

## DAFTAR PUSTAKA

- AmphibiaWeb. 2014. Information on Amphibian Biology and Conservation. <http://amphibianweb.org/>. 2 Januari 2014.
- Arlyza, I. S dan Adrim, M. 2007. Hubungan Filogenetik Antara Tiga Karakter Motif Ikan Pari *Himantura gerrardi* Berdasarkan 12S rRNA dan 16S rRNA DNA Mitokondria. *Oseanologi dan Limnologi di Indonesia*. 33 : 65-79.
- Asma, S. T. 2001. *Stuffed Animals and Pickled Heads. The Culture and Evolution of Natural History Museums*. Oxford University Press.
- Avise, J. C. 1994. *Molecular Marker, Natural History and Evolution*. Chapman & Hall. ITP Company. New York.
- Barber, A. J., M. J. Crow, J. S. Milsom. 2005. *Sumatera: Geology, Resources and Tectonic Evolution*. Geological Society Memoir. London.
- Berg, L. 2008. *Introductory Botany. Plants, People, and the Environment*. Second Edition. Thomson Corporation. Amerika.
- Bomford, M. 2008. Risk Assessment Models for Establishment of Exotic Vertebrates in Australia and New Zealand. Invasive Animals Cooperative Research Centre. Canberra.
- Boore, J. L. 1999. Survey and Summary Animal Mitochondrial Genomes. *Nucleic Acids Research*. Vol. 27, No. 8. 1767–1780.
- Bradley, R. D and Baker, R. J. 2001. A Test of the Genetic Species Concept : Cytochrome b Sequences and Mammals. *Journal of Mammalogy*. 82 : 960 – 973.
- Bretagnolle V., C. Attie, E. Pasquet. 1998. Cytochrome b-evidence for validity and phylogenetic relationship of pseudobulweria and Bulweria. *The Auk American University in Kyrgyzstan*. 115 (1); 188-195
- Brinkman, F. S. L and Leipe, D. D. 2001. Phylogenetic Analysis. In: Bioinformatics: A Practical Guide to the Analisys of Gene and Protein. Baxevanis, A.D. and B.F.F. Ouellette (Eds.). John Willey & Sons. pp. 323 – 358.
- Brooks, D. R. 1991. *Phylogeny, Ecology and Behaviour*. University of Chicago Press. London.
- Castresana, J. 2001. Cytochrome b Phylogeny & Taxonomy of Great Apes and Mammals. *Molecular Biology Evolution*. 18 (4): 465–471.

- Campbell, N. A., J. B. Reece, L.G. Matchell. 2003. *Biologi Jilid II*. Erlangga. Jakarta.
- Comber, J. B. 2001. *Orchids of Sumatra*. The Royal Botanic Gardens.
- DIRECTORATE GENERAL OF FOREST PROTECTION AND NATURE CONSERVATION MINISTRY OF FORESTRY. 2003. *Tropical Rainforest Heritage Of Sumatra*. Government of the Republic of Indonesia
- Duellman, W. E and Sweet, S. 1999. Distribution patterns of amphibians in the Nearctic region of North America. In: Duellman WE, ed. Patterns of distribution of amphibians: a global perspective. *Baltimore: Johns Hopkins University Press*. 31–110.
- Elias, M., R. Faria, Z. Gompert, A. Hendry. 2012. Factors Influencing Progress toward Ecological Speciation. *International Journal of Ecology*. 1-7
- Elrod, S dan Stansfield, W. 2002. *Genetika. Edisi Ke Empat*. Erlangga. Jakarta.
- Endler, J. A. 1977. *Geographyc, Variation, Speciation and Clines*. Princeton University. New Jersey.
- Endri, N., F. Nopiansyah, D. Gusman. 2010. *Herpetofauna : Mengenal Reptil dan Amphibia di Taman Nasional Siberut*. Balai Taman Nasional Siberut.
- Feller, A. E and S. B. Hedges. 1998. Molecular Evidence for Early of Living Amphibian. *Molecular Phylogenetics and Evolution*. Vol. 9. No.3. 509-516.
