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**children's
beliefs and
knowledge
about the
biological
world -
otherwise
known as
'folkbiology'.
Contributors
discuss factors
that shape the**

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**development
of**

***folkbiological
knowledge, as
well as
possible
interventions
designed to
counteract
cognitive
biases that
can interfere***

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***with the
development
of
scientifically
informed
reasoning
about natural
phenomena.
Taken
together, the
papers
provide***

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***insights into
the
contributions
of cognitive
biases to the
development
of biological m
isunderstandin
gs and into
the life
experiences
and contexts***

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***that can
contribute to
or impede
accurate
learning of
biological
concepts. As
part of a wider
literature, the
insights
provided by
the authors***

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***are relevant to
the design of
educational
experiences
that will foster
children's
exploration
and further
their
understanding
of life science
ideas. The***

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**chapters in
this book were
originally
published as a
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of Early
Education and
Development.
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guide to
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***constructive
simulation for
personalized
patient care
using the
Digital Patient
The healthcare
industry's
emphasis is
shifting from
merely
reacting to***

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preventing
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more hopeful
Big Data
undertakings,
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presents a
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resource on
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***“omics” fields;
it also
includes
systems
analysis, Big
Data, and the
various efforts
to model the
human
physiome and
represent it
virtually. The***

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will be
realized
through the
purposeful
collaboration
of patients as
well as
scientific,
clinical, and
policy
researchers.***

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research
efforts that
are leading to
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of the Digital
Patient, the
wealth of
ongoing
research in
systems
biology and
multiscale
simulation,
and the
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within the
domain of
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healthcare.
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coverage
includes: The
visible human
The
physiological
human The***

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biology Multi-
scale modeling
Personalized
medicine Self-
quantification
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Healthcare,
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Education is a
useful
reference for
simulation
professionals
such as**

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directors,
managers,
simulation
technologists,
faculty
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educators
involved in
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ways in which
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prosperous
regions can
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economy***

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after a period
of industrial
and economic
recession.
Using New
York's Capital
Region (i.e.,
Albany, Troy,
Schenectady,
etc.) as a case
study, the***

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how entrepreneurship,
innovation,
investment in
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research and
political
collaboration
are critical to
achieving
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***success. In
this way, the
book provides
other regions
and nations
with a real-life
model for
successful
economic
development.
In the past
half century,***

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the United States and other nations have seen an economic decline of formerly prosperous regions as a result of new technology and

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***globalization.
One of the
hardest-hit
United States
regions is
Upstate New
York or “the
Capital
Region”; it
experienced a
demoralizing
hemorrhage of***

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***manufacturing
companies,
jobs and
people to
other regions
and countries.
To combat
this, the
region, with
the help of
state leaders,
mounted a***

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**decades-long
effort to**

**renew and
restore the
region's
economy with
a particular
focus on nanot
echnology. As
a result, New
York's Capital
Region**

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**successfully
added**

***thousands of
well-paying,
skill-intensive
manufacturing
jobs. New
York's success
story serves
as a model for
economic
development***

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***for policy
makers that
includes major
public
investments in
educational
institutions
and research
infrastructure;
partnerships
between
academia,***

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government;
and creation
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by business,
government,
and academic
actors.***

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development
policy, this
book is
appropriate
for scholars,
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research. It
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misuse of biot
echnologies,
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medicine, and
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attempts at
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ethical
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such fields are
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OSS-
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Perspectives
Dreamers,
Visionaries,
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naries in the
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*What are the
conditions that foster*

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allow visionaries to
set their eyes on
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challenges that have
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innovations, and
how have they
shaped modern
biology? In
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Visionaries, and*

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*Revolutionaries in
the Life Sciences,
editors Oren
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explore these
questions through
the lives of eighteen
exemplary biologists
who had grand and
often radical ideas
that went far beyond
the run-of-the-mill*

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*science of their
peers. From the
Frenchman Jean-
Baptiste Lamarck,
who coined the word
“biology” in the early
nineteenth century,
to the American
James Lovelock, for
whom the Earth is a
living, breathing
organism, these
dreamers innovated*

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their contemporaries
to reexamine
comfortable truths.
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Crick as he attacks
the problem of
consciousness. Join*

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conquer cancer and
follow geneticist
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he dreams of
bringing back woolly
mammoths and
Neanderthals. In
these lives and the
many others
featured in these
pages, we discover*

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*visions that were
sometimes
fantastical, quixotic,
and even
threatening and
destabilizing, but
always a challenge
to the status quo.*

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biomolecules using
protein engineering
technology, and host
cells culture*

