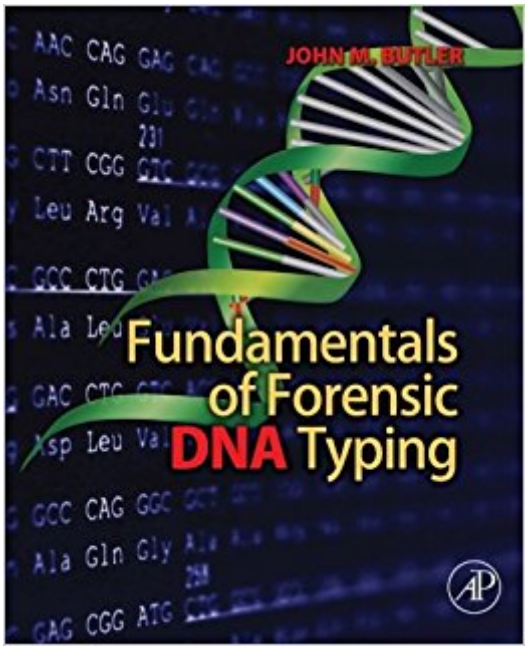
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Fundamentals Of Forensic DNA Typing



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Synopsis

Fundamentals of Forensic DNA Typing is written with a broad viewpoint. It examines the methods of current forensic DNA typing, focusing on short tandem repeats (STRs). It encompasses current forensic DNA analysis methods, as well as biology, technology and genetic interpretation. This book reviews the methods of forensic DNA testing used in the first two decades since early 1980Ã¢â ¬â„¢s, and it offers perspectives on future trends in this field, including new genetic markers and new technologies. Furthermore, it explains the process of DNA testing from collection of samples through DNA extraction, DNA quantitation, DNA amplification, and statistical interpretation. The book also discusses DNA databases, which play an important role in law enforcement investigations. In addition, there is a discussion about ethical concerns in retaining DNA profiles and the issues involved when people use a database to search for close relatives. Students of forensic DNA analysis, forensic scientists, and members of the law enforcement and legal professions who want to know more about STR typing will find this book invaluable.Includes a glossary with over 400 terms for quick reference of unfamiliar terms as well as an acronym guide to decipher the DNA dialectContinues in the style of Forensic DNA Typing, 2e, with high-profile cases addressed in D.N.A.Boxes-- "Data, Notes & Applications" sections throughoutAncillaries include: instructor manual Web site, with tailored set of 1000+ PowerPoint slides (including figures), links to online training websites and a test bank with key

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Customer Reviews

"There is perhaps no individual better suited to author a foundational survey of forensic DNA typing than John Butler. As with past editions, ButlerÃ¢â ¬â„¢s knowledge, along with his organizational and communication skills make Fundamentals of Forensic DNA Typing a must read for students, forensic practitioners and trial attorneys. This text provides the reader with insightful and understandable explanations necessary to comprehend the underpinnings of forensic DNA analysis. It continues in the tradition of its predecessors as the premier textbook on the forensic DNA subject." - Richard Saferstein, Ph.D. Author and Forensic Science Consultant "When ScienceWatch.com, a Thomson Reuters web resource for measuring and analyzing science trends, recently listed the most influential institutions and researchers in forensic science based on journal citations, the National Institute of Standards and Technology (NIST) and one of its researchers, John Butler, were among the leaders."--ThomasNet.com "Intended as the companion to the 2010 publication, Fundamentals of Forensic DNA Typing, this title contains 18 chapters with four appendices providing up-to-date coverage of essential topics in the field of DNA analysis. The book includes new information on DNA databases, low-level DNA, and validation; a comprehensive listing of alleles for the 23 STR loci present in commercial kits, and coverage of familial searching."--Evidence Technology Magazine, July-August 2012, page 4

