
Read Free La Nuova Biologiablu Genetica DNA Evoluzione E Corpo Umano PLUS Per Le Scuole Superiori Con E Book Con Espansione Online

When people should go to the book stores, search opening by shop, shelf by shelf, it is in fact problematic. This is why we allow the ebook compilations in this website. It will very ease you to see guide **La Nuova Biologiablu Genetica DNA Evoluzione E Corpo Umano PLUS Per Le Scuole Superiori Con E Book Con Espansione Online** as you such as.

By searching the title, publisher, or authors of guide you in fact want, you can discover them rapidly. In the house, workplace, or perhaps in your method can be all best area within net connections. If you aspire to download and install the La Nuova Biologiablu Genetica DNA Evoluzione E Corpo Umano PLUS Per Le Scuole Superiori Con E Book Con Espansione Online, it is utterly easy then, back currently we extend the associate to purchase and create bargains to download and install La Nuova Biologiablu Genetica DNA Evoluzione E Corpo Umano PLUS Per Le Scuole Superiori Con E Book Con Espansione Online in view of that simple!

F9QOFL - MAHONEY ALICIA

This volume is a technical and operative contribution to the United Nations "Decade on Education for Sustainable Development" (2005-2014), aiding the development of a new generation of designers, responsible and able in the task of designing environmentally sustainable products. The book provides a comprehensive framework and a practical tool to support the de-

sign process. This is an important text for those interested in the product development processes.

The phenomenon of the small world, as in two new acquaintances discovering that they have an acquaintance in common, is of great scientific interest. The small world phenomenon appears to be a fundamental property of social structure and function. Understanding it, its origin, and its implications can shed light on problems in sociolo-

gy, sociometrics, political science, social psychology, and anthropology. This volume brings together much of what is understood about the small world problem, and the chapters indicate the quality, vitality, and scope of this area.

Exploring the social origins and history of town planning in nineteenth-century England and France. Carefully documented and copiously illustrated, *Origins of Modern Town Planning* delves into the social

origins and history of town planning in nineteenth-century England and France. The touchstone of Benevolo's research is the relationship between town planning and politics. The twofold origin of the planning concept found expression in two schools of nineteenth-century thought: the Utopians—Owen, Saint-Simon, Fourier—and their active vision of the town as a self-sufficient, coherent organism are contrasted with the specialists and officials who endeavored to remedy each urban defect individually by introducing new health regulations and social legislation into already existing towns. Despite the conceptual difference, however, Benevolo points out the shared ideology which inspired all achievements of thought and action—even the purely technical—and establishes its correspondence in spirit up to the time of modern socialism. Epigenetics can potentially revolutionize our understanding of the structure and behavior of biological life on Earth. It explains why mapping an organism's genetic code is not enough to determine how it develops or acts and shows how nurture combines with nature to engineer biological diversity. Surveying the twenty-year history

of the field while also highlighting its latest findings and innovations, this volume provides a readily understandable introduction to the foundations of epigenetics. Nessa Carey, a leading epigenetics researcher, connects the field's arguments to such diverse phenomena as how ants and queen bees control their colonies; why tortoiseshell cats are always female; why some plants need cold weather before they can flower; and how our bodies age and develop disease. Reaching beyond biology, epigenetics now informs work on drug addiction, the long-term effects of famine, and the physical and psychological consequences of childhood trauma. Carey concludes with a discussion of the future directions for this research and its ability to improve human health and well-being.

In recent years, an ever-increasing amount of research has been conducted on the physico-chemical basis of the origin and evolution of life, or protobiology. Many questions are raised in this endeavor: What research methodology should be employed? What sort of dependable facts are available as a firm frame of reference upon which the physico-chemical origin of

life or protolife could be examined? Is the origin due exclusively to chance events? If not, what is then responsible for the origin? What physical reality underlies the evolutionarily selective process leading to the origin? What role does variation assume and how is it generated in the course of evolution? Many research workers have pursued various avenues toward answering the stated questions. Among them, we believe Sidney W. Fox has been playing a very unique and pivotal role over the past quarter of a century, presiding over 240 man-years or more of laboratory work. His laboratory syntheses of thermal proteins called proteinoids and proteinoid microspheres have emphasized the principle of the self-sequencing of amino acids as a key concept of protobiological synthesis. The significance of his contribution is seen in presenting the experimental evidence that the origin of life is largely due to nonrandom events. This discovery marks a new epoch in the conceptual development of studying the origin of life by focusing on the molecular processes that underlied the emergence and evolution of protobiological information.

