

DAFTAR PUSTAKA

- Akram, F., Shah, F.I., Ibrar, R., Fatima, T., ul Haq, I., Naseem, W., Gul, M.A., Tehreem, L., & Haider, G., 2023. Bacterial thermophilic DNA polymerases: A focus on prominent biotechnological applications. *Analytical Biochemistry*, 671, p.115150.
- Al-Griw, H. H., Zraba, Z. A., Al-Muntaser, S. K., Draid, M. M., Zaidi, A. M., Tabagh, R. M., & Al-Griw, M. A. 2017. Effects of storage temperature on the quantity and integrity of genomic DNA extracted from mice tissues: A comparison of recovery methods. *Open veterinary journal*, 7(3), 239-243.
- Anderson, S., Bankier, A.T., Barrell, B.G., de Bruijn, M.H., Coulson, A.R., Drouin, J., Eperon, I.C., Nierlich, D.P., Roe, B.A., Sanger, F., & Schreier, P.H., 1981. Sequence and organization of the human mitochondrial genome. *Nature*, 290(5806), pp.457-465.
- Asadi, R., & Mollasalehi, H., 2021. The mechanism and improvements to the isothermal amplification of nucleic acids, at a glance. *Analytical biochemistry*, 631, p.114260.
- Avarave, S., & Thomas, J., 2022. A Miniprep DNA Verifiable Method from Denatured Samples for DNA Barcoding and Sequencing Applications. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 92(2), pp.329-340.
- Baca, M., Popović, D., Agadzhanyan, A.K., Baca, K., Conard, N.J., Fewlass, H., Filek, T., Golubiński, M., Horáček, I., Knul, M.V., & Krajcarz, M., 2023. Ancient DNA of narrow-headed vole reveal common features of the Late Pleistocene population dynamics in cold-adapted small mammals. *Proceedings of the Royal Society B*, 290(1993), p.20222238.

- Baird, R. W., Mahaffy, S. D., & Lerma, J. K. 2022. Site fidelity, spatial use, and behavior of dwarf sperm whales in Hawaiian waters: using small-boat surveys, photo-identification, and unmanned aerial systems to study a difficult-to-study species. *Marine Mammal Science*, 38(1), pp.326-348.
- Ballmer, E., McNeill, K., & Deiner, K., 2024. Potential Role of Photochemistry in Environmental DNA Degradation. *Environmental Science & Technology Letters*, 11(12), pp.1284-1295.
- Bailleul, A.M., & Li, Z., 2021. DNA staining in fossil cells beyond the Quaternary: Reassessment of the evidence and prospects for an improved understanding of DNA preservation in deep time. *Earth-Science Reviews*, 216, p.103600.
- Barbosa, C., Nogueira, S., Gadanhó, M., & Chaves, S., 2016. *Molecular microbial diagnostic methods*. Cambridge: Academic Press.
- Beauregard, H. 1898. Les cryptogames de l'ambregris. *Annal. Microgr.* (10), pp.241–278.
- Bini, C., Giorgetti, A., Iuvaro, A., Giovannini, E., Gianfreda, D., Pelletti, G., & Pelotti, S., 2021. A DNA-based method for distinction of fly artifacts from human bloodstains. *International journal of legal medicine*, 135(6), pp.2155-2161.
- Brito, C., Jordão, V.L., & Pierce, G.J., 2016. Ambergris as an overlooked historical marine resource: its biology and role as a global economic commodity. *Journal of the Marine Biological Association of the United Kingdom*, 96(3), pp.585-596.
- Buś, M.M., & Budowle, B., 2023. Increasing the Efficiency of Typing Challenged Forensic Biological Samples. In *Forensic DNA Applications* (pp. 141-154). CRC Press.

