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Vaccine Race How

**The Vaccine Race
How Scientists Used
Human Cells To
Combat Killer
Viruses**

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The Vaccine Race: Science,
Politics and the Human Costs

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*Meredith Wadman @ 5x15 - The
Vaccine Race - Wellcome Book
Prize 2018 Race for COVID-19
Vaccine: How Far Along?*

Covid-19: 'Vaccine
development should be driven
by science, not politics'

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Scientists struggle to find
Covid-19 vaccine
Coronavirus: Scientists in
the US race to find a
vaccine Scientists in North
America race to find
COVID-19 vaccine Live:
Minister KTR - The Vaccine

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Race: Balancing Science and
Urgency

How Scientists Are Trying to
Develop a Coronavirus

Vaccine | WSJ Race to create
a vaccine Businessweek Town

Hall: The Vaccine Race The
science of vaccines and how

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they work Biopharma CEOs
pledge to stand with science
in Covid-19 vaccine race

~~Human testing begins as labs
race for Covid-19 vaccine~~

Coronavirus vaccine race: A
matter of political prestige

| COVID-19 Special How

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~~Scientists are rushing to
create a coronavirus vaccine
| COVID-19 Special British
scientists race to develop
coronavirus vaccine Meredith
Wadman, \"The Vaccine Race\"
Covid Vaccine Race Heats Up
With Dozens in Development:~~

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~~Johns Hopkins Microbes After
Hours: The Never-ending
Vaccine Race~~

The Vaccine Race How
Scientists

The Vaccine Race is a
tremendous feat of research
and synthesis, its lucid

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technical explanations
combined with forays into
the business politics of big
pharma, and portraits of the
scientists whose work has
saved untold lives."

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The Vaccine Race: How
Scientists Used Human Cells
to ...

Scientists race to find
'warm' Covid vaccine to
solve issue of cold storage
With potential injectable
vaccines estimated to be out

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Scientists Used Human
Cells To Combat Killer
Viruses

of reach for two-thirds of
world's population,
scientists hope ...

Scientists race to find
'warm' Covid vaccine to
solve ...

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The Oxford coronavirus vaccine could still catch up with its US rivals as scientists said they were hoping to have results by Christmas and confirmed that regulators are conducting a "rolling ...

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Oxford Covid vaccine may
catch US rival as scientists
aim ...

Political pressure has
overtaken scientific
evidence in the push for a

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Covid-19 vaccine, human scientists said Credit: Reuters Leading scientists across the world say rushing the development of a...

Speed of coronavirus vaccine

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race 'crazy' and unsafe...

The long game: the race for
a vaccine against all

coronaviruses There is hope
that Covid-19 immunisation
might soon be a reality, but
some scientists are aiming
for a broader solution

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The long game: the race for
a vaccine against all ...
Science and nature books The
Vaccine Race: How Scientists
Used Human Cells to Combat

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Killer Viruses Used by Meredith
Wadman - review The
Cells To Combat Killer
Viruses
extraordinary story of the
man who risked his career to
create...

The Vaccine Race: How

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Scientists Used Human Cells
to . . . To Combat Killer
Pfizer chief Albert Bourla
set his top vaccine
scientists a daunting
challenge. Credit: AP The
assignment was both
inspiring and daunting. It

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Scientists researchers with
the backing to tackle ...

Viruses

How two companies sprinted
ahead in the extraordinary
race ...

Could Covid mutation

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spreading from MINK to
humans in Denmark derail
vaccine race? Scientists say
single strain 'is less
sensitive to antibodies',
sparking calls to shut
borders after country ...

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Scientists say mink strain
of Covid is 'less sensitive
to ...

Hope hangs on the drug
trials and vaccines that
scientists are trying to
develop globally. The

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vaccines and drugs have been defined by 'almost moments' where researchers get so close to scientific...

Kenyan scientists race to find corona vaccine - The

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Standard Scientists Used Human

Cells To Combat Killer
Viruses
Scientists developing a
Covid vaccine at Oxford

University said this morning
that their jab had produced
a “robust” immune response
in people over the age of
70. The results, published in

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Oxford Covid-19 vaccine
produces 'robust' response
in . . .