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*techniques are
among the most
sophisticated and
elegant
achievements of
modern applied life
sciences in which
the basic
fundamentals
biotechnology are
applicable for the
development and
manufacturing of*

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*biologics and other
related bio-*

*molecules for a
hurdle free life with
good health. A
majority of biologics
derived from
genetically modified
host cells in the
current market are
bio-formulation such
as antibodies,
nucleic acid*

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products and vaccines. Such bio-formulations are developed mainly in two steps i.e.

upstream process and downstream process. The first volume of this series begins with the latest information on how the classical stepwise host cells

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*culture (mammals,
animals, plants, and
bacteria)*

*methodology has
been changed to
fully continuous or
partially continuous
host cells culture
process in order to
economise the
biopharmaceutical
products
manufacturing*

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*process. In addition
this volume narrates
a brief history on
conceptual
development of new
thoughts in
designing
biotechnology
industries for
commercial
production of variety
of therapeutic
proteins with*

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structural

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basis of clinical
requirements. The
readers will feel
exited by going
through the latest
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for designing
innovative
biomolecules for*

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health care with utmost safe. The most interesting part of this volume is newly developed concept on bioprinting. It explains how to design and fabricate animate objects by fusing or depositing material of interest in the form of powders,

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*solid dusts, metal,
liquid or even living
cells or tissues by
layers to produce 3D
objectives. The first
volume ends with
the latest information
on the current trend
in biologics market,
market dynamic,
drives, and
opportunities with
challenges.*

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"I thoroughly enjoyed reading this book as it has taken me on a journey through time, across the globe and through multiple disciplines. Indeed, we need to be thinking about these concepts and applying them every day to do our jobs

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*better.” Farah
Magrabi, Macquarie
University, Australia*

*“The reader will find
intriguing not only
the title but also the
content of the book.
I’m also pleased that
public health, and
even more
specifically
epidemiology has an
important place in*

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*this ambitious
discussion.” Elena
Andresen, Oregon
Health & Science
University, USA*

*“This book is very
well written and
addresses an
important topic. It
presents many
reasons why basic s
cientists/researchers
should establish*

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*collaborations and
access information
outside traditional
means and not limit
thinking but rather
expand such and
perhaps develop
more innovative and
translational
research ventures
that will advance
science and not
move it laterally.”*

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*Gerald Pepe,
Eastern Virginia*

Medical School,

USA “This book

*gathers logically and
presents*

*interestingly (with
many examples) the
qualities and*

attitudes a

researcher must

possess in order to

become successful.

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On the long run, the deep and carefully reexamined research will be the one that lasts.”

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the innovative
process in life
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and become*

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landmark scientific discoveries. The text provides a unique resource for developing professional competencies and applied skills of life sciences researchers. The book examines what happens before the scientific paper is

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*submitted for
publication or the
innovation becomes
legally protected.
This phase is the
most neglected but
most exciting in the
process of scientific
creativity and
innovation. The
author identifies
twelve
competencies of*

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innovative

biomedical

researchers that

described and

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Highlights the

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design to discovery

that precedes

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*innovation Offers
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biomedical research
and reviews the
performance of
research labs and
academic
institutions Written
for academics and
researchers in*

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*biomedicine,
pharmaceutical*

science, life

sciences, drug

discovery,

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offers a guide to the

creative processes

leading to

biomedical

innovation and

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identifies the best practices of innovative scientists and laboratories. This book explores and analyzes the rapid pace of technological evolution in diplomatic, information, military, and economic sectors, which has

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*contributed to a
dynamic*

*international policy
environment. Global
political stability is
greatly influenced by
innovations
originating from
numerous sources,
including university
labs, the technology
sector, and military
research.*

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Collectively, these innovations guide the movement of people, ideas, and technology that in turn affect the international balance of power. The objective of this volume is to develop new insights into how the proliferation of innovative ideas,

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*low-cost weapons,
and dual-use
technologies impact
the changing global
security landscape.
Innovative and dual-
use technologies
can be used for
beneficial purposes
or defensive
purposes.
Alternatively they
may be appropriated*

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or employed for nefarious purposes by hostile military powers and non-state actors alike. Such actions can threaten global security and stability. As the complexity of technological innovations continues to

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increase, existing control mechanisms such as international regulations and security arrangements may be insufficient to stem the tide of proliferation over time. As such, this works seeks to assess and present policy solutions to

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*curtail the threat to
global stability*

*posed by the
proliferation of
weapons and dual-
use technology.*

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studies, which once
lagged behind

studies of the

Atlantic and the

Pacific, is an

important emerging
academic field

which has come into

its own. In the next

fifty years, the

Indian Ocean Region

will become very

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significant as a result
of enormous
demographic
changes. What was
the Ocean of the
South is rapidly
becoming the Ocean
of the Centre, the
Ocean of the Future.
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Western Australia,
has a long and