- Freeland, J. R. 2005. *Molecular Ecology*. Open University. England.
- Frost, D. R., T. Grant, J. N. Faivovich, R. H. Bain, A. Haas, C.F.B. Haddad, , R.O. De Sa, A. Channing,, M. Wilkinson, S.C. Donnellan, , C.J. Raxworthy, J. A. Campbell, B.L. Blotto, P. Moler, R.C. Drewes, R.A. Nussbaum, J.D. Lynch, D.M. Green, W.C. Wheeler. 2006. The amphibian tree of life. *Bull. Am. Mus. Natural History*. 297, 1–370.
- Frost, D. R. 2014. Amphibian species of the world: an online reference, Vers. 6.0. Electronic database available via <http://research.amnh.org/vz/herpetology/amphibia/>. Akses 15 Februari 2014
- Gales, N., M. Hindell, R. Kirkwood. 2003. *Marine Mammals. Fisheries, Tourism and Management Issues*. CSIRO Publishing. Australia.

- Grismer, L. L. 2002. *Amphibian and Reptiles of Baja California. Including its Pacific Island and the Island in the Sea of Cortes.* University of California Press. Barkeley and Los Angeles, California.
- Grimaldi, D and Engel, M. S. 2005. *Evolution of the Insects.* Cambridge University Press. New York.
- Gusman, D. 2003. *Morfometri Spesises Katak dari Famili Bufonidae dan Ranidae di Sumatra Barat.* Sripsi Sarjana Biologi, FMIPA, UNAND. Padang.
- Hall, B. K. 1994. *The Hierarchical Basis of Comparative Biology.* Academic Press Inc. California.
- Hall, R. 1997. *Cenozoic Plate Tectonic Reconstructions of SE Asia.* SE Asia Research Group, Department of Geology, Royal HallowayUniversity of London.
- Hall, R. 2001. *Cenozoic Reconstruction of SE and The SW Pacific : Changing Patterns of Land and Sea.* In Metcalfe, I., J.M.B.Smith, M. Morwood and I. D. Davidson. Faunal and Floral Migration and Evolution in SE Asia Australia. 35-56.
- Hall, T. A. 1999. BioEdit : A User Friendly Biological Sequence Alignment Editor and Analysis Program for Windows 95/98/NT. *Nucleic Acid Symposium Series.* 41 : 95-98.
- Hall, B. K dan B. Hallgrimson. 2012. *Evolution. Fifth Edition.* Dalhousie dan Calgery University Press. America.
- Hase, K., M. Shimada, N. Nikoh. 2012. High Degree of Mitochondrial Haplotype Diversity in the Japanease Common Toad *Bufo japonicus* in Urban Tokyo. *Zoological Science.* 10 : 702-708
- Hay, J. M., I. Ruvinsky, S. B. Hedges and L.R. Maxon. 1995. Phylogenetic Relationship of Amphibian Families Inferred from DNA Sequences of Mitochondrial 12 S and 16 S Ribosomal RNA Genes. *Molecular Biology Evolution.* 12 (5) : 928 -937.
- Hemming, D. 2012. *Animal Science Reviews.* CABI. North America.
- Hou, W. R., Y. Chen, X. Wu, J. C. Hu, Z. S. Peng, J. Yang, Z. X. Tang, C. Q. Zhou, Y. M. Li, S. K. Yang, Y. J. Du, L. L. Kong, Z. L. Ren, H. Y. Zhang, S. Shuai. 2007. A Complete Mitochondrial Genome Sequence Of Asian Black Bear Sichuan Subspecies (*Ursus thibetanus mupinensis*). *International Journal Biology Science.* 3(2):85-90.

- Igawa, T., A. Kurabayashi, M. Nishioka, M. Sumida. 2006. Molecular Phylogenetic Relationship of Toads Distributed in the Far East and Europe Inferred from the Nucleotide Sequences of Mitochondrial DNA genes. *Molecular Phylogenetics and Evolution*. 38 : 250-260.
