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Autore	Elkins Kelly M
Titolo	Forensic DNA biology [[electronic resource] ] : a laboratory manual / / Kelly M. Elkins
Pubbl/distr/stampa	Oxford, : Elsevier, 2012, c2013
ISBN	1-283-57266-4 9786613885111 0-12-394833-9
Descrizione fisica	1 online resource (225 p.)
Disciplina	572.86 614.1
Soggetti	Forensic genetics - Technique DNA fingerprinting Polymerase chain reaction DNA Fingerprinting Forensic Genetics - methods Polymerase Chain Reaction Sequence Analysis, DNA - methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Front Cover; Forensic DNA Biology: A Laboratory Manual; Copyright; Contents; Acknowledgements; About the Author; Welcome; Forensic DNA Biology: An Introduction; BIOLOGY OVERVIEW; RESTRICTION FRAGMENT LENGTH POLYMORPHISMS; POLYMERASE CHAIN REACTION; SHORT TANDEM REPEATS; SINGLE NUCLEOTIDE POLYMORPHISMS; MITOCHONDRIAL DNA; KNOWN VERSUS QUESTIONED SAMPLES; WHY STUDY FORENSIC DNA BIOLOGY?; Laboratory Safety; RULES FOR A SAFE LAB ENVIRONMENT; Reference; Avoiding Contamination Issues: Standard Laboratory Practices; Reference; Chapter 1 - Pipetting; OBJECTIVE; SAFETY; MATERIALS; BACKGROUND PROCEDUREQUESTIONS; GRAPHING THE DATA USING MICROSOFT EXCEL (2003); EQUATIONS; References; Chapter 2 - Serology; OBJECTIVE; SAFETY; MATERIALS; BACKGROUND; PROCEDURE; QUESTIONS; References; Chapter 3 - Sampling Biological Evidence for DNA

Extraction; OBJECTIVE; SAFETY; MATERIALS; BACKGROUND;  
PROCEDURE: DNA COLLECTION AND PACKAGING; QUESTIONS;  
References; Chapter 4 - DNA Extraction; OBJECTIVE; SAFETY;  
MATERIALS; RECIPES FOR BUFFER AND SOLUTION PREPARATION;  
BACKGROUND; PROCEDURE; QUESTION; References; Chapter 5 -  
Determination of Quality and Quantity of DNA Using Agarose Gel  
Electrophoresis  
OBJECTIVESAFETY; MATERIALS; BACKGROUND; PROCEDURE;  
QUESTIONS; Reference; Chapter 6 - Determination of DNA Quality and  
Quantity Using UV-Vis Spectroscopy; OBJECTIVE; SAFETY; MATERIALS;  
BACKGROUND; PROCEDURE; QUESTIONS; References; Chapter 7 -  
Determination of DNA Quantity by Fluorescence Spectroscopy;  
OBJECTIVE; SAFETY; MATERIALS; BACKGROUND; PROCEDURE;  
QUESTIONS; References; Chapter 8 - Real-Time Polymerase Chain  
Reaction (PCR) Quantitation of DNA; OBJECTIVE; SAFETY; MATERIALS;  
BACKGROUND; PROCEDURE; QUESTIONS; References  
Chapter 9 - Multiplex Polymerase Chain Reaction (PCR) Primer Design  
(in Silico)OBJECTIVE; SAFETY; MATERIALS; BACKGROUND; PROCEDURE;  
QUESTIONS; References; Chapter 10 - Testing Designed Polymerase  
Chain Reaction (PCR) Primers in Multiplex Reactions; OBJECTIVE;  
SAFETY; MATERIALS; BACKGROUND; PROCEDURE; QUESTIONS;  
References; Chapter 11 - Multiplex Polymerase Chain Reaction (PCR)  
Amplification of Short Tandem Repeat (STR) Loci Using a Commercial  
Kit; OBJECTIVE; SAFETY; MATERIALS; BACKGROUND; PROCEDURE;  
QUESTIONS; References  
Chapter 12 - Capillary Electrophoresis of Short Tandem Repeat (STR)  
Polymerase Chain Reaction (PCR) Products from a Commercial Multiplex  
KitOBJECTIVE; SAFETY; MATERIALS; BACKGROUND; PROCEDURE;  
QUESTION; References; Chapter 13 - Computing Random Match  
Probability from DNA Profile Data Using Population Databases;  
OBJECTIVE; SAFETY; MATERIALS; BACKGROUND; PROCEDURE;  
QUESTIONS; References; Chapter 14 - Mitochondrial Deoxyribonucleic  
Acid (mtDNA) Single Nucleotide Polymorphism (SNP) Detection;  
OBJECTIVE; SAFETY; MATERIALS; BACKGROUND; PROCEDURE;  
QUESTIONS; References  
Chapter 15 - Analysis of Deoxyribonucleic Acid (DNA) Sequence Data  
Using BioEdit