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distinguished history
of engagement with
the Indian Ocean
region and with
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ralia-Asia-Pacific
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University continues
to maintain a focus
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-past, present and

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future. This book
examines a number
of themes emerging
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region scholars. The
conference
connected

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sciences and

scientific disciplines;
this book collects
some of the
preeminent works
focused on geo-
strategic, cultural,
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security and human
security themes. The
book is also an

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important

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contribution to the
building of academic
diplomacy in the
region – that is to
say, it contributes to
region-building by
creating epistemic
communities and
networks between
government, the
private sector, and

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academia throughout
the region. Through
the pursuit of
academic diplomacy,
academics are
capable of pursuing
research goals which
enhance
governmental,
business, and civil
society objectives of
the day. This book

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was previously
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compact summary of
the Ebola virus,
outlining its nature,
history,
epidemiology, and
methods of
treatment. In

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addition, the work examines the context of the diseases outbreak by describing the people, politics, and policies in West Africa before, during, and after the recent outbreak. Finally, chapters summarize and

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explore the ethical
issues that arise in
pursuing treatments
and discuss methods
for improving
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prevention of
additional outbreaks.

Dr. Felix I.
Ikuomola, a medical
doctor who is
pursuing additional

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advanced degrees in
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(UH) and surgical
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(RCSEd/Edin),

brings to bear his
practice of medicine
and surgery in

Liberia, Nigeria,

Sierra Leone, and

the Gambia and his

direct knowledge of

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the cultural practices
and factors at play in
the countries of
West Africa to
ground the
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realities of the
current situation in
the region. The
Ebola Virus and

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Aspects will provide

a highly organized,

comprehensive, and

insightful treatment

of this virulent

disease and its

sociocultural

elements to people

with medical

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backgrounds and to individuals desiring to understand more comprehensively the impact of this disease on West Africa. In either case, time spent with The Ebola Virus and West Africa will give you the background and

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analysis you need to
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to the challenges the
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globalized culture.
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implications of new
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technologies have
been hampered by

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the lack of a
comprehensive
theoretical
framework for the
complex issues
involved. This
volume provides that
framework, bringing
a multidisciplinary
and international
perspective to the
evolution of human

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rights in the digital
and biotechnological
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innovation in the life
sciences and
information
technology sectors,
such as
neurotechnology,
robotics, genetic

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intelligence. Leading
experts from the
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sciences as well as
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business share their
extensive knowledge
about the
transformation of the

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rights framework in
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response to

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innovation. In
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also offers policy
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Conference, DILS
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Germany, November
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health care is no
longer working in
your favor—but
thankfully, Dr.
Davis is. In his
New York Times
bestseller *Wheat*

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Belly, Dr. William
Davis changed

the lives of
millions of people
by teaching them
to remove grains
from their diets to
reverse years of
chronic health
damage. In
Undoctored, he
goes beyond
cutting grains to

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help you take
charge of your
own health. This
groundbreaking
exposé reveals
how millions of
people are given
dietary
recommendations
crafted by big
business, are
prescribed
unnecessary

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medications, and
undergo

unwarranted
procedures to
feed revenue-
hungry
healthcare
systems. With
Undoctored, the
code to health
care has been
cracked—Dr.
Davis will help

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you create a
comprehensive
program to
reduce, reverse,
and cure
hundreds of
common health
conditions and
break your
dependence on
prescription
drugs. By
applying simple

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strategies while
harnessing the

collective wisdom
of new online
technologies, you
can break free of
a healthcare
industry that puts
profits over
health.

Undoctored is the
spark of a new
movement in

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health that places the individual, not the doctor, at the center. His plan contains features like:

- A step-by-step guide to eliminating prescription medications
- Tips on how to distinguish good medical advice

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from bad • 42
recipes to guide
you through the
revolutionary
6-week program
Undoctored gives
you all the tools
you need to
manage your own
health and
sidestep the
misguided
motives of a

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profit-driven
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medical system.

How scientific
reasoning
explains our most
common daily
fears—from
germs to natural
disasters and
everything in
between.

Quick--what do
you worry about

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most? Your cell
phone giving you
cancer? The
public bathroom
you're using
being dirty?
GMOs in your
food? An asteroid
strike? Something
else? In this witty
and evidenced-
based book, Lise
Johnson and Eric

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Chudler get to the root of our worries, all the while using science to help tame the anxiety beast. News media, social media, and every mom blog in the world are continuously flagging new

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things for you to
worry about.

