

DAFTAR PUSTAKA

- Arnason, U., J. A. Adegoke., K. Bodin., E. W. Born., Y. B. Esa., A. Gullberg., M. Nilsson., R. V. Short., X. Xu and A. Janke. 2002. Mammalian Mitogenomic Relationship and The Root of the Eutherian Tree. *PNAS* 99(12): 8151-8156.
- Asrori, I., D. H. Tjong., W. Novarino., Mansyurdin., Syaifulah., D. I. Roesma. 2023. DNA Primer Design for Sex Identification of Sumatran Tiger Body Samples. *Biodiversitas* 24(1): 241-249.
- Asy'ari, M., A. S. Noer. 2005. Optimasi Konsentrasi MgCl₂ dan Suhu Annealing Pada Proses Amplifikasi Multifragmens mtDNA Dengan Metoda PCR. *J. Kim. Sains & Apl* 8(1).
- Borah, P. 2011. Primer Designing for PCR. *Science Vision* 11(3): 134-136.
- Branicki, W. T. Kupiec, and R. Pawlowski. 2003. Validation of cytochrome b sequence analysis as a method of species identification. *J. Forensic Sci* 48(1): 83–87.
- Brown W. M., M. J. George., A. C. Wilson. 1979. Rapid evolution of animal mitochondrial DNA. *A Proc Nat Acad Sci USA* 76(4):1967–1971.
- Challender D. 2011. Asian pangolins: increasing affluence driving hunting pressure. *Traffic Bull* 23(3): 92–93.
- CITES. 2016. *Manis crassicaudata*, *Manis pentadactyla*, *Manis javanica*. Transfer from Appendix II to Appendix I (India, Nepal, Sri Lanka, United States). https://cites.org/sites/default/files/eng/cop/17/prop/060216/ECoP17Prop_11.pdf. Diakses tanggal 15 Januari 2023.
- Desjardins, P and D. Conklin. 2011. NanoDrop Microvolume Quantitation of Nucleic Acids. *Journal of Visualized Experiments and Thermo Fisher Scientific* 45: 11-5.
- Diss, T. 2003. *Molecular Biology in Cellular Pathology*. United Kingdom. Willey. 375 Hal.
- Encounter South Africa. W.H.U. 2007. Pangolins. <http://www.encounter.co.za/article/163.html>. Diunduh 15 Januari 2023.
- Ewing, B., L. Hillier., M. C. Wendl dan P. Green. 1998. Base-Calling of Automated Sekuenr Traces Using Phred. I. Accuracy Assessment. *Genome Res* 8 : 175–185.

