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genetics. scientific  
study of heredity.

fertilization. process in  
sexual reproduction in  
which male and  
female reproductive  
cells join to form a  
new cell.

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passes from parent to  
offspring during  
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representative from  
each chromosome  
pair, unite. ch11.pdf

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Work of Gregor  
Mendel.

Gregor Mendel's  
Peas. Gregor Mendel



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was an Austrian monk who spent several years studying science and math. He took charge of the monastery garden and had several different stocks of pea plants. These peas were.

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physical  
characteristics you  
have in common with  
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eye and hair color,  
style/texture of hair,  
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and so on.

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(101) The scientific  
study of heredity is  
called...

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thing we can do is  
predict the odds by  
applying Mendel's  
principles

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Genetics and  
Probability.  
Probability. is the  
likelihood that an  
event will occur.  
Scientists use

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probability to predict the outcomes of genetic crosses. If a coin is flipped once, the chance that it will be heads is  $1/2$ . If it is flipped three times in a row, the probability of flipping all heads is?  $1/2 \times 1/2 \times 1/2 =$

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What makes you  
unique? • Sure,  
we're all humans, but  
what makes you  
different from others  
in the room. o Your  
talents, interests or  
dreams? o Your  
personality, looks or



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clothes?

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2. 11- 1 The Work of  
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- Every living  
thing – plant or  
animal, microbe or  
human being – has a  
set of characteristics

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inherited from its  
parents </li></ul><ul>  
<li>Since the  
beginning of recorded  
history, people have  
wanted to understand  
how that inheritance  
is passed from  
generation to  
generation </li></ul>.

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Genetics Genetics is  
the study of how  
genes bring about  
characteristics, or  
traits, in living things  
and how those  
characteristics are  
inherited. Genes are  
specific sequences of  
nucleotides that code  
for particular proteins.

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ends \* Each chapter's  
links to neighbouring  
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such as sexual

selection, genetic  
conflict, life history  
evolution, and

phenotypic plasticity.

Detail of contents The  
Prologue is unique  
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four central points  
about evolution in the  
form of four case  
studies told as brief  
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textbooks. Rolf Hoekstra has achieved a wonder of clarity and concision on the essentials of this exciting topic. Chapters 11 and 12 on speciation and systematics are, by comparison, pretty standard, but they continue the policy of clarity and concision with the focus on

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found in any other introductory textbook. It documents the conceptual issues raised in the history of life briefly and in a form that will stimulate the gifted. Chapter 15 profiles the chief insights made possible by molecular systematics in the form of four case studies ranging from

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deep time to recent European history. It has standard content but unique structure. A strong point is the way mitochondrial Eve is contrasted with transspecies polymorphism to show students how to think about inferences with molecular evidence. Chapter 16 briefly presents the principle

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Comparative methods and the kinds of insights that can be achieved with them. It is not unique - Ridley covers this ground well - but the examples used are new and the essential features of the methods - including potential pitfalls - are quite clearly described.

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Chapter 17 places evolutionary thought into the context both of the natural sciences and of society at large.

DNA methylation is the modification of DNA molecule, transferring methyl group to the 5th position of the cytosine pyrimidine

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ring. This biochemical process plays a crucial role in many cellular processes of higher organisms. For example, people have found distinct patterns of DNA methylation during cellular differentiation and tissue development. The differential DNA methylation profiles are often associated

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with gene expression.

In addition, DNA methylation reveals genomic imprinting and affects on chromatin remodeling and cellular homeostasis. Such epigenetic modification has also been proven to be involved in nearly all cancer-related signaling pathways.