From obsessing
over Lyme
disease-infested
ticks to worrying
about
amusement park
safety, no-one is
immune to the
pervasive effects
of anxiety
brought on by

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normal, everyday activity. Each topic in this wide-ranging book is subjected to scientific scrutiny, and assigned a place on the “worry index,” with the authors concluding the only things worth worrying about

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are those those
that can cause
significant harm,
are likely to
happen, and are
(somewhat)
preventable.

Whether you are
a constant worrier
or a stick-your-head-
in-the-sand-
and-hope-for-the
best sort of

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person, you'll find something to love in this witty and informative book. This book constitutes revised selected papers from the 13th International Conference on Data Integration in the Life Sciences, DILS

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2018, held in
March Paper
Hannover,

Germany, in
November 2018.

The 5 full, 8 short,
3 poster and 4
demo papers
presented in this
volume were
carefully

reviewed and
selected from 22
submissions. The

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papers are
March Paper
organized in
topical sections
named: big
biomedical data
integration and
management;
data exploration
in the life
sciences;
biomedical data
analytics; and big
biomedical

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applications.

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"An exploration of
some of the most
intriguing college
teachers'
pedagogy,
challenging
traditional
learning
environments"--

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Most Popular

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Teaching as a
Second Career
Ethics and

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and Life Sciences
Research

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Unleashed
Nuclear

Destruction
Value Practices in

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the Life Sciences
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and Medicine

Innovative
Research in Life
Sciences
Growing Up
America

***A massive
tsunami caused
by the strongest
earthquake to
ever hit Japan
triggered the***

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***world's worst
nuclear crisis
since the
Chernobyl
accident 25 years
earlier. The
monster waves
that crashed into
the Fukushima
Daiichi nuclear
plant in March
2011 killed
15,000 people***

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***and caused
nuclear reactor
meltdowns that
threatened the
lives of
thousands more.
The waves
receded long ago,
but the
devastating
effects of the
nuclear accident
still linger.***

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**Medical
Semiology Guide
of the Digestive
System provides
a comprehensive
understanding of
medical
semiology in the
digestive system.
Highly illustrated
with many
original images
from the author's**

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***daily medical
practice, the
book highlights
all signs of
diseases and
important
semiological
maneuvers in the
field. Each
chapter
incorporates a
specific
questionnaire***

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with important questions that should be asked to patients in different situations to obtain valuable information that helps identify rare and unusual diseases. This unique feature of the book aims to

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***facilitate the
learning process
among medical
students, while
also acting as a
quick reference
guide for
clinicians in
practice.***

***Contains
comprehensive
coverage of
medical***

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***semiology for
proper patient
diagnosis***

***Presents original,
real-world clinical
cases that are
gleaned from 15
years of the
author's medical
practice Contains
visual and
diagnostic aides
in the form of***

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**original images
that present rare,
special situation
and difficult to
find diseases**

**The proposed
book is follows in
the same steps
as the first book
in the series, The
Handbook of
Market Research
for Life Sciences.**

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While the first book focused on the techniques and methodologies to collect the market data you need to evaluate your market as well as presentation models for your data, the second

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***volume will focus
more on the
commercialization elements of
marketing. As
such, this book
will be covering a
wide range of
topics directly
tied to marketing
management
such as
marketing and***

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commercialization strategies,

consumers' behaviors, marketing metrics, pricing techniques and strategies as well as marketing communications (public relations, advertising, and more). The

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objective of this book is to focus exclusively on the marketing aspects for life sciences, providing entrepreneurs with a toolkit of tools they can use throughout the marketing process, from

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***market planning
to commercializat
ion. The overall
objective is for
them to gain an
understanding on
the marketing
function, ask the
right question,
and be able to
tackle simple to
complex topics.
Darwin's***

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Medicine is the sequel to Brian D. Smith's influential and critically acclaimed Future of Pharma (Gower, 2011). Whereas the earlier book predicted the evolution of the pharmaceutical

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**market and the
business models
of**

**pharmaceutical
companies,**

Darwin's

**Medicine goes
much deeper into**

**the drivers of
industry change**

**and how leading
pharmaceutical**

and medical

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**technology
companies are
adapting their
strategies,
structures and
capabilities in
practice. Through
the lens of
evolutionary
science,
Professor Smith
explores the
speciation of new**

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**business models
in the Life**

Sciences

**Industry. This
sophisticated and
highly original
approach offers
insights into: The
mechanisms of
evolution in this
exceptional
industry; The six
great**

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technological and social shifts that are shaping its landscape; The emergence of 26 distinct, new business models; and The lessons that enable firms to direct and accelerate their own evolution. These insights

