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Tien Nguyen Ch
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14.3 Studying
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Lesson

Objectives

Summarize the methods of DNA analysis. State the goals of the Human Genome Project and explain what we have learned so far. Lesson

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Summary Genome

Manipulating DNA

Since the 1970s, techniques have been developed that allow scientists to cut, separate, and replicate DNA base-by-base.

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all human egg

cells carry a

single x

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chromosome

(23, X). However,
half of all

sperm cells

carry (23, X) and

half (23, Y).

This ensues that

half of the

fertilized eggs

will be 46, XX

and 46, XY.

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The Human Genome

Project was a 13

year,

international

effort that

started in 1990,

and whose main

goals were to

sequence all 3

billion base

pairs of human

DNA and identify

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all human genes.

Judge the potential impact of the Human Genome Project on both scientific thought and society.

Bio: Ch.14.3:

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14-1 Human

Heredity. A.

Human

chromosomes -

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analyzed by

taking a

photograph of

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chromosomes

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during mitosis –
the chromosomes
are then cut out
of the
photograph and
grouped together
in pairs – a
picture of
chromosomes
arranged this
way is known as
a karyotype (See
Fig 14-2 pg.
341)

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2 Objectives

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Disadvantages

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enzymes cut dna

into smaller

pieces called

restriction as

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collections that
we have this is
why you remain
in the best

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expected to play a central role in medicine and public health in the future by providing a genetic basis for disease prediction and prevention. The transplantation of human gene discoveries into meaningful

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actions to

improve health

and prevent

disease depends

on scientific

information from

multiple

disciplines,

including

epidemiology.

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describes the

important role

that

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epidemiologic

methods play in
the continuum

from gene

discovery to the

development and

application of

genetic tests.

It proceeds

systematically

from the

fundamentals of

genome

technology and

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gene discovery,
to epidemiologic
approaches to
gene
characterization
in the
population, to
the evaluation
of genetic tests
and their use in
health services.
These
methodologic
approaches are

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then illustrated with several disease-specific case studies.

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genomics into
medical and
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practice.

The genome's
been mapped. But
what does it
mean? Arguably
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significant
scientific
discovery of the
new century, the

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mapping of the
twenty-three
pairs of

chromosomes that
make up the
human genome
raises almost as
many questions
as it answers.
Questions that
will profoundly
impact the way
we think about
disease, about

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longevity, and

about free will.

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will affect the

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offers

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ramifications of

this incredible

breakthrough. By

picking one

newly discovered

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gene from each

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our species and

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from the dawn of

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medicine. From

Huntington's

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disease to

cancer, from the applications of

gene therapy to

the horrors of

eugenics, Matt

Ridley probes

the scientific,

philosophical,

and moral issues

arising as a

result of the

mapping of the

genome. It will

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twentieth century but in

the most recent

decades, genetic

research has

dramatically

increased its

impact

throughout

society. Genetic

issues are now

playing a large

role in health

and public

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efficient, genome

precise, and
flexible than
ever before.

These advances
have spurred an
explosion of
interest from
around the globe
in the possible
ways in which
genome editing
can improve
human health.

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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

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technologies and how and when the public should be engaged in these decisions. Human Genome Editing considers important questions about the human application of genome editing including:
balancing

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potential Genome

benefits with
unintended

risks, governing
the use of

genome editing,
incorporating

societal values
into clinical

applications and
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decisions, and
respecting the

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differences across nations
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that will shape
how and whether
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conclusions on the crucial need for public education and engagement, and presents 7 general principles for the governance of human genome editing.

"The discussions of genetic

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determinism,
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eugenics, and
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are particularly
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stimulating,
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out, and
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to lay readers
as well as profe
ssionals."—Solom

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on A. Kaplan,

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Emeritus, Mattel

Children's

Hospital at UCLA

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myth-busting

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our future. I loved it!"—Donna

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former U.S.

Secretary of

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Evolution,
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clear,
approachable
manner, the
progression of
the experiments
that eventually
led to our
current
understanding of
DNA. This

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fascinating work tells the whole story from the discovery of DNA and its structure, how it replicates, codes for proteins, and our current ability to analyze and manipulate it in genetic

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engineering to begin to understand the central role of DNA in evolution, cancer, and aging. While telling the scientific story of DNA, this captivating treatise is further enhanced

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the key scientists and

pioneers of DNA research. Major discoveries by

Meischer,

Darwin, and

Mendel and their impacts are

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discussed, **Human Genome**

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genetics,

evolutionary
biology, and

nucleic acid
biochemistry,

giving rise to
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biology,

epidemiology,

oncology,

gerontology,

cell biology,

microbiology,

and anyone

interested in

these mechanisms

in life.