Fundamentals of Forensic DNA Typing Ã¢â ¬â œ John M. Butler, Ph.D., NIST Fellow and Group Leader at the National Institute of Standards and Technology (NIST) "There is perhaps no individual better suited to author a foundational survey of forensic DNA typing than John Butler. As with past editions, ButlerÃ¢â ¬â„¢s knowledge, along with his organizational and communication skills make Fundamentals of Forensic DNA Typing a must read for students, forensic practitioners and trial attorneys. This text provides the reader with insightful and understandable explanations necessary to comprehend the underpinnings of forensic DNA analysis. It continues in the tradition of its predecessors as the premier textbook on the forensic DNA subject." - Richard Saferstein, Ph.D. Author and Forensic Science Consultant "Dr. John Butler has a gift for breaking through jargon and clutter and making the science of forensic DNA typing understandable. Fundamentals of Forensic DNA Typing is a masterful work that will continue to set Butler apart from others who take on this important subject." - Stephen Patrick Hogan, M.A., J.D. Adjunct Professor of Biological Science & Criminal Justice, State University of New York at Albany "I have used John ButlerÃ¢â ¬â„¢s book on forensic DNA typing in classrooms and workshops since the first edition appeared in 2001.Ã Â The wonderful thing about this book is the clarity of its explanations and its expansive content.Ã Â Ã¢â ¬Â¦ For anyone interested in getting the clearest and most up to date information

on the field of DNA analysis, there is no other bookÃ Â that comes close in terms of content or clarity." - Bruce McCord, Ph.D. Professor of Analytical and Forensic Chemistry, International Forensic Research Institute, Florida International University John Butler, bestselling author of Forensic DNA Typing, now applies his expertise on the subject of DNA analysis into an introductory textbook. Fundamentals of Forensic DNA Typing walks students step-by-step through the DNA analysis process beginning with collection of evidence at a crime scene to the statistical interpretation of the results. Also included are brief discussions of such news worthy topics as victim identification from the September 11, 2001 attacks, the identification of the remains of the Romanovs, the last Russian Royal family, and the O.J. Simpson case. New applications, such as genetic genealogy and tracing domestic pet hairs to perpetrators, are also detailed. With its clear and understandable style and extensive list of online ancillaries and study aids, this textbook will make the subject accessible to students in forensic science courses worldwide. Includes a glossary with over 400 terms for quick reference of unfamiliar terms as well as an acronym guide to decipher the DNA dialect Continues in the style of Forensic DNA Typing, Second Edition, with high-profile cases addressed in D.N.A.Boxes-- "Data, Notes & Applications" sections throughoutÃ Â Ancillaries include: instructor manual Web site, with tailored set of 1000+ PowerPoint slides (including figures), links to online training websites and a test bank with key http://www.elsevierdirect.com/companions/9780123749994 Shelving Classification: DNA Technology / Forensic Science

I never doubted the content of the book and thus any of the information it contains; however, I am disappointed that the entire book (at least the one I received) is in black and white. There are countless figures that are best viewed in color ink. So while the written information is great for anyone wanting more information on DNA typing, it is only half useful for my use of the book.

This is very helpful book, both those who just beginners at genetics and those who professionals will find a lot of information and explanations are very clear. Highly recommend.

Dr. Butler was one of the developers of DNA typing. I have heard him lecture on it several times. He recommended this as a starter. I am enjoying getting more in-depth information than I could get in a lecture. This is a good book to start learning about this interesting subject and I would recommend it to those trying to get started in this field.

I needed some very concise and specialized information about binning strategies, and I did find it inside this book. In general from the reading of this book, I must say that almost anyone interested in the field should read it.It is wonderful to be able to read one of those that have contributed so much to our area of work. And for those of us that haven't t got the chance to listen to Dr Butler lectures, it is very nice to read his opinions in the amenable and organized way he presents the whole issue.Thanks Dr Butler!I would like Kindle books to be more affordable

This book is a good overview of forensic DNA testing. There were only a few points that could have been better explained, but I was pleased overall. Contains some true- life cases, like the O. J. Simpson trial.

But the book was exactly as advertised, its in great shape and has come in very use full in class. DNA is not an easy topic, but this book/author has a way of breaking it down into understandible sections. I've had 2 other DNA books, and simply could not keep up with the words used and the pace of the book. This is not the case with this book. Very satisfied.

Very informative and detailed reference!

This book came in perfect condition! I am highly satisfied!

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