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***map out the
industry's
complex,
changing
landscape and
provide an
invaluable guide
to those firms
seeking to
survive and
thrive in this
dynamic market.
The book is***

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**essential reading
for anyone**

**working in or
studying the
pharmaceutical,
medical
technology and
related sectors. It
provides a unique
and novel way of
making sense of
the
transformation**

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***we can see going
on around us and
a practical,
focused approach
to managing a
firm's
evolutionary
trajectory.***

Fukushima

Disaster

Regional

Renaissance

Women's

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**Accounts of How
Choices Shape
STEM Careers
Medical and
Sociocultural
Aspects
The Evolving
Landscape of
Creative STEM
Learning
Indian Ocean
Futures
Varc Carolis'**

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**Foundations of Ps
ychiatric-Mental
Health Nursing -
E-Book**

*Improving the
use of evidence
in teacher
preparation is
one of the
greatest
challenges and
opportunities
for our field.*

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The chapters in
this volume

explore how data
availability,
quality, and use
within and
across
preparation
programs shed
light on the
structures,
policies, and
practices
associated with

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high quality
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teacher

preparation.

*Chapter authors
take on critical
questions about
the connection
between what
takes place
during teacher
preparation and
subsequent
outcomes for
teachers and*

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students – which
has remained a
black box for
too long.

Despite a long
history of
teacher
preparation in
the U.S. and a
considerable
investment in
preservice and
in-service
training, much

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*is still to be
learned about
how pre-service
preparation
impacts teacher
effectiveness. A
strong empirical
basis that
informs how
specific aspects
of and
approaches to
teacher
preparation*

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*relate to
outcomes for
graduates and
their preK-12
student outcomes
will provide a
foundation for
improved
teaching and
learning. Our
book responds to
stakeholders'
collective
responsibility*

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to students and
teachers to act
more

deliberately.

*Issues of data
availability and
quality, the
uses of data for
improvement,
priorities for
future research,
and*

*opportunities to
promote evidence*

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*use in teacher
preparation are*

discussed

throughout the

volume to

inspire

collective

action to push

the field

towards more use

of evidence.

Chapters present

research that

uses a variety

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*of research
designs,
methodologies,
and data sources
to explore
important
questions about
the relationship
between teacher
preparation
inputs and
outcomes.
Providing a
compelling*

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*scholarly
statement about
the
interrelation
and pliability
of values in the
life sciences,
medicine and
health care,
this volume aims
to aid our
understanding of
the roles of
power, knowledge*

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*production and
economic action
in the heavily
scientised and
economised areas
of life science
and medicine.*

*The rise of
digital health
technologies is,
for some, a
panacea to many
of the medical
and public*

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health

challenges we

face today. This

is the first

book to

articulate a

critical

response to the

techno-utopian

and

entrepreneurial

vision of the

digital health

phenomenon.

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*Deborah Lupton,
internationally
renowned for her
scholarship on
the
sociocultural
and political
aspects of
medicine and
health as well
as digital
technologies,
addresses a
range of*

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*compelling
issues about the
interests
digital health
represents, and
its unintended
effects on
patients,
doctors and how
we conceive of
public health
and healthcare
delivery.*

Bringing

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*together social
and cultural*

*theory with
empirical
research, the
book challenges
apolitical
approaches to
examine the
impact new
technologies
have on social
justice, and the
implication for*

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*social and
economic*

inequalities.

*Lupton considers
how self-
tracking devices
change the
patient-doctor
relationship,
and how the
digitisation and
gamification of
healthcare
through apps and*

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other software affects the way we perceive and respond to our bodies. She asks which commercial interests enable different groups to communicate more widely, and how the personal data generated from digital encounters are

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exploited.

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Considering the lived experience of digital health technologies, including their emotional and sensory dimensions, the book also assesses their broader impact on medical and

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public health

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knowledges,

power relations

and work

practices.

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interested in

medicine and

public health

across

sociology,

psychology,

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anthropology,
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new media and

cultural
studies, as well
as policy makers
and
professionals in
the field, this
is a timely
contribution on
an important
issue.

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of Philip*

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*Kitcher contains
eleven chapters
on the work of
noted
philosopher
Philip Kitcher,
whose work is
known for its
broad range and
insightfulness.
Topics covered
include
philosophy of
science,*

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*philosophy of
biology,*

*philosophy of
mathematics,
ethics,
epistemology,
and philosophy
of religion.*

*Each of the
chapters is
followed by a
reply from
Kitcher himself.
This first*

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*significant
edited volume*

*devoted to
examining*

*Kitcher's work
is an essential
reference for
anyone*

*interested in
understanding
this important
philosopher.*

*Innovation, Comm
ercialization,*

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and Start-Ups in
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*Semiology Guide
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System Part I*

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Policy, and
Ethical
Challenges
A Clinical
Approach
Design Make Play
for Equity,
Inclusion, and
Agency
Pathways to
Scientific
Impact, Public
Health*

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Economic

Progress

Innovation is the translation of a new method, idea, or product into reality and profit. It is a process of connected steps that accumulates into your brand or reputation.