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## Sommario/riassunto

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 w

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2. Record Nr.	UNINA9910776178303321
Titolo	Design, gestaltung, formativita : philosophies of making // Patricia Ribault (editor)
Pubbl/distr/stampa	Basel : , : Birkhauser, , [2022] ©2022
ISBN	9783035622447
Descrizione fisica	1 online resource (384 pages)
Classificazione	LH 79540
Disciplina	153.35
Soggetti	Creation (Literary, artistic, etc.)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Contents -- Design, Gestaltung, Formativität. An Introduction -- Giving Form -- Estetica. Teoria della formatività. Preface to the 1988 edition, followed by "The Specification of Art" -- Formativity: A Philosophy of Making -- Gestaltung: A Process of Transformation of Forms as the Dynamic of Creativity -- Form in the Sphere of Design -- First There Is Form. Some Critical Remarks About the Belief That Form Follows Function -- No Deviation, No Life. Fine Arts and Symmetry -- Bricology: An Anthropology of Making Art -- The Threshold of Invention. Design Processes in Light of Some Methods of Projection -- From Gestalt to Gestaltung. A Conversation with Giovanni Anceschi -- From Invisible Design to Post-Optimal Objects. Interface Design and Discourses of Dematerialization since circa 1960 -- The Will to Engineer. Synthetic Biology and the Escalation of Zoöpolitics -- Buckminster Fuller: In Praise of the Imperfect -- The Design Turn 2.0 -- Form Given -- From the Invention of Manufacturing Processes to the Discovery of Matter -- Toward an Archaeology of Hanro's Design Processes of Underwear Production in the 1930s -- The Discreet Charm of Typography -- Acting Things. Choreographing the Everyday -- In Formation & -- amp -- Information in Living Material -- Rethinking the Materials Paradigm. Toward an Active Understanding of Gestaltung -- The Bark Project. Combining Science and Design to Elaborate New Models of Production for the Design Industry -- In the Flow. Incorporating the Formative Forces of Fluid Matter -- Designing

Openness. An Approach to Integrate Active Material Behavior into Digital Design Practice -- To Build a Fish. Structuring Space and Material in Skeletons -- The Role of Mechanics in the Growth and Modeling of Biological Materials -- Expansions and Imperfections. Experiments on a Self-Morphing Lattice. Attempts at Explementation. Combining Material and Symbolic Operations in Art and Design Research -- Afterword -- Biographies -- Image Credits -- Acknowledgments.

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## Sommario/riassunto

Was haben die Schaffensprozesse eines Neurochirurgen und einer Malerin gemeinsam? Mithilfe der Definitionen von „Design“, „Gestaltung“ und „Formativität“ wirft dieses Buch ein neues Licht auf die Entstehungs- und Entwicklungsprozesse der materiellen Welt. TheoretikerInnen aus unterschiedlichen Disziplinen hinterfragen die etablierten Prozesse der Formgebung, während KünstlerInnen, DesignerInnen, IngenieurInnen und WissenschaftlerInnen ihre kreativen Prozesse vorstellen. Die Leserschaft erhält einen Überblick über das Spektrum an „Philosophien des Gestaltens“ und ist eingeladen über das eigene Schaffen, dessen Möglichkeiten und die damit verbundene Verantwortung der Umwelt gegenüber nachzudenken und ins Handeln zu kommen – nie war es dringlicher, eine neue Beziehung zwischen Materie und Form herzustellen. • Diskussion und Erweiterung der Definitionen von „Design“, „Gestaltung“ und „Formativität“ • Führende internationale TheoretikerInnen äußern sich zum Verhältnis von Materie und Form • Sammlung von neuen sowie erstmals ins Englische übersetzte Schlüsseltexte zum Thema

What do the work processes of a neurosurgeon and a painter have in common? Applying the notions of “Design”, “Gestaltung”, and “Formativität”, this book sheds new light on processes of formation and transformation in the material world we live in. Scholars from the fields of history, philosophy, psychology, media, and cultural studies question established processes of giving form, while artists, designers, engineers, and scientists describe their creative processes. This book provides its readers with an overview of the spectrum of “philosophies of making” and invites them to reflect on their own creative process, its possibilities, and associated responsibilities to the environment, and ultimately to express these in action. There has never been a more urgent need to develop a new relationship between matter and form. • Discussing and expanding the definitions of “Design”, “Gestaltung”, and “Formativität” • Leading international theorists write about the relationship between matter and form • A collection of new texts and first English translation of key texts

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