The Vaccine Race by Meredith
Wadman reminded me of just

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how different life used to be. This work is even more relevant today, as currently in Minnesota, the state is in the the midst of the largest measles outbreak in years due to the efforts of anti-vaccination advocates.

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The Vaccine Race: Science,
Politics, and the Human
Costs ...

Covid vaccine shows that
science can save the day,
says TIM NEWARK WHAT a

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heroic race it has been.
Teams of scientists around
the world have been working
at breakneck speed to devise
a vaccine to...

Covid vaccine shows that

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Scientists Used Human
says . . .

Cells To Combat Killer Viruses

A breakthrough has been made with vaccines, with a second vaccine that could be 94.5% effective. British scientists have hailed the "tremendously exciting" news

Download File PDF The Vaccine Race How that a US coronavirus vaccine may ... Cells To Combat Killer Viruses

An American coronavirus vaccine has been shown to be 95% ...

Scientists hope to have a

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vaccine ready to enter human
trial by early summer Inovio
says if the initial human
trials are a success, larger
trials would follow, ideally
in an outbreak setting in...

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Coronavirus vaccine:
Scientists race to develop
prevention ...

Globally, the initiative is supported by scientists who are involved in the race of coronavirus vaccine development across the

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world's top institutes like
Imperial College London,
Harvard Medical School,
University of Sao Paulo,
University of Barcelona and
many others.. In India, over
22 scientists have joined
Team Halo from renowned

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Scientists such as Institute
of Medical Sciences and Sum
Cells To Combat Killer
Viruses

Over 100 scientists join
hands with UN to bust
Covid-19 ...

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The Vaccine Race. How
scientists used human cells
to combat killer viruses. By
Meredith Wadman. Medical
Ethics, Immunology, Popular
Science. Non-Fiction.
Published by
Transworld/Doubleday.

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Shortlist 2018. The epic and controversial story of the major scientific breakthrough that led to the creation of some of the world's most important vaccines. Until the late 1960s, tens of thousands of

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children suffered crippling
birth defects if their
mothers had been exposed to
rubella, popularly known ...

The Vaccine Race | Wellcome
Book Prize

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Just as the novel Human
coronavirus was gaining a
Cells To Combat Killer
Viruses
foothold in the United
States in mid-March, Pfizer
Inc <PFE.N> Chief Executive
Albert Bourla called on his
top vaccine scientists and
laid out a clear ...

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Viruses
How two companies sprinted
ahead in extraordinary race
for ...

Just as the novel
coronavirus was gaining a
foothold in the United

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States in mid-March, Pfizer
Inc Chief Executive Albert
Bourla called on his top
vaccine scientists and laid
out a clear mission ...

INSIGHT- How two companies

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Scientists Used Human
Cells To Combat Killer
Viruses

sprinted ahead in
extraordinary . . .

UK scientists sound the
alarm about Covid-19
mutation in Danish mink
which 'could make vaccine
more difficult' In the
middle of the night, the

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Government announced that it
was scrapping the travel...

Viruses

"A real jewel of science
history...brims with
suspense and now-forgotten

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catastrophe and
intrigue...Wadman's smooth
prose calmly spins a
surpassingly complicated
story into a real tour de
force."—The New York Times
"Riveting . . . [The Vaccine
Race] invites comparison

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with Rebecca Skloot's 2007

The Immortal Life of
Henrietta Lacks.”—Nature The
epic and controversial story
of a major breakthrough in
cell biology that led to the
conquest of rubella and
other devastating diseases.

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Until the late 1960s, tens of thousands of American children suffered crippling birth defects if their mothers had been exposed to rubella, popularly known as German measles, while pregnant; there was no

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vaccinists and little human
understanding of how the
disease devastated fetuses.

In June 1962, a young
biologist in Philadelphia,
using tissue extracted from
an aborted fetus from
Sweden, produced safe, clean

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Scientists Used Human
Cells To Combat Killer
Viruses

cells that allowed the
creation of vaccines against
rubella and other common
childhood diseases. Two
years later, in the midst of
a devastating German measles
epidemic, his colleague
developed the vaccine that

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Scientists used human
would one day wipe out
homegrown rubella. The
rubella vaccine and others
made with those fetal cells
have protected more than 150
million people in the United
States, the vast majority of
them preschoolers. The new

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cells and the method of making them also led to vaccines that have protected billions of people around the world from polio, rabies, chicken pox, measles, hepatitis A, shingles and adenovirus.

