jyoti S, Dutta A. 2014. Ornamental fishes in Rowmari Floodplain Wetland, Darrang District, Assam. Science 2(1): 11-24
- Kalangi PN, Mandagi A, Masengi KW, Luasunaung A, Pangalila FP, Iwata M. 2013. Sebaran suhu dan salinitas di Teluk Manado. Jurnal Perikanan dan Kelautan Tropis 9(2): 70-75
- Kamal MM, Hakim AA, Butet NA, Fitriyaningsih Y, Astuti R. 2019. Autentikasi spesies ikan kerapu berdasarkan marka gen MT-COI dari perairan Peukan Bada, Aceh. Jurnal Biologi Tropis 19(2): 116-123
- Kamika I, Momba MNB. 2013. Assessing the resistance and bioremediation ability of selected bacterial and protozoan species to heavy metals in metal-rich industrial wastewater. BMC Microbiology 13(28): 1-14
- Karanovic T, Djuracic M, Eberhard SM. 2016. Cryptic species or inadequate taxonomy? Implementation of 2D geometric morphometrics based on integumental organs as landmarks for delimitation and description of copepod taxa. Systematic Biology 65(2): 304-327
- Karunarathna DMS, Amarasinghe AA, Gabadage D, Bahir M, Harding L. 2010. Current status of faunal diversity in Bellawila-Attidiya Sanctuary, Colombo District-Sri Lanka. Taprobatica Nature Conservation Society: The Journal of Asian Biodiversity 2(1): 48-63



- Karuppaiah KP, Ramesh U. 2016. Studies on the physicochemical and biological parameters of River Vaigai, Madurai Dist, Tamilnadu, India. *International Journal of Current Microbiology and Applied Sciences* 5(1): 788-795
- Kashefi P, Bani A, Ebrahimi E. 2012. Morphometric and meristic variations between non-reproductive and reproductive kutum females (*Rutilus frisii kutum*, Kamensky, 1901), in the southwest Caspian Sea. *Italian Journal of Zoology* 79(3): 337-343
- Katwate U, Kumkar P, Britz R, Raghavan R, Dahanukar N. 2018. The identity of *Aplocheilus andamanicus* (Kohler, 1906) (Teleostei: Cyprinodontiformes), an endemic killifish from the Andaman Island, with notes on *Odontopsis armata* van Hasselt. *Zootaxa* 4382(1): 159-174
- Kaur R, Shah TK. 2017. Role of feed additives in pigmentation of ornamental fishes. *International Journal of Fisheries and Aquatic Studies* 5(2): 684-686
- Kelley JL, Davies PM, Collin SP, Grierson PF. 2017. Morphological plasticity in a native freshwater fish from semiarid Australia in response to variable water flows. *Ecology and Evolution* 7(16): 6595-6605
- Khairunnas, Gusman M. 2018. Analisis pengaruh parameter konduktivitas, resistivitas dan TDS terhadap salinitas air tanah dangkal pada kondisi air laut pasang dan air laut surut di daerah pesisir pantai Kota Padang. *Jurnal Bina Tambang* 3(4): 1751-1760
- Khan MMH, Rafii MY, Ramlee SI, Jusoh M, Al Mamun M, Halidu J. 2021. DNA fingerprinting, fixation-index (Fst), and admixture mapping of selected Bambara groundnut (*Vigna subterranea* [L.] Verdc.) accessions using ISSR markers system. *Scientific Reports* 11(1): 1-23
- Kieltyk P, Mirek Z. 2014. Taxonomy of the *Solidago virgaurea* group (Asteraceae) in Poland, with special reference to variability along an altitudinal gradient. *Folia Geobotanica* 49(2014): 259-282
- Kollmann J, Bañuelos MJ. 2004. Latitudinal trends in growth and phenology of the invasive alien plant *Impatiens glandulifera* (Balsaminaceae). *Diversity and Distributions* 10(5-6): 377-385
- Kolmert A, Johnson DB. 2001. Remediation of acidic waste waters using immobilised, acidophilic sulfate-reducing bacteria. *Chemical Technology and Biotechnology* 76(8): 836-843
- Korshunova T, Picton B, Furfaro G, Mariottini P, Pontes M, Prkić J, Fletcher K, Malmberg K, Lundin K, Martynov A. 2019. Multilevel fine-scale diversity challenges the 'cryptic species' concept. *Scientific Reports* 9(1): 1-23
- Kuffel A, Gray A, Daeid NN. 2021. Impact of metal ions on PCR inhibition and RT-PCR efficiency. *International Journal of Legal Medicine* 135(1): 63-72
- Kumar P, Barma SK, Subba BR. 2011. A checklist of fishes of eastern Terai of Nepal. *Nepalese Journal of Biosciences* 2011(1): 63-65
