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Genome sequencing enables scientists to study genes over time and to test the genetic variability of any form of life, from bacteria to mammals. Thanks to advances in molecular

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genetics, scientists can now determine an animal's degree of inbreeding or compare genetic variation of a captive species to wild or natural populations. Mapping an organism's genetic makeup recasts such terms as biodiversity and species and enables the

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conservation of rare or threatened species, populations, and genes. By introducing a new paradigm for studying and preserving life at a variety of levels, genomics offers solutions to previously intractable problems in understanding the biology of complex organisms and

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creates new tools for preserving the patterns and processes of life on this planet. Featuring a number of high-profile researchers, this volume introduces the use of molecular genetics in conservation biology and provides a historical perspective on the opportunities

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and challenges presented by new technologies. It discusses zoo-, museum-, and herbarium-based biological collections, which have expanded over the past decade, and covers the promises and problems of genomic and reproductive technology. The

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collection concludes with the philosophical and legal issues of conservation genetics and their potential effects on public policy.

In this New York Times bestseller and longlist nominee for the National Book Award, "our greatest living chronicler of the natural world" (The

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New York Times),
David Quammen
explains how recent
discoveries in
molecular biology
affect our
understanding of
evolution and life's
history. In the
mid-1970s, scientists
began using DNA
sequences to
reexamine the history
of all life. Perhaps the

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most startling discovery to come out of this new field—the study of life's diversity and relatedness at the molecular level—is horizontal gene transfer (HGT), or the movement of genes across species lines. It turns out that HGT has been widespread and important; we now know that roughly

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eight percent of the human genome arrived sideways by viral infection—a type of HGT. In The Tangled Tree, “the grandest tale in biology....David Quammen presents the science—and the scientists involved—with patience, candor, and flair” (Nature). We

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learn about the major players, such as Carl Woese, the most important little-known biologist of the twentieth century; Lynn Margulis, the notorious maverick whose wild ideas about “mosaic” creatures proved to be true; and Tsutomu Wantanabe, who discovered that the

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scourge of antibiotic-resistant bacteria is a direct result of horizontal gene transfer, bringing the deep study of genome histories to bear on a global crisis in public health. "David Quammen proves to be an immensely well-informed guide to a complex story" (The Wall Street Journal).

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In The Tangled Tree, he explains how molecular studies of evolution have brought startling recognitions about the tangled tree of life—including where we humans fit upon it. Thanks to new technologies, we now have the ability to alter even our genetic composition—through

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sideways insertions, as nature has long been doing. "The Tangled Tree is a source of wonder....Quammen has written a deep and daring intellectual adventure" (The Boston Globe).

"Ridley leaps from chromosome to chromosome in a handy summation of

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our ever increasing understanding of the roles that genes play in disease, behavior, sexual differences, and even intelligence.

. . . . He addresses not only the ethical quandaries faced by contemporary scientists but the reductionist danger in equating inheritability with inevitability.” —

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The New Yorker The genome's been mapped. But what does it mean? Matt Ridley's *Genome* is the book that explains it all: what it is, how it works, and what it portends for the future. Arguably the most significant scientific discovery of the new century, the mapping of the twenty-three

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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 longevity, and about free will.

Questions that will affect the rest of your life. Genome offers

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extraordinary insight into the ramifications of this incredible breakthrough. By picking one newly discovered gene from each pair of chromosomes and telling its story, Matt Ridley recounts the history of our species and its ancestors from the dawn of life to the brink of future

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medicine. From Huntington's disease to cancer, from the applications of gene therapy to the horrors of eugenics, Ridley probes the scientific, philosophical, and moral issues arising as a result of the mapping of the genome. It will help you understand what this scientific

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*milestone means for
you, for your children,
and for humankind.*

*An insider's view on
bringing extinct*

species back to life

Could extinct species,

like mammoths and

passenger pigeons,

be brought back to

life? In How to Clone

a Mammoth, Beth

Shapiro, an

evolutionary biologist

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*and pioneer in ancient
DNA research,
addresses this
intriguing question by
walking readers
through the
astonishing and
controversial process
of de-extinction. From
deciding which
species should be
restored to
anticipating how
revived populations*

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might be overseen in the wild, Shapiro vividly explores the extraordinary cutting-edge science that is being used to resurrect the past. Considering de-extinction's practical benefits and ethical challenges, Shapiro argues that the overarching goal should be the

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revitalization and stabilization of contemporary ecosystems. Looking at the very real and compelling science behind an idea once seen as science fiction, How to Clone a Mammoth demonstrates how de-extinction will redefine conservation's future. How gene editing will

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rewrite our futures

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How Epigenetics Is

Revolutionizing Our

Understanding of

Evolution's Past and

Present

How to Make a

Vaccine

Superlative

Foundations of Data

Science

Blood Duel

Epigenetics upends

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natural selection and genetic mutation as the sole engines of evolution, and offers startling insights into our future heritable traits. In the 1700s, Jean-Baptiste Lamarck first described epigenetics to explain the

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inheritance of

Book 2
acquired

characteristics;

however, his theory

was supplanted in

the 1800s by

Darwin's theory of

evolution by natural

selection through

heritable genetic

mutations. But

natural selection

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could not adequately explain how rapidly species re-diversified and repopulated after mass extinctions.

