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DAFTAR PUSTAKA

Anderson, S., Bankier, A.T., Barrel, B.G., de Bruijin, M.H.L., Coulson, A.R., Drouin, J., Eperon, I.C., Nierlich, D.P., Roe, B.A., Sanger, F., Schreier, P.., Smith, A.J.H., Staden, R., Young, I.G. 1981. Sequence and organization of the mitochondrial genome. *Nature* 290 : 457.

Bahar, M., dan Zein, A. 1993. Parameter genetik pertumbuhan tanaman, hasil dan komponen hasil jagung. *Zuriat* 4(1):4-7.

Baharum, S.N. dan Nurdalila, A.A. 2012. Application of 16SrDNA and cytochrome b Ribosomal Markers in Studies of Lineage and Fish Population Structure of Aquatic Species. *Molecular Biology Report.* 39:5225-5232.

Boore, J.L. 1999. Animal mitochondrial genomes. *Nucleic Acids Research.* 27 (8) : 1767-1780.

Brittan, M. R. 1954. A Revision of the Indo-Malayan freshwater fish Genus *Rasbora*. *Monographs of the Institute of Science and Technology* (Manila) 3(1) : 224.

Britz, R., Conway, K.W., and Ruber, L. 2009. Spectacular morphological novelty in a miniature Cyprinidae fish, *Danionella Dracula*. *Proceeding Biological Science* 276 (1665) : 2179-2186.

Brown, W.M., Hixson, J.E., Foran, R.D. 1988. Comparisons of ape and human sequences that regulate mitochondrial DNA transcription and D-loop DNA synthesis. *Journal of Nucleic Acids Research*. 18(3):1-20.

Bucklin, A., Steinke, D., and Blanko-Bercial, L. 2011. DNA Barcoding of Marine Metazoa. *Annual Review Marine Science* 3:471-508.

Budiharjo, A. 2002. Seleksi dan Potensi budidaya jenis-jenis ikan wader dari Genus *Rasbora*. *BIODOVERSITAS* 3 (2): 225-230.

Campbell, N.A., Reece, J.B., dan Mitchell, L.G. 2002. *Biologi*. Erlangga: Jakarta.

Cawthorn, D., Steinman, H.A., and Witthuhn, R.C. 2012. Evaluation of the 16S and 12S rRNA genes as universal markers for the identification of commercial fish species in South Africa. *Gene* 491 (1) : 40–48

Chang, C.H., Tsai, C.L., Liaw, N.H.J. 2013. Complete mitochondrial genome of The Chines Rasbora, *Rasbora steineri* (Teleostei, Cyprinidae). *The Journal of DNA Mapping, Sequencing, Analysis* 24 (3): 183-185.

Di Finizio, A., Guerriero, G., Russo, G.L., Ciarcia, G. 2007. Identification of Gadoid Species (Pisces, Gadidae) by sequencing and PCR–RFLP analysis of mitochondrial 12S and 16S rRNA gene fragments. *European. Food Research and Technology* 225 : 337–344.

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GADJAH MADA
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Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Es, I.I.K., Gustiano, R., dan Mulyasari. 2011. Karakterisasi genetik ikan kelabau (*Osteochilus kelabau*) dari berbagai lokasi di Kalimantan Barat menggunakan metode RAPD. http://e-journal.biologi.lipi.go.id/index.php/berita_biologi/article/viewFile/762/534. Diakses tanggal 17 Desember 2016.

Eschmeyer, W.N. 2016. Catalog of Fishes: Genera, Species Reference. (http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp) Diakses pada tanggal 21 Juli 2016.

Fishbase. 2016. Scientific Name where Genus Equal *Rasbora*. http://www.fishbase.org/Nomenclature/ScientificNameSearchList.php?Genus=Rasbora#top. Diakses 21 Juli 2016.

Galtier, N., Nabholz, B., Hurst, G.D. 2009. Mitochondria DNA as a marker of molecular diversity : a Reappraisal. *Molecular Ecology* 18(22): 4541—4540.

Gosline, W. A. 1975. The Cyprinid Dermosphenotic and the Subfamily Rasborinae. *Occasional papers of the Museum of Zoology* 673: 1-16.

Handiwirawan, E. 2006. *Keragaman Molekuler dalam Suatu Populasi*. Lokakarya Nasional Pengelolaan dan Perlindungan Sumber Daya Genetik di Indonesia: Manfat Ekonomi untuk Mewujudkan Ketahanan Nasional. Hal: 138-139.