- Caldwell, D.K. & M.C. Caldwell. 1989. Pygmy sperm whale *Kogia breviceps* (de Blainville, 1838). Dwarf sperm whale *Kogia simus* Owen, 1866. *Dalam*: S.H. Ridgway & R. Harrison (eds). Handbook of marine mammals. Vol. 4. River dolphins and the larger toothed whales: p. 235-260 Academic Press: London/San Diego.
- Calvo, M.J., Navarro, C., Durán, P., Galan-Freyte, N.J., Parra Hernández, L.A., Pacheco-Londoño, L.C., Castelanich, D., Bermúdez, V., & Chacin, M., 2024. Antioxidants in photoaging: From molecular insights to clinical applications. *International Journal of Molecular Sciences*, 25(4), p.2403.
- Capurso, G., Carroll, B. and Stewart, K.A., 2023. Transforming marine monitoring: Using eDNA metabarcoding to improve the monitoring of the Mediterranean Marine Protected Areas network. *Marine Policy*, 156, p.105807.
- Carøe, C., Gopalakrishnan, S., Vinner, L., Mak, S.S., Sinding, M.H.S., Samaniego, J.A., Wales, N., Sicheritz-Pontén, T., & Gilbert, M.T.P., 2018. Single-tube library preparation for degraded DNA. *Methods in Ecology and Evolution*, 9(2), pp.410-419.
- Cavanaugh, S.E., & Bathrick, A.S., 2018. Direct PCR amplification of forensic touch and other challenging DNA samples: a review. *Forensic science international: Genetics*, 32, pp.40-49.
- Chantrapornsyl, S., Kinze, C.C., Leatherwood, S., & Prematunga, W.P. 1991. Notes on the genus *Kogia* in the northern Indian Ocean. *United Nations Environmental Programme Marine Mammal Technical Report*, (3), pp. 79-88.
- Chavez, D.E., Carrion, J., Cabezas, M.B., Reyes-Barriga, D., Lojan, P., Mora, D., Bustamante, M., Pinto, M., & Jarrin-V, P., 2025. Museums and Zoos: Rapid genetic identification of rare species and practical applications for conservation and systematics in a biodiverse country. *bioRxiv*, pp.2025-02.

- Clarke, R. 1954. A great haul of ambergris. *Nature*, 174, pp.155–156.
- Clarke, R. 2006. The origin of ambergris. *Latin American Journal of Aquatic Mammals*, (5) 7.
- Cox, A.M. & Goodwin, K.D., 2013. Sample preparation methods for quantitative detection of DNA by molecular assays and marine biosensors. *Marine pollution bulletin*, 73(1), pp.47-56.
- Dabney, J., Meyer, M., & Pääbo, S., 2013. Ancient DNA damage. *Cold Spring Harbor perspectives in biology*, 5(7), p.a012567.
- Davila, M., Pineda, V., Calzada, J.E., Saldaña, A., & Samudio, F., 2021. Evaluation of cytochrome b sequence to identify *Leishmania* species and variants: the case of Panama. *Memórias do Instituto Oswaldo Cruz*, 116, p.e200572.
- Diamond, S., Lavy, A., Crits-Christoph, A., Carnevali, P.B.M., Sharrar, A., Williams, K.H., & Banfield, J.F., 2021. Soils and sediments host novel archaea with divergent monooxygenases implicated in ammonia oxidation. *bioRxiv*, pp.2021-05.
- Eicchorn, E., Locher, E., Guillemer, S., Wahler, D., Fourage, L., & Schilling, B. 2018. Biocatalytic process for (–)-Ambrox production using squalene hopene cyclase. *Advanced Synthesis & Catalysis*, 360(12), pp. 2339-2351.
- Erwin, P.M., Rhodes, R.G., Kiser, K.B., Keenan-Bateman, T., McLellan, W.A., & Pabst, D.A. 2017. High diversity and unique composition of gut microbiomes in pygmy (*Kogia breviceps*) and dwarf (*K. sima*) sperm whales. *Sci Rep*. 7(1), pp. 7205.
- Fordyce, E., & Perrin, W.F. 2024. World Cetacea Database. *Physeter macrocephalus* Linnaeus, 1758. *Diaksas* 16 Maret 2024 melalui <https://www.marinespecies.org/aphia.php?p=taxdetails&id=137119>.

