

## DAFTAR PUSTAKA

- Alem, L., Valentin, E., Cunha, M., Santos, O., Nogueira, T., Carvalho, E., & Silva, D. A. (2017). Efficiency of DNA recovery from fingerprints enhanced with black and magnetic powders. *Forensic Science International: Genetics Supplement Series*, 6, e490–e491. <https://doi.org/10.1016/j.fsigss.2017.09.186>
- Alketbi, S. K., & Goodwin, W. (2019). The effect of surface type, collection and extraction methods on touch DNA. *Forensic Science International: Genetics Supplement Series*, 7(1), 704–706. <https://doi.org/10.1016/j.fsigss.2019.10.145>.
- Almeida, J. L., & Korch, C. T. (2023). *Authentication of human and mouse cell lines by short tandem repeat (STR) DNA genotype analysis*. Assay Guidance Manual - NCBI Bookshelf. <https://www.ncbi.nlm.nih.gov/books/NBK144066/>
- Anisa, A., Jaya, A. K., & Sunarti, S. (2016). Analisis Hidden Markov Model untuk Segmentasi Barisan DNA. *Jurnal Matematika, Statistika dan Komputasi*, 13(1), 55-65.
- Applied Biosystems. 2012. PrepFiler® and PrepFiler® BTA Forensic DNA Extraction Kits: Quick Reference. Thermo Fisher Scientific
- Applied Biosystems. 2016. GlobalFiler™ PCR Amplification Kits: User Guide. Thermo Fisher Scientific
- Applied Biosystems. 2017. Quantifiler™ HP and Trio DNA Quantification Kits: User Guide. Thermo Fisher Scientific
- Arimurti, A. R. R., Yudianto, A., & Astuti, S. P. W. (2015). Identifikasi DNA dari swab earphone dengan teknik STR (Short Tandem Repeat) untuk kepentingan forensik. *Jurnal Biosains Pascasarjana*, 17(1), 26-32. Universitas Airlangga, Indonesia.
- Badiye, A., Kapoor, N., & Shrivastava, P. (2020). Forensic DNA Evidence: From Crime Scene to Conviction. In *Forensic DNA Evidence: From Crime Scene to Conviction*. [https://doi.org/10.1007/978-981-15-6655-4\\_4](https://doi.org/10.1007/978-981-15-6655-4_4)
- Corvianindya, Y., & Auerkari, E. I. (2001). Studi molekuler pada instabilitas genetik: mekanisme kerusakan DNA dan proses perbaikannya. *Journal of Dentistry Indonesia*, 8(3), 44-50.
- Cruz, T. D., & Robb, S. E. (2018). Methods for Obtaining STR Quality Touch DNA From Archived Fingerprints. *Annotation*.

- Dhall, J. K., & Kapoor, A. (2016). Development of latent prints exposed to destructive crime scene conditions using wet powder suspensions. *Egyptian Journal of Forensic Sciences*, 6(4), 396–404. <https://doi.org/10.1016/j.ejfs.2016.06.003>
- Diego, Alejandro, Alvarez. (2023). Comparing the Effectiveness of Photoluminescent Powders for the Development of Latent Fingerprints on Complex Surfaces. *Journal of forensic sciences & criminal investigation*, doi: 10.19080/jfsci.2023.16.555948
- Elishian, C., & Ketrin, R. (2011). PENGEMBANGAN MATERIAL SERBUK SILIKA UNTUK IDENTIFIKASI SIDIK JAR. *Jurnal Kimia Terapan Indonesia (Indonesian Journal of Applied Chemistry)*, 13(1). <https://doi.org/10.14203/jkti.v13i1.126>
- Ernawati, E., Puspitaningrum, D., & Pravitasari, A. (2014). Implementasi Algoritma Smith–Waterman Pada Local Alignment Dalam Pencarian Kesamaan Pensejajaran Barisan DNA (Studi Kasus: DNA Tumor Wilms). *Pseudocode*, 1(2), 170-177.
- Fox, A. P., Gittos, M., Harbison, S., Fleming, R., & Wivell, R. (2014). Exploring the recovery and detection of messenger RNA and DNA from enhanced fingerprints in blood. *Science & Justice*, 54(3), 192–198. <https://doi.org/10.1016/j.scijus.2014.01.001>
- Gammon, K., Murray-Jones, K., Shenton, D., Wood, Z. J., & Mayers, C. (2019). Touch DNA on objects can be analysed at low cost using simplified direct amplification methods. *bioRxiv (Cold Spring Harbor Laboratory)*. <https://doi.org/10.1101/540823>
- Gminski, R., Decker, K., Heinz, C., Seidel, A., Könczöl, M., Goldenberg, E., Grobéty, B., Ebner, W., Gieré, R., & Mersch-Sundermann, V. (2010). Genotoxic effects of three selected black toner powders and their dimethyl sulfoxide extracts in cultured human epithelial A549 lung cells in vitro. *Environmental and Molecular Mutagenesis*, 52(4), 296–309. <https://doi.org/10.1002/em.20621>
- Harush-Brosh, Y., Levy-Herman, Y., Bengiat, R., Oz, C., Levin-Elad, M., Horowitz, M., & Faerman, M. (2021). Back to *Amido Black*: Uncovering touch DNA in blood-contaminated fingerprints. *Journal of Forensic Sciences*, 66(5), 1697–1703. <https://doi.org/10.1111/1556-4029.14783>
- Hansen, J., Lesnikova, I., Funder, A. M., & Banner, J. (2014). DNA and RNA analysis of blood and muscle from bodies with variable postmortem intervals. *\*Forensic Science, Medicine, and Pathology*, 10\*(2), 322-328. <https://doi.org/10.1007/s12024-014-9567-2>