Ho, C.W., Liu,M.Y. and Chen,M.H. 2014. Complete mitochondrial genome of *Rasbora trilineata* (Cypriniformes, Cyprinidae). *Journal of Mitochondrial DNA* 27 (3) : 1755-1757.

Hoar, W.S., Randall, D.J., Brett, J.R. 1979. *Fish Physiologi*. Academic Press. New York.

Horz, H.P., Sebastian, S., Morgana, E.V., George, C. 2010. New methods for selective isolation of bacterial DNA from human clinical specimens. *Anaerobe* 16(1):47–53.

Khedkar, G.D., Jamdade, R., Naik, S., David, L., and Haymer, D. 2014. DNA Barcode for the Fishes of the Narmada, One of India's Longest Rivers. *Plos ONE Journal* 9 (7): e101460.

Kochzius, M., Seidel, C., Antoniou, A., Botla, S.K., Campo, D., Cariani, A., Garcia Vazquez, E., Hauschild, J., Hervet, C., Hjoleifsdottir, S., Hreggvidsson, G., Kappel, K., Landi, M., Magoulas, A., Marteinsson, V., Nolte, M., Planes, P., Tinti, T., Turan, C., Venugopal, M.N., Weber, H., Blohm, D. 2010. Identifying fishes through DNA barcodes and microarrays. PLoS ONE 5(9):e12620.

Kottelat, M. 1984. A new *Rasbora* s.l. (Pisces: Cyprinidae) from Northern Thailand. *Revue Suisse de Zoologie* 91 (3): 717–723.

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. *The Raffles Bulletin of Zoology*, Supplement No. 27, 1-663.

UNIVERSITAS GADJAH MADA
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Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Kullander, S.O. 1998. A Phylogeny and Classification of the South American Cichlidae (Teleostei: Perciformes). In: Malabarba, L.R., Reis, R.E., Vari, R.P., Lucena, Z.M., Lucena, C.A.S. (eds). *Phylogeny and Classification of Neotropical Fishes*. Edipucrs. Porto Alegre.

Lamb, T., Lydeard, C., Walker, R.B., and Gibbons, J.W. 1994. Molecular systematics of map turtles (Graptemys) : a Comparison mitochondrial restriction site versus sequence data. *Systematics Biology*. 43: 543

Lemey, P., Salemi, M., and Vandamme, A.M. 2009. *The Pylogenetic Handbook: Practical Approach to Phylogenetic Analysis and Hypothesis Testing.* Cambridge University Press.

Lleonart, J., Taconent, M., Lamboeuf, M. 2006. Integrating information on marine speccies identification for fishery purpose. *Marine Ecology Progress Series Journal* 316: 231-238.

Lumbantobing, D.N. 2010. Four new species of The *Rasbora trifasciata*-complex (Teleostei: Cyprinidae) from northwestern Sumatra, Indonesia. The American Society of Ichtyologist and Herpetologist. *Copeia* 4: 644-670.

Maddison, W. P. and D.R. Maddison. 2010. Mesquite: a Modular System for Evolutionary Analysis. Version 2.73. http://mesquiteproject.org

Meyer, A., Ritchie, P.A., and Witte, K.E. 1995. Predicting developmental processes from evolutionary patterns : a Molecular phylogeny of the zebrafish (*Danio rerio*) and its relatives. *Philosophical Transaction of The Royal Society B Biological Science* 349 (1327) : 103-111.

Muchlisin, Z.A., Fadli, N., Rudi, E., Mendo, T., and Azizah, M.N.S. 2011. Estimation of production trend of the Depik, *Rasbora tawarensis* (Teleostei, Cyprinidae) in Lake Laut Tawar, Indonesia. *International Journal of The Bioflux Society*. 4(5) : 591.

Muchlisin, Z.A., Fadli, N., and Mendo, T., Azizah, M.N.S. 2012. Aquaculture, aquarium, conservation and legislation. *International Journal of The Bioflux Society*. 4 (5) : 591.

Muchlisin, Z.A., Fadli, N., and Azizah, M.N.S. 2012. Genetic variation and taxonomy of *Rasbora* Group (Cyprinidae) from Lake Laut Tawar, Indonesia. *Journal of Ichtyology* 52 (4) : 284-290.

Nelson, J.S 2006. *Fishes of the World*. 4th ed. John Willey and Sons.

Odum, E.P. 1971. *Fundamentals of Ecology*. W. B. Saunders. New York.