- Februani, N., D. H. Tjong., W. Novarino., Mansyurdin., Syaifulah., D. I. Roesma. 2023. Haplotype diversity of Pangolin (*Manis javanica* Desmarest, 1822) based on the CO1 gene. *World Journal of Advanced Research and Reviews* 19(03): 484-490.
- Frankham, R., J. D. Ballou and D. A. Briscoe. 2010. *Introduction to conservation genetics, Second edition*. United States: Cambridge University Press. New York. 96-122.
- Frank, J. A, C. L. Reich, S. Sharma, J. S. Weisbaum, B. A. Wilson and G. J. Olsen. 2008. Critical Evaluation of Two Primers Commonly Use for Amplification of Bacterial 16S rRNA Genes. *Applied and Environmental Microbiology* 74: 2461–2470.
- Folmer, O., M. Black, W. Hoeh, R. Lutz and R. Vrijenhoek. 1994. DNA Primers for Amplification of Mitochondrial Cytochrome C Oxidase Subunit I from Diverse Metazoan Invertebrates. *Mol Mar Biol Biotechnol* 3(5): 294–9.
- Gaubert P. 2011. *Family Manidae*. In: Wilson DE, Mittermeier RA, editors, Handbook of the mammals of the world. Vol. 2. Hoofed mammals. Barcelona (Spain): Lynx Edicions. p. 82–103.
- Gaubert, P., F. Njiokou., G. Ngua., K. Afiaademanyo., S. Dufour., J. Malekani., S. G. Bi., C. Tougard., A.Olayemi., E. Danquah., C. A. M. S. Djagoun., P. Kaleme., C. N. Mololo., W. Stanley., S. J. Luo and A. Antunes. 2016. Phylogeography of the Heavily Poached African Common Pangolin (Pholidota, *Manis tricuspis*) Reveals Six Cryptic Lineages As Traceable Signatures of Pleistocene Diversification. *Molecular Ecology* 25(23):5975-5993.
- Gaubert P., A. Antunes., H. Meng., L. Miao., S. Peigne., F. Justy., F. Njiokou., S. Dufour., E. Danquah., J. Alahakoon., E. Verheyen., W. T. Stanley., S. J. O'Brien., W. E. Johnson and S. J. Luo. 2018. The Complete Phylogeny of Pangolins : Scaling Up Resource for the Molecular Tracing of the Most Trafficked Mammals on Earth. *Journal of Heredity* 109(4): 347-359.
- Gomez, L., B. T. C. Leupen., K. Krishnasamy and S. Heinrich. 2017. Pemetaan Penyitaan Trenggiling di Indonesia. TRAFFIC. Indonesia. https://www.traffic.org/site/assets/files/1737/penyitaan-penyitaan_trenggiling-diindonesia2010-2015.pdf. Diakses 15 Januari 2023.
- 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.

- Harclerode, F. M. M., R. E. Strauss., F. Fulhorst., M. L. Milazzo., D. C. Ruthven and R. D. Bradley. 2007. Molecular Evidence for High Levels of Intrapopulation Genetic Diversity in Woodrats (*Neotoma micropus*). *Journal of Mammalogy* 88 (2) : 360–370
- Hassanin, A., J. P. Hugot and B. J. V. Vuuren. 2015. Comparison of Mitochondrial Genome Sequences Of Pangolins (Mammalia, Pholidota). *Comptes Rendus Biologies* 338: 260-265.
- Heinrich, S., T. A. Wittmann., T. A. A. Prowse., J. V. Ross., S. Delean., C. R. Shepherd and P. Cassey. 2016. *Global Ecology and Conservation* 8: 241-253.
- Hsieh, H. M., J. C. I. Lee., J. H. Wu., C. A. Chen., Y. J. Chen., G. B. Wang., S. C. Chin., L. C. Wang., A. Linacre and L. C. Tsai. 2011. Establishing the Pangolin Mitochondrial D-loop Sequences From the Confiscated Scale. *Forensic Science International: Genetic* 5: 303-307.
- IUCN International Union for Conservation of Nature and Natural Resources. 2019. *Manis javanica*. <http://www.redlist.org>. Diakses tanggal 15 Januari 2023.
- Kumar SG, Stecher and Tamura K. 2016. MEGA 7. Molecular Evolutionary Genetics Analysis version 7.0 for bigger datasets. *Molecular Biology and Evolution* 33: 1870-1874.
- Kumar, V. P., A. Rajpoot., A. Srivastav., P. Niagam., V. Kumar., M. A and S. P. Goyal. 2018a. Phylogenetic Relationship and Molecular Dating of Indian Pangolin (*Manis craccicaudata*) with Other Extant Pangolin Species Based on Complete Cytochrome b Mitochondrial Gene. *Mitochondrial DNA Part A* 29(8): 1276-1283.
- Kumar, V. P., A. Rajpoot., M. Shukla., P. Niagam and S. P. Goyal. 2018b. Inferring the Molecular Affinity of Indian Pangolin With Extant Manidae Species Based on Mitochondrial Genes: A Wildlife Forensic Perspective. *Mitochondrial Part B* 3(1): 640-644.
- Kuswanda, W and T. Setyawati. 2016. Preferensi Habitat Trenggiling (*Manis javanica* Desmarest, 1822) Di Sekitar Suaka Margasatwa Siranggas, Sumatra Utara. *Jurnal Penelitian Hutan dan Konservasi Alam* 13:43-56
- Ladoukakis, E. D dan E. Zouros. 2017. Evolution and inheritance of animal mitochondrial DNA: rules and exceptions. *Journal of Biological Research Thessaloniki* 24: 2.