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However, there can be many pitfalls and wrong turns on the road to realizing this goal. Innovation, Commercialization, and Start-Ups in Life Sciences details the methodologies necessary to create a

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successful life sciences start-up from initiation to exit. You will gain an appreciation for the necessary data, partnership, and skills to be acquired and the constituencies that must be satisfied along the way. The book examines

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**how life sciences
start-ups can**

**create an exit for
their investors by
recognizing that a
liquidity event is
not consummated
without due
diligence. Due
diligence is bigger
than validating
accounting
transactions. It**

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***ensures the
company is
solving an
important
customer problem,
demonstrating
sales access, and
making sure that
intellectual
property is
impervious to
competitive
advancement. The***

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***due diligence
process supports
the telling of a
compelling story
to customers,
investors,
regulators, and
acquirers. Written
by an expert who
has worked with
more than 200 life
sciences start-ups
during the past***

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decade, the book discusses specific processes and investor milestones that must be navigated to align customer, funder, and acquirer needs. It examines these processes from the perspective of marketing value

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***through a focus on
the needs of
individual constitu
ents—investors,
regulators,
customers, and
exit candidates.
The book presents
data and analytical
processes
articulating the
fundable
milestones for***

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angel and venture capital. It gives you the tools needed to create branding for public investors and more.

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photosynthesis?***

***Who first studied
these concepts?
And who later built
on and expanded
the work of those
early thinkers?"--***

***Does gender
matter in global
climate change?***

***This timely and
provocative book***

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takes readers on a guided tour of basic climate science, then holds up a gender lens to find out what has been overlooked in popular discussion, research, and policy debates. We see that, around

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***the world, more
women than men
die in climate-
related natural
disasters; the
history of science
and war are
intimately
interwoven
masculine
occupations and
preoccupations;
and conservative***

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***men and their
interests drive the
climate change
denial machine.***

***We also see that
climate
policymakers who
embrace big
science
approaches and
solutions to
climate change are
predominantly***

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*male with an
ideology of
perpetual
economic growth,
and an agenda that
marginalizes the
interests of women
and developing
economies. The
book uses vivid
case studies to
highlight the
sometimes*

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***surprising
differential,
gendered impacts
of climate
changes.***

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property (IP) is a
key component of
the life sciences,
one of the most
dynamic and
innovative fields of
technology today.***

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***At the same time,
the relationship
between IP and the
life sciences raises
new public policy
dilemmas. The
Research
Handbook on
Intellectual
Property and the
Life Sciences
comprises
contributions by***

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***leading experts
from academia and
industry to provide
in-depth analyses
of key topics
including
pharmaceuticals,
diagnostics and
genes, plant
innovations, stem
cells, the role of
competition law
and access to***

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Research**

***Handbook focuses
on the relationship
between IP and the
life sciences in
Europe and the
United States,
complemented by
country-specific
case studies on
Australia, Brazil,
China, India,***

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South Africa and
Thailand to
provide a truly
international
perspective.***

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decolonising
global governance
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Human Rights**

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The Ebola Virus
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***and How You Can
Become Smarter
Than Your Doctor***

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new international institutions such as UNESCO and the WHO, monumental advances were made in both theoretical and practical applications of the life sciences, including the discovery of life's molecular processes and substantive improvements in global public health

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and medicine.

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Combining

perspectives from the history of science and world history, this volume examines the impact of major world-historical processes of the postwar period on the evolution of the life sciences. Contributors consider the long-term evolution of scientific practice, research, and

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innovation across a range of fields and subfields in the life sciences, and in the context of Cold War anxieties and ambitions. Together, they examine how the formation of international organizations and global research programs allowed for transnational exchange

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and cooperation, but in a period rife with competition and nationalist interests, which influenced dramatic changes in the field as the postcolonial world order unfolded.