Provides a humorous introduction to the

fundamental principles of genetics, including inheritance, mutation, DNA, and gene splicing.

Fragmentation and coagulation are two natural phenomena that can be observed in many sciences and at a great variety of scales - from, for example, DNA fragmentation to formation of planets by accretion. This book, by the author of the acclaimed Lévy Processes, is the first comprehensive theoretical account of mathematical models for situations where either phenomenon occurs randomly and repeatedly as time passes. This self-contained treatment develops the models in a way that makes recent developments in the field accessible. Each chapter ends with a comments section in which important aspects not discussed in the main part of the text (often because the discussion would have been too technical and/or lengthy) are addressed and precise references are given. Written for readers with a solid background in probability, its careful exposition allows graduate students, as well as working mathematicians, to approach the material with confidence.

The Sparidae, commonly known as breams and porgies, is a family of fishes of the or-

der Perciformes, and includes about 115 species of mainly marine coastal fish of high economic value, exploited and farmed for human consumption, as well as for recreational purposes. This landmark publication brings together a huge wealth of information on the biology and culture of gilthead sea bream and other Sparidae species. Commencing with an overview of the current status of aquaculture of Sparidae, the book continues with comprehensive coverage of the family's phylogeny, evolution and taxonomy, stress and welfare issues, and reproduction and broodstock management. Further chapters include coverage of early development and metabolism, production systems, nutrition, quality, and health management. A final cutting-edge chapter looks at genomic-proteomic research in Sparidae and its application to genetic improvement. With contributions from Europe, the Middle East, Asia, Australasia and North America, carefully drawn together and edited by Professor M. Pavlidis and Dr C. C. Mylonas, themselves well known for their work in this area, Sparidae is an essential purchase for anyone working with this important family of fishes. Fish biologists, fish farmers, aqua-

culture researchers, and fisheries managers will all find much of great use and interest within this book's covers. All universities and research establishments where biological sciences, aquaculture and fisheries science are studied and taught should have copies of this excellent book on their shelves.

Separate Practice Tests Plus books prepare for 2020 B1 Preliminary or B1 Preliminary for Schools exams 8 complete tests Training tips and exam strategies Grammar bank Student App Number of tests: 8 Components: Students' Book with Key Students' Book without Key Online resources: Online audio Answer keys Audio scripts Overview of resources with how and when to use in class Speaking Test (video) Examiner feedback (video) About the Exam (video) Frequently asked questions (video) Video worksheets Writing samples & examiner feedback Writing worksheets Listening teaching ideas Writing teaching ideas Speaking teaching ideas Reading ideas Vocabulary maps of wordlists Student App

This book provides a broad overview of the entire field of DNA computation, tracing its

history and development. It contains detailed descriptions of all major theoretical models and experimental results to date and discusses potential future developments. It concludes by outlining the challenges currently faced by researchers in the field. This book will be a useful reference for researchers and students, as well as an accessible introduction for those new to the field.

Astound your friends and family with this impressive collection of mind-boggling facts and visual comparisons about the human body. Did you know you made 3 million new blood cells while you read this sentence? Or that you shed and regrow a whole new layer of skin every 39 days? Or that your DNA could stretch to the Sun and back not once but 16 times? 1,000 Amazing Human Body Facts is full of bite-size, fascinating nuggets of information about the incredible abilities of human bodies. Find out how many bathtubs of saliva you swallow, how many tankers of blood your heart pumps, how many gigagallons of air your lungs exhale. Discover how bone is strong enough to support the weight of a truck and be amazed by the unbelievable number of odors your nose can

smell and the seemingly infinite range of colors your eyes can see. Witness the smallest bone, the strongest muscle, the fastest nerve, the deadliest parasite. See how an eye works like a 576 megapixel camera and find out why the human brain beats the world's biggest AI supercomputer. Packed with exciting computer-generated images (CGIs), 1,000 Amazing Human Body Facts explains an astounding number of facts with jaw-dropping visual comparisons that reveal just how impressive your body really is.