Now advances in the study of DNA and RNA have resurrected epigenetics, which can create radical

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*physical and
physiological
changes in
subsequent
generations by the
simple addition of a
single small
molecule, thus
passing along a
propensity for
molecules to attach
in the same places in*

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the next generation!

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Epigenetics is a complex process, but paleontologist and astrobiologist Peter Ward breaks it down for general readers, using the epigenetic paradigm to reexamine how the history of our species--from deep

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*time to the outbreak
of the Black Plague
and into the
present--has left its
mark on our
physiology,
behavior, and
intelligence. Most
alarming are
chapters about
epigenetic changes
we are undergoing*

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now triggered by

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toxins,

environmental

pollutants, famine,

poor nutrition, and

overexposure to

violence. Lamarck's

Revenge is an eye-

opening and

controversial

exploration of how

traits are inherited,

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and how outside

influences drive

what we pass along

to our progeny.

'[A]n excellent, brisk

guide to what is

likely to happen as

opposed to the

fantastically remote.'

- Los Angeles

Review of Books In

2018 the world woke

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up to gene editing

Book 2

with a storm of

controversy over

twin girls born in

China with genetic

changes deliberately

introduced by

scientists – changes

they will pass on to

their own offspring.

Genetic modification

(GM) has been with

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*us for 45 years now,
but the new system
known as CRISPR or
gene editing can
manipulate the genes
of almost any
organism with a
degree of precision,
ease and speed that
we could only dream
of ten years ago. But
is it ethical to*

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change the genetic

material of

organisms in a way

that might be passed

on to future

generations? If a

person is suffering

from a lethal genetic

disease, is it

unethical to deny

them this option?

Who controls the

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*application of this
technology, when it
makes 'biohacking'*

*– perhaps of one's
own genome – a real
possibility? Nessa*

*Carey's book is a
thrilling and timely
snapshot of a cutting-
edge technology that
will radically alter
our futures and the*

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way we prevent

Book 2

disease. 'A focused

snapshot of a brave

new world.' - Nature

'A brisk, accessible

primer on the fast-

moving field, a clear-

eyed look at a

technology that is

already driving

major scientific

advances - and

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raising complex

ethical questions.' -

Emily Anthes,

Undark

Jurassic Park meets

The Sixth Extinction

in Rise of the

Necrofauna, a

provocative look at

de-extinction from

acclaimed

documentarist and

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science writer Britt

Wray. A New Yorker

“The Books We

Loved in 2017”

Selection A Science

News Favorite Book

of 2017 A Sunday

Times “Must Read”

What happens when

you try to recreate a

woolly mammoth—fa

scinating science, or

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conservation

Book 2

catastrophe? In Rise

of the Necrofauna,

Wray takes us deep

into the minds and

labs of some of the

world's most

progressive thinkers

to find out. She

introduces us to

renowned futurists

like Stewart Brand

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and scientists like

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George Church, who

are harnessing the

powers of CRISPR

gene editing in the

hopes of "reviving"

extinct passenger

pigeons, woolly

mammoths, and

heath hens. She

speaks with Nikita

Zimov, who together

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*with his eclectic
father Sergey, is
creating Siberia's
Pleistocene Park—a
daring attempt to
rebuild the
mammoth's ancient
ecosystem in order
to save earth from
climate disaster.*

*Through interviews
with these and other*

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*thought leaders,
Wray reveals the
many incredible
opportunities for
research and
conservation made
possible by this
emerging new field.
But we also hear
from more
cautionary voices,
like those of*

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researcher and

award-winning

author Beth Shapiro

(How to Clone a

Woolly Mammoth)

and environmental

philosopher Thomas

van Dooren. Writing

with passion and

perspective, Wray

delves into the

larger questions that

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*come with this
incredible new
science, reminding
us that de-extinction
could bring just as
many dangers as it
does possibilities.
What happens, for
example, when we
bring an "unextinct"
creature back into
the wild? How can*

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we care for these

Book 2

strange animals and

ensure their comfort

and safety—not to

mention our own?

And what does de-

extinction mean for

those species that

are currently

endangered? Is it

really ethical to

bring back an extinct

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passenger pigeon,
Book 2
for example, when

countless other birds

today will face the

same fate? By

unpacking the many

biological,

technological,

ethical,

environmental, and

legal questions

raised by this

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*fascinating new
field, Wray offers a
captivating look at
the best and worst of
resurrection science.*

*A captivating
whirlwind tour
through the birth
and early life of the
scientific idea known
as “de-
extinction.”—Beth*

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*Shapiro, author of
How to Clone a
Mammoth: The
Science of De-
Extinction Published
in partnership with
the David Suzuki
Institute.*

*Imagining a future
in which humans
fundamentally
reshape the natural*

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*world using
nanotechnology,
synthetic biology, de-
extinction, and
climate engineering.
We have all heard
that there are no
longer any places
left on Earth
untouched by
humans. The
significance of this*

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goes beyond
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statistics

*documenting melting
glaciers and
shrinking species
counts. It signals a
new geological
epoch. In The
Synthetic Age,
Christopher Preston
argues that what is
most startling about*

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this coming epoch is not only how much impact humans have had but, more important, how much deliberate shaping they will start to do.