When Deng Xiaoping introduced market reforms in the late 1970s, few would have imagined what the

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next four decades would bring. China's GDP has grown on average nearly 10 percent annually since, and its economy is now the second largest in the world. Forty years ago, the Flying Pigeon bicycle ruled the roads; today, China is the world's largest car market. And if forty years ago you looked

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out across the
Huangpu River from
the Bund in Shanghai,
you would have seen
farmland and a few
warehouses and
wharves; now you see
the stunning, futuristic
cityscape of Pudong.
The material progress
of the past forty years
has been staggering --
a source of pride for
the Chinese people, as

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well as a source of
legitimacy for the
ruling Chinese

Communist Party. But
that progress has come
at great cost: the
extreme pollution of
China's air, water, and
soil has taken a stark
toll on human health.

In Environmental
Pollution in China:
What Everyone Needs
to Know®, Daniel K.

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Gardner examines the range of factors -- economic, social, political, and historical -- contributing to the degradation of China's environment. He also covers the public response to the widespread pollution; the measures the government is taking to clean up the environment; and the

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country's efforts to lessen its dependence on fossil fuels and develop clean sources of energy. Concise, accessible, and authoritative, this book serves as an ideal primer on one of the world's most challenging environmental crises. This book provides a powerful diagnosis of

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why the global
governance of science
struggles in the face of
emerging powers.

Through unpacking
critical events in China
and India over the past
twenty years, it
demonstrates that the
'subversiveness'
assumed in the two
countries' rise in the
life sciences reflects
many of the regulatory

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challenges that are shared worldwide. It points to a decolonial imperative for science governance to be responsive and effective in a cosmopolitan world. By highlighting epistemic injustice within contemporary science, the book extends theories of decolonisation.

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This pioneering book offers a resource for educators, policymakers, researchers, exhibit designers, and program developers that illuminates creative, cutting-edge ways to inspire, engage, and motivate young people about STEM learning in both informal and formal

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education settings. A follow-up to the popular book *Design, Make, Play* (2013), this volume combines new research, innovative case studies, and practical advice from the New York Hall of Science (NYSCI) to define and illustrate a vision for creative and immersive learning, focusing on STEM

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learning experiences that are truly equitable and inclusive, and that foster learners' agency. Featuring contributions from program developers, facilitators, educators, exhibit designers, and researchers, the book provides real-world examples from informal and formal settings that fill the

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need for high-quality
STEM learning
opportunities that are
accessible to all
learners, including
groups
underrepresented in
STEM education and
careers. Chapters of
the book describe
strategies such as using
narratives to make
engineering learning
more inclusive,

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engaging English language learners in digital design, focusing on whole-family learning, and introducing underserved students to computational thinking through an immersive computer game. This book offers both a challenge and a guide to all STEM educators in museums,

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science centers, and other informal and formal education settings who are seeking out ambitious and more equitable forms of engagement. With leading-edge research and practical advice, the book provides appealing and accessible forms of engagement that will support a diverse

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range of audiences and
deepen their approach
to creative STEM
learning.

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**Growing Up
America brings
together new
scholarship that
considers the role of
children and**

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**teenagers in shaping
American political
life during the
decades following
the Second World
War. Growing Up
America places
young people--and
their
representations--at
the center of key
political trends,
illuminating the**

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**dynamic and
complex roles played
by youth in the
midcentury rights
revolutions, in
constructing and
challenging cultural
norms, and in
navigating the
vicissitudes of
American foreign
policy and
diplomatic relations.**

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The authors featured here reveal how young people have served as both political actors and subjects from the early Cold War through the late twentieth-century Age of Fracture. At the same time, Growing Up America contends

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**that the politics of
childhood and youth
extends far beyond
organized activism
and the ballot box.
By unveiling how
science fairs,
breakfast nooks, Boy
Scout meetings,
home economics
classrooms, and
correspondence
functioned as**

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**political spaces, this
anthology**

**encourages a
reassessment of the
scope and nature of
modern politics
itself.**

**Volume I, entitled
“Augmentation of
Brain Functions:
Brain-Machine
Interfaces”, is a
collection of articles**

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**on neuroprosthetic
technologies that**

**utilize brain-
machine interfaces
(BMIs). BMIs strive
to augment the brain
by linking neural
activity, recorded
invasively or
noninvasively, to
external devices,
such as arm
prostheses,**

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**exoskeletons that
enable bipedal**

**walking, means of
communication and
technologies that
augment attention.**

**In addition to many
practical**

**applications, BMIs
provide useful**

**research tools for
basic science. Several
articles cover**

challenges and controversies in this rapidly developing field, such as ways to improve information transfer rate. BMIs can be applied to the awake state of the brain and to the sleep state, as well. BMIs can augment action planning and decision making.

Importantly, BMI operations evoke brain plasticity, which can have long-lasting effects.