- Fiedler, S., Scherer, S., & Krause-Kyora, B., 2025. Fecal lipid markers in tandem with ancient sedimentary DNA as a tool for tracing past livestock farming from soils and sediments. *Frontiers in Environmental Archaeology*, 4, p.1544307.
- Francis, P.K., Estim, A., & Sidik, M.J., 2024. Oil and Grease Pollution in the West Coast of Sabah and Water Quality Index for the Conservation of Marine Biota: 10.32526/ennrj/22/20230314. *Environment and Natural Resources Journal*, 22(4), pp.321-334.
- Fulton, T.L., & Stiller, M., 2012. PCR amplification, cloning, and sequencing of ancient DNA. *Ancient DNA: Methods and protocols*, pp.111-119.
- Gimonneau, G., Hounyèmè, R.E., Quartey, M., Barry, I., Ravel, S., & Boulangé, A., 2024. Application of biomolecular techniques on tsetse fly puparia for species identification at larviposition sites. *Bulletin of Entomological Research*, 114(2), pp.203-209.
- Green, M.R., & Sambrook, J., 2016. Precipitation of DNA with ethanol. *Cold Spring Harbor Protocols*, 2016(12), pp.pdb-prot093377.
- Guthrie, A.M., Cooper, C.E., Bateman, P.W., van der Heyde, M., Allentoft, M.E., & Nevill, P., 2024. A quantitative analysis of vertebrate environmental DNA degradation in soil in response to time, UV light, and temperature. *Environmental DNA*, 6(4), p.e581.
- Hakim, A.A., Rahayu, E.S., Mashar, A., Butet, N.A., Wardiatno, Y., & Kamal, M.M., 2023. DNA barcoding untuk validasi spesies paus sperma (*Physeter macrocephalus* Linnaeus, 1758) dari Perairan Laut Sawu, Nusa Tenggara Timur, Indonesia. *Coastal and Ocean Journal (COJ)*, 7(1), pp.52-61.
- Hanni, C., Brousseaul, T., Laudet, V., & Stehelin, D. 1995. Isopropanol precipitation removes PCR inhibitors from ancient bone extracts. *Nucleic Acids Research*, (23). pp. 881-882.

- He, N., Yu, H., & Ye, L. 2024. Efforts toward Ambergris Biosynthesis. *Chem & Bio Engineering*.
- He, S., Cao, B., Yi, Y., Huang, S., Chen, X., Luo, S., Mou, X., Guo, T., Wang, Y., Wang, Y., & Yang, G., 2022. DNA precipitation revisited: A quantitative analysis. *Nano Select*, 3(3), pp.617-626.
- Hearn, R.P. & Arblaster, K.E., 2010. DNA extraction techniques for use in education. *Biochemistry and Molecular Biology Education*, 38(3), pp.161-166.
- Hebert, P.D.N., Cywinska, A., Ball, S.L., & DeWaard, J.R., 2003. Biological identifications through DNA barcodes. *Proceedings of the Royal Society of London. Series B: Biological Sciences*, 270(1512), pp.313-321.
- Hebert, P.D.N., Stoeckle, M.Y., Zemlak, T.S., & Francis, C.M., 2004. Identification of birds through DNA barcodes. *PLoS biology*, 2(10), p.e312.
- Hinz, S., Coston-Guarini, J., Marnane, M. & Guarini, J.M., 2022. Evaluating eDNA for use within marine environmental impact assessments. *Journal of Marine Science and Engineering*, 10(3), p.375.
- Hofreiter, M., Jaenicke, V., Serre, D., Haeseler, A.V., & Pääbo, S., 2001. DNA sequences from multiple amplifications reveal artifacts induced by cytosine deamination in ancient DNA. *Nucleic acids research*, 29(23), pp.4793-4799.
- Holloway, P.J. 1968. The chromatographic analysis of spermaceti. *Journal of Pharmacy and Pharmacology*, 20(10), pp.775-779.
- Hu, J.L., Ci, X.Q., Liu, Z.F., Dormontt, E.E., Conran, J.G., Lowe, A.J., & Li, J., 2022. Assessing candidate DNA barcodes for Chinese and internationally traded timber species. *Molecular Ecology Resources*, 22(4), pp.1478-1492.