Okeyo, D.O 1999. Herbivore in Fresh Water. *International Journal of Aquaculture Bamidgeh* 41: 79.

Palumbi, S.R. 1996. Nucleid acids II: The Polymerase Chain Reaction. In: *Molecular Systematics*, (Eds.) D.M. Hillis, C. Moritz, B.K. Mable, Sinauer Associates, Sunderland. Massachusetts.

UNIVERSITAS GADJAH MADA
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Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Pangastuti, A. 2006. Definisi spesies prokariota berdasarkan urutan basa penyandi 16S rRNA dan gen penyandi protein. *Jurnal Biodiversitas* (7) : 293.

Parichy, D.M. and Johnson, S.L. 2001. Zebrafish hybrids suggest genetic mechanisms for pigment pattern diversification in Danio. *Developmental Genes and Evolution* 211 (7) : 319-328.

Pe´rez-Losada, M., Maigualida, R., Jonathon, C.M.,, and Jorge, D. 2009. Phylogenetic assessment of the earthworm aporrectodea caliginosa species complex (Oligochaeta: Lumbricidae) based on Mitochondrial and nuclear DNA sequences. *Molecular Phylogenetic and Evolution* 52(2) : 293–302.

Sambrook, J. and Russell, D. W. 2001. *Molecular Cloning: A Laboratory Manual*, Vol. 1, 3th ed. Coldspring Harbor Laboratory Press, New York.

Schonewald-Cox, C.M., Chambers, S.M., Macbryde, B., and Thomas, W.L. 1983. *Genetics and Conservation*. The Benjamin Cummings Publishing Company. London.

Sharma, P. and Giribet, G. 2009. Sandokanid phylogeny based on eight molecular markers the Evolution of a Southeast Asian Endemic Family of Laniatores (Arachnida, Opiliones). *Molecular Phylogenetic Evolution* 52(2):432–447.

Stackebrandt, E., and Goebel, B.M. 1995. A Place for DNA-DNA reassociation and 16S rRNA sequence analysis in the present species definition of bacteriology. *International Journal of Systematic Bacteriology.* 4: 846-849.

Suprapto dan Kairudin, N.M. 2007. Variasi Genetik, heritabilitas, tindak gen, dan kemajuan genetik kedelai pada ultisol. *Jurnal Ilmu Pertanian Indonesia.* 9 (2): 188.

Tamura, K., Glen, S., Peterson, D., Filipski, A., and Kumar, S,. 2013. MEGA6: Molecular Evolutionary Genetics Analysis version 6.0. *Molecular Biology Evolution*. 30 (12) : 2725-2729.

Tang, K.L., Agnew,M.K., Hirt,M.V., Sado,T., Schneider,L.M., Freyhof,J., Sulaiman, Z., Swartz,E., Vidthayanon,C., Miya,M., Saitoh,K., Simons,A.M., Wood,R.M. and Mayden,R.L. 2010. Systematics of the Subfamily Danioninae (Teleostei : Cypriniformes : Cyprinidae). *Molecular Phylogenetics and Evolution* 57 (1) : 189-214.

Thacker, C.E. 2003. Molecular phylogeny of the Gobioid fishes (Teleostei: Perciformes: Gobioidei). *Molecular Phylogenetics and Evolution*. 26 : 354-368.

Utami, A.T., Sumantadinata, K. dan Palupi N.S. 2006. Potensi usaha keripik ikan wader untuk meningkatkan pendapatan UMKM. *Jurnal Industri Kecil Menengah* (MPI) I(1) :12-13.

Vicente, M.C., Guzman, F.A., Engles, J., Rao, V.R. 2005. Genetic characterization and its use in decision making for the conservation of corp germplasm. *The Role of Biotechnology* : 121-123.

UNIVERSITAS
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Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Wijaya, C.Y. 2015. *Taksonomi Kimiawi dan Molekular Isolat Aktinomisetes dari Jambi, Timor, dan Lombok*. Skripsi. Fakultas Biologi UGM.

Yang, L., Sado, T., Vincent H.M., Pasco-Viel, E., Arunachalam, M., Li, J., Wang, X., Freyhof, J., Saitoh, K., Simons, A.M., Miya, M., He, S. and Mayden, R.L. 2015. Phylogeny and polyploidy: Resolving the classification of Cyprinine fishes (Teleostei: Cypriniformes). *Molecular Phylogenetic and Evolution*. 85C, 97-116