- Herman, H., Sunardi, S., & Famuji, T. S. (2023). Proses Implementasi Bioinformatika Pada Digitalisasi Data Genetika Manusia. *Simetris: Jurnal Teknik Mesin, Elektro Dan Ilmu Komputer*, 14(1), 1-12.
- Isna, Komalasari., Fransiska, Sri, Herwahyu, Krismastuti., Christine, Elishian., Eka, Mardika, Handayani., Willy, Cahya, Nugraha., Rosi, Ketrin. (2017). Straightforward fabrication of black nano silica dusting powder for latent fingerprint imaging. doi: 10.1063/1.5011902
- Kavlick, M. F. (2018). Development of a universal internal positive control. *Biotechniques*, 65(5), 275-280.
- Keerti, A., & Ninave, S. (2022). DNA Fingerprinting: Use of Autosomal Short Tandem Repeats in Forensic DNA Typing. *Cureus*, 14(10), e30210. <https://doi.org/10.7759/cureus.30210>
- Kelarakis, A., Krysmann, M.J. and Fernandes, D., University of Central Lancashire, 2020. *Method of fingerprinting with using carbogenic nanoparticle*. U.S. Patent 10,631,762.
- Kirgiz, I., & Calloway, C. (2017). Increased recovery of touch DNA evidence using FTA paper compared to conventional collection methods.. *Journal of forensic and legal medicine*, 47, 9-15. <https://doi.org/10.1016/j.jflm.2017.01.007>.
- Kitayama, T., Fukagawa, T., Watahiki, H., Mita, Y., Fujii, K., Unuma, K., Sakurada, K., Uemura, K., & Mizuno, N. (2020). Evaluation of rapid DNA system for buccal swab and disaster victim identification samples. *Legal Medicine*, 46\*, 101713. <https://doi.org/10.1016/j.legalmed.2020.101713>
- Kupiec, T., Janula, M., & Doniec, A. (2018). Assessment of Y chromosome degradation level using the Investigator Quantiplex Pro RGQ Kit. *Kraków, Hilden, Germany*.
- Lackey, A. (2018). How To Evaluate Forensic DNA Quality With Quantifiler Trio DNA Quantification Kit. *Behind the Bench*. Retrieved March 25, 2024, from <https://www.thermofisher.com/blog/behindthebench/how-to-evaluate-forensic-dna-quality-with-quantifiler-trio-dna-quantification-kit/>
- Latham, K. E., & Miller, J. J. (2018). DNA recovery and analysis from skeletal material in modern forensic contexts. *Forensic sciences research*, 4(1), 51–59. <https://doi.org/10.1080/20961790.2018.1515594>
- Lin, S., Ip, S. C., Lam, T., Tan, T., Yeung, W., & Tam, W. (2016). Compatibility of DNA IQ™, QIAamp® DNA Investigator, and QIASymphony® DNA Investigator® with various fingerprint treatments. *International Journal of Legal Medicine*, 131(2), 293–301. <https://doi.org/10.1007/s00414-016-1447-8>
- Livy, A., Lye, S., Jagdish, C. K., Hanis, N., Sharmila, V., Ler, L. W., & Pramod, B. (2012). Evaluation of quality of DNA extracted from buccal swabs for