- Hussen, A.S., Kravitz, H.L., Freudenthal, B.D., & Whitaker, A.M., 2024. Oxidative DNA damage on the VEGF G-quadruplex forming promoter is repaired via long-patch BER. *Environmental and molecular mutagenesis*, 65, pp.25-39.
- Iborra, F.J., Kimura, H., & Cook, P.R., 2004. The functional organization of mitochondrial genomes in human cells. *BMC biology*, 2, pp.1-14.
- IJsseldijk, L. L., Van Neer, A., Deaville, R., Begeman, L., van de Bildt, M., van den Brand, J. M., ... & Siebert, U. 2018. Beached bachelors: An extensive study on the largest recorded sperm whale *Physeter macrocephalus* mortality event in the North Sea. *PLoS One*, 13(8), e0201221.
- International Whaling Commission (IWC). 1980. Chairman' s report of the Thirty-First Annual Meeting. Whale sanctuaries. *Reports of the International Whaling Commission*, (30), p.27.
- Javadi, A., Shamaei, M., Mohammadi Ziazi, L., Pourabdollah, M., Dorudinia, A., Seyedmehdi, S. M., & Karimi, S. 2014. Qualification study of two genomic DNA extraction methods in different clinical samples. *Tanaffos*, 13(4), 41–47.
- Jayaram, B., & Beveridge, D.L., 1996. Modeling DNA in aqueous solutions: theoretical and computer simulation studies on the ion atmosphere of DNA. *Annual review of biophysics and biomolecular structure*, 25(1), pp.367-394.
- Jedynak-Slyvka, M., Jabczynska, A., & Szczesny, R.J., 2021. Human Mitochondrial RNA Processing and modifications: overview. *International Journal of Molecular Sciences*, 22(15), pp.7999.
- Jeunen, G.J., Lamare, M., Cummings, V., Treece, J., Ferreira, S., Massuger, J., Pryor Rodgers, L., Tait, L., Lust, B., Wilkinson, S., & Mariani, S., 2023. Unveiling the hidden diversity of marine eukaryotes in the Ross Sea: A

- comparative analysis of seawater and sponge eDNA surveys. *Environmental DNA*, 5(6), pp.1780-1792.
- Ju, A., Wang, H., Wang, L., & Weng, Y., 2023. Application of machine learning algorithms for prediction of ultraviolet absorption spectra of chromophoric dissolved organic matter (CDOM) in seawater. *Frontiers in Marine Science*, 10, p.1065123.
- Katevatis, C., Fan, A., & Klapperich, C. M. 2017. Low concentration DNA extraction and recovery using a silica solid phase. *PloS one*, 12(5), e0176848.
- Keyser-Tracqui, C., & Ludes, B., 2005. Methods for the study of ancient DNA. *Forensic DNA typing protocols*, pp.253-264.
- Kistler, L., Ware, R., Smith, O., Collins, M., & Allaby, R.G., 2017. A new model for ancient DNA decay based on paleogenomic meta-analysis. *Nucleic acids research*, 45(11), pp.6310-6320.
- Köchl, S., Niederstätter, H., & Parson, W. 2005. DNA extraction and quantitation of forensic samples using the phenol-chloroform method and real-time PCR. *Forensic DNA typing protocols*, pp. 13-29.
- Kochzius, M., & Nuryanto, A., 2008. Strong genetic population structure in the boring giant clam, *Tridacna crocea*, across the Indo-Malay Archipelago: implications related to evolutionary processes and connectivity. *Molecular Ecology*, 17(17), pp.3775-3787.
- Komori, K., & Ishino, Y., 2000. Functional interdependence of DNA polymerizing and 3'→ 5' exonucleolytic activities in *Pyrococcus furiosus* DNA polymerase I. *Protein Engineering*, 13(1), pp.41-47.