- Lexa, M., J. Horak and B. Brzobohaty. 2001. Virtual PCR. *Bioinformatics* 17(2): 192-193.
- Lim, N. T. L and P. K. L. Ng. 2008. Home Range, Activity Cycle And Natal Den Usage Of Female Sunda Pangolin *Manis javanica* (Mammalia: Pholidota) In Singapore. *Endangered Species Research* 4: 233-240.
- Li, W., S. Gong., L. Hua., Y. Ge., F. Wang and F. Hou. 2015. Complete Mitochondrial Genome Sequence For the Malayan Pangolin *Manis javanica* (Pholidota, Manidae). *Conservation Genet Resources* 7: 685-687.
- Lyons, D. M and A. S. Lauring. 2017. Evidence for the selective basis of transitiontransversion substitution bias in two RNA viruses. *Molecular Biology and Evolution* 34(12):3205-3215.
- Meyer, S., G. Weiss., A. Von. Haeseler. 1999. Pattern of nucleotide substitution and rate heterogeneity in the hypervariable regions I and II of human mtDNA. *Genetics*. 152(3):1103–1110
- Mwale, M., D. L. Dalton., R. Jansen., M. D. Bruyn., D. Pietersen., P. S. Mokgokong and A. Kotze. 2017. Forensic Application of DNA Barcoding for Identification of Illegally Traded African Pangolin Scales. *Genome* 60(3): 272-284.
- Nash, H.C., Wirdateti., G. W. Low., S. W. Choo., J. L. Chong., G. Semiadi., R. Hari., M. H. Sulaiman., S. T. Turvey., T. A Evans and F. E Rheindt. 2018. Conservation Genomics Reveals Possible Illegal Trade Routes And Admixture Across Pangolin Lineages in Southeast Asia. *Conservation Genetics* 19 : 1083–1095.
- [NCBI] National Centre for Biotechnology Information. 2021. *GenBank*. Tersedia di <https://www.ncbi.nlm.nih.gov/probe/docs/techpcr/> [diakses 15 Januari 2023].
- Nei, M dan S. Kumar. 2000. *Molecular Evolution and Phylogenetics*. Oxford University Press Inc. New York.
- Nicholls, T. J and Michal, M. 2014. In D-loop: 40 years of mitochondrial 7S DNA. *Experimental Gerontology* 56: 176-181.
- Patwardhan, A., S. Ray and A. Roy. 2014. Molecular Markers in Phylogenetic Studies-A Review. *J Phylogen Evolution Biol* 2(2): 131.
- Pearson, W. R. 2013. An Introduction to Sequence Similarity (“Homology”) Searching. *Curr Protoc Bioinformatics*. 42 : 3.1.1 - 3.1.8.