Emerging technologies promise to give us the power to take

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over some of
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Nature's most basic operations. It is not just that we are exiting the Holocene and entering the Anthropocene; it is that we are leaving behind the time in which planetary change is just the unintended

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consequence of

unbridled

industrialism. A

world designed by

engineers and

technicians means

the birth of the

planet's first

Synthetic Age.

Preston describes a

range of

technologies that

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*will reconfigure
Earth's very
metabolism:
nanotechnologies
that can restructure
natural forms of
matter; “molecular
manufacturing” that
offers unlimited
repurposing;
synthetic biology's
potential to build,*

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not just read, a

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genome; “biological

mini-machines” that

can outdesign

evolution; the

relocation and

resurrection of

species; and climate

engineering attempts

to manage solar

radiation by

synthesizing a

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*volcanic haze, cool
Book 2
surface temperatures*

*by increasing the
brightness of clouds,
and remove carbon
from the atmosphere
with artificial trees
that capture carbon
from the breeze.*

*What does it mean
when humans shift
from being*

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caretakers of the Earth to being shapers of it? And in whom should we trust to decide the contours of our synthetic future? These questions are too important to be left to the engineers. How Biology and Environment Shape

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Our Racial Divide

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Neanderthal Life,

Love, Death and Art

Statistical

Population

Genomics

Science in Black and

White

Hacking the Code of

Life

Zoonomia; Or, The

Laws of Organic

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Life ...
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An argument that we have a moral duty to colonize other planets and solar systems, and a plan for doing so. Inevitably, life on Earth will come to an end, whether by climate disaster, or by cataclysmic war, or when the sun runs out of fuel in a few billion

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years. To avoid extinction, will we have to find a new home planet, perhaps even a new solar system, to inhabit? In this provocative and fascinating book, Christopher Mason argues that we have a moral duty to do just that. Because we are the only species aware

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that life on Earth has an expiration date, we have a responsibility to act as the shepherd of lifeforms--not only for our species but for all species on which we depend and for those still to come (by accidental or designed evolution). Mason argues that the same capacity for ingenuity

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that has enabled us to build rockets and land on other planets can be applied to redesigning biology so that we can sustainably inhabit those planets. And he lays out a 500-year plan for undertaking the massively ambitious project of reengineering human

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genetics for life in
other worlds.

THE BATTLE TO
SAVE HUMANITY
HAS BEGUN. Off the
coast of Antarctica, a
research vessel
discovers a mysterious
structure buried deep
within an iceberg.

Entombed for
thousands of years, it
can't possibly be man-

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made. But a secretive and ruthless cabal think they know what it is... and what it means. The Immari have spent millennia preparing for the return of humanity's ancient enemy. Faced with an extinction-level threat, they believe mankind's only chance of

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survival will mean sacrificing 99.9% of the planet's population. It's a price the Immari are prepared to pay. Geneticist Kate Warner and intelligence agent David Vale may have a chance to avert the looming catastrophe, but only if they can

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decode the secrets of
the Atlantis Gene and
unlock the truth about
humanity's origins.

Betrayal. Sacrifice.

Survival. Welcome to
The Extinction Trials.

Storm and Lincoln's
city is burning. The
people are starving.

The only place left to
run is Pistoria, the
continent of monsters.

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It's up to Storm and Lincoln to keep their people alive as they colonize this lethal paradise. But will the biggest threat to their survival be the monsters in the jungle...or the ones inside the encampment with them? The Hunger Games meets Jurassic

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Park in this wildly popular series filled with action, survival and betrayal.

A new ice age. A mysterious object in space. And a desperate mission to save humanity from extinction.

Departure

A Radical New

History of Life

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Conservation Genetics
in the Age of
Genomics

How to build a dragon or
dieting: a satirical look
at cutting-
edge science

Why Complex Life is
Uncommon in the
Universe

The Science of De-
Extinction

Genome

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Distinguished expert in vaccine development John Rhodes tells the story of the first approved COVID-19 vaccines and offers an essential, up-to-the-minute primer on how scientists discover, test, and distribute vaccines. As the COVID-19 pandemic has

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affected every corner of the world, changing our relationship to our communities, to our jobs, and to each other, the most pressing question has been—when will it end? Researchers around the globe are urgently trying to answer this question by racing

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to test and
distribute a vaccine
that could end the
greatest public
health threat of our
time. In *How to
Make a Vaccine*, an
expert who has
firsthand
experience
developing vaccines
tells an optimistic
story of how three
hundred years of

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vaccine discovery and a century and a half of immunology research have come together at this powerful moment—and will lead to multiple COVID-19 vaccines. Dr. John Rhodes draws on his experience as an immunologist, including working

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alongside a young Anthony Fauci, to unravel the mystery of how vaccines are designed, tested, and produced at scale for global deployment.

