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award winning physician and new york times bestselling author sharon moalem md phd reveals how genetic breakthroughs are completely transforming our understanding of both the world and our lives inheritance conventional wisdom dictates that our genetic destiny is fixed at conception but dr moalem s groundbreaking book shows us that the human genome is far more fluid and fascinating than your ninth grade biology teacher ever imagined by bringing us to the bedside of his unique and complex patients he masterfully demonstrates what rare genetic conditions can teach us all

about our own health and well being in the brave new world we re rapidly rocketing into genetic knowledge has become absolutely crucial inheritance provides an indispensable roadmap for this journey by teaching you why you may have recovered from the psychological trauma caused by childhood bullying but your genes may remain scarred for life how fructose is the sugar that makes fruits sweet but if you have certain genes consuming it can buy you a one way trip to the coroner s office why ingesting common painkillers is like dosing yourself repeatedly with morphine if you have a certain set of genes how insurance companies legally use your genetic data to predict the risk of disability for you and your children and how that impacts the coverage decisions they make for your family how to have the single most important conversation with your doctor one that can save your life and finally why people with rare genetic conditions hold the keys to medical problems affecting millions in this trailblazing book dr moalem employs his wide ranging and entertaining interdisciplinary approach to science and medicine explaining how art history superheroes sex workers and sports stars all help us understand the impact of our lives on our genes and our genes on our lives inheritance will profoundly alter how you view your genes your health and your life

this edited volume presents the current state of the art of genetics education and the challenges it holds for teaching as well as for learning it addresses topics such as how genetics should be taught in order to provide students with a wide and connected view of the field it gives in depth aspects that should be considered for teaching genetics and the effect on the student s understanding this book provides novel ideas for biology teachers curriculum developers and researchers on how to confront the presented challenges in a way that may enable them to advance genetics education in the 21st century it reviews the complexity of teaching and learning genetics largely overlooked by biology textbooks and classroom instruction it composes a crucial component of scientific literacy

the author team welcomes a new coauthor sean b carroll a recognized leader in the field of evolutionary development to this new edition of introduction to genetic analysis iga the authors ambitious new plans for this edition focus on showing how genetics is practiced today in particular the new edition renews its emphasis on how genetic analysis can be a powerful tool for answering biological questions of all types special preview available

with each edition an introduction to genetic analysis iga evolves discovery by discovery with the world of genetic research taking students from the foundations of mendelian genetics to the latest findings and applications by focusing on the landmark experiments that define the field with its author team of prominent scientists who are also highly accomplished educators iga again combines exceptional currency expansive updating of its acclaimed problem sets and a variety of new ways to learn genetics

this book brings together for the first time philosophers of biology to write about some of the most central concepts and issues in their field from the perspective of biology education the chapters of the book cover a variety of topics ranging from traditional ones such as biological explanation biology

and religion or biology and ethics to contemporary ones such as genomics systems biology or evolutionary developmental biology each of the 30 chapters covers the respective philosophical literature in detail and makes specific suggestions for biology education the aim of this book is to inform biology educators undergraduate and graduate students in biology and related fields students in teacher training programs and curriculum developers about the current state of discussion on the major topics in the philosophy of biology and its implications for teaching biology in addition the book can be valuable to philosophers of biology as an introductory text in undergraduate and graduate courses

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identifying and exploring the challenges in understanding and responding to youth crime this book investigates the different contexts which contribute to youth offending as well as those which either help or hinder effective youth justice responses to it supporting readers to evaluate traditional understandings and responses to youth offending this critical evidence based text engages with a variety of international case studies practice examples and expert perspectives from academic researchers in the field delving into theoretical conceptual empirical policy and practice issues youth offending in context will be of great value to students of youth justice youth offending youth crime crime prevention and criminal justice

genetics accepts contributions that present the results of original research in genetics and related scientific disciplines

exploring the world of genetic research from the foundations of mendelian genetics to todays latest findings and applications introduction to genetic analysis gives you a variety of ways to learn and understand genetics

the emphasis of this book is on those aspects of medical genetics most useful in a modern clinical practice clinical aspects of molecular genetics research have been incorporated throughout the spectrum of genetically determined diseases as such the book covers not only chromosomal and single gene disorders but also the more challenging multifactorial diseases

how genes are not the only basis of heredity and what this means for evolution human life and disease for much of the twentieth century it was

assumed that genes alone mediate the transmission of biological information across generations and provide the raw material for natural selection in extended heredity leading evolutionary biologists russell bonduriansky and troy day challenge this premise drawing on the latest research they demonstrate that what happens during our lifetimes and even our grandparents and great grandparents lifetimes can influence the features of our descendants on the basis of these discoveries bonduriansky and day develop an extended concept of heredity that upends ideas about how traits can and cannot be transmitted across generations by examining the history of the gene centered view in modern biology and reassessing fundamental tenets of evolutionary theory bonduriansky and day show that nongenetic inheritance involving epigenetic environmental behavioral and cultural factors could play an important role in evolution the discovery of nongenetic inheritance therefore has major implications for key questions in evolutionary biology as well as human health extended heredity reappraises long held ideas and opens the door to a new understanding of inheritance and evolution

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the journal discusses articles on gene action regulation and transmission in both plant and animal species including the genetic aspects of botany cytogenetics and evolution zoology and molecular and developmental biology

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