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However, the mechanism and process against how DNA methylation regulates gene expression are still not clear. The study of DNA methylation and its regulation on gene expression provides fundamental and new insights into the genetic heritability. In Chapter 1, Gene

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duplication event of  
NAC transcription  
factor genes in rice  
and Arabidopsis was  
analyzed, then it was  
found that  
chromosomal  
segment duplications  
mainly contributed to  
the expansion of both  
species, whereas  
tandem duplication  
occurred less  
frequently in



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Arabidopsis than rice.  
Chapter 2 reviews the  
current literature  
related to the  
epigenetics of  
alcoholism and  
summarizes our  
advanced study of  
global DNA  
methylation in human  
post-mortem frontal  
cortex tissues  
obtained from adult  
alcoholics and

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controls utilizing new  
microarray technology  
and bioinformatics  
approaches. Chapter  
3 gives a  
comprehensive  
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modifications involved  
in the regulation of  
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expression as well as  
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modifications in

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eukaryotic host tissues triggered in the pathogenesis of particular Gram-negative bacterial infections. Both, basic molecular mechanisms and complex pathogenetic relations are described. Chapter 4 provides an epigenetic repressing mechanism for breast

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cancer metastasis by recruiting NuRD complex to ESR1 gene through TWIST1. Chapter 5 summarises most of mouse models that have helped us better understand the pathogenesis mechanism during the development of colitis. In Chapter 6, the authors review the

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various forms of  
presentation of celiac  
disease including the  
lymphocytic enteritis,  
along with their  
systemic  
manifestations.

Chapter 7 provides an  
insight to  
inflammatory  
response in light of  
DNA regulation and  
methylation of key  
players. Because

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Chronic inflammatory diseases do share common features, recent progress in our understanding of renal fibrosis and inflammation in chronic kidney disease will be discussed as an example of epigenetic regulation in inflammatory diseases. Chapter 8

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Chapter 11 summarizes the regulation of gene expression in pterygium. Pterygium is an ocular surface disease and its pathogenesis is currently unknown. Here, the genetic and epigenetic changes in the disease are explored. Chapter 9 summarizes the basics and applications of

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Chapter 10 proposes



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the role of AP-1  
chromatin modulator  
Jun dimerization  
protein 2 (JDP2) on  
antioxidant response  
and inhibition of ROS  
production via  
Nrf2-ARE signaling,  
as well as the  
induction of replicative  
senescence. Chapter  
11 compares  
expression profiles of  
mRNAs, microRNAs

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and proteins of  
human embryonic  
stem cells hES-T3  
grown on different  
feeders and  
conditioned media.  
Chapter 12 reviews  
the most recent  
molecular markers of  
Amyotrophic Lateral  
Sclerosis (ALS) and  
shows some  
innovative  
perspectives on this

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topic from the point of view of gene therapy. In addition, non-viral gene therapy based on the non-toxic C-terminal fragment of the tetanus toxin (TTC) will also be discussed.

This book uses the reaction of a number of biologists in the United States and

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Great Britain to

provide an overview  
of one of the most  
important

controversies in

Twentieth Century  
biology, the “Lysenko  
Affair.” The book is  
written for advanced  
undergraduate and  
graduate students of  
history/history of  
science. It covers a  
number of topics

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which are relevant to understanding the sources and dimensions of the Lysenko controversy, including the interwar eugenics movement, the Scopes Trial, the popularity of Lamarckism as a theory of heredity prior to the synthesis of genetics and Natural Selection, and

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the Cold War. The book focuses particularly on portrayals—both positive and negative—of Lysenko in the popular press in the U.S. and Europe, and thus by extension the relationship between scientists and society. Because the Lysenko controversy attracted

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a high level of interest among the lay community, it constitutes a useful historical example to consider in context with current topics that have received a similar level of attention, such as Intelligent Design or Climate Change.

In the 1960's and

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1970's, personality and mental illness were conceptualized in an intertwined psychodynamic model. Biological psychiatry for many un-weaved that model and took mental illness for psychiatry and left personality to psychology. This book brings personality back into biological



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psychiatry, not merely  
in the form of  
personality disorder  
but as part of a new  
intertwined molecular  
genetic model of  
personality and  
mental disorder. This  
is the beginning of a  
new conceptual  
paradigm!! This  
breakthrough volume  
marks the beginning  
of a new era, an era

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made possible by the electrifying pace of discovery and innovation in the field of molecular genetics. In fact, several types of genome maps have already been completed, and today's experts confidently predict that we will have a smooth version of the sequencing of the

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human genome --  
which contains some  
3 billion base pairs  
Such astounding  
progress helped fuel  
the development of  
this remarkable  
volume, the first ever  
to discuss the brand-  
new -- and often  
controversial -- field of  
molecular genetics  
and the human  
personality.