- Kurniawan A. 2016. Microorganism communities response of ecological changes in post tin mining ponds. *Journal of Microbiology and Virology* 6(1): 17-26
- Kurniawan A. 2017. Chronosequence effect of post tin mining ponds to metals residu and microecosystem change. *Omni-Akuatika* 13(1): 60-65

- Kurniawan A. 2019. Diversitas metagenom bakteri di danau pascatambang timah dengan umur berbeda. [Disertasi]. Fakultas Biologi. Universitas Jenderal Soedirman
- Kurniawan A. 2020. The metal oxides of abandoned tin mining pit waters as an indicator for bacterial diversity. *AAFL Bioflux* 13(5): 2982-2992
- Kurniawan A, Mustikasari D. 2019. Review: Mekanisme akumulasi logam berat di ekosistem pascatambang timah. *Jurnal Ilmu Lingkungan* 17(3): 408-415
- Kurniawan A, Mustikasari D. 2021. Review tentang kemampuan ikan ekstremofil untuk hidup di perairan asam dan terkontaminasi logam berat pascapenambangan timah. *Jurnal Ilmu Lingkungan* 19(3): 541-554
- Kurniawan A, Oedjijono O, Tamad T, Sulaeman U. 2019. The pattern of heavy metals distribution in time chronosequence of ex-tin mining ponds in Bangka Regency, Indonesia. *Indonesian Journal of Chemistry* 19(1): 254-261
- Kurniawan A, Prasetyono E, Syaputra D. 2020. Analisis korelasi parameter kualitas perairan kolong pascatambang timah dengan umur berbeda. *Samakia: Jurnal Ilmu Perikanan* 11(2): 91-100
- Kwong RW, Kumai Y, Perry SF. 2014. The physiology of fish at low pH: the zebrafish as a model system. *Journal of Experimental Biology* 217(5):651-662
- Levis NA, Fuller CG, Pfennig DW. 2020. An experimental investigation of how intraspecific competition and phenotypic plasticity can promote the evolution of novel, complex phenotypes. *Biological Journal of the Linnean Society* 131(1): 76-87
- Lewis VM, Saunders LM, Larson TA, Bain EJ, Sturiale SL, Gur D, Chowdhury S, Flynn JD, Allenj MC, Deheynj DD, Leei JC, Simong JC, Lippincott-Schwartz J, Raible DW, Parichy DM. 2019. Fate plasticity and reprogramming in genetically distinct populations of *Danio leucophores*. *Proceedings of the National Academy of Sciences* 116(24): 11806-11811
- Liu Y, Webber S, Bowgen K, Schmaltz L, Bradley K, Halvarsson P, Abdelgadir M, Griesser M. 2013. Environmental factors influence both abundance and genetic diversity in a widespread bird species. *Ecology and Evolution* 3(14): 4683-4695
- Locke A, Sprules WG. 2000. Effects of acidic pH and phytoplankton on survival and condition of *Bosmina longirostris* and *Daphnia pulex*. *Hydrobiologia* 437(1-3): 187-196
- Loerting T, Bernard J. 2010. Aqueous carbonic acid (H<sub>2</sub>CO<sub>3</sub>). *ChemPhysChem* 11(11): 2305-2309
- Loiselle PV. 2006. A review of the Malagasy *Pachypanchax* (Teleostei: Cyprinodontiformes, Aplocheilidae), with descriptions of four new species. *Zootaxa* 2006(1366): 1-44
- Lone AR, Thakur SS, Tiwari N, Sokefun OB, Yadav S. 2021. Disentangling earthworm taxonomic stumbling blocks using molecular markers. *Journal of Threatened Taxa* 13(11): 19566-19579
- Luo Z, Brock J, Dyer JM, Kutchan T, Schachtman D, Augustin M, Ge Y, Fahlgren N, Abdel-Haleem H. 2019. Genetic diversity and population structure of a *Camelina sativa* spring panel. *Frontiers in Plant Science* 10: 184

- Lutfi, Abubakar H, Manaf M, Lapadi I, Dailami M. 2019. Genetic identification of *Aplocheilus panchax* from the waters of West Papua using molecular approach for preventing the spread of malaria. *Indian Journal of Public Health Research & Development* 10(10): 1349-1353
- Mace GM, Norris K, Fitter AH. 2012. Biodiversity and ecosystem services: a multilayered relationship. *Trends in Ecology & Evolution* 27(1): 19-26
- Magtoon W, Termvidchakorn A. 2009. A revised taxonomic account of ricefish *Oryzias* (Belontiiformes; Adrianichthyidae), in Thailand, Indonesia and Japan. *Tropical Natural History* 9(1): 35-68
- Magurran AE, Baillie SR, Buckland ST, Dick JM, Elston DA, Scott EM, Smith RI, Somerfield PJ, Watt AD. 2010. Long-term datasets in biodiversity research and monitoring: assessing change in ecological communities through time. *Trends in Ecology & Evolution* 25(10): 574-582