- Kress, W.J., García-Robledo, C., Uriarte, M., & Erickson, D.L., 2015. DNA barcodes for ecology, evolution, and conservation. *Trends in ecology & evolution*, 30(1), pp.25-35.
- Kundu, S., Kamalakannan, M., Banerjee, D., Palimirmo, F.S., Wibowo, A. & Kim, H.W., 2024. Mitochondrial DNA-based investigation of dead rorqual (Cetacea: Balaenopteridae) from the west coast of India. *Fisheries and Aquatic Sciences*, 27(1), pp.48-55.
- Lavery, R., Maddocks, J.H., Pasi, M., & Zakrzewska, K., 2014. Analyzing ion distributions around DNA. *Nucleic acids research*, 42(12), pp.8138-8149.
- Leatherwood, S. & R.R. Reeves. 1983. The Sierra Club handbook of whales and dolphins: i-xviii. Sierra Club Books: San Francisco.
- Lever, M.A., Torti, A., Eickenbusch, P., Michaud, A.B., Šantl-Temkiv, T. , & Jørgensen, B.B., 2015. A modular method for the extraction of DNA and RNA, and the separation of DNA pools from diverse environmental sample types. *Frontiers in microbiology*, 6, p.476.
- Li, J., & Zhao, Y. 2024. DNA Cleavage System by Nanomaterials. *ChemBioChem*, p.e202400841.
- Lin, R., Liu, J., Shan, S., Zhang, Y., & Yang, Y., 2024. Significant differences in the degree of genomic DNA N6-methyladenine modifications in *Acidithiobacillus ferrooxidans* with two different culture substrates. *Plos one*, 19(2), p.e0298204.
- Lopez, M.L.D., Bonderud, M., Allison, M.J., MacDermid, F., Ussery, E.J., McMaster, M.E., Dersch, A., Staniszewska, K.J., Cooke, C.A., Drevnick, P., & Helbing, C.C., 2023. qPCR-based eDNA workflow for humic-rich lake sediments: combined use of sedimentary DNA (sedDNA) and Indigenous Knowledge in reconstructing historical fish records. *Ecological Indicators*, 155, p.111014.

- Lopez-Oceja, A., Lekube, X., Ruiz, L., Mujika-Alustiza, J.A., & De Pancorbo, M.M., 2019. CYT B L15601 and H15748 primers for genetic identification of cetacean species. *Forensic Science International: Genetics Supplement Series*, 7(1), pp.771-772.
- Lorenz, T.C., 2012. Polymerase chain reaction: basic protocol plus troubleshooting and optimization strategies. *Journal of visualized experiments: JoVE*, (63), p.3998.
- Lorenzini, R. & Garofalo, L., 2021. Wildlife forensics: DNA analysis in wildlife forensic investigations. Dalam *Forensic DNA analysis* (pp. 357-384). Florida: Apple Academic Press.
- Lundberg, K.S., Shoemaker, D.D., Adams, M.W., Short, J.M., Sorge, J.A., & Mathur, E.J., 1991. High-fidelity amplification using a thermostable DNA polymerase isolated from *Pyrococcus furiosus*. *Gene*, 108(1), pp.1-6.
- Macleod, R., Sinding, M.H.S., Olsen, M.T., Collins, M.J., & Rowland, S.J., 2020. DNA preserved in jetsam whale ambergris. *Biology Letters*, 16(2), p.20190819.
- Mauvisseau, Q., Harper, L.R., Sander, M., Hanner, R.H., Kleyer, H., & Deiner, K., 2022. The multiple states of environmental DNA and what is known about their persistence in aquatic environments. *Environmental Science & Technology*, 56(9), pp.5322-5333.
- Molak, M., & Ho, S.Y., 2011. Evaluating the impact of post-mortem damage in ancient DNA: a theoretical approach. *Journal of molecular evolution*, 73, pp.244-255.
- Morris, J.J., Rose, A.L., & Lu, Z., 2022. Reactive oxygen species in the world ocean and their impacts on marine ecosystems. *Redox Biology*, 52, p.102285.

