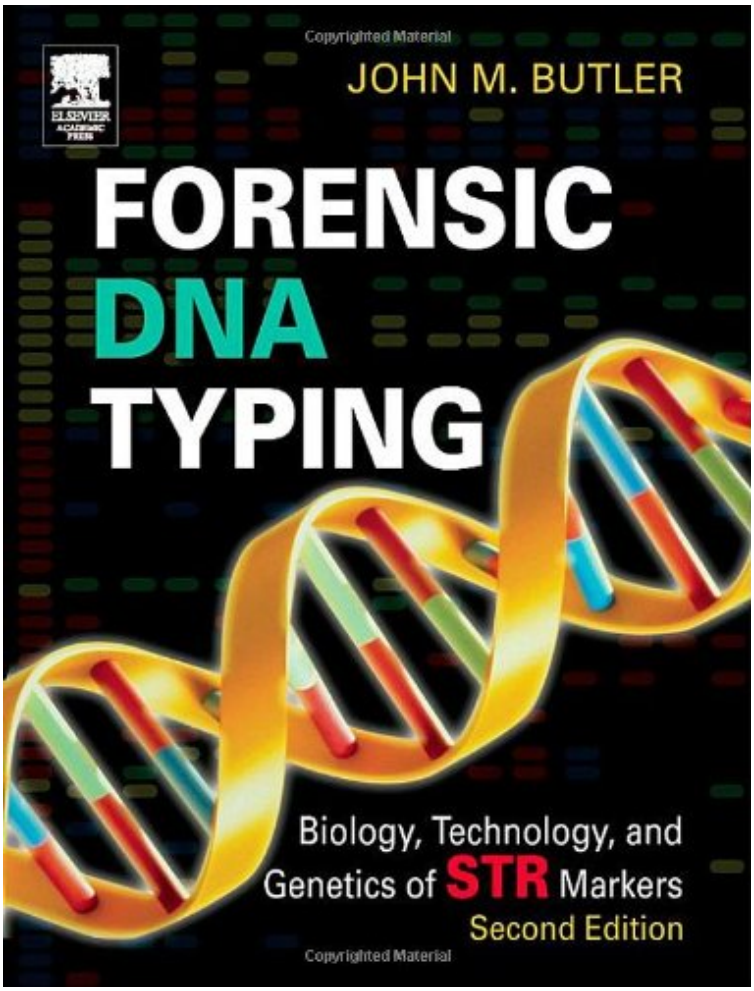
Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers

John M. Butler
*audiobook | *ebooks | Download PDF | ePub | DOC*



#834257 in Books 2005-03-08Ingredients: Example IngredientsOriginal language:EnglishPDF # 1 1.68 x 7.68 x 9.96l, 4.40 #File Name: 0121479528660 pages | File size: 56.Mb

John M. Butler : Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers before purchasing it in order to gage whether or not it would be worth my time, and all praised Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers:

2 of 2 people found the following review helpful. Outstanding Text Book on Forensic ScienceBy Wilbert J. MorellThis book is an outstanding text book for those interested in Forensic Science, Genetics, and Genealogy. However, like most text books you must realize text books are often 3-6 years behind latest science and technology. In the case of Genetics and Genealogy markers, this book is 6 years behind. However, it is put together with enough information to give the reader an expert understanding and appreciation of both the science and the technology.W. J.

MorellEnvironmental Systems Engineer Genealogist.0 of 0 people found the following review helpful. Science for the non-scientist.By Elizabeth GunnI write police procedurals and curse myself often for not taking more technical courses in school. Books like this are essentisl for getting the basics crammed into my head. I don't know enough to get all of this on a first reading, so I go back again and again, nibbling at the edges, hoping to reach the core. We're lucky to have patient teachers like John M. Butler!1 of 2 people found the following review helpful. Forensic DNA TextbookBy 4n6studentI will be using the text for my fall class at the University of Florida this fall. I just started getting into the chapters, but I like how the author brings in case history to explains different topics covered. The inclusion of charts, graphs and pictures also adds to the students comprehension of the material. I also like that the author gives numerous reference sites should additional information be sought. Oh! and I like that this book is availabe on-line or available for the Kindle reader. :)

Forensic DNA Typing, Second Edition, is the only book available that specifically covers detailed information on mitochondrial DNA and the Y chromosome. It examines the science of current forensic DNA typing methods by focusing on the biology, technology, and genetic interpretation of short tandem repeat (STR) markers, which encompass the most common forensic DNA analysis methods used today. The book covers topics from introductory level right up to cutting edge research. High-profile cases are addressed throughout the text, near the sections dealing with the science or issues behind these cases. Ten new chapters have been added to accommodate the explosion of new information since the turn of the century. These additional chapters cover statistical genetic analysis of DNA data, an emerging field of interest to DNA research. Several chapters on statistical analysis of short tandem repeat (STR) typing data have been contributed by Dr. George Carmody, a well-respected professor in forensic genetics. Specific examples make the concepts of population genetics more understandable. This book will be of interest to researchers and practitioners in forensic DNA analysis, forensic scientists, population geneticists, military and private and public forensic laboratories (for identifying individuals through remains), and students of forensic science. *The only book available that specifically covers detailed information on mitochondrial DNA and the Y chromosome*Chapters cover the topic from introductory level right up to "cutting edge" research*High-profile cases are addressed throughout the book, near the sections dealing with the science or issues behind these cases*NEW TO THIS EDITION: D.N.A. Boxes--boxed "Data, Notes Applications" sections throughout the book offer higher levels of detail on specific questions