- Manna B, Aditya G, Banerjee S. 2011. Habitat heterogeneity and prey selection of *Aplocheilus panchax*: an indigenous larvivorous fish. *Journal of Vector Borne Diseases* 48(3): 144-149
- Marcil J, Swain DP, Hutchings JA. 2006. Genetic and environmental components of phenotypic variation in body shape among populations of Atlantic cod (*Gadus morhua* L.). *Biological Journal of the Linnean Society* 88(3): 351-365
- Markert JA, Champlin DM, Gutjahr-Gobell R, Grear JS, Kuhn A, McGreevy TJ, Roth A, Bagley MJ, Nacci DE. 2010. Population genetic diversity and fitness in multiple environments. *BMC Ecology and Evolution* 10(1): 1-13
- Martinez AS, Willoughby JR, Christie MR. 2018. Genetic diversity in fishes is influenced by habitat type and life-history variation. *Ecology and Evolution* 8(23): 12022-12031
- Mashar A, Wahyuni YS, Hakim AA, Wardiatno Y. 2019. Truss morphometric approach for population kinship analysis of *Cherax quadricarinatus* (Von Martens, 1868) in West Java waters. *Journal of Tropical Fisheries Management* 3(2): 20-27
- McDonald MD. 2003. Fish at home in acid lake. *Journal of Experimental Biology* 206(11): 1769-1769
- Meilisza N, Suprayudi MA, Jusadi D, Junior MZ, Artika IM, Utomo NBP. 2019. Enhancement of colour quality, growth, and health status of rainbow Kurumoi fish *Melanotaenia parva* through dietary synthetic carotenoids supplementation. *Jurnal Akuakultur Indonesia* 18(1): 54-69
- Mejia ER, Ospina JD, Marquez MA, Morales AL. 2009. Oxidation of chalcocopyrite (CuFeS<sub>2</sub>) by *Acidithiobacillus ferrooxidans* and a mixed culture of *Acidithiobacillus ferrooxidans* and *Acidithiobacillus thiooxidans* like bacterium in shake flasks. In *Advanced Materials Research* 2009(71-73): 385-388. Trans Tech Publications. Switzerland
- Merckx VS, Smets EF, Specht CD. 2013. Biogeography and conservation. In *Mycoheterotrophy* (103-156). Springer, New York
- Merino-Gergichevich C, Alberdi M, Ivanov AG, Reyes-Diaz M. 2010. Al<sup>3+</sup>-Ca<sup>2+</sup> interaction in plants growing in acid soils: al-phytotoxicity response to calcareous amendments. *Journal of Soil Science and Plant Nutrition* 10(3): 217-243

- Mizusawa K, Kobayashi Y, Sunuma T, Asahida T, Saito Y, Takahashi A. 2011. Inhibiting roles of melanin-concentrating hormone for skin pigment dispersion in barfin flounder, *Verasper moseri*. *General and Comparative Endocrinology* 171(1): 75-81
- Mohamad S, Liew HJ, Zainuddin RA, Rahmah S, Waiho K, Ghaffar MA, Nhan HT, Loh JY, Lim LS, Chang Y, Liang L. 2021. High environmental temperature and low pH stress alter the gill phenotypic plasticity of Hoven's carp *Leptobarbus hoevenii*. *Journal of Fish Biology* 99(1): 206-218
- Mohammed MA, Nuryanto A, Kusmintarsih ESK. 2021. Genetic differentiation of dengue vector *Aedes aegypti* in the small geographical scale of Banyumas District, Indonesia based on Cytochrome Oxidase I. *Biodiversitas Journal of Biological Diversity* 22(2): 675-683
- Mojekwu TO, Anumudu CI. 2015. Advanced techniques for morphometric analysis in fish. *Journal of Aquaculture Research & Development* 6(8): 1-6
- Morrone JJ. 2014. Cladistic biogeography of the Neotropical region: identifying the main events in the diversification of the terrestrial biota. *Cladistics* 30(2): 202-214
- Mota VC, Hop J, Sampaio LA, Heinsbroek LT, Verdegem MC, Eding EH, Verreth JA. 2018. The effect of low pH on physiology, stress status and growth performance of turbot (*Psetta maxima* L.) cultured in recirculating aquaculture systems. *Aquaculture Research* 49(10): 3456-3467
- Muarif M. 2016. Karakteristik suhu perairan di kolam budidaya perikanan. *Jurnal Mina Sains* 2(2): 96-101
- Muchlisin ZA. 2013. Morphometric variations of rasbora group (pisces: cyprinidae) in Lake Laut Tawar, Aceh Province, Indonesia, based on truss character analysis. *Hayati Journal of Biosciences* 20(3): 138-143