Concise and accessible, this book describes in everyday language how the immune system evolved to

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combat infection,
how viruses
responded by
evolving ways to
evade our defenses,
and how vaccines
do their work. That
history, and the
pace of current
research
developments,
make Rhodes
hopeful that
multiple vaccines

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will protect us.

Today the complex workings of the immune system are well understood.

The tools needed by biomedical scientists stand ready to be used, and more than 160 vaccine candidates have already been produced. But defeating COVID-19

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won't be the end of the story: Rhodes describes how discoveries today are also empowering scientists to combat future threats to global health, including a recent breakthrough in the development of genetic vaccines, which have never

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before been used in humans. As the world prepares for a vaccine, Rhodes offers a current and informative look at the science and strategies that deliver solutions to the crisis.

The end... is only the beginning. After a mysterious global event known only

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as 'The Change', six strangers wake up in an underground research facility where they learn that they're part of the Extinction Trials - a scientific experiment to restart the human race. But the Extinction Trials harbours a very big secret. And so does

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the world outside.
From A.G. Riddle,
the Amazon and
Wall Street Journal
bestselling author
with nearly five
million copies sold
worldwide in
twenty languages,
comes an epic
standalone
adventure with a
surprise ending
unlike anything

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before.
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A rigorous and scientific analysis of the myriad possibilities of life beyond our planet. Ò Are we alone in the universe? Ó This tantalizing question has captivated humanity over millennia, but seldom has it been

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approached

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rigorously. Today

the search for

signatures of

extraterrestrial life

and intelligence has

become a rapidly

advancing scientific

endeavor. Missions

to Mars, Europa,

and Titan seek

evidence of life.

Laboratory

experiments have

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made great strides in creating synthetic life, deepening our understanding of conditions that give rise to living entities. And on the horizon are sophisticated telescopes to detect and characterize exoplanets most likely to harbor life.

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Life in the Cosmos offers a thorough overview of the burgeoning field of astrobiology, including the salient methods and paradigms involved in the search for extraterrestrial life and intelligence.

Manasvi Lingam and Abraham Loeb tackle three areas

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of interest in
hunting for life
Òout thereÓ: first,
the pathways by
which life originates
and evolves;
second, planetary
and stellar factors
that affect the
habitability of
worlds, with an eye
on the biomarkers
that may reveal the
presence of

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microbial life; and finally, the detection of technological signals that could be indicative of intelligence.

Drawing on empirical data from observations and experiments, as well as the latest theoretical and computational

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developments, the authors make a compelling scientific case for the search for life beyond what we can currently see.

Meticulous and comprehensive, *Life in the Cosmos* is a master class from top researchers in astrobiology, suggesting that the

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answer to our age-old question is closer than ever before.

The Tangled Tree
How Humanity
Discovered Its Own
Extinction
Conservation in the
Era of Synthetic
Biology
Life in the Cosmos
X-Risk
Lamarck's Revenge

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**EXTINCTION
BECKONS. A**
pandemic unlike
any before it is
sweeping the
globe. Nearly a
billion people are
already dead - and
those the Plague
doesn't kill, it
transforms at the
genetic level. As

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chaos engulfs the
world, the Immari

emerge. A

clandestine cabal

that has spent

millennia planning

for this moment,

the Immari want

the Plague to run

its course,

envisioning a world

populated by

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genetically superior survivors - survivors they can control for their own purposes... With the fate of the world hanging in the balance, geneticist Kate Warner searches for a cure to the Plague. Her

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journey takes her
across the new
wastelands of
Europe and
northern Africa,
but it's her
research into the
past that takes her
where she never
expected to go...
How the principles
of biological

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innovation can

help us overcome

creative

challenges in art,

business, and

science In Life

Finds a Way,

biologist Andreas

Wagner reveals

the deep symmetry

between

innovation in

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biological evolution
and human

cultural creativity.

Rarely is either a
linear climb to
perfection--instead
, "progress" is
typically marked by
a sequence of
peaks, plateaus,
and pitfalls. For
instance, in

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Picasso's forty-
some iterations of
Guernica, we see
the same
combination of
small steps,
incessant
reshuffling, and
large, almost
reckless, leaps
that characterize
the way evolution

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transformed a
dinosaur's
grasping claw into
a condor's soaring
wing. By
understanding
these principles,
we can also better
realize our own
creative potential
to find new
solutions to

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adversity.

Ultimately, *Life Finds a Way* offers a new framework for the nature of creativity, enabling us to better adapt, grow, and change in art, business, or science--that is, in life.

Against impossible

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odds, the last

Book 2
survivors of the

human race have

created a new

home on a planet

far from Earth. But

everything is not

as it seems - and

they will end up

facing their

greatest challenge

yet. The

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conclusion to the
Long Winter
trilogy.