- Mörzer Bruyns, W.F.J., 1971. *Field guide of whales and dolphins*. Uitgeverij Tor/v/h CA. Mees: Amsterdam.
- Mura, M., Humphreys, B., Gilbert, J., Salis, A., & Nylander, T., 2023. Cation and buffer specific effects on the DNA-lipid interaction. *Colloids and Surfaces B: Biointerfaces*, 223, p.113187.
- Nuryana, I., Laksmi, F.A., Dewi, K.S., Akbar, F.R., & Harmoko, R., 2023. Codon optimization of a gene encoding DNA polymerase from *Pyrococcus furiosus* and its expression in *Escherichia coli*. *Journal of Genetic Engineering and Biotechnology*, 21(1), p.129.
- Orlando, L., Allaby, R., Skoglund, P., Der Sarkissian, C., Stockhammer, P.W., Ávila-Arcos, M.C., Fu, Q., Krause, J., Willerslev, E., Stone, A.C., & Warinner, C., 2021. Ancient DNA analysis. *Nature reviews methods primers*, 1(1), p.14.
- Owen, R. 1866. On some Indian Cetacea collected by Walter Elliot. *Esq. Transactions of the Zoological Society*. 6(1);30, pl. 10-14.
- Pääbo, S., 1989. Ancient DNA: extraction, characterization, molecular cloning, and enzymatic amplification. *Proceedings of the National Academy of Sciences*, 86(6), pp.1939-1943.
- Pandey, R.K., Singh, D.P., Sudhakar, G., & Rao, V.R., 2011. Ethanol re-precipitation removes PCR inhibitors from ancient DNA extract. *Antrocom Online Journal of Anthropology*, 7.
- Pedersen, M.W., Antunes, C., De Cahsan, B., Moreno-Mayar, J.V., Sikora, M., Vinner, L., Mann, D., Klimov, P.B., Black, S., Michieli, C.T., & Braig, H.R., 2022. Ancient human genomes and environmental DNA from the cement attaching 2,000-year-old head lice nits. *Molecular Biology and Evolution*, 39(2), p.msab351.

- Pérez, V., Liu, Y., Hengst, M.B, & Weyrich, L.S., 2022. A case study for the recovery of authentic microbial ancient DNA from soil samples. *Microorganisms*, 10(8), p.1623.
- Poinar, H.N., & Cooper, A., 2000. Ancient DNA: do it right or not at all. *Science*, 5482(1139), p.416.
- Polunin, N.V. 1983. The marine resources of Indonesia. *Oceanography and Marine Biology*, (21), pp.455-531.
- Plön, S., Best, P. B., Duignan, P., Lavery, S. D., Bernard, R. T., Van Waerebeek, K., & Baker, C. S. (2023). Population structure of pygmy (*Kogia breviceps*) and dwarf (*Kogia sima*) sperm whales in the Southern Hemisphere may reflect foraging ecology and dispersal patterns. *Advances in Marine Biology*, (96), pp. 85-114.
- Puskás, L.G, & Bottka, S., 1995. Reduction of mispriming in amplification reactions with restricted PCR. *Genome research*, 5(3), pp.309-311.
- Quraishi, S., Nudrat, S., Kumari, K., Marboh, E.W., Aguan, K., & Roy, A.S., 2024. Elucidation of inhibitory effects of bioactive anthraquinones towards formation of DNA advanced glycation end products (DNA-AGEs). *International Journal of Biological Macromolecules*, 269, p.131810.
- Rahayu, D.A., & Jannah, M., 2019. *DNA Barcode Hewan dan Tumbuhan Indonesia*. Jakarta: Yayasan Inspirasi Ide Berdaya.
- Rehman, H.U., Arooj, A., Aslam, M.A., Cholistani, M.S., Farhan, M., Kareem, K., Ashraf, M.A. & Pervaiz, M., 2025. Methods of Extraction of Genetic Material from Hard Tissues: A Review of the 21st Century Advancements. *Forensic Science International*, p.112382.