- Inger, R. F and Lian, T.F. 1996. Checklist of the Frog of Borneo. *The Raffles Bulletin of Zoology*. 44 (2) : 551-574.
- Inger, R. F and Stuebing, B. R. 2005. *A Field Guide to the Frogs of Borneo*. Natural History Publications.
- Iskandar, D.T. 1998. *Amphibi Jawa Bali*. Seri Panduan Lapangan. Puslitbang Biologi LIPI. Bogor.
- Iskandar, D. T and Mumpuni, 2004. A new Toad of the Genus Ansonia (Amphibia, Anura, Bufonidae) from Sumatera, Indonesia. *Hamadryad*. 28 (1-2) : 59 – 65
- Johns, G. C. and Avise, J. C. 1998. A comparative summary of genetic distances in the vertebrates from the mitocondrial cytochrome b Gene. *Molecular Biology Evolution*. 15: 1481-1490.
- Kartavtsev, Y. P and J, S. Lee. 2006. Analysis Nucleotide Diversity at the Cytochrome b and Cytochrome Oxidase I Genes at Population, Species and Genus Levels. *Russian Journal of Genetic*. 42 : 341 – 362.
- Kephart, D. 1999. Rapid Isolation of Genomic DNA from Small quantities of Human Tissue. <https://www.promega.com/profiles/203/profilesin>. 4 September 2014.
- Kim, K. I., J. H. Lee, K. Li, Y. P. Zhang, S.S. Lee, J. Gongora, C. Moran. 2002. Phylogenetic Relationships of Asian and European Pig Breeds Determined By Mitochondrial Dna D-Loop Sequence Polymorphism. *Animal Genetics*. 33(1):19-25.
- Kocher, T. D., W. K. Thomas, A. Meyer, S. V. Edwards, S. Paabo, F. X. Villablanca, A.C. Wilson. 1989. Dynamics of Mitochondrial DNA Evolution In Animals: Amplification and Sequencing With Conserved Primers. *Proceedings of Natural Academy of Sciences of the United States of America*. 86 : 6196-6200.
- Kurniawan, N., M. M. Islam, T.H. Djong, T. Igawa, M. B. Daicus, H. S. Yong, R. Wanichanon, M. R. Khan, D. T. Iskandar, M. Nishioka, M. Sumida. 2010. Genetic Divergence and Evolutionary Relationship in *Fejervarya cancrivora* from Indonesia and Other Asian Countries Inferred from

- Allozyme and MtDNA Sequence Analyses. *Zoological Science*. 27 : 222-233.
- Lewin, B. 2011. *Gene X*. Oxford University Press. London.
- Li, S., D. Pearl and H. Doss. 1999. *Phylogenetic tree construction using Markov Chain Monte Carlo*. Fred Hutchinson Cancer Research Center Washington.
- Linacre, A. 2009. *Forensic Science in Wildlife Investigations*. CRC Press. Amerika.
- Liu, W., A. Lathrop, J. Fu, D. Yang dan R. W. Murphy. 2000. Phylogeny of East Asian Bufonids Inferred from Mitochondrial DNA Sequences (Anura: Amphibia). *Molecular Phylogenetics and Evolution* Vol. 14, No. 3, pp. 423- 435.
- Liu, Z. Q., Y. Q. Wang, B. Su. 2004. The Mitochondrial Genome Organization Of The Rice Frog, *Fejervarya Limnocharis* (Amphibia: Anura): A New Gene Order In The Vertebrate MtDNA. Elsevier.
- Li, Q. and Y. Zhang. 2005. Phylogenetic Relationships Of The Macaques (Cercopithecidae: *Macaca*), Inferred From Mitochondrial DNA Sequences. *Biochemical Genetics*. 43:375-386
- Malkmus, R., U. Manthey, G. Vogel, P. Hoffmann, J. Kosuch. 2002. *Amphibians & Reptiles of Mount Kinabalu*. A.R.G. Getnar Verlag. Germany.
