

Informative Textbooks on Forensic DNA (16)

The following informative textbooks are listed by publication date in ascending order with the most recent ones listed last. This list is not comprehensive (e.g., earlier editions of some of these textbooks not included).

1. National Research Council (1996) *The Evaluation of Forensic DNA Evidence*. National Academy Press: Washington, D.C.
2. Evett, I.W. and Weir, B.S. (1998) *Interpreting DNA Evidence: Statistical Genetics for Forensic Scientists*. Sinauer Associates: Sunderland MA.
3. Inman, K. and Rudin, N. (2001) *Principles and Practice of Criminalistics: The Profession of Forensic Science*. CRC Press: Boca Raton.
4. Fung, W.K. and Hu, Y.-Q. (2008) *Statistical DNA Forensics: Theory, Methods and Computation*. Wiley: Chichester, UK.
5. Butler, J.M. (2010) *Fundamentals of Forensic DNA Typing*. Elsevier Academic Press: San Diego.
6. Goodwin, W., Linacre, A., Hadi, S. (2011) *An Introduction to Forensic Genetics Second Edition*. Wiley: Chichester, UK.
7. Butler, J.M. (2012) *Advanced Topics in Forensic DNA Typing: Methodology*. Elsevier Academic Press: San Diego.
8. Gill, P. (2014) *Misleading DNA Evidence: Reasons for Miscarriages of Justice*. Elsevier Academic Press: San Diego.
9. Butler, J.M. (2015) *Advanced Topics in Forensic DNA Typing: Interpretation*. Elsevier Academic Press: San Diego.
10. Balding, D. J. and Steele, C. D. (2015). *Weight-of-evidence for Forensic DNA Profiles Second Edition*. Wiley: Chichester, UK.
11. Buckleton, J.S., Bright, J.-A., Taylor, D. (Editors) (2016) *Forensic DNA Evidence Interpretation Second Edition*. CRC Press: Boca Raton.
12. Robertson, B., Vignaux, G.A., Berger, C.E.H. (2016) *Interpreting Evidence: Evaluating Forensic Science in the Courtroom Second Edition*. Wiley: Chichester, UK.
13. Jamieson, A. and Bader, S. (Editors) (2016) *A Guide to Forensic DNA Profiling*. Wiley: Chichester, UK.
14. Amorim, A. and Budowle, B. (Editors) (2017) *Handbook of Forensic Genetics: Biodiversity and Heredity in Civil and Criminal Investigation*. World Scientific Publishing: London.
15. Bright, J.-A. and Coble, M. (2020) *Forensic DNA Profiling: A Practical Guide to Assigning Likelihood Ratios*. CRC Press: Boca Raton.
16. Gill, P., Bleka, Ø., Hansson, O., Benschop, C., Haned, H. (2020) *Forensic Practitioner's Guide to the Interpretation of Complex DNA Profiles*. Elsevier Academic Press: San Diego.

Informative Forensic DNA Reviews and Research Studies (434)

Below 26 categories are defined covering topics of interest in forensic DNA analysis and interpretation (listed arbitrarily from A to Z). Neither the categories nor this reference list are intended to be exhaustive. Suggestions for additional, appropriate references and categories are welcome. A #1 article (in bold font) was subjectively selected in each category and then followed by reference citations defined by date in ascending order with the most recent publications at the end of each category. This letter and number system (e.g., A1, B3, F7) provides a simple method to locate specific articles and enables opportunities for expansion as the literature grows. Although some articles could logically appear under multiple categories, no duplicate listings were used. Recommended references from the SWGDAM 2020 Training Guidelines have been included as well.