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Meridith Wadman's masterful account recovers not only the science of this urgent race, but also the political roadblocks that nearly stopped the scientists. She describes the terrible dilemmas of pregnant women

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Scientists Used Human
Cells To Combat Killer
Viruses

exposed to German measles
and recounts testing on
infants, prisoners, orphans,
and the intellectually
disabled, which was common
in the era. These events
take place at the dawn of
the battle over using human

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Scientists Used Human
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Viruses

fetal tissue in research,
during the arrival of big
commerce in campus labs, and
as huge changes take place
in the laws and practices
governing who “owns”
research cells and the
profits made from biological

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inventions. It is also the story of yet one more unrecognized woman whose cells have been used to save countless lives. With another frightening virus--measles--on the rise today, no medical story

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Scientists used human drama,
impact, or urgency than The
Vaccine Race.

"The rubella vaccine and
others made with ... fetal
cells have protected more
than 150 million people in

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the United States, the vast majority of them preschoolers. The new cells and the method of making them also led to vaccines that have protected billions of people around the world from polio, rabies, chicken

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Viruses

pox, measles, hepatitis A,
shingles, and adenovirus.
Meredith Wadman's [book]
covers not only the science
of this [advancement], but
also the political
roadblocks that nearly
stopped the

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scientists"—Provided by
publisher.

Viruses

**SHORTLISTED FOR THE
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** A GUARDIAN SCIENCE BOOK
OF THE YEAR 2017 **

'Riveting ... invites

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Viruses

comparison to Rebecca
Skloot's 'The Immortal Life
of Henrietta Lacks' Nature
The epic and controversial
story of a major
breakthrough in cell biology
that led to the conquest of
rubella and other

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devastating diseases. Until the late 1960s, tens of thousands of children suffered crippling birth defects if their mothers had been exposed to rubella, popularly known as German measles, while pregnant.

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There was no vaccine and little understanding of how the disease devastated foetuses. In June 1962, a young biologist in Philadelphia produced the first safe, clean cells that made possible the mass-

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production of vaccines
against many common
childhood diseases. Two
years later, in the midst of
a German measles epidemic,
his colleague developed the
vaccine that would one day
effectively wipe out rubella

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for good. This vaccine – and others made with those cells – have since protected hundreds of millions of people worldwide, the vast majority of them preschool children. Meredith Wadman's account of this great leap

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forward in medicine is a
fascinating and revelatory
read.

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'Riveting... invites
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Skloot's The Immortal Life
of Henrietta Lacks' Nature
The epic and controversial
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Cells To Combat Killer
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popularly known as German

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There was no vaccine and
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foetuses. In June 1962, a
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effectively wipe out rubella for good. This vaccine - and others made with those cells - have since protected hundreds of millions of people worldwide, the vast majority of them preschool children. Meredith Wadman's

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Scientists of this great leap forward in medicine is a fascinating and revelatory read.

The full inside story of the high-stakes, global race for the lifesaving vaccine to

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end the pandemic Heroic
science. Chaotic politics.
Billionaire entrepreneurs.
Award-winning journalist
Brendan Borrell brings the
defining story of our times
alive through compulsively
readable, first-time

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Scientists Used Human
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reporting on the players
leading the fight against a
vicious virus. The First
Shots, soon to be the
subject of an HBO limited
series with superstar
director and producer Adam
McKay (Succession, Vice, The

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Big Short), draws on exclusive, high-level access to weave together the intense vaccine-race conflicts among hard-driving, heroic scientists and the epic rivalries among Washington power players

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that shaped 18 months of
fear, resolve, and triumph.
From infectious disease
expert Michael Callahan, an
American doctor secretly on
the ground in Wuhan in
January 2020 to gauge the
terrifying ravages of

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Disease X; to Robert (Dr. Bob) Kadlec, one of Operation Warp Speed's architects, whose audacious plans for the American people run straight into the buzz saw of the Trump White House factions; to Stéphane