- Mayr, E. 1970. *Population, Species and Evolution. An Abridgment of Animal Species and Evolution*. Harvard University Press. America.
- Miller, G. T and Spoolman, S. E. 2012. *Essentials of Ecology*. National Geographic Learning. Canada.
- Mistar. 2003. *Panduan Lapangan Amphibi Kawasan Ekosistem Leuser*. PILI-NGO Movement. Bogor.
- Meyer, A. 1994. Shortcomings Of The Cytochrome *b* Gene As A Molecular Marker. *Trends in Ecology and Evolution*. 9:278–280.
- Muladno. 2002. *Teknologi Rekayasa Genetik*. Pustaka Wirausaha Muda. Bogor.
- Mulcahy, D. G dan J. R Mendelson. 2000. Phylogeography and Speciation of the Morphologically Variable, Widespread Species *Bufo valliceps*, Based on Molecular Evidence from mtDNA. *Molecular Phylogenetics and Evolution* Vol. 17, No. 2, pp. 173–189.
- Nei, M and Kumar, S. 2000. *Molecular Evolution and Phylogenetics*. Oxford University Press. New York.

- Nei, M. and S. Kumar. 2002. *Molecular Evolutionary Genetics Analysis Version 5.0*. Inst. of Molecular Evolutionary Genetics. Pennsylvania State University. Pennsylvania.
- Nesty, R. 2013. *Variasi Morfometrik Kodok Duttaphrynus melanostictus (Schneider, 1799) (Anura: Bufonidae) di Sumatera Barat yang Dipisahkan oleh Bukit Barisan*. Skripsi Jurusan Biologi. FMIPA. Universitas Andalas.
- Orlov, N. L., R. W. Murphy, N. B. Ananjeva, S.A. Ryabov, H. T. Cuc. 2002. Herpetofauna of Vietnam, a Checklist. Part I. Amphibia. *Russian Journal of Herpetology*. Vol. 9. No.2. 81-104.
- Palit, E. I. Y., A. Sroyer, H. M. B. Bolly, 2012. Analisis Filogenetik Daerah D-Loop DNA Mitokondria Manusia Pada Populasi Papua Melalui Proses Markov. *Prosiding INSINAS*.
- Paradis, E. 2012. *Analysis of Phylogenetics and Evolution With R. Second Edition*. Springer Science. New York.
- Port Phillip and Western Port Invasive Plant and Animal Strategy PPCWMA. 2011. *Port Phillip and Western Port Invasive Plant and Animal Strategy*. Port Phillip and Western Port CMA, Victoria.
- Pyron, R.A dan Wiens, J.J. 2011. A Large-Scale Phylogeny of Amphibia Including Over 2800 Species, And A Revised classification of extant frogs, salamanders, and caecilians. *Molecular Phylogenetics and Evolution*. Elsevier. 61: 543–583.
- Rapley, R dan Whitehouse, D. 2007. *Molecular Forensics*. John Wiley & Sons Ltd. England.
- Ren, Z., B. Zu. E. Ma. E, Wen. J, Tu. T, Y. Cao, M. Hasegawa, Y. Zong. 2009. Complete Nucleotide Sequence and Gene Arrangement of The Mitochondrial Genome of The Crab-Eating Frog *Fejervarya cancrivora* and Evolutionary Implications. *Gene*. 441 : 148-155.
- Roe, B. A., D. P. Mat, R. K. Wilson, J. F. H. Wong. 1985. The Complete Nucleotide Sequence of the *Xenopus laevis* Mitochondrial Genome. *Biological Chemistry*. Vol. 260, N0.17. 9759 – 9774.
- Roesma, D. I. 2011. *Diversitas Spesies dan Kekerabatan Genetik Ikan-Ikan Cyprinidae di Danau-Danau dan Sungai-Sungai di Sekitarnya di Kawasan Sumatera Barat*. Disertasi Pasca Sarjana Biologi. Universitas Andalas. Padang

- Russel, P. J., P. E. Hertz, B. McMilan. 2011. *Biology. The Dynamic Science. Third Edition.* Canada.