- microarray based genotyping. *Indian journal of clinical biochemistry : IJCB*, 27(1), 28–33. <https://doi.org/10.1007/s12291-011-0154-y>
- Maguire, C. (2013). *FBS11-Quantitation by real-time PCR using quantifiler duo*. Quantitation by Real-Time PCR Using Quantifiler Duo. [https://dfs.dc.gov/sites/default/files/dc/sites/dfs/page\\_content/attachments/FBS11%20Real-Time%20PCR.pdf](https://dfs.dc.gov/sites/default/files/dc/sites/dfs/page_content/attachments/FBS11%20Real-Time%20PCR.pdf)
- Morihito, R. V., Chungdinata, S. E., Nazareth, T. A., Pulukadang, M. I., Makalew, R. A., & Pinontoan, B. (2017). Identifikasi perubahan struktur dna terhadap pembentukan sel kanker menggunakan dekomposisi graf. *Jurnal Ilmiah Sains*, 17(2), 153-160.
- Mustami, M. K., & Muthiadin, C. (2021). *Konsep Dasar Pewarisan Gen pada Manusia*. Gowa: Alauddin University Press.
- Nagy, Alfadaly. (2017). Evaluation of the Techniques Used In Analysis of *Touch* DNA Collected From Crime Tools in Hail, Kingdom Of Saudi Arabia. doi: 10.19080/JFSCI.2017.03.555624
- Neha, M., Mukesh, C., Saurabh, J., & Umema, A. (2023). Review of the Efficiency of Ten Different Commercial Kits for Extracting DNA from Soil Mixed Biological Samples. In *Journal of Forensic Science and Research* (Vol. 7, Issue 1, pp. 017–024). Heighten Science Publications Corporation. <https://doi.org/10.29328/journal.jfsr.1001045>
- Nimbkar, P. H., & Bhatt, V. D. (2022). A review on *touch* DNA collection, extraction, amplification, analysis and determination of phenotype. *Forensic Science International*, 336, 111352. <https://doi.org/10.1016/j.forsciint.2022.111352>
- Nunn S. (2013). Touch DNA collection versus firearm fingerprinting: comparing evidence production and identification outcomes. *Journal of forensic sciences*, 58(3), 601–608. <https://doi.org/10.1111/1556-4029.12119>
- Pratiksha, H., Nimbkar., Vaibhav, D, Bhatt. (2022). A review on *touch* DNA collection, extraction, amplification, analysis and determination of phenotype.. *Forensic Science International*, Available from: 10.1016/j.forsciint.2022.111
- Putri, N. P. P. E., & Yudianto, A. (2016). Pengaruh Tanah dan Air Laut Terhadap Kualitas DNA dari Otot PSOAS Jenazah Melalui Metode STR (Effect of Soil and Sea Water to Quality of PSOAS Muscle DNA Corpse with STR Method). *Jurnal Biosains Pascasarjana*, 18(3), 203–217. <https://doi.org/10.20473/jbp.v18i3.2016.203-217>
- Quinones, I., & Daniel, B. (2012). Cell free DNA as a component of forensic evidence recovered from touched surfaces. *Forensic Science International: Genetics*, 6(1), 26–30. <https://doi.org/10.1016/j.fsigen.2011.01.004>
- Sandwinata, M. F. (2018). Analisis DNA dalam Kasus Forensik. *Teknosains: Media Informasi Sains dan Teknologi*, 12(1).