This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright

on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

The first volume in this annual series of the best writing by Americans, meticulously selected by bestselling author James Gleick, one of the foremost chronicles of scientific social history, debuts with a stellar collection of writers and thinkers. Many of these cutting-edge essays offer glimpses of new realms of discovery and thought, exploring territory that is unfamiliar to most of us, or finding the unexpected in the midst of the familiar. Nobel Laureate physicist Steven Weinberg challenges the idea of whether the universe has a designer; Pulitzer Prize winner Natalie Angier reassesses caveman (and-woman) couture; bestselling author and Darwinian theorist Stephen Jay Gould makes a claim for the

man whose ideas Darwin discredited; Timothy Ferris proposes a realistic alternative to wrap-speed interseller travel; neurologist and bestselling author Oliver Sacks reminisces about his first loves-chemistry and math. This diverse, stimulating and accessible collection is required reading for anyone who wants to travel to the frontier of knowledge.

Organized around the central theme of homeostasis, *FUNDAMENTALS OF HUMAN PHYSIOLOGY* is a carefully condensed version of Lauralee Sherwood's *HUMAN PHYSIOLOGY: FROM CELLS TO SYSTEMS*. It provides clear, current, concise, clinically oriented coverage of physiology. Many analogies and frequent references to everyday experiences help students relate to the physiology concepts presented. Offering helpful art and pedagogical features, Sherwood promotes understanding of the basic principles and concepts of physiology rather than memorization of details and provides a foundation for future careers in the health professions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Russian uses his machine pistol like a

scythe. Feldwebel remains standing for a fraction of a second. The rain of bullets pours into him, making him twitch violently. He falls to the floor. The Russian grins. There is no doubt that he is enjoying himself. Sven Hassel and his comrades are ordered to take O.G.P.U. Prison in any way they can, even if it means killing the Russians with their bare hands. Armed with flame-throwers and heavy artillery, the 27th Penal Regiment plan their attack. *O.G.P.U. PRISON* is one of Sven Hassel's most compulsively readable novels, full of battle scenes, written in the gritty style that Hassel is renowned for.

Plant diversity sustains all animal life, and the genetic diversity within plants underpins global food security. This text provides a practical and theoretical introduction to the strategies and actions to adopt for conserving plant genetic variation, as well as explaining how humans can exploit this diversity for sustainable development. Notably readable, it initially offers current knowledge on the characterization and evaluation of plant genetic resources. The authors then discuss strategies from in situ and ex situ conservation to crop breeding, exploring how these can be used to im-

prove food security in the face of increasing agrobiodiversity loss, human population growth and climate change. Each chapter draws on examples from the literature or the authors' research and includes further reading references. Containing other useful features such as a glossary, it is invaluable for professionals and undergraduate and graduate students in plant sciences, ecology, conservation, genetics and natural resource management.

Wattys Award Winner - nearly two million readings in portuguese version across the trilogy on Wattpad. What mysteries are hidden beyond the stars? While most of the youngsters are concerned with faculty, friendships and even girlfriends, Nicholas spends his hours with his head out of orbit; literally. Nicholas never had a father and he is sad because of this. His dream is to know the space. the course of Astronomy, he feels better among gaseous bodies, supernova stars and black holes, dreaming in one day to unravel the great enigmas of the Universe. Until a mysterious girl enters the classroom ...And Nicolás discovers, excited, that he finds his own star. Zara is her name, the one whose hair looks like