- Muhajirah E, Kamal MM, Butet NA, Wibowo A. 2021. Keragaman genetik populasi giant snakehead (*Channa micropeltes*) menggunakan penanda random amplified polymorphic DNA di perairan Taman Nasional Sebangau, Kalimantan Tengah. *Jurnal Pengelolaan Sumberdaya Alam dan Lingkungan* 11(1): 141-151
- Muhotimah M, Triyatmo B, Priyono SB, Kuswoyo T. 2013. Analisis morfometrik dan meristik nila (*Oreochromis* sp.) strain larasati F5 dan tetuanya. *Jurnal Perikanan Universitas Gadjah Mada* 15(1): 42-53
- Murphy WJ, Collier GE. 1997. A molecular phylogeny for aplocheiloid fishes (Atherinomorpha, Cyprinodontiformes): the role of vicariance and the origins of annualism. *Molecular Biology and Evolution* 14(8): 790-799
- Mustikasari D, Agustiani RD. 2021. DNA barcoding ikan kepala timah dan betok berdasarkan gen COI sebagai ikan pioneer di kolong pascatambang timah, Pulau Bangka. *Samakia: Jurnal Ilmu Perikanan* 12(1): 86-95
- Mustikasari D, Kurniawan A, Aznur BS. 2023. Komunikasi singkat: kebiasaan makan ikan kepala timah (*Aplocheilus panchax*, Hamilton 1822) di perairan ekstrem asam pascatambang timah terabaikan. *Journal of Aquatropica Asia* 8(1): 13-16
- Mustikasari D, Nuryanto A, Suryaningsih S. 2020a. The presence of blue panchax (*Aplocheilus panchax*) in the waters, contaminated by heavy metals, of the abandoned tin mining pits of different age. *AACL Bioflux* 13(5): 2538-2550

- Mustikasari D, Suryaningsih S, Nuryanto A. 2020b. Morphological variation of blue panchax (*Aplocheilichthys panchax*) lives in different habitat assessed using truss morphometric. *Biosaintifika* 12(3): 399-407
- Mustikasari D, Nuryanto A, Suryaningsih S. 2022. Phylogeography of *Aplocheilichthys panchax* in Indonesia, with special focus on the Bangka Island population. *Biodiversitas Journal of Biological Diversity* 23(4): 2035-2046
- Nahar N, Lanon MAH, Saha B, Shaibur MR. 2016. Assessment of physico-chemical properties of water of Gorai River at Kushtia town in 2014: a case study. *Journal of Science, Technology and Environment Informatics* 2(2): 51-60
- Nascimento MHS, Almeida MS, Veira MNS, Filho DL, Lima RC, Barros MC, Fraga EC. 2016. DNA barcoding reveals high levels of genetic diversity in the fishes of the Itapecuru Basin in Maranhão, Brazil. *Genetics and Molecular Research* 15(3): 1-11
- Nater A, Arora N, Greminger MP, van Schaik CP, Singleton I, Wich SA, Fredrikson G, Perwitasari D, Pamungkas J, Krützen M. 2013. Marked population structure and recent migration in the critically endangered Sumatran orangutan (*Pongo abelii*). *Journal of Heredity* 104(1): 2-13
- Naudet V, Revil A, Rizzo E, Bottero JY, Begassat P. 2004. Groundwater redox conditions and conductivity in a contaminant plume from geoelectrical investigations. *Hydrology and Earth System Sciences* 8(1): 8-22
- Naumann B, Englert C. 2018. Dispersion/reaggregation in early development of annual killifishes: phylogenetic distribution and evolutionary significance of a unique feature. *Developmental Biology* 442(1): 69-79
- Navarro CA, Bernath DV, Jerez CA. 2013. Heavy metal resistance strategies of acidophilic bacteria and their acquisition: importance for biomining and bioremediation. *Biological Research* 46(4): 363-371
- Ng CKC, Ooi PAC, Wong WL, Khoo G. 2018. Ichthyofauna checklist (Chordata: Actinopterygii) for indicating water quality in Kampar River catchment, Malaysia. *Biodiversitas Journal of Biological Diversity* 19(6): 2252-2274
- Ng KC, Ooi PA, Wong WL, Khoo G. 2017. A review of fish taxonomy conventions and species identification techniques. *Survey in Fisheries Sciences* 4(1): 54-93
- Nguyen NH, Hamzah A, Thoa NP. 2017. Effects of genotype by environment interaction on genetic gain and genetic parameter estimates in red tilapia (*Oreochromis spp.*). *Frontiers in Genetics* 8(82): 1-9
- Ningsih EY, Faiqoh E, Astarini IA, Pertiwi PD, Sembiring A, Yusmalinda NLA, Al Malik MD. 2021. Identifikasi dan keragaman genetik longtail tuna (*Thunnus tonggol*) yang didaratkan di PPI Kedonganan dan PPP Muncar menggunakan marka D-loop Mitokondria. *Journal of Marine and Aquatic Sciences* 7(1): 94-102