A. Plain Language Guides to Forensic DNA Analysis

1. Sense about Science (2017) *Making Sense of Forensic Genetics*. A 40-page plain language guide available at <https://senseaboutscience.org/activities/making-sense-of-forensic-genetics/>.
2. The Royal Society (2017) *Forensic DNA Analysis: A Primer for Courts*. A 60-page plain language guide available at <https://royalsociety.org/-/media/about-us/programmes/science-and-law/royal-society-forensic-dna-analysis-primer-for-courts.pdf>.
3. Press, R. (2019) *DNA Mixtures: A Forensic Science Explainer*. Available at <https://www.nist.gov/featured-stories/dna-mixtures-forensic-science-explainer>. (see also *Forensic Science Review* 31: 87-91 available at [http://forensicsciencereview.com/Abstract/31\(2\)-\(R&C\)%20Full%20text.pdf](http://forensicsciencereview.com/Abstract/31(2)-(R&C)%20Full%20text.pdf))

B. Serology and Body Fluid Identification

1. Gaensslen, R.E. (1983) *Sourcebook in Forensic Serology, Immunology, and Biochemistry*. U.S. Department of Justice, National Institute of Justice: Washington, D.C.
2. Schweers BA, Old J, Boonlayangoor PW, Reich KA. (2008) Developmental validation of a novel lateral flow strip test for rapid identification of human blood (Rapid Stain Identification--Blood). *Forensic Science International: Genetics* 2(3): 243-247.
3. Desroches, A.N., Buckle, J.L., Fourney, R.M. (2009) Forensic biology evidence screening: past and present. *Canadian Society of Forensic Science Journal* 42(2): 101-120.
4. Old, J.B., Schweers, B.A., Boonlayangoor, P.W., Reich, K.A. (2009) Developmental validation of RSID-saliva: a lateral flow immunochromatographic strip test for the forensic detection of saliva. *Journal of Forensic Sciences* 54(4): 866-873.
5. Hartevelde, J., Lindenbergh, A. and Sijen, T. (2013) RNA cell typing and DNA profiling of mixed samples: can cell types and donors be associated? *Science & Justice* 53: 261-269.
6. Cotton, R.W. and Fisher, M.B. (2015) Review: Properties of sperm and seminal fluid, informed by research on reproduction and contraception. *Forensic Science International: Genetics* 18: 66-77.
7. Harbison, S. and Fleming, R.I. (2016) Forensic body fluid identification: state of the art. *Research and Reports in Forensic Medical Science* 6: 11-23.

8. Vidaki, A., Giangasparo, F., Syndercombe Court, D. (2016) Discovery of potential DNA methylation markers for forensic tissue identification using bisulphite pyrosequencing. *Electrophoresis* 37(21): 2767-2779.
9. Silva, D.S.B.S., Antunes, J., Balamurugan, K., Duncan, G., Alho, C.S., McCord, B. (2016) Developmental validation studies of epigenetic DNA methylation markers for the detection of blood, semen and saliva samples. *Forensic Science International: Genetics* 23: 55-63.
10. Legg, K.M. and Danielson, P.B. (2017) State of the Art in Forensic Serology. In Liz Fergus (Ed.), "Sexual Assault Victimization Across the Life Span Second Edition Volume 1: Investigation, Diagnosis, and the Multidisciplinary Team". (vol. 1, pp. 462). STM Learning Inc.
11. Wornes, D.J., Speers, S.J., Murakami, J.A. (2018) The evaluation and validation of Phadebas[®] paper as a presumptive screening tool for saliva on forensic exhibits. *Forensic Science International* 288: 81-88.
12. Dørum, G., Ingold, S., Hanson, E., Ballantyne, J., Snipen, L., Haas, C. (2018) Predicting the origin of stains from next generation sequencing mRNA data. *Forensic Science International: Genetics* 34: 37-48.
13. Ingold, S., Dørum, G., Hanson, E., Berti, A., Branicki, W., Brito, P., Elsmore, P., Gettings, K.B., Giangasparo, F., Gross, T.E., Hansen, S., Hanssen, E.N., Kampmann, M.L., Kayser, M., Laurent, F.X., Morling, N., Mosquera- Miguel, A., Parson, W., Phillips, C., Porto, M.J., Pośpiech, E., Roeder, A.D., Schneider, P.M., Schulze, J.K., Steffen, C.R., Syndercombe-Court, D., Trautmann, M., van den Berge, M., van der Gaag, K.J., Vannier, J., Verdoliva, V., Vidaki, A., Xavier, C., Ballantyne, J., Haas, C. (2018) Body fluid identification using a targeted mRNA massively parallel sequencing approach - results of a EUROFORGEN/EDNAP collaborative exercise. *Forensic Science International: Genetics* 34: 105-115.
14. Albani, P.P. and Fleming, R. (2019) Developmental validation of an enhanced mRNA-based multiplex system for body fluid and cell type identification. *Science & Justice* 59(3): 217-227.
15. Kulstein, G., Pably, P., Fürst, A., Wiegand, P., Hadrys, T. (2019) "The acid test"-validation of the ParaDNA[®] BodyFluid ID Test for routine forensic casework. *International Journal of Legal Medicine* 133(3): 751-757.
16. Foley, M.M., Brown, C.O., Westring, C.G., Danielson, P.B., McKiernan, H.E. (2020) Effects of organic acids and common household products on the occurrence of false positive test results using immunochromatographic assays. *Forensic Science International* 308:1-6.
17. Ingold, S., Dørum, G., Hanson, E., Ballard, D., Berti, A., Gettings, K.B., Giangasparo, F., Kampmann, M.L., Laurent, F.X., Morling, N., Parson, W., Steffen, C.R., Ulus, A., van den Berge, M., van der Gaag, K.J., Verdoliva, V., Xavier, C., Ballantyne, J., Haas, C. (2020) Body fluid identification and assignment to donors using a targeted mRNA massively parallel sequencing approach - results of a second EUROFORGEN/EDNAP collaborative exercise. *Forensic Science International: Genetics* 45: 102208.