Advanced neural decoding algorithms that utilize optimal feedback controllers are key to the BMI performance. BMI approach can be combined with the

**systems are called
hybrid BMIs.**

**Overall, it appears
that BMI will lead to
many powerful and
practical brain-
augmenting
technologies in the
future.**

**Students drop out of
universities in large**

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**numbers, many
graduate to jobs that
do not require a
degree and a large
number learn little at
university, whilst
graduate salaries
have shrunk over
time and student
loan debt and default
have grown.**

**University research
achievements have**

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**declined while
university
administration has
expanded massively.
The contemporary
university is mired in
auditing, regulation,
waste and
aimlessness and its
contribution to
serious social
innovation has
deteriorated**

markedly. The miserable state of the universities reflects a larger social reality, as bureaucratic capitalism has replaced creative capitalism.

Universities and Innovation Economies examines the rise and fall of

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**the mass university
and post-industrial
society, considering
how we might
revitalize economic
and intellectual
creativity. Looking
to a much more
inventive social and
economic paradigm
to drive long-term
growth, the author
argues for a smaller,**

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**leaner, more
effective university
model - one capable
of delivering a
greater degree of
high-level discovery
and creative power.
A potent critique of
the post-industrial
mass university that
urges a
reimagination of
universities as places**

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**of discovery and
invention, this book
will appeal to readers
interested in higher
education, creativity,
social theory, the
sociology of work
and organisations,
political economy,
pedagogy and public
policy.**

**This book explores
the experiences of**

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**men and women who
train to teach ESL as
a second career.**

**Drawing from in-
depth interviews and
observations of 30
students (aged 45 to
73) in a TESOL
graduate program,
this book provides
portraits of these
individuals as they
develop as teachers.**

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It describes the processes they go through to launch their teaching careers, the successes and challenges they face, and the evolving significance of their work in their overall life goals and achievements. A

welcome addition to the growing

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**literature on teacher
development, this
book will be an
important resource
for teacher trainers
and anyone working
in TESOL.**

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Became a**

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dragon in

contemporary life

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**In September
2011, scientists
announced new
experimental
findings that
would not only
threaten the
conduct and**

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**publication of
influenza**

**research, but
would have
significant
policy and
intelligence
implications.
The findings
presented a
modified
variant of the
H5N1 avian**

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**influenza virus
(hereafter
referred to as
the H5N1 virus)
that was
transmissible
via aerosol
between
ferrets. These
results
suggested a
worrisome
possibility: the**

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**existence of a
new airborne
and highly
lethal H5N1
virus that could
cause a deadly
global
pandemic. In
response, a
series of
international
discussions on
the nature of**

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**dual-use life
science arose.**

**These
discussions
addressed the
complex social,
technical,
political,
security, and
ethical issues
related to dual-
use research.
This Research**

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Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and international perspectives. Why is it that, while women in the United

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States have generally made great strides in establishing parity with their male counterparts in educational attainment, they remain substantially underrepresented in the fields of

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**science,
technology,
engineering,
and
mathematics
(STEM)? Why is
it that, in
proportion to
the PhDs they
obtain in STEM,
they attain
fewer
administrative**

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**and managerial
positions in
academia and
industry than
their numbers
warrant and,
moreover, are
more likely
leave the field
once started in
their careers?
In the culture
and context of**

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**women's
advancement
and satisfaction
with careers in
STEM, the data
show that many
challenges and
obstacles
remain. By
showcasing the
stories of eight
women
scientists who**

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**have achieved
successful**

**careers in the
academy,
industry and
government,
Breaking In
offers vivid
insights into
the challenges
and barriers
that women
face in entering**

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**STEM while also
describing
these women's
motivations,
the choices
they made
along their
paths, and the
intellectual
satisfactions
and excitement
of scientific
discovery they**

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**derive from
their work.**

**Breaking In
underscores
issues aspiring
women
scientists will
encounter on
their journeys
and what they
can do to
forestall
potential**

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**obstacles,
advocate for
change, and
fulfill their
ambitions. And
it speaks to the
question: What
can be done to
encourage
more women to
specialize in
science,
mathematics,**

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and

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engineering? In
doctoral
granting
institutions,
where women
must start if
they hope to
earn advanced
degrees,
Breaking In can
serve both as a
student text**

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**and as guide
for department
chairs and
deans who are
concerned
about
organizational
climate and
culture and
their impact on
retention in
STEM fields. At
a broader level,**

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**this book offers
advice and
inspiration to
women
contemplating
entering STEM
fields, as well
to the teachers,
researchers,
and
administrators
responsible for
nurturing these**

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**women,
growing
enrollments in
their
disciplines, and
developing
creative and
intellectual
capital that the
nation needs to
compete in the
global
marketplace.**