- Noreen M, Arijio AG, Ahmad L, Sethar A, Leghari MF, Bhutto MB, Leghari IH, Memon KH, Shahani S, Vistro WA, Sethar GH, Khan N. 2017. Biological control of mosquito larvae using edible fish. *International Journal of Innovative and Applied Research* 5(8): 1-6
- Nosil P., Reimchen TE. 2005. Ecological opportunity and levels of morphological variance within freshwater stickleback populations. *Biological Journal of the Linnean Society* 86(3): 297-308

- Oktavia D, Setiadi Y, Hilwan I. 2014. Sifat fisika dan kimia tanah di hutan kerangas dan lahan pasca tambang timah Kabupaten Belitung Timur. *Jurnal Silvicultura Tropika* 5(3): 149-154
- Olsson J, Eklöv P. 2005. Habitat structure, feeding mode and morphological reversibility: factors influencing phenotypic plasticity in perch. *Evolutionary Ecology Research* 7(8): 1109-1123
- Paknejad S, Heidari A, Mousavi-Sabet H. 2014. Morphological variation of shad fish *Alosa brashnicowi* (Teleostei, Clupeidae) populations along the southern Caspian Sea coasts, using a truss system. *International Journal of Aquatic Biology* 2(6): 330-336
- Parenti LR, Hartel KE. 2011. Osteology identifies *Fundulus capensis* Garman, 1895 as a killifish in the family Fundulidae (Atherinomorpha: Cyprinodontiformes). *Copeia* 2011(2): 242-250
- Passow CN, Greenway R, Arias-Rodriguez L, Jeyasingh PD, Tobler M. 2015. Reduction of energetic demands through modification of body size and routine metabolic rates in extremophile fish. *Physiological and Biochemical Zoology* 88(4): 371-383
- Patty W, Tarumingkeng A. 2007. Variasi temporal dari penyebaran suhu di Muara Sungai Sario. *Ilmu Kelautan: Indonesian Journal of Marine Sciences* 12(2): 73-78
- Platt AR, Woodhall RW, George JrAL. 2007. Improved DNA sequencing quality and efficiency using an optimized fast cycle sequencing protocol. *Biotechniques* 43(1): 58-62
- Podrabsky JE, Culpepper KM. 2012. Cell cycle regulation during development and dormancy in embryos of the annual killifish *Austrofundulus limnaeus*. *Cell Cycle* 11(9): 1697-1704
- Podrabsky JE, Hand SC. 2015. Physiological strategies during animal diapause: lessons from brine shrimp and annual killifish. *Journal of Experimental Biology* 218(12): 1897-1906
- Pohl M, Milvertz FC, Meyer A, Vences M. 2015. Multigene phylogeny of Cyprinodontiform fishes suggests continental radiations and a rogue taxon position of *Pantanodon*. *Vertebrate Zoology* 65(1): 37-44
- Prasad AGD, Venkataramana GV, Thomas M. 2009. Fish diversity and its conservation in major wetlands of Mysore. *Journal of Environmental Biology* 30(5): 713-718
- Pratomo YW, Zahida F, Yuda P. 2021. Perbandingan Metode isolasi DNA sebagai templat PCR untuk identifikasi jenis kelamin cerek jawa (*Charadrius javanicus*) secara molekuler menggunakan Primer 2550F/2718R. *Biota* 6(2): 78-86
- Price AC, Weadick CJ, Shim J, Rodd FH. 2008. Pigments, patterns, and fish behavior. *Zebrafish* 5(4): 297-307
- Prowse TD, Wrona FJ, Reist JD, Hobbie JE, Levesque LM, Vincent WF. 2006. General features of the Arctic relevant to climate change in freshwater ecosystems. *AMBIO: A Journal of the Human Environment* 35(7): 330-338

- Puillandre N, Lambert A, Brouillet S, Achaz GJME. 2012. ABGD, automatic barcode gap discovery for primary species delimitation. *Molecular Ecology* 21(8): 1864-1877
- Pulungan CP. 2009. Fauna ikan dari Sungai Tenayan, anak Sungai Siak, dan rawa di sekitarnya, Riau. *Berkala Perikanan Terubuk* 37(2): 78-90
- Purnama MF, Haslianti, Salwiyah, Admaja AK. 2019. Potensi sumberdaya kijing (*Anodonta woodiana*) di sub DAS anak Sungai Lahombuti Kabupaten Konawe - Sulawesi Tenggara. *Saintek Perikanan* 15(1): 66-72
- Raja M, Ramkumar R, Kavitha M, Perumal P. 2015. Distribution pattern, threatened status and conservation measures of fishes with relation to water quality and habitat characteristics of Bhavanisagar Reservoir, Tamil Nadu. *International Journal of Fisheries and Aquatic Studies* 2(6): 11-18