rays of sun, the only one capable of wringing the air - and the voice - of the young protagonist of this story. And, against all possibilities, something arises between them. But do not think that this is a teenage romance like so many that you have read, because Zara, contrary to what Nicolás thinks, is not what it seems. Coming from an unknown galaxy, she has a mission: To attract Nicholas and take him to her planet, alive. At any cost. The success of her mission depends not only on her future, but on everything she believes in ... including the future of humanity. When the truth appears, Nicolás is wrapped in a web of lies and intrigue that goes beyond everything he dreamed of. Between telekinetic powers, time gaps, and scientific data, space folds, revealing that the aliens we know are closer - and more like us - than we imagine. Dive with Chaiene Santos in this dizzying story, in which the author was able to unite, with perfection, incredible theories about the future of humanity. You will be surprised with this series, which is the most read in Wattpad in the science fiction category (Portuguese). Check and get ready to change your concepts.

Somebody was in there. Somebody - or some thing... There is no Room 13 in the creepy Crow's Nest Hotel, where Fliss and her friends are staying on a school trip. Or is there? For at the stroke of midnight, something peculiar happens to the door of the linen cupboard next to Room 12. And something is happening to Ellie-May Sunderland, too - something very sinister... A gripping page-turner from the master of spooky suspense, award-winning Robert Swindells.

From New York Times bestselling author Sam Kean comes incredible stories of science, history, language, and music, as told by our own DNA. In *The Disappearing Spoon*, bestselling author Sam Kean unlocked the mysteries of the periodic table. In *The Violinist's Thumb*, he explores the wonders of the magical building block of life: DNA. There are genes to explain crazy cat ladies, why other people have no fingerprints, and why some people survive nuclear bombs. Genes illuminate everything from JFK's bronze skin (it wasn't a tan) to Einstein's genius. They prove that Neanderthals and humans bred thousands of years more recently than any of us would feel comfortable thinking. They can

even allow some people, because of the exceptional flexibility of their thumbs and fingers, to become truly singular violinists. Kean's vibrant storytelling once again makes science entertaining, explaining human history and whimsy while showing how DNA will influence our species' future. '[A]n excellent, brisk guide to what is likely to happen as opposed to the fantastically remote.' - Los Angeles Review of Books In 2018 the world woke up to gene editing with a storm of controversy over twin girls born in China with genetic changes deliberately introduced by scientists - changes they will pass on to their own offspring. Genetic modification (GM) has been with us for 45 years now, but the new system known as CRISPR or gene editing can manipulate the genes of almost any organism with a degree of precision, ease and speed that we could only dream of ten years ago. But is it ethical to change the genetic material of organisms in a way that might be passed on to future generations? If a person is suffering from a lethal genetic disease, is it unethical to deny them this option? Who controls the application of this technology, when it makes 'biohacking' - perhaps of one's own genome - a real pos-

sibility? Nessa Carey's book is a thrilling and timely snapshot of a cutting-edge technology that will radically alter our futures and the way we prevent disease. 'A focused snapshot of a brave new world.' - Nature 'A brisk, accessible primer on the fast-moving field, a clear-eyed look at a technology that is already driving major scientific advances - and raising complex ethical questions.' - Emily Anthes, *Undark*

"Fascinating and exhilarating—Sean B. Carroll at his very best."—Bill Bryson, author of *The Body: A Guide for Occupants* From acclaimed writer and biologist Sean B. Carroll, a rollicking, awe-inspiring story of the surprising power of chance in our lives and the world *Why is the world the way it is? How did we get here? Does everything happen for a reason or are some things left to chance? Philosophers and theologians have pondered these questions for millennia, but startling scientific discoveries over the past half century are revealing that we live in a world driven by chance. A Series of Fortunate Events tells the story of the awesome power of chance and how it is the surprising source of all the beauty and diversity in the living world. Like every*

other species, we humans are here by accident. But it is shocking just how many things—any of which might never have occurred—had to happen in certain ways for any of us to exist. From an extremely improbable asteroid impact, to the wild gyrations of the Ice Age, to invisible accidents in our parents' gonads, we are all here through an astonishing series of fortunate events. And chance continues to reign every day over the razor-thin line between our life and death. This is a relatively small book about a really big idea. It is also a spirited tale. Drawing inspiration from Monty Python, Kurt Vonnegut, and other great thinkers, and crafted by one of today's most accomplished science storytellers, *A Series of Fortunate Events* is an irresistibly entertaining and thought-provoking account of one of the most important but least appreciated facts of life.

