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*Living with an Unknown*

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**Hardy-Weinberg Equilibrium**

~~Debunking "Vaush is Wrong~~

~~about Race and IQ" by Race~~

~~Realist Ubersoy w/ PhD~~

~~Candidate Kevin Bird Genetic~~

~~Engineering Will Change~~

~~Everything Forever — CRISPR~~

~~Three point mapping and gene  
order~~

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IQ expert James R. Flynn

talks about his new book

'Does Your Family Make You

Smarter?'

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Is Height Genetic? *GENETICS*

*101 (Part 1) - Chromosomes,*

*DNA and Genes | CXC Biology*

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and Punnett Squares Do  
*genetic mutations drive*  
*evolution? (Creation Basics,*  
*Episode 110) Mutations*  
~~(Updated)~~ inheritance part  
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Longevity research often  
focuses on short-lived lab  
animals like mice - but a  
study of long-lived rockfish

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might offer new genetic clues for extending lifespans ...

## **Deep-sea rockfish that live to be 200 hint at genes for longevity**

Paul Rand: Because of genetic variations, the discoveries of a GWAS of all ... No one really knows the answer. Is it because the genes involved with the traits that are selected for in schooling are ...

## **Do your genes determine your success in life? with Kathryn Paige Harden (Ep. 80)**

"Our findings confirm that applying newly developed

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molecular and computational tools on existing data can provide answers ... genes, a phenomenon called multilocus pathogenic variation, results ...

**Researchers make strides identifying genetic causes of rare neurodevelopmental disorders in the Turkish and worldwide populations**

Sex is only one of nature's several ways of shuffling genes so that there's plenty of variability among organisms. Variations improve the likelihood ...  
Rockefeller University Allow me to answer the ...

**What Would Life Be Like**

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## **Without Sex?**

Racism, racial inequality and many other race-related issues are very hot topics within society today. From protests to rallies to discussions with friends and family, race is something that everyone ...

## **A discussion on what race really is and why it matters**

The answer goes to the core of a fundamental ... healthy to have a genome consisting entirely of the mother's genes. Genetic variation is all-important in the health of an individual and its ...

## **How 'Virgin Births' Could Help Rescue Endangered**



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## **Species**

The answer goes to the core of a fundamental ... healthy to have a genome consisting entirely of the mother's genes. Genetic variation is all-important in the health of an individual and its ...

**The endangered condor surprised researchers by producing fatherless chicks. Could 'virgin birth' rescue the species?**

The answer goes to the core of a fundamental ... healthy to have a genome consisting entirely of the mother's genes. Genetic variation is all-important in the health of an individual and its ...

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**Could "virgin births" to fatherless chicks rescue an endangered condor?**

Clues that problems with mitochondria contribute to autism have been accumulating for decades. In the past five years, a mutant mouse and a flurry of findings have energized the field.

**Meet the 'mitomaniacs' who say mitochondria matter in autism**

Anne Wojcicki, CEO of 23andMe, wants to take on Big Pharma with the reams of personal genomic data her company has amassed.

**If you've taken a DNA saliva**

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**test, you could be part of a bigger plan**

He points out that African genes hold a wealth of genetic variation, beyond that observed by scientists in Europe and elsewhere. "We are all African but only a small fraction of Africans moved out of ...

**Why Africa urgently needs its own genetic library**

Most phenotypes are determined by the interaction of an organism's genotype, its set of genes, with the environment ... because they show the greatest variation in hair colour.

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An inspiring introduction to a vital scientific field. The reader is taken through ten mathematical derivations that lead to important results, explaining in a hands-on manner the key concepts and methods of theoretical population genetics. The derivations are carefully worked out and easy to follow. Particular attention is given to the underlying assumptions and the mathematics used. The results are discussed and broadened out with relevant current implications. All topics feature questions with helpful answers. The

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book is intended for the reader who already knows some population genetics but requires a more comprehensive understanding. It is particularly suited to those who analyse genetic data and wish to better grasp what their results actually mean. It will also be helpful for those who wish to understand how population genetics contributes to the explanation of evolution. Or as the writers claim: If one wants to understand life - in all its improbable and amazing richness - one must start by understanding population genetics.

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The advances made possible by the development of molecular techniques have in recent years revolutionized quantitative genetics and its relevance for population genetics. Population Genetics and Microevolutionary Theory takes a modern approach to population genetics, incorporating modern molecular biology, species-level evolutionary biology, and a thorough acknowledgment of quantitative genetics as the theoretical basis for population genetics. Logically organized into three main sections on population structure and

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history, genotype-phenotype interactions, and selection/adaptation  
Extensive use of real examples to illustrate concepts  
Written in a clear and accessible manner and devoid of complex mathematical equations  
Includes the author's introduction to background material as well as a conclusion for a handy overview of the field and its modern applications  
Each chapter ends with a set of review questions and answers  
Offers helpful general references and Internet links

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Conservation and the Genetics of Populations gives a comprehensive overview of the essential background, concepts, and tools needed to understand how genetic information can be used to develop conservation plans for species threatened with extinction. Provides a thorough understanding of the genetic basis of biological problems in conservation. Uses a balance of data and theory, and basic and applied research, with examples taken from both the animal and plant kingdoms. An associated website contains example