C. Collection and Storage of Biological Material

1. Mapes, A.A., Kloosterman, A.D., van Marion, V., de Poot, C.J. (2016) Knowledge on DNA success rates to optimize the DNA analysis process: from crime scene to laboratory. *Journal of Forensic Sciences* 61(4): 1055-1061.

2. Bär, W., Kratzer, A., Mächler, M., Schmid, W. (1988) Postmortem stability of DNA. *Forensic Science International* 39(1): 59-70.
3. Sweet, D., Lorente, M., Lorente, J.A., Valenzuela, A., Villanueva, E. (1997) An improved method to recover saliva from human skin: the double swab technique. *Journal of Forensic Sciences* 42(2): 320-322.
4. Lee, H.C. and Ladd, C. (2001) Preservation and collection of biological evidence. *Croatian Medical Journal* 42(3):225-228.
5. Kline, M.C., Duewer, D.L., Redman, J.W., Butler, J.M., Boyer, D.A. (2002) Polymerase chain reaction amplification of DNA from aged blood stains: quantitative evaluation of the "suitability for purpose" of four filterpapers as archival media. *Analytical Chemistry* 74(8): 1863-1869.
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8. Vandewoestyne, M. and Deforce, D. (2010) Laser capture microdissection in forensic research: a review. *International Journal of Legal Medicine* 124(6): 513-521.
9. van Oorschot, R.A.H. (2012) Assessing DNA profiling success rates: need for more and better collection of relevant data. *Forensic Science Policy and Management* 3: 37-41.
10. Goray, M., van Oorschot, R.A., Mitchell, J.R. (2012) DNA transfer within forensic exhibit packaging: potential for DNA loss and relocation. *Forensic Science International: Genetics* 6(2): 158-166.
11. Allen-Hall, A. and McNevin, D. (2013) Non-cryogenic forensic tissue preservation in the field: a review. *Australian Journal of Forensic Sciences* 45(4): 450-460.
12. Higgins, D. and Austin, J.J. (2013) Teeth as a source of DNA for forensic identification of human remains: A review. *Science & Justice* 53(4): 433-441.
13. Verdon, T.J., Mitchell, R.J. and van Oorschot, R.A. (2014) Swabs as DNA collection devices for sampling different biological materials from different substrates. *Journal of Forensic Sciences* 59(4): 1080-1089.
14. Verdon, T.J., Mitchell, R.J. and van Oorschot, R.A. (2014) Evaluation of tapelifting as a collection method for touch DNA. *Forensic Science International: Genetics* 8(1): 179-186.
15. Verdon, T.J., Mitchell, R.J., van Oorschot, R.A. (2015) Preliminary investigation of differential tapelifting for sampling forensically relevant layered deposits. *Legal Medicine* 17(6): 553-559.
16. Baechler, S. (2016) Study of criteria influencing the success rate of DNA swabs in operational conditions: A contribution to an evidence-based approach to crime scene investigation and triage. *Forensic Science International: Genetics* 20: 130-139.
17. Pickrahn, I., Kreindl, G., Müller, E., Dunkelmann, B., Zahrer, W., Cemper-Kiesslich, J., Neuhuber, F. (2017) Contamination incidents in the pre-analytical phase of forensic DNA analysis in Austria—