Beautifully illustrated, *The A to Z of Lipstick* has everything you've ever wanted to know about lipstick in a charming, fun-to-flip-through package. Full of Poppy's best "Lip Tips," this gorgeous gift book will give you the low-down on everything from color choice and application tricks, to lipstick trends through the ages and how lip-

stick is made. Not sure whether to go glossy or matte? Need advice on the best shade for date night? Here is the classic and classy guide that every sophisticated makeup wearer needs. A cosmetics mogul from the age of eighteen, makeup expert Poppy King shares her twenty years of professional wisdom through this celebration of her favorite type of makeup.

The Cambridge IGCSE® & O Level Complete Biology Student Book is at the heart of delivering the course. It has been fully updated and matched to the latest Cambridge IGCSE (0610) & O Level (5090) Biology syllabuses, ensuring it covers all the content that students need to succeed. The Student Book is written by Ron Pickering, the experienced and trusted author of our previous, best-selling edition. It has been reviewed by subject experts globally to ensure it meets teachers' needs. The book offers a rigorous approach, with a light touch to make it engaging. Varied and flexible assessment-focused support and exam-style questions improve students' performance and help them to progress, while the enriching content equips learners for further study. The Student Book is available in print, online or

via a great-value print and online pack. The supporting Exam Success Guide and Practical Workbook help students achieve top marks in their exams, while the Workbook, for independent practice, strengthens exam potential inside and outside the classroom.

This fourth edition of the best-selling textbook, *Human Genetics and Genomics*, clearly explains the key principles needed by medical and health sciences students, from the basis of molecular genetics, to clinical applications used in the treatment of both rare and common conditions. A newly expanded Part 1, *Basic Principles of Human Genetics*, focuses on introducing the reader to key concepts such as Mendelian principles, DNA replication and gene expression. Part 2, *Genetics and Genomics in Medical Practice*, uses case scenarios to help you engage with current genetic practice. Now featuring full-color diagrams, *Human Genetics and Genomics* has been rigorously updated to reflect today's genetics teaching, and includes updated discussion of genetic risk assessment, "single gene" disorders and therapeutics. Key learning features include: Clinical snapshots to help relate science to practice 'Hot topics' boxes

that focus on the latest developments in testing, assessment and treatment 'Ethical issues' boxes to prompt further thought and discussion on the implications of genetic developments 'Sources of information' boxes to assist with the practicalities of clinical research and information provision Self-assessment review questions in each chapter Accompanied by the Wiley E-Text digital edition (included in the price of the book), *Human Genetics and Genomics* is also fully supported by a suite of online resources at www.korfgenetics.com, including: Factsheets on 100 genetic disorders, ideal for study and exam preparation Interactive Multiple Choice Questions (MCQs) with feedback on all answers Links to online resources for further study Figures from the book available as PowerPoint slides, ideal for teaching purposes The perfect companion to the genetics component of both problem-based learning and integrated medical courses, *Human Genetics and Genomics* presents the ideal balance between the bio-molecular basis of genetics and clinical cases, and provides an invaluable overview for anyone wishing to engage with this fast-moving discipline.

We've all heard stories of people who've experienced seemingly miraculous recoveries from illness, but can the same thing happen for our world? According to pioneering biologist Bruce H. Lipton, it's not only possible, it's already occurring. In *Spontaneous Evolution*, this world-renowned expert in the emerging science of epigenetics reveals how our changing understanding of biology will help us navigate this turbulent period in our planet's history and how each of us can participate in this global shift. In collaboration with political philosopher Steve Bhaerman, Dr. Lipton invites readers to reconsider: •the "unquestionable" pillars of biology, including random evolution, survival of the fittest, and the role of DNA; •the relationship between mind and matter; •how our beliefs about nature and human nature shape our politics, culture, and individual lives; and •how each of us can become planetary "stem cells" supporting the health and growth of our world. By questioning the old beliefs that got us to where we are today and keep us stuck in the status quo, we can trigger the spontaneous evolution of our species that will usher in a brighter future. .