- Ravishankar, S., Perez, V., Davidson, R., Roca-Rada, X., Lan, D., Souilmi, Y., & Llamas, B., 2025. Filtering out the noise: metagenomic classifiers optimize ancient DNA mapping. *Briefings in Bioinformatics*, 26(1), p.bbae646.
- Rice, D.W., 1989. Sperm whale *Physeter macrocephalus* Linnaeus, 1758. *Handbook of marine mammals*. (4), pp.177-233.
- Roccaro, M., Bini, C., Fais, P., Merialdi, G., Pelotti, S., & Peli, A., 2021. Who killed my dog? Use of forensic genetics to investigate an enigmatic case. *International Journal of Legal Medicine*, 135(2), pp.387-392.
- Romero, A. 2006. More private gain than public good: whale and ambergris exploitation in 17th century Bermuda. *Bermuda Journal of Archaeology and Maritime History* (17) 6.
- Rowland, S.J., Sutton, P.A., & Knowles, T.D., 2019. The age of ambergris. *Natural product research*, 33(21), pp.3134-3142.
- Rowland, S.J., & Sutton, P.A., 2017. Chromatographic and spectral studies of jetsam and archived ambergris. *Natural product research*, 31(15), pp.1752-1757.
- Rubinoff, D., Holland, B.S., 2005. Between two extremes: mitochondrial DNA is neither the panacea nor the nemesis of phylogenetic and taxonomic inference. *Systematic biology*, 54(6), pp.952-961.
- Rudolph, P., Smeenk, C., & Leatherwood, S., 1997. Preliminary checklist of Cetacea in the Indonesian Archipelago and adjacent waters. *Zoologische Verhandelingen*, 312(1), pp.1-48.
- Russell, D.W., Sambrook, J., 2001. *Molecular cloning: a laboratory manual* (Vol. 1, p. 112). Cold Spring Harbor, New York: Cold Spring Harbor Laboratory.
- Sáenz, J. S., & Seifert, J. 2024. *Metaproteomics: Methods and Protocols*. New York: Springer US.

- Scarsbrook, L., Mitchell, K.J., Mcgee, M.D., Closs, G.P., & Rawlence, N.J., 2023. Ancient DNA from the extinct New Zealand grayling (*Prototroctes oxyrhynchus*) reveals evidence for Miocene marine dispersal. *Zoological journal of the Linnean Society*, 197(2), pp.532-544.
- Schenkkan, E.J., & Purves, P.E., 1973. The comparative anatomy of the nasal tract and the function of the spermaceti organ in the Physteridae (Mammalia, Odontoceti). *Bijdragen tot de Dierkunde*, 43(1), pp.93-112.
- Shengbu, M., Ai, L., Shi, Q., Zhao, Q., Liu, X., & Lai, X., 2024. Research Progress of Maillard Reaction and its Application in Processing of Traditional Chinese Medicine. *Natural Product Communications*, 19(11), p.1934578X241290620.
- Shin, S.K., Lee, Y., Kwon, H., Rhee, J.S., Kim, J.K., 2021. Validation of direct boiling method for simple and efficient genomic DNA extraction and PCR-based macroalgal species determination. *Journal of phycology*, 57(4), pp.1368-1372.
- Simón, M., González-Ruiz, M., Prats-Muñoz, G., & Malgosa, A., 2012. Comparison of two DNA extraction methods in a Spanish Bronze Age burial cave. *Quaternary International*, 247, pp.358-362.
- Srinivasan, T.M., 2015. Ambergris in perfumery in the past and present Indian context and the western world. *Indian Journal of History of Science*, 50(2), pp.306-323.
- Stone, M.P., Cho, Y.J., Huang, H.A.I., Kim, H.Y., Kozekov, I.D., Kozekova, A., Wang, H., Minko, I.G., Lloyd, R.S., Harris, T.M., & Rizzo, C.J., 2008. Interstrand DNA cross-links induced by α , β -unsaturated aldehydes derived from lipid peroxidation and environmental sources. *Accounts of chemical research*, 41(7), pp.793-804.

- Stormo, G.D., 2000. DNA binding sites: representation and discovery. *Bioinformatics*, 16(1), pp.16-23.
- Suarez-Bregua, P., Alvarez-Gonzalez, M., Parsons, K. M., Rotllant, J., Pierce, G. J., & Saavedra, C. 2022. Environmental DNA (eDNA) for monitoring marine mammals: Challenges and opportunities. *Frontiers in Marine Science* (9), p.987774.
- Svaren, J., Inagami, S., Lovegren, E., & Chalkley, R., 1987. DNA denatures upon drying after ethanol precipitation. *Nucleic acids research*, 15(21), pp.8739-8754.
- Taha, S. A., Islam, M., & Ageel, A. 1995. Effect of ambrein, a major constituent of ambergris, on masculine sexual behavior in rats. *Arch. Int. Pharmacodyn. Ther.* 329 (2), pp.283– 294.
- Takahashi, T., Aoyanagi, H., Pigolotti, S., & Toyabe, S., 2024. Blocking uncertain mispriming errors of PCR. *Biophysical Journal*, 123(20), pp.3558-3568.
- Taylor, B., Baird, R., Barlow, J., Dawson, S., Ford, J., & Mead, J. 2019. Physeter Macrocephalus (Amended version of 2008 Assessment) IUCN Red List Threat. Species. 2019: 2307–8235. doi: 10.2305/IUCN. UK. 2008. *RLTS*. T41755A160983555. en, 17.
- Tobe, S.S., Kitchener, A.C., & Linacre, A.M., 2010. Reconstructing mammalian phylogenies: a detailed comparison of the cytochrome b and cytochrome oxidase subunit I mitochondrial genes. *PloS one*, 5(11), p.e14156.
- Trombley, H.A., McKay, Z.A., Christensen, D.R., Koehler, J.W., & D. Minogue, T., 2013. Evaluation of inhibitor-resistant real-time PCR methods for diagnostics in clinical and environmental samples. *PloS one*, 8(9), p.e73845.