- Rajeshkumar S, Li X. 2018. Bioaccumulation of heavy metals in fish species from the Meiliang Bay, Taihu Lake, China. *Toxicology Reports* 5(2018): 288-295
- Rajeswari MV, Rajasree SRR, Balasubramanian T. 2017. Effect of light levels on growth, survival and skin colour enhancement of marine angelfish, *Apolectichthys xanthurus* (Bennett, 1833). *Turkish Journal of Fisheries and Aquatic Sciences* 17(6): 1083-1087
- Ralls K, Frankham R, Ballou JD. 2013. Inbreeding and Outbreeding. In *Encyclopedia of Biodiversity (Second Edition)*. Academic Press
- Rannala B, Yang Z. 2020. Species Delimitation. Scornavacca, Celine; Delsuc, Frédéric; Galtier, Nicolas. *Phylogenetics in the Genomic Era*, No commercial publisher
- Rao D, Venkateshwara CT, Gaddad SM. 2002. Bioleaching of copper from chalcopyrite ore by fungi. *Indian Journal of Experimental Biology* 40(3): 319-324
- Rao JCS, Raju CS, Simhachalam G. 2014. Biodiversity and conservation status of fishes of River Sarada, Visakhapatnam District, Andhra Pradesh, India. *Research Journal of Animal, Veterinary and Fishery Sciences* 2(2): 1-8
- Riesch R, Tobler M, Plath M. 2015. Extremophile Fishes. *Ecology, Evolution, and Physiology of Teleosts in Extreme Environments*. Springer
- Rius M, Turon X. 2020. Phylogeography and the description of geographic patterns in invasion genomics. *Frontiers in Ecology and Evolution* 8(595711): 1-6
- Rizko N, Kusumaningrum HP, Ferniah RS, Pujiyanto S, Erfianti T, Mawarni SN, Rahayu HT, Khairunnisa D. 2020. Isolasi DNA daun jeruk bali merah (*Citrus maxima* Merr.) dengan modifikasi Metode Doyle and Doyle. *Berkala Bioteknologi* 3(2): 1-7
- Rosidah, Henny C. 2012. Kajian logam Fe, Al, Cu dan Zn pada perairan kolong paska penambangan timah di Pulau Bangka. *Prosiding Seminar Nasional Limnologi VI*: 611-619
- Rosilawati ML, Sudarmono P, Ibrahim F. 2002. Sensitivitas metode PCR (*polymerase chain reaction*) dalam mendeteksi isolat klinis *Mycobacterium tuberculosis*. *Jurnal Kedokteran Trisakti* 21(1): 7-14

- Ruchi W, Putri DH, Anhar A, Farma SA. 2018. Comparison of three different DNA isolation methods to degradate the *Trichoderma* fungi cell wall. *Bioscience* 2(1): 50-59
- Rueda M, Rodríguez MA, Hawkins BA. 2013. Identifying global zoogeographical regions: lessons from Wallace. *Journal of Biogeography* 40(12): 2215-2225
- Rukshana F, Butterly CR, Baldock JA, Tang C. 2011. Model organic compounds differ in their effects on pH changes of two soils differing in initial pH. *Biology and Fertility of Soils* 47(1): 51-62
- Rusydi AF. 2018. Correlation between conductivity and total dissolved solid in various type of water: A review. In *IOP Conference Series: Earth and Environmental Science* 118(1): 012019
- Rychła A, Benndorf J, Buczyński P. 2011. Impact of pH and conductivity on species richness and community structure of dragonflies (Odonata) in small mining lakes. *Fundamental and Applied Limnology/Archiv für Hydrobiologie* 179(1): 41-50
- Samonds KE, Godfrey LR, Ali JR, Goodman SM, Vences M, Sutherland MR, Irwin MT, Krause DW. 2013. Imperfect isolation: factors and filters shaping Madagascar's extant vertebrate fauna. *PLoS ONE* 8(4): e62086
- Sanmartín I, Ronquist F. 2004. Southern hemisphere biogeography inferred by event-based models: plant versus animal patterns. *Systematic Biology* 53(2): 216-243
- Santos TG, Schorer M, dos Santos JC, Pelli A, Pedreira MM. 2019. The light intensity in growth, behavior and skin pigmentation of juvenile catfish *Lophiosilurus alexandri* (Steindachner). *Latin American Journal of Aquatic Research* 47(3): 416-422
- Sari NP, Santoso L, Hudaidah S. 2012. Pengaruh penambahan tepung kepala udang dalam pakan terhadap pigmentasi warna pada ikan koi (*Cyprinus carpio*) jenis kohaku. *e-Jurnal Rekayasa dan Teknologi Budidaya Perairan* 1(1): 31-38
- Sari TS, Zakaria IJ. 2017. The relationship of body length and ratio pappilla with sex in gobi fish (*Sicyopterus macrostetholepis*). *Biosaintifika* 9(2): 265-272