When they write the history of forensic science for our times, Forensic DNA Typing will be cited as the classic text on the subject. John Butlers organizational and communication skills have created a book unsurpassed in its abilities to guide a reader through the principles and practices of this complex but critical subject. This book is must reading for forensic educators and their students, and requires a prominent place on the shelf of every forensic and legal practitioner.Richard Saferstein, Ph.D., Author and Forensic Science ConsultantThe much-anticipated second edition of Dr. John Butler's Forensic DNA Typing provides an enormous amount of new and valuable information about DNA typing and the issues associated with this technology. It is a must read for scientists, lawyers, academics, students, police officers or anyone who wants to understand modern DNA testing and the ways in which it has transformed criminal justice systems in the United States and around the world.Stephen Hogan, Esq., Instructor, Forensic Biology, SUNY-Albany; Faculty Member, DNA Forensics Program, American Prosecutors Research Institute...it will be clear that the book is an exceptionally comprehensive reference, touching on every relevant aspect of current forensic DNA typing practice. Apart from coverage, the book is well edited, attractively laid out, and makes productive use of its four-color format. Abundant figures and tables help explain and enumerate basic concepts as needed. A feature that is found in several parts of the book that I found particularly appealing is the detailed sourcing of information. This is a very good book, and will serve many practitioners and students of forensic DNA typing as a single source reference. It could also serve as a text for a one semester graduate level course in forensic DNA typing and technology. It is hard to think of a topic in forensic DNA typing that is not treated in the book. Accordingly, it will be a sort of standard reference book in the area. If there are plans to keep the book up to date every few years, it has the potential to become the standard reference, perhaps something akin to Clarke in drugs and toxicology. A final point is that the book is a phenomenal bargain in this day and age at around $80 a copy. There are probably minor things about which one could quibble, but it doesnt seem productive to do so when the overall product is so good. - Journal of Forensic SciencesStudents, lecturers and laboratory workers will all welcome this new edition. At 660 pages it is double the size of the former edition and clearly contains a great deal of new material as well as having been re-arranged. Dr. Butlers book goes far beyond dealing just with high profile cases and mass disasters. He has taken the opportunity in the expanded volume to explain all aspects of DNA typing in greater detail and has produced a volume which is not only informative but high readable. It is as much a book to be enjoyed by the scientist as one to educate and inform. This is a volume which contains something of value to all forensic scientists. It does not talk down to the reader but serves as a balanced guide through the rapidly developing field of DNA studies. It is a book that should be purchased rather than borrowed or just referred to as it is an outstanding guide to the subject. Journal of Clinical Forensic

MedicineFrom the Back CoverSince it was first used in a criminal investigation in 1986, forensic DNA testing has become not only one of the most high profile tools available to the legal system, but also one with a very high degree of confidence. The use of DNA testing has helped determine the perpetrators of violent crimes, resolve questioned paternity and identify the remains of missing persons or victims of mass disasters.John Butler has been involved, first in the validation of the short tandem repeat (STR) markers that form the basis of the FBI's nation-wide DNA database (CODIS) and, lately, in the development of new and innovative technologies that may influence the future of the field. If you are involved with forensic DNA testing in any way, you cannot afford not to own this book.Short tandem repeat loci will be the most widely used markers in forensic DNA analysis for many years to come, and suitable information on STR typing is needed for crime laboratory personnel as well as members of the legal community. This book examines the science of current DNA typing methods by focussing on the biology and technology behind STR markers and the most common forensic DNA analysis methods used today.Features:* Chapters cover the topic from introductory level right up to "cutting edge" research* Forensic scientists learn about the new methods and technologies required by STR typing* DNA laboratories find out how to meet the training requirements of the DNA Advisory Board Quality Assurance Standards (listed in Appendix III).* Lawyers and law enforcement professionals understand the science behind the techniques* Information listed on suppliers of DNA analysis equipment, products and servicesAbout the AuthorJohn M. Butler is a NIST Fellow and Special Assistant to the Director for Forensic Science, Office of Special Programs, at the U.S. National Institute of Standards and Technology, in Gaithersburg, Maryland. Dr. Butler earned his PhD from the University of Virginia while doing DNA research in the FBI Laboratory's Forensic Science Research Unit. He has won numerous scientific awards, including being named Science Watchs #1 world-wide high-impact author in legal medicine and forensic science over the last decade (July 2011). He has over 150 publications in this field and is a frequent presenter on the topic of DNA typing, and has authored four other DNA Typing books including Advanced Topics in Forensic DNA Typing: Methodology. For a detailed CV, visit http://www.cstl.nist.gov/strbase/butler.htm.