- Schmidt, H. 2003. *Phylogenetic Trees From Large Datasets.* Inaugural Dissertation. Dusseldorf University.
- Schuh, R. T. 2000. *Biological Systematics. Principles and Application.* Cornell University Press. New York.
- Scott, T. A. 1996. *Concise Encyclopedia Biology.* Spektrum Akademischer Verlag GmbH. Heidelberg, Berlin, Oxford.
- Setda Sumbar. 2008. Telematika Elektronik Biro Humas Provinsi Sumatera Barat. <http://www.sumbarprov.gi.id/detail.php?id>. 10 Juli 2013.
- Shaffer, H.B, G. M. Fellers, A. Magee, S. R. Voss. 2000. The Genetics of Amphibian Declines : Population Substructure and Molecular Differentiation in The Yosemite Toads, *Bufo canorus* (Anura, Bufonidae) Based on Singlestrand Conformation Polymorphism Analysis (SSCP) and Mitochondrial DNA Sequence Data. *Molecular Ecology.* No.9, 245-257.
- Sieh, K. 2000. Neotectonics of the Sumatera Fault, Indonesia. *Journal of Geophysical Research.* Vol. 105. 295-326.
- Sofro, A.S.M. 1994. *Keanekaragaman Genetik.* Andi Offset. Yogyakarta.
- Stuart, S., M. Hoffmann, J. Chanson, N. Cox, R. Berridge, P. Ramani, B. Young. 2008. *Threatened Amphibians of The World.* Lynx Edicions, Barcelona, Spain; IUCN, Gland, Switzerland; and Conservation International, Arlington, Virginia, USA.
- Su, X., X. B. Wu, P. Yan, S. Y. Cao, Y. L. Hu. 2007. Rearrangement of A Mitochondrial tRNA Gene Of The Concave-Eared Torrent Frog, *Amolops Tormotus.* *Gene.* Vol. 394 : 25-34.
- Sudiana, I. K. 2008. *Patobiologi Molekuler Kanker.* Salemba Medika. Jakarta.
- Suhardjono, Y. R. 1999. Buku pegangan pengelolaan koleksi spesimen zoologi. Puslitbang Biologi LIPI. CV. Riza Graha Jaya. Bogor
- Sumida, M., M. Ogata, H. Kaneda, H. Yonekawa. 1998. Evolutionary Relationship Among Japanese Pond Frogs Inferred from Mitochondrial DNA Sequences of Cytochrome b and 12 S Ribosomal RNA Genes. *Genes and Genetic Systems.* 73: 121-133.

- Supriatna, J. 2008. *Melestarikan Alam Indonesia*. Yayasan Obor Indonesia. Jakarta.
- Swain, D. P., J. A. Hutchings, C. J. Foote. 2005. *Environmental and Genetic Influences on Stock Identification Characters*. Elsevier Academic Press.
- Tamura K, Peterson D, Peterson N, Stecher G, Nei M and Kumar S. 2011. MEGA 5: Molecular Evolutionary Genetics Analysis using Maximum Likelihood, Evolutionary Distance, and Maximum Parsimony Methods. *Molecular Biology Evolution*. 10: 2731-9.
- Thompson, J. D., T.J. Gibson, F. Plewniak, F. Jeanmougin, D.G. Higgins. 1997. The Clustal X Windows Interface : Flexible Strategies for Multiple Sequence Alignment Aided by Quality Analysis Tools. *Nucleic Acids Research*. 24 : 4876 – 4882.
- Tjandra, L. 2012. *Analisis filogenetik Bufo melanostictus, schneider, 1799 dan Bufo asper, gravenhorst, 1829 (Bufonidae) sumatera barat dan Kawasan asia dengan gen 16s rrna dan sitokrom b*. Tesis Pasca Sarjana Biologi. Universitas Andalas. Padang
- Tjong, D. H. 2003. *Hubungan Filogenetik Beberapa Spesies Limnonectes (Ranidae :Amphibia) yang Terdapat di Sumatera Barat Didasarkan atas Gen 16S Ribosomal RNA*. Tesis Magister. Bidang Khusus Genetika dan Biologi Molekular. Program Studi Biologi. Program Pasca Sarjana. Institut Teknologi Bandung.