- Schierenbeck KA. 2017. Population-level genetic variation and climate change in a biodiversity hotspot. *Annals of Botany* 119(2): 215-228
- Schneider HM. 2022. Characterization, costs, cues and future perspectives of phenotypic plasticity. *Annals of Botany* 130(2): 131-148
- Sedlacek O, Baciakova B, Kratochvil K. 2014. Evolution of body colouration in killifishes (Cyprinodontiformes: Aplocheilidae, Nothobranchiidae, Rivulidae): is male ornamentation constrained by intersexual genetic correlation?. *Zoologischer Anzeiger* 253(3): 207-215
- Semir J, Loeuille B, Monge M. 2014. The *Lychnophora granmogolensis* (Asteraceae-Vernonieae) species complex: two new species and comments on the identity of *Lychnophora granmogolensis*. *Systematic Botany* 39(3): 988-996
- Sen S, Jahageerdar S, Jaiswar AK, Chakraborty SK, Sajina AM, Dash GR. 2011. Stock structure analysis of *Decapterus russelli* (Ruppell, 1830) from east and west coast of India using truss network analysis. *Fisheries Research* 112(1): 38- 43



- Senay C, Harvey-Lavoie S, Macnaughton CJ, Bourque G, Boisclair D. 2017. Morphological differentiation in northern pike (*Esox lucius*): the influence of environmental conditions and sex on body shape. *Canadian Journal of Zoology* 95(6): 383-391
- Sepriani, Abidjulu J, Kolengan HS. 2016. Pengaruh limbah cair industri tahu terhadap kualitas air Sungai Paal 4 Kecamatan Tikala Kota Manado. *Chemistry Progress* 9(1): 29-33
- Setiaputri AA, Barokah GR, Sahaba MAB, Arbajayanti RD, Fabella N, Pertiwi RM, Nurilmala M, Nugraha R, Abdullah A. 2020. Perbandingan metode isolasi DNA pada produk perikanan segar dan olahan. *Jurnal Pengolahan Hasil Perikanan Indonesia* 23(3): 447-458
- Sfakianakis DG, Renieri E, Kentouri M, Tsatsakis AM. 2015. Effect of heavy metals on fish larvae deformities: a review. *Environmental Research* 137(2015): 246-255
- Sharma A, Kawarabayasi Y, Satyanarayana T. 2012. Acidophilic bacteria and archaea: acid stable biocatalysts and their potential applications. *Extremophiles* 16(1): 1-19
- Siswati ND, Indrawati T, Rahmah M. 2009. Biosorpsi logam berat plumbum (Pb) menggunakan biomassa *Phanerochaete chrisosporium*. *Jurnal Ilmiah Teknik Lingkungan* 1(2): 67-72
- Skold HN, Aspengren S, Cheney KL, Wallin M. 2016. Fish chromatophores-from molecular motors to animal behavior. *International Review of Cell and Molecular Biology* 321(2016): 171-219
- Srineetha, U., Reddy, M. V., and Bhaskar, M. 2014. Effect of environmental acidic pH on oxygen consumption in different stages of fish, *Cyprinus carpio* (L). *IOSR Journal of Environmental Science, Toxicology and Food Technology* 8(8): 17-21
- Stallinga P. 2018. Carbon dioxide and ocean acidification. *European Scientific Journal* 14(18): 1857-7881
- Star B, Spencer HG. 2013. Effects of genetic drift and gene flow on the selective maintenance of genetic variation. *Genetics* 194(1): 235-244
- Sudhan C, Kingston DS, Jawahar P, Aanand S. 2017. Updated checklist of fish species in Pechiparai reservoir, Kanyakumari district, Tamil Nadu. *Journal of Entomology and Zoology Studies* 5(4): 171-178
- Sugianti Y, Astuti LP. 2018. Respon oksigen terlarut terhadap pencemaran dan pengaruhnya terhadap keberadaan sumber daya ikan di Sungai Citarum. *Jurnal Teknologi Lingkungan* 19(2): 203-212
- Sullivan ER, Barker C, Powell I, Ashton PA. 2019. Genetic diversity and connectivity in fragmented populations of *Rhinanthus minor* in two regions with contrasting land-use. *Biodiversity and Conservation* 28(12): 3159-3181
- Supriyadi S. 2008. Kandungan bahan organik sebagai dasar pengelolaan tanah di lahan kering Madura. *Jurnal Embryo* 5(2): 176-183
- Susanto AH. 2018. Genetika populasi *Synedrella nodiflora* (L.) Gaertn di Papan Sunda berdasarkan penyela intergenik *atpB-rbcL*. [Disertasi]. Fakultas Biologi. Universitas Jenderal Soedirman

- Santoso H, Sutanto A, Alamsyah N, Zen S. 2022. Daya predasi ikan pemakan jentik nyamuk *Aedes* sp. sebagai sumber belajar untuk menyusun panduan praktikum biologi SMA. *Bioedukasi (Jurnal Pendidikan Biologi)* 13(1): 122-126.