This unflinching
expose of racially
biased

research--the Alt-
Right's "scientific
wing"--debunks

both old and
emerging claims of
inborn racial

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disparities. Racial groups differ in some of their social patterns, but the cause of those differences--nature versus nurture, or genetics versus environment--remains fiercely debated. For the pro-nature camp--

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sometimes aligned
with white

nationalism and

eugenics, and

often used to

promote ideas of

racial inferiority

and superiority --

race-based

biological

determinism

contributes

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significantly to the ethnic divide, especially the black/white gap in societal achievement. By contrast, pro-nurture supporters attribute ethnic variation in social outcomes primarily to environmental

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circumstances,
ecological
conditions, and
personal
experience. In this
thoroughly
researched book,
science writer
Alondra Oubre
examines
emerging scientific
discoveries that

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show how both biology and environment interact to influence IQ--intelligence performance--and social behaviors across continental populations, or human races. She presents

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compelling
evidence for why
environmental and
certain non-DNA-
related biological
phenomena
overall seem to
best explain
black/white
disparities in a
gamut of social
behaviors,

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including family structure, parenting, educational attainment, and rates of violent crime. As she demonstrates, nature still matters, but the biology that impacts racial variance in social

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behaviors extends beyond genetics to include other processes--epigenetics, gene expression, and plasticity--all of which are profoundly affected by a wide array of environmental forces. The

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complex,
synergistic
interplay of these
factors combined,
rather than just
genes or just
environment,
appears to
account for
black/white
divergence in a
gamut of social

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behaviors.

Book 2

Plagues upon the

Earth

The Extinction

Trials

Life Finds a Way

The Biology of

Extremes

From

Biosignatures to

Technosignatures

The Atlantis

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A handful of discoveries have changed the course of human history. This book is about the most recent and potentially the most powerful and dangerous of them all. It is an invention that allows us to rewrite the genetic code that shapes and controls all living beings with astonishing accuracy and ease.

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Thanks to it, the dreams of genetic manipulation have become a stark reality: the power to cure disease and alleviate suffering, to create new sources of food and energy, as well as to re-design any species, including humans, for our own ends. Jennifer Doudna is the co-inventor of this technology - known as

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CRISPR - and a scientist of worldwide renown. Writing with fellow researcher Samuel Sternberg, here she provides the definitive account of her discovery, explaining how this wondrous invention works and what it is capable of. She also asks us to consider what our new-found power means:

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how do we enjoy its
unprecedented benefits
while avoiding its
equally unprecedented
dangers? The future of
humankind - and of all
life on Earth - is at
stake. This book is an
essential guide to the
path that now lies ahead.
What if you could have
your own real dragon?
While that might seem
like just a fantasy, today

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cutting-edge science has

brought us to the point

where it might really be

possible. This book

looks into the

possibilities of making

living, fire-breathing

dragons. The world has

been fascinated with

dragons for thousands of

years. Fictional dragons

still have a firm place in

pop culture, such as

Smaug from *The Hobbit*

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as well as the dragons in Game of Thrones and in the How to Train Your Dragon movies. This new book discusses using powerful technologies such as CRISPR gene editing, stem cells, and bioengineering to make real dragons. It also goes through what useful information we can learn from animals

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such as Pteranodons and amazing present-day creatures in our quest to build actual dragons.

The book goes on to discuss the possibility of building other mythical creatures such as unicorns and mermaids.

Overall, How to Build A Dragon is also meant as a satirical look at cutting-edge science, and it pokes fun at science

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hype. Anyone who is interested in dragons or cutting-edge science will enjoy this book! It is written in a humorous, approachable way making science fun and easy to understand, including for young adults. The author is well-known scientist Paul Knoepfler who is familiar to the public for his science, his blog The

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Niche, and his frequent contributions to lay stories on new science concepts such as stem cells and CRISPR. He also is known for his TED talk on designer babies with more than 1.3 million views, and his two books — . The co-author, his daughter Julie Knoepfler, is a high school student interested in science and

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writing. She has her own blog on literary and film analysis, and enjoys taking a humorous look at culture through writing. This textbook describes recent advances in genomics and bioinformatics and provides numerous examples of genome data analysis that illustrate its relevance to

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real world problems and will improve the reader's bioinformatics skills. Basic data preprocessing with normalization and filtering, primary pattern analysis, and machine learning algorithms using R and Python are demonstrated for gene-expression microarrays, genotyping microarrays, next-generation

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sequencing data, epigenomic data, and biological network and semantic analyses. In addition, detailed attention is devoted to integrative genomic data analysis, including multivariate data projection, gene-metabolic pathway mapping, automated biomolecular annotation, text mining

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of factual and literature databases, and integrated management of biomolecular databases. The textbook is primarily intended for life scientists, medical scientists, statisticians, data processing researchers, engineers, and other beginners in bioinformatics who are experiencing difficulty in approaching the field.

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However, it will also serve as a simple guideline for experts unfamiliar with the new, developing subfield of genomic analysis within bioinformatics.