A New York Times Notable Book of 2014 We are doomed to repeat history if we fail to learn from it, but how are we affected by the forces that are invisible to us? What role does Neanderthal DNA play in our genetic makeup? How did the theory of eugenics embraced by Nazi Germany first develop? How is trust passed down in Africa, and silence inherited in Tasmania? How are private companies like Ancestry.com uncovering, preserving and potentially editing the past? In *The Invisible History of the Human Race*, Christine Kenneally reveals that, remarkably, it is not only our biological history that is coded in our DNA, but also our social history. She breaks down myths of determinism and draws on cutting-edge research to explore how both historical artefacts and our DNA tell us where we have come from and where we may be going.

A comprehensive and comical new illustrated guide to algebra Do you think that a Cartesian plane is a luxury jetliner? Does the phrase "algebraic expression" leave you with a puzzled look? Do you believe that the Order of Operations is an Emmy-winning medical drama? Then you need *The Cartoon Guide to Algebra* to put

you on the road to algebraic literacy. *The Cartoon Guide to Algebra* covers all of algebra's essentials—including rational and real numbers, the number line, variables, expressions, laws of combination, linear and quadratic equations, rates, proportion, and graphing—with clear, funny, and easy-to-understand illustrations, making algebra's many practical applications come alive. This latest math guide from New York Times bestselling author Larry Gonick is an essential supplement for students of all levels, in high school, college, and beyond. School's most dreaded subject has never been more fun.

An accessible undergraduate textbook on the essential math concepts used in the life sciences The life sciences deal with a vast array of problems at different spatial, temporal, and organizational scales. The mathematics necessary to describe, model, and analyze these problems is similarly diverse, incorporating quantitative techniques that are rarely taught in standard undergraduate courses. This textbook provides an accessible introduction to these critical mathematical concepts, linking them to biological observation and theory while also presenting the computational

tools needed to address problems not readily investigated using mathematics alone. Proven in the classroom and requiring only a background in high school math, *Mathematics for the Life Sciences* doesn't just focus on calculus as do most other textbooks on the subject. It covers deterministic methods and those that incorporate uncertainty, problems in discrete and continuous time, probability, graphing and data analysis, matrix modeling, difference equations, differential equations, and much more. The book uses MATLAB throughout, explaining how to use it, write code, and connect models to data in examples chosen from across the life sciences. Provides undergraduate life science students with a succinct overview of major mathematical concepts that are essential for modern biology Covers all the major quantitative concepts that national reports have identified as the ideal components of an entry-level course for life science students Provides good background for the MCAT, which now includes data-based and statistical reasoning Explicitly links data and math modeling Includes end-of-chapter homework problems, end-of-unit student projects, and select answers to homework problems

Uses MATLAB throughout, and MATLAB m-files with an R supplement are available online. Prepares students to read with comprehension the growing quantitative literature across the life sciences. A solutions manual for professors and an illustration package is available.

Spherical nucleic acids (SNAs) comprise a nanoparticle core and a densely packed and highly oriented nucleic acid shell, typically DNA or RNA. They have novel architecture-dependent properties that distinguish them from all other forms of nucleic acids and make them useful in materials synthesis, catalysis, diagnostics, therapeutics, and optics/plasmonics. This book covers over two decades of Dr. Mirkin's research on SNAs and their anisotropic analogues, including synthesis and fundamental properties, and applications in colloidal crystallization, adaptive matter, and nanomedicine, spanning extra- and intracellular diagnostics, gene regulation, and immunomodulation. It is a reprint volume that compiles 101 key papers from high-impact journals in this research area published by the Mirkin Group at Northwestern University, Illinois, USA, within the Interna-