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data sets and software programs to illustrate population genetic processes and methods of data analysis. Discussion questions and problems are included at the end of each chapter to aid understanding. Features Guest Boxes written by leading people in the field including James F. Crow, Nancy FitzSimmons, Robert C. Lacy, Michael W. Nachman, Michael E. Soule, Andrea Taylor, Loren H. Rieseberg, R.C. Vrijenhoek, Lisette Waits, Robin S. Waples and Andrew Young. Supplementary information designed to support Conservation and the Genetics

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of Populations including:  
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illustrating problems from  
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available. Please contact our  
Higher Education team at [HigherEducation@wiley.com](mailto:HigherEducation@wiley.com) for more  
information.

This title provides an  
extremely helpful analysis  
of genes that may be  
associated with  
autoimmunity, and answers  
questions such as how these

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genes can be identified, and how the functions of the gene products can be elucidated. Incorporating data on disease-associated chromosomal loci that has been accumulated from inbred mice, the title: describes how some susceptibility loci may be common to many diseases, whereas others are relatively disease specific discusses the importance of developing criteria for establishing the significance of these different categories of disease-associated loci.

Who am I? Where do I come from? Biologically speaking, the answers to these

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questions are far more complicated than a name and hometown. Advances in science now allow an individual to map his or her genes and trace his or her ancestry. Engaging language and detailed, colorful images, charts, and diagrams simplify complicated scientific principles into pieces of information students can comprehend more easily to help them answer the question, How are traits passed down from parent to offspring? Readers will learn how genetic variation results from gene mutations and sexual reproduction, as well as how asexual reproduction works, which

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will allow them to understand how an organism's functions depend on its specific gene structure. Features include: Supports the Next Generation Science Standards on heredity and inheritance of traits. Provides students with a deeper understanding of cause and effect relationships at the genetic level so they can predict outcomes, such as traits, in nature. Informative sidebars dive deeper into related timely topics. Further Reading with current books and informative websites as well as a Bibliography encourage further exploration of the subject.

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The processes by which the budding yeast *Saccharomyces cerevisiae* metabolizes carbon sources by both fermentation and respiration have been studied for more than a century. Yeast metabolism has been used both industrially, for the production of important molecules such as ethanol, and as a model for basic scientific research. Applied scientists have studied yeast metabolism to create and optimize novel metabolic phenotypes not naturally found in *Saccharomyces* yeasts. In parallel, basic scientists have used yeast as a model to understand

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fundamental processes such as evolutionary adaptation, as well as the pathways of carbon metabolism themselves. There are many unanswered questions in both of these fields, some of which I have addressed in this work. With respect to the industrial importance of yeast, I asked whether there are naturally existing *Saccharomyces* yeasts that can metabolize the five-carbon sugars important for lignocellulosic ethanol production (such as xylose), and, if so, what is the genetic basis for their phenotypes? Having characterized natural genetic variation in xylose

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metabolism, I also wanted to understand something more fundamental about how carbon metabolism can adapt, including the molecular nature of adaptations to selection on a limiting carbon source. Specifically, I asked what is the niche breadth of, and are there genetic trade-offs in, yeast that have been evolved under glucose-limitation? I have used a combination of classical genetics, physiology, and high-throughput genomics to answer these two questions. I have discovered novel xylose-utilizing *Saccharomyces* yeasts and have shed considerable light



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on the genetic basis for their phenotypes. In addition, I have discovered at least one trade-off for adaptation to limiting glucose, namely that amplification of the hexose-transporter genes HXT6 and HXT7 causes reduced fitness in carbon-rich environments. These two projects highlight two major spheres of *Saccharomyces* research, and they provide key answers to outstanding questions in both fields.

What exactly is a gene? How does cloning actually work? Are designer babies a bad idea? Could we ever clone a human? The Rough Guide To

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Genes & Cloning answers all these questions and more. From the inside story of cells and their structure and the sleuths who cracked the genetic code to DNA cloning, twins and Dolly the sheep. Illustrated throughout with helpful pictures and diagrams, this Rough Guide turns the microscope on the things that make us what we are.

## Genetics and Evolution

The rise of the multi-billion dollar ancestry testing industry points to one immutable truth about us as human beings: we want to know where we come from and

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who our ancestors were. John H. Relethford and Deborah A. Bolnick explore this topic and many more in this second edition of *Reflections of Our Past*. Where did modern humans come from and how important are the biological differences among us? Are we descended from Neandertals? How should we understand the connections between genetic ancestry, race, and identity? Were Native Americans the first to inhabit the Americas? Can we see evidence of the Viking invasions of Ireland a millennium ago even in the Irish of today? Through engaging examination of issues such as these, and

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using non-technical language, Reflections of Our Past shows how anthropologists use genetic information to suggest answers to fundamental questions about human history. By looking at genetic variation in the world today and in the past, we can reconstruct the recent and remote events and processes that have created the variation we see, providing a fascinating reflection of our genetic past.

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