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the molecule of  
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revolutionized  
biochemistry and  
won themselves a  
Nobel Prize. At  
the time, Watson  
was only twenty-  
four, a young  
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and bitter rivalries. With humility unspoiled by false modesty, Watson relates his and Crick's desperate efforts to beat Linus Pauling to the Holy Grail of life sciences, the identification of the basic building

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inheritance were considered quite superficial until 1903, when the chromosome theory of heredity was established by Sutton and Boveri. The discovery of the double helix and the genetic code led to our

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understanding of  
gene structure and  
function. For the  
past quarter of a  
century,  
remarkable  
progress has been  
made in the  
characterization of  
the human genome  
in order to search  
for coherent views



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of genes. The unit of inheritance termed factor or gene, once upon a time thought to be a trivial an imaginary entity, is now perceived clearly as the precise unit of inheritance that has continually deluged

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us with amazement  
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by its complex  
identity and  
behaviour,  
sometimes  
bypassing the  
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aim of the fifth  
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cover the topics  
ranging from the  
structure of DNA  
itself to the  
structure of the  
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along with  
everything in  
between,  
encompassing 12  
chapters. These  
chapters relate

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much of the  
information  
accumulated on the  
role of DNA in the  
organization of  
genes and genomes  
per se. Several  
distinguished  
scientists, all pre-  
eminent authorities  
in each field to  
share their

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expertise.

Obviously, since the historical report on the double helix configuration in 1953, voluminous reports on the meteoric advances in genetics have been accumulated, and to cover every

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account in a single  
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would be a  
Herculean task.  
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science as no  
layperson could,

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telling the story of  
the scientists  
involved in the  
project, the  
biomedical  
breakthroughs that  
led up to it, and  
how the new  
information it  
generates will  
change the way we  
understand and

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treat disease. Ever since Watson and Crick discovered the structure of DNA, scientists have been trying to "read" the human genetic code locked in the millions and millions of bases that make up DNA. But over the past

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thirty years, as  
many new

questions have been  
raised as answered.

Why, for example,  
do we carry long,  
repeating stretches  
of DNA that play  
no discernible role  
in heredity and that  
are currently  
referred to simply

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as "junk DNA"? Is it really true that much of human DNA is actually viral DNA-remnants, that is, of past infections? And why is most of the DNA that codes for genes quickly removed as useless "introns," leaving

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only the tiny but  
key "exons"?

When completed in  
the next century,  
the Human  
Genome Project  
will have  
determined every  
gene sequence in  
the human body,  
illuminating for  
scientists some of



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the outstanding problems in human biology: the genesis of cancer, how embryos and fetuses develop, the mechanisms of aging, and the origin of mutations. Scores of talented and dedicated people serve the

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forensic science  
community,

performing vitally  
important work.

However, they are  
often constrained  
by lack of adequate  
resources, sound  
policies, and  
national support. It  
is clear that change  
and advancements,

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both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with

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consistent  
application.

Strengthening  
Forensic Science in  
the United States:  
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provides a detailed  
plan for addressing  
these needs and  
suggests the  
creation of a new  
government entity,

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the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are

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clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account

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of what is needed to  
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advance the  
forensic science  
disciplines,  
including  
upgrading of  
systems and  
organizational  
structures, better  
training,  
widespread  
adoption of

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uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a



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vital tool for law  
enforcement

agencies, criminal  
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**scientific advances  
have made genome  
editing more  
efficient, precise,  
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advances have  
spurred an  
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from around the  
globe in the  
possible ways in  
which genome  
editing can improve**

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**human health. The speed at which these technologies are being developed and applied has led many policymakers and stakeholders to express concern about whether appropriate systems are in place to govern these technologies and how and when the**

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**public should be engaged in these decisions. Human Genome Editing considers important questions about the human application of genome editing including: balancing potential benefits with unintended risks, governing the use of genome editing,**

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**incorporating societal values into clinical applications and policy decisions, and respecting the inevitable differences across nations and cultures that will shape how and whether to use these new technologies. This report proposes**

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**criteria for heritable germline editing, provides conclusions on the crucial need for public education and engagement, and presents 7 general principles for the governance of human genome editing.**

**This book is aimed at analyzing the**



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**foundations of  
medical ethics by  
considering  
different moral  
theories and their  
implications for  
judgments in clinical  
practice and policy-  
making. It provides  
a review of the  
major types of  
ethical theory that  
can be applied to  
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**bioethical issues concerning reproductive genetics. In response to the debate on the most adequate ethical doctrine to guide biomedical decisions, this book formulates views that capture the best elements in each, bearing in mind their**

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**approach to  
biomedical research  
and medical  
practice. One  
usually claims that  
there are some  
basic principles  
(non-maleficence,  
beneficence,  
confidentiality,  
autonomy, and  
justice) which  
constitute the  
foundations of**

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**bioethics and  
medical ethics. Yet  
these principles  
conflict with each  
other and one needs  
some criteria to  
solve these conflicts  
and to specify the  
scope of application  
of these principles.  
Exploring  
miscellaneous  
ethical approaches  
as introduced to**

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**Answer Key**  
biomedicine,  
particularly to  
reproductive  
genetics, the book  
shall elucidate their  
different  
assumptions  
concerning human  
nature and the  
relations between  
healthcare  
providers,  
recipients, and other  
affected parties (e.g.

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progeny, relatives,  
other patients,  
society). The book  
attempts to answer  
the question of  
whether the tension  
between these  
ethical doctrines  
generates conflict in  
the field of  
biomedicine or if  
these competing  
approaches could in  
some way

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complement each  
other. In this

respect, lecturers  
and researchers in  
bioethics would be  
interested in this  
reading this book.

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