- PermenLHK. 2018. *Peraturan Menteri Lingkungan Hidup Dan Kehutanan Republik Indonesia Nomor P.20/Menlhk/Setjen/Kum.1/6/2018 Tentang Jenis Tumbuhan Dan Satwa Yang Dilindungi*. Jakarta.
- Rozas, J., D. B. Sanches., J. C. Messeguer and X. R. Rozas. 2003. DnaSP, DNA Polymorphism Analyses by The Coalescent and Other Methods. *Bioinformatics* 19:2496–2497.
- Sambrook, J and D. W. Russell. 2001. *Molecular Cloning: A Laboratory Manual*. 3rd Edition, Cold Spring Harbor Laboratory Press, New York
- Sawitri, R., M. Takandjanji., M. S. A. Zein., dan A. Rianti. 2014. Keragaman Genetik dan Distribusi Haplogroup Trenggiling (*Manis javanica* Desmarest, 1822). *Jurnal Penelitian Hutan dan Konservasi Alam* 11(2): 113-125
- Sawitri, R dan M. Takandjandji. 2014. Keragaman Genetik dan Situs Polimorfik Trenggiling (*Manis javanica* Desmarest, 1822) di Penangkaran. *Jurnal Penelitian Hutan dan Konservasi Alam* 11(1): 1-11.
- Soewu, D. A and I. A. Ayodele. 2009. Utilisation of Pangolin (*Manis ssp*) in traditional Yorubic medicine in Ijebu province, Ogun State, Nigeria. *Journal of Ethnobiology and Ethnomedicine* 5(39): 1-11.
- Stoneking, M. 2000. Hypervariable Sites in the mtDNA Control Region Are Mutational Hotspot. *Am. J. Hum. Genet* 67: 1029-1032.
- Sun, N. C. M., S.P. Chang., J. S. Lin., Y. W. Tseng., K. J. C. Pei., and K. H. Hung. 2020. The Genetic Structure and Mating System of a Recovered Chinese Pangolin Population (*Manis pentadactyla* Linnaeus, 1758) as Inferred by microsatellite markers. *Global Ecology and Conservation* 23:e01195.
- Swindell, S.R., Plasterer, T.N. 1997. SEQMAN. In: Swindell, S.R. (eds) Sequence Data Analysis Guidebook. Methods In Molecular Medicine™, vol 70. Springer, Totowa, NJ. <https://doi.org/10.1385/0-89603-358-9:75>.
- Takandjandji, M and R. Sawitri. 2016. Ukuran Morfometrik dan Meristik Pada Trenggiling Jawa (*Manis javanica* Desmarest, 1822) dari Pulau Sumatra, Jawa dan Kalimantan. *Bulletin Plasma Nutfah* 22(2):149-160.
- Tobe, S. S., A. M. Linacre. 2008. A Multiplex Assay to Identify 18 European Mammal Species From Mixtures Using the Mitochondrial Cytochrome b Gene. *Fast Track* 29: 340-347.

- Trianom B, T Arwiyanto, and T Joko. Development of Novel Subsp₆₇iesSpecific Primers Based on the Endoglucanase Gene for Detection of *Ralstonia syzygii* subsp. *Syzygii*. *Jurnal Perlindungan Tanaman Indonesia* 22(2): 124–131.
- Untergasser, A., H. Nijveen., X. Rao., T. Bisseling., R. Geurts and J. A. M. Leunissen. 2007. Primer3Plus, an enhanced web interface to Primer3. *Nucleic Acids Research* 35: W71–W74.
- Wang C. 2016. Primer Design. Centre for Medical Parasitology University of Copenhagen, Denmark. *Health Science*. 33 Hal.
- Weeks, A. R., J. Stoklosa., A. A. Hoffmann. 2016. Conservation of genetic uniqueness of populations may increase extinction likelihood of endangered species: the case of Australian mammals. *Frontiers in Zoology* 13:31.
- Wirdateti., G. Semiadi and Yulianto. 2013. Identifikasi Trenggiling (*Manis javanica*) Menggunakan Penanda Cytochrome b Mitokondria DNA. *Jurnal Veteriner* 14(4):467-474.
- Wirdateti and G. Semiadi. 2017. Variasi Genetik Trenggiling Sitaan di Sumatra, Jawa, dan Kalimantan Berdasarkan Control Region DNA Mitokondria. *Jurnal Veteriner* 28(2): 181-191.
- Ye, J., G. Coulouris., I. Zaretskaya., L. Cutcutache., S. Rozen and T. L. Madden. 2012. Primer-Blast: A Tool to Design Target-Specific Primers For Polymerase Chain Reaction. *BMC Bioinformatics* 13:134.
- Zein, M. S. A. 2020. Pelacakkan Molekuler Terhadap Hasil Sitaan Karkas Trenggiling Pada Perdagangan Ilegal di Indonesia Berbasis Gen Barkode. *Jurnal Biologi Indonesia* 16(1): 13-23.