tional Institute for Nanotechnology, and collaborators. Volume 1 provides an overview and a historical framework of engineering matter from DNA-modified constructs and discusses the enabling features of nucleic acid-functionalized nanomaterials. Volume 2 covers design rules for colloidal crystallization, building blocks for crystal engineering, and DNA and RNA as programmable bonds. Volume 3 discusses colloidal crystallization processes and routes to hierarchical assembly, dynamic nanoparticle superlattices, surface-based and template-confined colloidal crystallization, optics and plasmonics with nanoparticle superlattices, and postsynthetic modification and catalysis with nanoparticle superlattices. Volume 4 covers diagnostic modalities, and intracellular therapeutic and diagnostic schemes based upon nucleic acid-functionalized nanomaterials.

Why is life the way it is? Bacteria evolved into complex life just once in four billion years of life on earth—and all complex life shares many strange properties, from sex to ageing and death. If life evolved on other planets, would it be the same or completely different? In *The Vital Question*, Nick Lane radically reframes evolutionary

history, putting forward a cogent solution to conundrums that have troubled scientists for decades. The answer, he argues, lies in energy: how all life on Earth lives off a voltage with the strength of a bolt of lightning. In unravelling these scientific enigmas, making sense of life's quirks, Lane's explanation provides a solution to life's vital questions: why are we as we are, and why are we here at all? This is ground-breaking science in an accessible form, in the tradition of Charles Darwin's *The Origin of Species*, Richard Dawkins' *The Selfish Gene*, and Jared Diamond's *Guns, Germs and Steel*.

'I'm just so excited for everyone to discover *Cold-Hearted Rake*, and for me to read the rest of the Ravenel series!' Sarah MacLean
A twist of fate . . . Devon Ravenel, London's most wickedly charming rake, has just inherited an earldom. But his powerful new rank in society comes with unwanted responsibilities, and more than a few surprises. His estate is saddled with debt, and the late earl's three innocent sisters are still occupying the house . . . along with Kathleen, Lady Trenear, a beautiful young widow whose sharp wit and determination are more than a match for De-

von's own. A clash of wills . . . Kathleen knows better than to trust a ruthless scoundrel like Devon. But the fiery attraction between them is impossible to deny - and from the first moment Devon holds her in his arms, he vows to do whatever it takes to possess her. As Kathleen finds herself yielding to his skilfully erotic seduction, only one question remains: Can she keep from surrendering her heart to the most dangerous man she's ever known? 'Kleypas can make you laugh and cry - on the same page' Julia Quinn This is the breathtaking first novel in the Ravenel series by New York Times bestselling author Lisa Kleypas - perfect for fans of Sarah Ma-

cLean, Julia Quinn and Eloisa James. The Ravenels: Cold-Hearted Rake Marrying Winterborne Devil in Spring Hello Stranger Devil's Daughter Chasing Cassandra Praise for Lisa Kleypas: 'Intricately and elegantly crafted, intensely romantic . . . A gratifying series starter from a not-to-be-missed romance author' Kirkus Reviews 'Kleypas is an amazing writer. In my opinion, she might be the most technically skilled historical romance author out there' Smart Bitches, Trashy Books 'Insightful characterisation, an abundance of super-charged sexual chemistry, a dash of dry humour, and a to-die-for hero, all of which will have the author's legions of fans giddy with delight at her triumphant return to historical ro-

manace' Booklist '[An] addictive, rewarding story . . . This delightful, compelling story is the first in Kleypas's new Victorian series about the Ravenel family' Library Journal 'Readers are introduced to the unforgettable characters and their original personalities through a delightful storyline peppered with sharp repartee and steamy sensuality' RT Book Reviews (top pick) 'Cold-Hearted Rake brings to mind some of the best elements of her Hathaway, Wallflower, Gambler, and Capital Theatre series novels.... Reading Kleypas' long-awaited return to historical is akin to walking into the arms of an old friend' Heroes and Heartbreakers