- Susilo TB, Sobah N, Mustikasari K, Sasmita R. 2022. Isolasi biogeografis ikan kihung (*Channa lucius*) di Danau Rawojojo, Situs Bukit Bangkai, Kalimantan Selatan berdasarkan profil jenis dan bobot protein. *Bioscientiae* 19(1): 11-30
- Swain DP, Hutchings JA, Foote CJ. 2005. Environmental and genetic influences on stock identification characters. In *Stock Identification Methods*. Academic Press
- Tamura K, Stecher G, Kumar S. 2021. MEGA11: Molecular evolutionary genetic analysis version 11. *Molecular Biology and Evolution* 38(7): 3022-3027
- Tan G, Shu W, Hallberg KB, Li F, Lan C, Huang L. 2007. Cultivation-dependent and cultivation-independent characterization of the microbial community in acid mine drainage associated with acidic Pb/Zn mine tailings at Lechang, Guangdong, China. *FEMS Microbiology Ecology* 59(1): 118-126
- Taylor M, Elliott HA, Navitsky LO. 2018. Relationship between total dissolved solids and electrical conductivity in marcellus hydraulic fracturing fluids. *Water Science and Technology* 77(8): 1998-2004
- Thirumalini S, Joseph K. 2009. Correlation between electrical conductivity and total dissolved solids in natural waters. *Malaysian Journal of Science* 28(1): 55-61
- Thompson AW, Hayes A, Podrabsky JE, Orti G. 2017. Gene expression during delayed hatching in fish-out-of-water. *Ecological Genetics and Genomics* 3-5(2017): 52-59
- Thu PT, Huang WC, Chou TK, Van Quan N, Van Chien P, Li F, Shao KT, Liao TY. 2019. DNA barcoding of coastal ray-finned fishes in Vietnam. *PloS ONE* 14(9): e0222631
- Turko AJ, Wright PA. 2015. Evolution, ecology and physiology of amphibious killifishes (Cyprinodontiformes). *Journal of Fish Biology* 87(4): 815-835
- Vasil'eva ED, Medvedev DA, Chi TTL, Prazdnikov DV, Pavlov DS, Nga NT, Vasil'ev VP. 2013. Species structure of the ichthyofauna of the inland waters of Phu Quoc Island, Gulf of Thailand, Vietnam. *Journal of Ichthyology* 53(6): 380-396
- Wang WC, Mao H, Ma DD, Yang WX. 2014. Characteristics, functions, and applications of metallothionein in aquatic vertebrates. *Frontiers in Marine Science* 1(34): 1-12
- Wang XY, Wang MM, Chen C, Wang XQ. 2020. Genetic variation and phylogeographic structure of *Spodoptera exigua* in western China based on mitochondrial DNA and microsatellite markers. *PloS ONE* 15(5): e0233133
- Wiens JJ. 2011. The causes of species richness patterns across space, time, and clades and the role of "ecological limits". *The Quarterly Review of Biology* 86(2): 75-96
- Worsham ML, Julius EP, Nice CC, Diaz PH, Huffman DG. 2017. Geographic isolation facilitates the evolution of reproductive isolation and morphological divergence. *Ecology and Evolution* 7(23): 10278-10288.

- Xiao JH, Wang NX, Li YW, Murphy RW, Wan DG, Niu LM, Hu HY, Fu YG, Huang DW. 2010. Molecular approaches to identify cryptic species and polymorphic species within a complex community of fig wasps. *PLoS ONE* 5(11): e15067
- Yakovchuk P, Protozanova E, Frank-Kamenetskii MD. 2006. Base-stacking and base-pairing contributions into thermal stability of the DNA double helix. *Nucleic Acids Research* 34(2): 564-574
- Yang CH, Wu KC, Chuang LY, Chang HW. 2019. Decision theory-based COI-SNP tagging approach for 126 scombriformes species tagging. *Frontiers in Genetics* 10: 259
- Yeo DCJ, Lim KKP. 2010. *Aplocheilus lineatus*, a non-native killifish (Actinopterygii: Cyprinodontiformes: Aplocheilidae) in Singapore. *Nature in Singapore* 2010(3): 327-332
- Yuliani Y, Yuniaty A, Susanto AH. 2017. Variasi sekuens DNA yang diamplifikasi menggunakan primer ATPB-RBCL pada beberapa kultivar kacang tanah. *Scripta Biologica* 4(1): 11-14
- Yuningsih HD, Anggoro S, Soedarsono P. 2014. Hubungan bahan organik dengan produktivitas perairan pada kawasan tutupan eceng gondok, perairan terbuka dan keramba jaring apung di Rawa Pening Kabupaten Semarang Jawa Tengah. *Management of Aquatic Resources Journal* 3(1): 37-43
- Zein MSA, Fitriana YS, Kurniawan Y, Chaerani K, Sirupang M. 2019. Kajian genetika untuk konservasi badak Sumatera (*Dicerorhinus sumatrensis* Gloger, 1841). *Jurnal Biologi Indonesia* 15(1): 75-87
- Zein MSA, Sulandari S. 2012. Keragaman genetik dan distribusi haplogrup ayam kampung dengan menggunakan hipervariabel-I daerah kontrol DNA mitokondria. *Jurnal Ilmu Ternak dan Veteriner* 17(2): 120-13
- Zhang Z. 2011. Animal biodiversity: an outline of higher-level classification and survey of taxonomic richness (Addenda 2013). *Zootaxa* 3148: 1-237
- Zhao Z, Liang R, Wang Y, Yuan Q, Zhang Z, Li K. 2020. Study on the swimming ability of endemic fish in the lower reaches of the Yangtze River: A case study. *Global Ecology and Conservation* 22(2020): e01014
- Zhou A, Tian P, Li Z, Li X, Tan X, Zhang Z, Qiu L, He H, Ding W, Li Y. 2020. Genetic diversity and differentiation of populations of *Chlorops oryzae* (Diptera, Chloropidae). *BMC Ecology* 20(1): 1-14