What determines whether complex life will arise on a planet, or even any life at all?

Questions such as these are investigated in this groundbreaking book. In

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doing so, the authors synthesize information from astronomy, biology, and paleontology, and apply it to what we know about the rise of life on Earth and to what could possibly happen elsewhere in the universe. Everyone who has been thrilled by the recent discoveries of extrasolar planets and

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the indications of life on Mars and the Jovian moon Europa will be fascinated by Rare Earth, and its implications for those who look to the heavens for companionship.

The Science, Ethics, and Risks of De-Extinction

A Crack in Creation

Rise of the Necrofauna

The Atlantis World

The Solar War

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A sweeping germ's-eye view of history from human origins to global pandemics. Plagues upon the Earth is a monumental history of humans and their germs. Weaving together a grand narrative of

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global history
with insights
from cutting-
edge genetics,
Kyle Harper
explains why
humanity's
uniquely
dangerous
disease pool is
rooted deep in
our evolutionary
past, and why
its growth is

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accelerated by technological progress. He shows that the story of disease is entangled with the history of slavery, colonialism, and capitalism, and reveals the enduring effects of historical plagues in

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patterns of
wealth, health,
power, and
inequality. He
also tells the
story of
humanity's
escape from
infectious
disease—a
triumph that
makes life as we
know it
possible, yet

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destabilizes the environment and fosters new diseases.

Panoramic in scope, *Plagues upon the Earth* traces the role of disease in the transition to farming, the spread of cities, the advance of

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transportation,
and the
stupendous
increase in
human
population.
Harper offers a
new
interpretation
of humanity's
path to control
over infectious
disease—one
where rising

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evolutionary
threats

constantly push
back against
human progress,
and where the
devastating
effects of
modernization
contribute to
the great
divergence
between
societies. The

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book reminds us that human health is globally interdependent—and inseparable from the well-being of the planet itself. Putting the COVID-19 pandemic in perspective, *Plagues upon the Earth* tells the

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story of how we
got here as a
species, and it
may help us
decide where we
want to go.

How humanity
came to
contemplate its
possible
extinction. From
forecasts of
disastrous
climate change

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to prophecies of
evil AI superintelligences and
the impending
perils of genome
editing, our
species is
increasingly
concerned with
the prospects of
its own
extinction. With
humanity's
future on this

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planet seeming more insecure by the day, in the twenty-first century, existential risk has become the object of a growing field of serious scientific inquiry. But, as Thomas Moynihan shows in *X-Risk*,

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this preoccupation is not exclusive to the post-atomic age of global warming and synthetic biology. Our growing concern with human extinction itself has a history. Tracing this untold

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story, Moynihan revisits the pioneers who first contemplated the possibility of human extinction and stages the historical drama of this momentous discovery. He shows how, far from being a

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secular reprise
of religious
prophecies of
apocalypse,
existential risk
is a thoroughly
modern idea,
made possible by
the burgeoning
sciences and
philosophical
tumult of the
Enlightenment
era. In

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recollecting how
we first came to
care for our
extinction,
Moynihan reveals
how today's
attempts to
measure and
mitigate
existential
threats are the
continuation of
a project
initiated over

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two centuries ago, which concerns the very vocation of the human as a rational, responsible, and future-oriented being.

This book provides an introduction to the mathematical and algorithmic

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foundations of data science, including machine learning, high-dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high

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dimensions,
important linear
algebraic
techniques such
as singular
value
decomposition,
the theory of
random walks and
Markov chains,
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of and important
algorithms for
machine

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wavelets and
compressed
sensing.

Important
probabilistic
techniques are
developed
including the
law of large
numbers, tail
inequalities,
analysis of
random
projections,

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generalization
guarantees in
machine
learning, and
moment methods
for analysis of
phase
transitions in
large random
graphs.
Additionally,
important
structural and
complexity

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measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and graduate courses in the design and analysis of algorithms for data.

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2019 Foreword
Indie Silver

Award Winner for
Science Welcome
to the biggest,
fastest,
deadliest
science book
you'll ever
read. The
world's largest
land mammal
could help us
end cancer. The

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fastest bird is showing us how to solve a century-old engineering mystery. The oldest tree is giving us insights into climate change. The loudest whale is offering clues about the impact

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of solar storms.
For a long time,
scientists
ignored
superlative life
forms as
outliers.
Increasingly,
though,
researchers are
coming to see
great value in
studying plants
and animals that

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exist on the outermost edges of the bell curve. As it turns out, there's a lot of value in paying close attention to the "oddballs" nature has to offer. Go for a swim with a ghost shark, the

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slowest-evolving creature known to humankind, which is teaching us new ways to think about immunity. Get to know the axolotl, which has the longest-known genome and may hold the secret to cellular

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regeneration.
Learn about
Monorhaphis
chuni, the
oldest
discovered
animal, which is
providing
insights into
the connection
between our
terrestrial and
aquatic worlds.
Superlative is

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the story of extreme evolution, and what we can learn from it about ourselves, our planet, and the cosmos. It's a tale of crazy-fast cheetahs and super-strong beetles, of microbacteria and enormous

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plants, of whip-smart dolphins and killer snakes. This book will inspire you to change the way you think about the world and your relationship to everything in it.