- Ueda, D., Hoshino, T., & Sato, T., 2013. Cyclization of squalene from both termini: identification of an onoceroid synthase and enzymatic synthesis of ambrein. *Journal of the American Chemical Society*, 135(49), pp.18335-18338.
- Vetritti, L., Kopyra, J., Wierzbicka, P., & Varella, M.T.D.N., 2023. Fragmentation of the DNA lesion 8-oxo-guanine by low-energy electrons. *The Journal of Physical Chemistry A*, 127(36), pp.7470-7478.
- Walsh, P. S., Metzger, D. A., & Higushi, R. 1991. Chelex 100% as a medium for sample extraction of DNA for PCR-based typing from forensic material. *Biotechniques*, 20(4), 506-513.
- Watkins, W.A., 1977. Acoustic behavior of sperm whales. *Oceanus* 20 (2), pp.50-58.
- Watson, S. A., & McStay, G. P. 2020. Functions of cytochrome c oxidase assembly factors. *International Journal of Molecular Sciences*, 21(19), p.72
- Wellendorf, M., 1963. Composition of spermaceti. *Nature*, 198(4885), pp.1086-1087.
- World Book. 1994. *The World Book Encyclopedia*. World Book: Chicago.
- Vajpayee, K., Dash, H.R., Parekh, P.B., & Shukla, R.K., 2023. PCR inhibitors and facilitators—Their role in forensic DNA analysis. *Forensic Science International*, 349, p.111773.
- Yang, H., Zhou, Q., Hu, J., Bao, Z., & Wang, M. 2024. A Chelex-100-Based Rapid DNA Extraction Method And Its Application In The Detection Of Shrimp Pathogens. *Electronic Journal of Biotechnology*, 70, 29-37.
- Yoca, Ö.U., Efe, H., & Yüce, Z., 2021. Ancient DNA research: Ongoing challenges and contribution to medical sciences. *Journal of Basic and Clinical Health Sciences*, 5(2), pp.182-189.

- Zafeiriadou, A., Nano, K., Thomaidis, N.S., & Markou, A., 2024. Evaluation of PCR-enhancing approaches to reduce inhibition in wastewater samples and enhance viral load measurements. *Science of The Total Environment*, 955, p.176768.
- Zhang, Q., Ames, J.M., Smith, R.D., Baynes, J.W., & Metz, T.O., 2009. A perspective on the Maillard reaction and the analysis of protein glycation by mass spectrometry: probing the pathogenesis of chronic disease. *Journal of proteome research*, 8(2), pp.754-769.
- Zhao, W.Q., Guo, Z.Y., Tian, Z.Y., Su, T.F., Cao, G.Q., Qi, Z.X., Qin, T.C., Zhou, W., Yang, J.Y., Chen, M.J., & Zhang, X.G., 2023. Ancient DNA in Lycopera Fossils: Key Discoveries for Evolution and Methodological Reassessment. *bioRxiv*, pp.2023-06.
- Zhu, K., He, H., Tao, L., Ma, H., Yang, X., Wang, R., Guo, J., & Wang, C.C., 2024. Protocol for a comprehensive pipeline to study ancient human genomes. *STAR protocols*, 5(2), p.102985.