



Forensic DNA Biology: A Laboratory Manual

By Kelly M. Elkins

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DNA typing has revolutionized criminal investigations and has become a powerful tool in the identification of individuals in criminal and paternity cases. *Forensic DNA Biology: A Laboratory Manual* is comprised of up-to-date and practical experiments and step-by-step instructions on how to perform DNA analysis, including pipetting, microscopy and hair analysis, presumptive testing of body fluids and human DNA typing. Modern DNA typing techniques are provided, reflecting real life, where not all institutions and crime labs can afford the same equipment and software. Real case studies will be used throughout.

- Provides practical step-by-step instruction on how to perform forensic DNA analysis
- Includes analysis of hair, presumptive testing of body fluids, human DNA typing and statistics
- Covers techniques such as pipetting, microscopy and DNA extraction
- Pre- and post-lab exercises and questions assist the reader in learning the material
- Report writing templates assure the reader learns real world crime lab procedure

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Editorial Review

Review

"This manual presents a collection of novel laboratory experiments intended for advanced undergraduate students and those new to the field of forensic DNA biology and DNA typing." --**Evidence Technology Magazine, July-August 2013**

About the Author

Dr. Elkins is Assistant Professor of Chemistry at Towson University where she teaches in the Masters of Science in Forensic Chemistry Program. Previously, she was the Director of Forensic Science and Assistant Professor of Chemistry at Metropolitan State College of Denver. She has her Bachelor of Science in Biology, Bachelor of Arts in Chemistry and her PhD in Chemistry with an emphasis on Biochemistry. Focused on the Forensic DNA field, she has developed a network of contacts in crime laboratories throughout Colorado and the Four Corners region and looks forward to extending her network in the Baltimore/DC area.

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