The New Power to
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Control
Evolution?

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Age
Pandemic
An Essential
Guide for
COVID-19 and
Beyond
How to Clone a
Mammoth
Engineering Life
to Reach New
Worlds

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A groundbreaking examination of the implications of synthetic biology for biodiversity conservation Nature almost everywhere survives on

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human terms.
The
distinction
between what
is natural and
what is human-
made, which
has informed
conservation
for centuries,
has become
blurred. When

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scientists can
reshape genes
more or less
at will, what
does it mean
to conserve
nature? The
tools of
synthetic
biology are
changing the
way we answer

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that question.

Gene editing
technology is
already
transforming
the
agriculture
and
biotechnology
industries.

What happens
if synthetic

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biology is
also used in
conservation
to control
invasive
species, fight
wildlife
disease, or
even bring
extinct
species back
from the dead?

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Conservation
scientist Kent
Redford and
geographer
Bill Adams
turn to
synthetic
biology,
ecological
restoration,
political
ecology, and

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de-extinction

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studies and

propose a

thoroughly

innovative

vision for

protecting

nature.

The X1

pandemic

ravaged the

world.

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Billions were
infected, 30
million died.

It was not an
act of nature.

X1 was man-
made, a deadly
plague

deliberately
released for
one reason

only: to force

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people to take
the cure. But
the cure is
worse than the
disease, a
sophisticated
nanotechnology
that has the
potential to
enslave all
humanity
unless Dr

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Peyton Shaw

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can stop it.

Dr Shaw's

search for the

culprits and a

countermeasure

starts at the

ends of the

Earth, on a

sunken

submarine

beneath the

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Arctic ice. It
will take her
deep into
humanity's
past, towards
an ancient
secret encoded
in our DNA,
and a
revelation
that will
rewrite

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history... The

final

thrilling

installment of

the Extinction

Files will

change your

very

understanding

of what it

means to be

human,

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blending
meticulous
scientific
research with
the heart-
pounding
fiction that
has made A.G.
RIDDLE a
global
phenomenon.

** WINNER OF

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THE PEN HESSEL

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L-TILTMAN

PRIZE 2021 **

'Beautiful,
evocative, aut
horitative.'

Professor

Brian Cox

'Important
reading not
just for
anyone

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interested in
these ancient
cousins of
ours, but also
for anyone
interested in
humanity.'

Yuval Noah

Harari Kindred

is the

definitive

guide to the

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Neanderthals.

Since their
discovery more
than 160 years
ago,

Neanderthals
have

metamorphosed
from the

losers of the
human family

tree to A-list

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hominins.

Rebecca Wragg
Sykes uses her
experience at
the cutting-
edge of
Palaeolithic
research to
share our new
understanding
of
Neanderthals,

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shoving aside clichés of rag-clad brutes in an icy wasteland. She reveals them to be curious, clever connoisseurs of their world, technologically

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inventive and
ecologically
adaptable.

Above all,
they were
successful
survivors for
more than
300,000 years,
during times
of massive
climatic

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upheaval. Much of what defines us was also in Neanderthals, and their DNA is still inside us.

Planning, cooperation, altruism, craftsmanship,

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aesthetic
sense,
imagination,
perhaps even a
desire for
transcendence
beyond
mortality.
Kindred does
for
Neanderthals
what Sapiens

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did for us,
revealing a
deeper, more
nuanced story
where humanity
itself is our
ancient,
shared
inheritance.
Geneticist
Kate Warner
and counter-

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terrorism

Book 2

agent David

Vale have

prevented a

fierce plague

from wiping

out humanity -

but the

struggle to

survive is far

from over.

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What Evolution
Teaches Us
About
Creativity
The Science
and
Applications
of Microbial
Genomics
Winter World

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Summary

In 2003, the first human genome was sequenced. But the secrets it held were never revealed. The truth was discovered thirty years ago, almost by accident. Dr.

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Paul Kraus had spent his entire career searching for what he called humanity's lost tribes -- human ancestors who had gone extinct. When Kraus compared the DNA samples of the lost tribes

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with our own, he
found a pattern of
changes: a code.

At the time, the
technology didn't
exist to unravel
what it meant. To
protect the
secret, Kraus hid
his work and
disappeared.

Now the

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technology exists
to finally

understand the
mysterious code

buried in the

human genome,

but finding the

pieces of Kraus's

research is omre

dangerous than

anyone imagined.

From the author

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of the #1

Book 2

bestselling The

Atlantis Gene

comes a new

novel in which

the world's past

and future rests

in the hands of

five unwitting

strangers in this

definitive edition

of A. G. Riddle's

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time-traveling,

mind-bending

speculative

thriller. En route

to London from

New York, Flight

305 suddenly

loses power and

crash-lands in

the English

countryside,

plunging a group

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of strangers into
a mysterious

adventure that
will have

repercussions for
all of humankind.