- Tjong, D. H., M. Matsui, M. Kuramoto, D. M. Belabut, Y. H. Sen, M. Nishioka, M. Sumida. 2007. Morphological Divergence, Reproductive Isolating Mechanism and Molecular Phylogenetic Relationships Among Indonesia, Malaysia and Japan Populations of the Fejervarya limnocharis Complex (Anura, Ranidae). *Zoological Science*. 24 : 1197-1212.
- Trenham, P. C and H.B. Shaffer,. 2005. Amphibian Upland Habitat Use and Its Consequences for Population Viability. *Ecological Applications* 15(4), pp 1158-1168
- Van Kampen, P. N. 1923. *The Amphibia of the Indo-Australian Archipelago*. E.J. Brill, Leiden.
- Vences, M., F. Andreone, F. Glaw, J. E. Rnadrianirina. 2003. Molecular and Bioacoustic Divergence in Mantidactylus granulates and M. zavona n.sp (Anura : Mantellidae) : Bearing for the Biogeography of Northern Madagascar. *African Zoology*. 38 (1) : 67-78
- Vences, M., j. Kasuch, M.O. Rodel, S. Lotters, A. Channing, F. Glaw, W. Bohme. 2004. Phylogeography of Ptychadena mascareniensis Suggests

- Transsoceanic Dispersal in a Widespread of African Malagasy Frog Lineage. *Journal of Biogeography*. 31: 593-601.
- Voris, H. K. 2000. Maps of Pleistocene Sea Levels In Southeast Asia: Shorelines, River Systems And Time Durations. *Journal of Biogeography*. 27:1153-1167
- Watson, J. D and F. H. C. Crick. 2009. *The Structure of DNA*. Cavendish Laboratory, Cambridge. England
- Wheeler, W. C. 2012. *Systematics. A Course of Lectures*. Wiley Blackwell
- Whitten, T., S, J. Damanik, J. Anwar, N. Hisyam. 1997. *The ecology of Sumatra. The Ecology of Indonesia Series Vol. I*. Oxford University Pres.
- Widodo. 2003. *Evolusi (Program Semi Que-IV)*. Direktorat Pendidikan Tinggi. Proyek Peningkatan Manajemen Pendidikan Tinggi Departemen Pendidikan Nasional.Jakarta.
- Wiley, E. O and Lieberman, B. S. 2011. *Phylogenetics. Theory and Practise of Phylogenetics and Systematic. Second Edition*. John Wiley and Sons Inc. Canada.
- Yirka, B. 2014. Call Put Out to Eradicate Invasive Toad From Madagascar Before it Wreaks Environmental Damage. PHYS.Org. <http://phys.org/news/2014-05-eradicate-invasivetoad-madagascar-wreaks.html>
- Yuwono, P. 2005. *Biologi Molekuler*. Erlangga. Jakarta.
- Zang, J. V., L. W. Nie, Y. Wang, L. L. Hu. 2009. The Complete Mitochondrial Genome of The Large-Headed Frog, Limnonectes bannaensis (Amphibia: Anura), and A Novel Gene Organization In The Vertebrate mtDNA. *Gene*. 442 : 119-127.
- Zein, M. S. A dan Sulandari, S. 2009. Investigasi Asal Usul Ayam Indonesia Menggunakan Sekuens Hypervariable-1 D-Loop DNA Mitokondria. *Jurnal Veteriner*. Vol. 10 No. 1 : 41-49.
- Zehender, M., G. Breithardt, H. Just. 2000. *From Molecule to Men, Molecular Basis of Congenital Cardovascular Disorders*. Darmstadt, Steinkopff, Springer. Newyork.
- Zug, G. R. 1993. *Herpetology in Introductory Biology of Amphibians and Reptiles*. Academic Press Inc. San Diego, California.