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science and
medicine

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correct manner
the key
experiments and
concepts that
led to the
current
knowledge of
what DNA is, how

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the increasing
impact it has on
our lives

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observations and
reasoning behind
each novel idea
and the critical
experiments that
were performed
to test them

The human genome

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sequence of
roughly 3

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billion bases
and information
regarding this
genome is
accumulating at
an astonishing
rate. Inspired
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mutations in

rare genetic disorders. The

primary

audiences of the

book are

students of

genetics,

biology,

medicine,

molecular

biology and

bioinformatics.

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provided for
each chapter,
the book helps
students without
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of genetics and
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biology. It may
also be of
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presented at
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of genetics and
molecular
biology Richly
illustrated with
questions
provided to each
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study of the
genomes of
organisms. The
field includes

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intensive Genome

efforts to
determine the
entire DNA

sequence of
organisms and
fine-scale
genetic mapping
efforts. It is a
discipline in
genetics that
applies

recombinant DNA,
DNA sequencing

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methods, and
bioinformatics
to sequence,
assemble, and
analyze the
function and
structure of
genomes.

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and Plants is
the first volume
of our Genomics
series. There

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species (ROS),

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which are reactive ions
and free

radicals

generated by

oxidative

reactions. ROS

can damage cells

by reacting with

cellular

macromolecules

including DNA.

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Methodological
approach to
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chromatin

structure

independently of

Interstitial

Telomeric

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method is based

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cutting enzyme

Tru9I. In
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modeling

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relationship

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IncA protein

activity. In

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Answer Key

based on a comparison of seven different inbred mouse strains in a model of chemical-induced asthma, it demonstrates the genetic background of the different mouse strains has a large

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Human Genome
Answer Key

impact on the phenotypical outcome of TDI-induced asthma and suggests caution has to be taken when comparing results from different mouse strains. Chapter 11 reviews the phylogenetic study of rabies

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in wild
carnivores in

Turkey using
viral genomic
sequence

analysis. It
also considers
options for
control rabies

using oral
vaccination and
how phylogenetic
information can

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Human attempts to control the disease. Chapter 12 reveals global transcriptomic changes that occur during germination in plants. The methods of analyzing high-throughput data in plants are

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described and
the biological
significance of
these

transcriptomic
changes are
discussed.

Chapter 13
discusses the
different
covalent histone
modifications in
plants and their
role in

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regulating gene expression and focuses on the SET-domain containing proteins belonging to the Polycomb-Group (PcG) and trithorax-Group (trxG) protein complexes and their targets in plants. Chapter

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14 describes a genome-wide strategy to identify high-identity segmental duplications, combine molecular cytogenetics assays.. In Chapter 15, the authors introduce a map-

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based cloning
and functional
identification

of a rice gene
that plays an
important role
for the

substance
storage in the
endosperm. In

Chapter 16,
three deep-
sequencing
studies are

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presented, which were included in a project develop of a specific biocontrol strategy for sustainable agriculture in desert ecosystems.

Genomic and
Precision

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Human Genome

Primary Care,
Third Edition is
an invaluable
resource on the
state-of-the-art
tools,
technologies and
policy issues
that are
required to
fully realize
personalized
health care in

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the area of
primary care.

One of the major
areas where
genomic and
personalized
medicine is most
active is the
realm of the
primary care
practitioner.
Risk, family
history,
personal

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genomics and pharmacogenomics are becoming increasingly important to the PCP and their patients, and this book discusses the implications as they relate to primary care practitioners. Presents a

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comprehensive

volume for
primary care

providers

Provides

succinct

commentary and

key learning

points that will

assist providers

with their local

needs for the

implementation

of genomic and

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Humanized

medicine

Answer Key

Includes a

current overview

on major

opportunities

for genomic and

personalized

medicine in

practice

Highlights case

studies that

illustrate the

practical use of

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genomics in the
management in
patients

Well aware of
Jews having once
been the victims
of Nazi eugenics
policies, many
Jews today have
an ambivalent
attitude toward
new genetics and
are

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Chapter 14 3

Human Genome

wary of genetic
forms of

identity and
intervention. At
the same time,
the Jewish
tradition is
strongly
committed to
medical research
designed to
prevent or cure
diseases. Jews

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explores this tension against the backdrop of various important developments in genetics and bioethics—new advances in stem cell research; genetic mapping, identity, testing, and

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intervention;
and the role of
religion and
ethics in
shaping public
policy. Jews and
Genes brings
together leaders
in their fields,
from all walks
of Judaism, to
explore these
most timely and
intriguing

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topics—the intricacies of the genetic code and the wonders of life, along with cutting-edge science and the ethical issues it raises.

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