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Questioning, critical,  
and strong on  
methodological  
principles, this volume  
reflects the point of  
view of its 35  
distinguished  
contributors -- all  
pioneers in this  
burgeoning field and  
themselves world-  
class theoreticians,  
empiricists, clinicians,  
developmentalists,

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and statisticians. For students of psychopathology and others bold enough to hold in abeyance their understandable misgivings about the conjunction of "molecular genetics" and "human personality," this work offers an authoritative and up-to-date introduction to the

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molecular genetics of human personality. The book, with its wealth of facts, conjectures, hopes, and misgivings, begins with a preface by world-renowned researcher and author Irving Gottesman. The authors masterfully guide us through Chapter 1, principles and methods; Chapter

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4, animal models for personality; and Chapter 11, human intelligence as a model for personality, laying the groundwork for our appreciation of the remaining empirical findings of human personality qua personality. Many chapters (6, 7, 9, 11, and 13) emphasize the

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neurodevelopmental  
and ontogenetic  
aspects of  
personality, with a  
major emphasis on  
the receptors and  
transporters for the  
neurotransmitters  
dopamine and  
serotonin. Though  
these  
neurotransmitters are  
a rational starting  
point now, the future



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undoubtedly will bring many other candidate genes that today cannot even be imagined, given our ignorance of the genes involved in the prenatal development of the central nervous system. Chapter 3 provides an integrative overview of the broad autism phenotype, and as

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such will be of special interest to child psychiatrists.

Chapters 5, 8, and 10 offer enlightening information on drug and alcohol abuse.

Chapter 14 discusses variations in sexuality.

Adding balance and mature perspectives on how all the chapters complement and sometimes

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challenge one another  
are Chapter 2, written  
by a major figure in  
the renaissance of the  
relevance to  
psychopathology of  
both genetics and  
personality; Chapters  
15-17, informed  
critical appraisals  
citing concerns and  
cautions about  
premature  
applications of this

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information in the  
policy arena; and  
Chapter 18, a  
judicious  
contemplation by the  
editors themselves of  
this promising -- and,  
to some, alarming --  
field. Clear and  
meticulously  
researched, this  
eminently satisfying  
work is written to  
introduce the subject

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to postgraduate students just beginning to develop their research skills, to interested psychiatric practitioners, and to informed laypersons with some scientific background.

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about evolution in the form of four case studies told as brief stories. Chapters 1-3 describe natural selection and the essential difference between adaptive and neutral evolution with unmatched clarity and simplicity. Chapter 4 emphasizes the essential message of population genetics

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without burdening the students with any of the unessential details and places unique emphasis on the role of the genetic system in constraining the response to selection. Chapter 6 is not found in any other evolution textbook, although there are a number of recent books on the subject, and it

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Chapter 4 provides an introductory overview of a topic that has been the object of much recent interest and promises to generate much more insight: the expression of genetic variation analysed with the concept of reaction norms. Chapters 7-9 cover sex, life

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histories, and sexual selection in greater depth than they are dealt with in any other introductory textbook but without introducing advanced technical language and analysis.

Chapters 6-9 thus give unprecedented coverage to phenotypic evolution in an introductory text.

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Chapter 10 on multilevel selection and genetic conflict is unique in introductory textbooks. Rolf Hoekstra has achieved a wonder of clarity and concision on the essentials of this exciting topic. Chapters 11 and 12 on speciation and systematics are, by comparison, pretty

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about inferences with molecular evidence. Chapter 16 briefly presents the principle comparative methods and the kinds of insights that can be achieved with them. It is not unique - Ridley covers this ground well - but the examples used are new and the essential features of the

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methods - including  
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