Statistics of 17 years. *Forensic Science International: Genetics* 31: 12-18.

18. Sujatha, G., Muruganandhan, J., Priya, V.V., Srinivasan, M.R. (2019) Determination of reliability and practicality of saliva as a genetic source in forensic investigation by analyzing DNA yield and success rates: A systematic review. *Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology* 31(3): 218-227.
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D. DNA Extraction/Purification, Differential Extraction

1. Gill, P., Jeffreys, A.J., Werrett, D.J. (1985) Forensic application of DNA 'fingerprints'. *Nature* 318: 577-579.
2. Walsh, P.S., Metzger, D.A., Higuchi, R. (1991) Chelex 100 as a medium for simple extraction of DNA for PCR-based typing from forensic material. *Biotechniques* 10(4): 506-513.
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5. Nagy, M., Otremba, P., Krüger, C., Bergner-Greiner, S., Anders, P., Henske, B., Prinz, M., Roewer, L. (2005) Optimization and validation of a fully automated silica-coated magnetic beads purification technology in forensics. *Forensic Science International* 152(1): 13-22.
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10. Brevnov, M.G., Pawar, H.S., Mundt, J., Calandro, L.M., Furtado, M.R., Shewale, J.G. (2009) Developmental validation of the PrepFiler Forensic DNA Extraction Kit for extraction of genomic DNA from biological samples. *Journal of Forensic Sciences* 54(3): 599-607.
11. Stray, J.E., Liu, J.Y., Brevnov, M.G., Shewale, J.G. (2010) Extraction of DNA from forensic biological samples for genotyping. *Forensic Science Review* 22(2): 159-175.
12. Stray, J.E. and Shewale, J.G. (2010) Extraction of DNA from human remains. *Forensic Science Review* 22(2): 177-185.

13. Frégeau, C.J., Lett, C.M., Fourney, R.M. (2010) Validation of a DNA IQ™-based extraction method for TECAN robotic liquid handling workstations for processing casework. *Forensic Science International: Genetics* 4(5): 292-304.
14. Lee, S.B., Shewale, J.G. (2017). DNA Extraction Methods in Forensic Analysis. In “Encyclopedia of Analytical Chemistry” pp 1–18. John Wiley & Sons, Ltd.

E. DNA Quantitation, Degraded DNA

1. Lee, S.B., McCord, B., Buel, E. (2014) Advances in forensic DNA quantification: a review. *Electrophoresis* 35: 3044-3052.
2. Lindahl, T. (1993) Instability and decay of the primary structure of DNA. *Nature* 362: 709-715.
3. Butler, J.M., Shen, Y., McCord, B.R. (2003) The development of reduced size STR amplicons as tools for analysis of degraded DNA. [*Journal of Forensic Sciences* 48\(5\) 1054-1064.](#)
4. Green, R.L., Roinestad, I.C., Boland, C., Hennessy, L.K. (2005) Developmental validation of the Quantifiler real-time PCR kits for the quantification of human nuclear DNA samples. *Journal of Forensic Sciences* 50(4): 809-825.
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F. PCR Amplification, Inhibition, and Artifacts