- Schulze Johann, K., Bauer, H., Wiegand, P., Pfeiffer, H., & Vennemann, M. (2023). Detecting DNA damage in stored blood samples. *Forensic science, medicine, and pathology*, 19(1), 50–59. <https://doi.org/10.1007/s12024-022-00549-3>
- Sessa, F., Salerno, M., Bertozzi, G., Messina, G., Ricci, P., Ledda, C., Rapisarda, V., Cantatore, S., Turillazzi, E., & Pomara, C. (2019). Touch DNA: impact of handling time on touch deposit and evaluation of different recovery techniques: An experimental study. *Scientific Reports*, 9(1). <https://doi.org/10.1038/s41598-019-46051-9>
- Siswanto, J. E., Berlian, T., Putricahya, E., Panggalo, L. V., & Yuniani, L. (2016). Isolasi DNA pada sampel darah tepi dan swab buccal pada bayi penderita ROP: Perbandingan hasil uji konsentrasi dan indeks kemurnian. *Sari Pediatri*, 18(4), 270-277.
- Nwawuba Stanley, U., Mohammed Khadija, A., Bukola, A. T., Omusi Precious, I., & Ayevebuomwan Davidson, E. (2020). Forensic DNA Profiling: Autosomal Short Tandem Repeat as a Prominent Marker in Crime Investigation. *The Malaysian journal of medical sciences : MJMS*, 27(4), 22–35. <https://doi.org/10.21315/mjms2020.27.4.3>
- Stoop, B., Defaux, P., Utz, S., & Zieger, M. (2017). Touch DNA sampling with SceneSafe Fast™ minitapes.. *Legal medicine*, 29, 68-71. <https://doi.org/10.1016/j.legalmed.2017.10.006>.
- Suryadi, T. (2018). Degradasi DNA pada Jenazah yang Sudah Sangat Membusuk. *JURNAL KEDOKTERAN NANGGROE MEDIKA*, 1(1), 91–96. <https://doi.org/10.35324/jknamed.v1i1.12>
- Tang, J. L., Ostrander, J., Wickenheiser, R., & Hall, A. (2020). Touch DNA in forensic science: The use of laboratory-created eccrine fingerprints to quantify DNA loss. *Forensic Science International: Synergy*, 2, 1–16. <https://doi.org/10.1016/j.fsisyn.2019.10.004>
- Thornton, J. E. (2023). Analysis of 'touch' DNA recovered from metal substrates: an investigation into cfDNA-metal interactions and the efficacy of different collection techniques on DNA yield. <https://doi.org/10.33915/etd.11810>
- Tozzo, P., Giuliadori, A., Rodriguez, D., & Caenazzo, L. (2014). Effect of dactyloscopic powders on DNA profiling from enhanced fingerprints. *American Journal of Forensic Medicine and Pathology*, 35(1), 68–72. <https://doi.org/10.1097/paf.0000000000000081>
- Tozzo, P., Mazzobel, E., Marcante, B., Delicati, A., & Caenazzo, L. (2022). Touch DNA sampling Methods: Efficacy evaluation and systematic review. *International Journal of Molecular Sciences*, 23(24), 15541. <https://doi.org/10.3390/ijms232415541>
- Valensa, Y., & Wijaya, I. P. (2016). Pengaruh Pemberian Ekstrak Daun Sirsak (*Annona muricata* L.) Terhadap Kadar Glukosa Darah Tikus Putih Jantan

Galur Wistar Yang Diinduksi Aloksan. *Jurnal Kedokteran Diponegoro*, 5(4), 1-10.

- Valentine, J. L., Presler-Jur, P., Mills, H., & Miles, S. (2021). Evidence Collection and Analysis for Touch Deoxyribonucleic Acid in Groping and Sexual Assault Cases. *Journal of forensic nursing*, 17(2), 67–75. <https://doi.org/10.1097/JFN.0000000000000324>
- Wan, X., & Tan, X. (2019). A study on separation of the protein structural types in amino acid sequence feature spaces. *PloS One*, 14(12), e0226768. <https://doi.org/10.1371/journal.pone.0226768>
- X, Lu., Z, Xu., Q, S, Niu., Z, Tu. (2018). Application of *Touch* DNA in Investigation Practice. doi: 10.12116/J.ISSN.1004-5619.2018.03.015
- Yosephi, V., Dhanardono, T., & Saebani. (2016). Perbedaan kuantitas DNA yang diekstrak dari akar rambut berbagai fase pertumbuhan. *Jurnal Kedokteran Diponegoro*, 5(4), 1846-185