Struggling to stay
alive, the

survivors soon
realize that the
world they've

crashed in is very

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Book 2

different from the
one they left. But
where are they?
Why are they
here? And how
will they get back
home? Five
passengers seem
to hold clues
about what's
really going on:
writer Harper

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Book 2
Lane, venture
capitalist Nick

Stone, German
genetic

researcher

Sabrina

Schröder,
computer

scientist Yul Tan,
and Grayson

Shaw, the son of
a billionaire

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philanthropist. As more facts about the crash emerge, it becomes clear that some in this group know more than they're letting on—answers that will lead Harper and Nick to

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uncover a far-reaching conspiracy involving their own lives. As they begin to piece together the truth, they discover they have the power to change the future and the past—to

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save our world . . .

Book 2
. or end it. A

wildly inventive

and propulsive

adventure full of

hairpin twists,

Departure is a

thrilling tale that

weaves together

power, ambition,

fate, memory,

and love, from a

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bold and
visionary talent.
Over the past
several decades,
new scientific
tools and
approaches for
detecting
microbial species
have dramatically
enhanced our
appreciation of

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the diversity and abundance of the microbiota and its dynamic interactions with the environments within which these microorganisms reside. The first bacterial genome was sequenced

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in 1995 and took more than 13 months of work to complete.

Today, a microorganism's entire genome can be sequenced in a few days. Much as our view of the cosmos was

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forever altered in the 17th century with the invention of the telescope, these genomic technologies, and the observations derived from them, have fundamentally transformed our appreciation of

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the microbial
world around us.

On June 12 and
13, 2012, the
Institute of
Medicine's
(IOM's) Forum on
Microbial Threats
convened a
public workshop
in Washington,
DC, to discuss

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the scientific
tools and
approaches
being used for
detecting and
characterizing
microbial
species, and the
roles of microbial
genomics and
metagenomics to
better understand

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the culturable
and unculturable
microbial world
around us.

Through invited
presentations
and discussions,
participants
examined the use
of microbial
genomics to
explore the

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diversity,
evolution, and
adaptation of
microorganisms
in a wide variety
of environments;
the molecular
mechanisms of
disease
emergence and
epidemiology;
and the ways that

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genomic technologies are being applied to disease outbreak trace back and microbial surveillance. Points that were emphasized by many participants included the need

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to develop robust standardized sampling protocols, the importance of having the appropriate metadata, data analysis and data management challenges, and information

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sharing in real time. The Science and Applications of Microbial Genomics summarizes this workshop.

This open access volume presents state-of-the-art inference methods in

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population
genomics,
focusing on data
analysis based
on rigorous
statistical
techniques. After
introducing
general concepts
related to the
biology of
genomes and

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their evolution,
the book covers
state-of-the-art
methods for the
analysis of
genomes in
populations,
including
demography
inference,
population
structure

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analysis and
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detection of

selection, using

both model-

based inference

and simulation

procedures. Last

but not least, it

offers an

overview of the

current

knowledge

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acquired by
applying such
methods to a
large variety of
eukaryotic
organisms.

Written in the
highly successful
Methods in
Molecular
Biology series
format, chapters

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include
introductions to
their respective
topics, pointers
to the relevant
literature, step-by-
step, readily
reproducible
laboratory
protocols, and
tips on
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and avoiding
known pitfalls.

Authoritative and
cutting-edge,

Statistical

Population

Genomics aims
to promote and
ensure

successful
applications of
population

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methods to an
increasing
number of model
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biological
questions. This
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about his bloody
exploits in the**

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newspaper,

serial killer

Jeeter Frost

finds a teacher

to help him,

while the

townsfolk of

Coffin Varnish,

hoping to cash

in on his

infamy, put his

victims on

display, to

which he

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strongly and
violently
objects.

Original.

"Geophysicist
Jack Greer
believes he may
finally have
found the
resting place of
the meteorite
that wiped out
the dinosaurs
sixty-five

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million years

Book 2

ago. A few miles

off the Yucatán

coast, Jack and

a team of

scientists tow

an aging

drilling

platform over

the impact

crater with the

aim of securing

a sample. But

buried deep

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beneath the
earth lies a
shocking
discovery that
threatens to
shatter
everything we
think we know
about the
origins of our
species. A world
away, geneticist
Dr. Mia Ward
receives a

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mysterious
Book 2
delivery from

her former boss
and mentor, Alan
Salzburg. In it
are clues of a
dire warning
hidden inside
the human
genome, one
which foretells
man's very
extinction. His
instructions to

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Book 2

Mia are simple:
keep the
information safe
and, above all,
trust no
one--words all
the more
chilling after
Alan turns up
dead. But who
wrote the
message and what
does it mean?
Jack's recent

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Book 2

discovery just
may hold the
answers, but can
she reach him in
time to save the
human race?" --

Back cover.

The Next 500

Years

Outdesigning

Evolution,

Resurrecting

Species, and

Reengineering

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The Atlantis
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Kindred
Rebel