



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

By John M. Butler

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## Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers By John M. Butler

*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.

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\*NEW TO THIS EDITION: D.N.A. Boxes--boxed "Data, Notes & Applications"

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**Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers** By John M. Butler **Bibliography**

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### **Editorial Review**

#### Review

“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 Butler’s 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 Consultant

“The 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 doesn’t seem productive to do so when the overall product is so good. - Journal of Forensic Sciences

“Students, 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. Butler’s 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 Medicine

#### From the Back Cover

Since 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 services

About the Author

John 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 Watch's #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>.

## **Users Review**

**From reader reviews:**

**Heather Jones:**

This Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers book is not ordinary book, you have after that it the world is in your hands. The benefit you receive by reading this book is actually information inside this guide incredible fresh, you will get facts which is getting deeper you read a lot of information you will get. This particular Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers without we comprehend teach the one who examining it become critical in pondering and analyzing. Don't possibly be worry Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers can bring whenever you are and not make your tote space or bookshelves' turn into full because you can have it in the lovely laptop even cellphone. This Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers having good arrangement in word as well as layout, so you will not sense uninterested in reading.

**Joseph Benoit:**

This Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers are generally reliable for you who want to be described as a successful person, why. The reason why of this Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers can be among

the great books you must have is definitely giving you more than just simple reading through food but feed anyone with information that possibly will shock your earlier knowledge. This book is definitely handy, you can bring it everywhere you go and whenever your conditions in e-book and printed versions. Beside that this Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers forcing you to have an enormous of experience like rich vocabulary, giving you trial of critical thinking that we realize it useful in your day pastime. So , let's have it and revel in reading.

**James Holmes:**

A lot of people always spent their free time to vacation or maybe go to the outside with them household or their friend. Were you aware? Many a lot of people spent they free time just watching TV, or even playing video games all day long. If you need to try to find a new activity honestly, that is look different you can read a book. It is really fun in your case. If you enjoy the book that you just read you can spent all day every day to reading a book. The book Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers it is extremely good to read. There are a lot of folks that recommended this book. These people were enjoying reading this book. If you did not have enough space bringing this book you can buy typically the e-book. You can m0ore very easily to read this book from a smart phone. The price is not to fund but this book offers high quality.

**James Snider:**

Many people said that they feel bored when they reading a guide. They are directly felt that when they get a half elements of the book. You can choose the particular book Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers to make your own reading is interesting. Your own personal skill of reading proficiency is developing when you such as reading. Try to choose easy book to make you enjoy to see it and mingle the impression about book and reading especially. It is to be very first opinion for you to like to open up a book and read it. Beside that the guide Forensic DNA Typing, Second Edition: Biology, Technology, and Genetics of STR Markers can to be your brand-new friend when you're really feel alone and confuse in what must you're doing of the time.

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