1. Walsh, P.S., Erlich, H.A. and Higuchi, R. (1992) Preferential PCR amplification of alleles: mechanisms and solutions. *PCR Methods & Applications* 1(4): 241-250.
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4. Bloch, W. (1991) A biochemical perspective of the polymerase chain reaction. *Biochemistry* 30: 2735-2747.
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6. Walsh, P.S., Fildes, N.J., Reynolds, R. (1996) Sequence analysis and characterization of stutter products at the tetranucleotide repeat locus vWA. *Nucleic Acids Research* 24(14): 2807-2812.
7. Leclair, B., Sgueglia, J.B., Wojtowicz, P.C., Juston, A.C., Frégeau, C.J., Fourney, R.M. (2003) STR DNA typing: increased sensitivity and efficient sample consumption using reduced PCR reaction volumes. *Journal of Forensic Sciences* 48(5): 1001-1013.
8. Alaeddini, R. (2012) Forensic implications of PCR inhibition—A review. *Forensic Science International: Genetics* 6(3): 297-305.
9. Kumar, P., Gupta, R., Singh, R., Jasuja, O.P. (2015) Effects of latent fingerprint development reagents on subsequent forensic DNA typing: a review. *Journal of Forensic and Legal Medicine* 32:64-69.
10. Cavanaugh, S.E. and Bathrick, A.S. (2018) Direct PCR amplification of forensic touch and other challenging DNA samples: A review. *Forensic Science International: Genetics* 32: 40-49.

G. Capillary Electrophoresis Separation and Detection

1. Butler, J.M., Buel, E., Crivellente, F., McCord, B.R. (2004) Forensic DNA typing by capillary electrophoresis using the ABI Prism 310 and 3100 Genetic Analyzers for STR analysis. *Electrophoresis* 25: 1397-1412.
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5. Mansfield, E.S., Robertson, J.M., Vainer, M., Isenberg, A.R., Frazier, R.R., Ferguson, K., Chow, S., Harris, D.W., Barker, D.L., Gill, P.D., Budowle, B., McCord, B.R. (1998) Analysis of multiplexed short tandem repeat (STR) systems using capillary array electrophoresis. *Electrophoresis* 19(1): 101-107.
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Validation of short tandem repeats (STRs) for forensic usage: performance testing of fluorescent multiplex STR systems and analysis of authentic and simulated forensic samples. *Journal of Forensic Sciences* 46(3): 647-660.

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11. Rakay, C.A., Bregu, J. and Grgicak, C.M. (2012) Maximizing allele detection: Effects of analytical threshold and DNA levels on rates of allele and locus drop-out. *Forensic Science International: Genetics* 6(6): 723-728.
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H. Assessing Sample Suitability and Complexity, Low-Template DNA

1. Gill, P., Whitaker, J., Flaxman, C., Brown, N., Buckleton, J. (2000) An investigation of the rigor of interpretation rules for STRs derived from less than 100 pg of DNA. *Forensic Science International* 112(1):17-40.
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I. Estimating the Number of Contributors

1. Buckleton, J.S., Curran, J.M. and Gill, P. (2007) Towards understanding the effect of uncertainty in the number of contributors to DNA stains. *Forensic Science International: Genetics* 1(1): 20-28.
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9. Young, B.A., Gettings, K.B., McCord, B., Vallone, P.M. (2019) Estimating number of contributors in massively parallel sequencing data of STR loci. *Forensic Science International: Genetics* 38: 15-22.
10. Marciano, M.A. and Adelman, J.D. (2019) Developmental validation of PACE™: Automated artifact identification and contributor estimation for use with GlobalFiler™ and PowerPlex® Fusion 6C generated data. *Forensic Science International: Genetics* 43: 102140.
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W. DNA Transfer and Activity Level Reporting

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X. Non-Human DNA Testing

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Z. General Forensic Science Topics

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