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Scientists of upstart Moderna
Therapeutics going toe-to-
toe with pharma behemoth
Pfizer, The First Shots lays
bare, in a way we have not
seen, the full stunning
story behind the medical
science “moon shot” of our

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Cells To Combat Killer Viruses

The dramatic story of the married scientists who founded BioNTech and developed the first vaccine against the COVID-19 pandemic. Nobody thought it

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was possible. In mid-January 2020, Ugur Sahin told Özlem Türeci, his wife and decades-long research partner, that a vaccine against what would soon be known as COVID-19 could be developed and safely injected into the

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arms of millions before the
end of the year. His
confidence was built upon
almost thirty years of
research. While working to
revolutionize the way that
cancerous tumors are
treated, the couple had

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Scientists used human and overlooked molecule called messenger RNA; they believed it could be harnessed to turn the human body into its own pharmacy. As the founders of BioNTech, they faced widespread skepticism

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from the scientific human
community at first; but by
the time Sars-Cov-2 was
discovered in Wuhan,
BioNTech was prepared to
deploy cutting edge
technology and create the
world's first approved

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inoculation for the
coronavirus. The Vaccine
draws back the curtain on
one of the most important
medical breakthroughs of our
age; it will reveal how
Doctors Sahin and Türeci
were able to develop twenty

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vaccine candidates within weeks, convince Big Pharma to support their ambitious project, navigate political interference from the Trump administration and the European Union, and manage to provide more than two

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Scientists Used the
Pfizer/BioNTech vaccine to
countries around the world
in record time. Written by
Joe Miller—the Financial
Times' Frankfurt
correspondent who covered
BioNTech's COVID-19 project

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in real time—with Human
Contributions from Sahin and
Türeci, as well as
Interviews with more than 50
scientists, politicians,
public health officials, and
BioNTech staff, the book
covers key events throughout

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the extraordinary year, as well as exploring the scientific, economic, and personal background of each medical innovation. Crafted to be both completely accessible to the average reader and filled with

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details that will fascinate
seasoned microbiologists,
The Vaccine explains the
science behind the

breakthrough, at a time when
public confidence in vaccine
safety and efficacy is
crucial to bringing an end

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to this pandemic.

Scientists Used Human Cells To Combat Killer Viruses

A smart and compelling examination of the science of immunity, the public policy implications of vaccine denial, and the real-world outcomes of failing to

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vaccinate. If you have a child in school, you may have heard stories of long-dormant diseases suddenly reappearing—cases of measles, mumps, rubella, and whooping cough cropping up everywhere from elementary

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Scientists to Ivy League
universities because a
select group of parents
refuse to vaccinate their
children. Between Hope and
Fear tells the remarkable
story of vaccine-preventable
infectious diseases and

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their social and political implications. While detailing the history of vaccine invention, Kinch reveals the ominous reality that our victories against vaccine-preventable diseases are not permanent—and could

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easily be undone. In the
tradition of John Barry's
The Great Influenza and
Siddhartha Mukherjee's The
Emperor of All Maladies,
Between Hope and Fear
relates the remarkable
intersection of science,

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technology and disease that
has helped eradicate many of
the deadliest plagues known
to man.

The bestselling author of
Leonardo da Vinci and Steve
Jobs returns with a gripping

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Scientists of how Nobel Prize
winner Jennifer Doudna and
her colleagues launched a
revolution that will allow
us to cure diseases, fend
off viruses, and have
healthier babies. When
Jennifer Doudna was in sixth

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grade, she came home one day to find that her dad had left a paperback titled *The Double Helix* on her bed. She put it aside, thinking it was one of those detective tales she loved. When she read it on a rainy Saturday,

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she discovered she was right, in a way. As she sped through the pages, she became enthralled by the intense drama behind the competition to discover the code of life. Even though her high school counselor

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told her girls didn't become
scientists, she decided she
would. Driven by a passion
to understand how nature
works and to turn
discoveries into inventions,
she would help to make what
the book's author, James

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Watson, told her was the most important biological advance since his co-discovery of the structure of DNA. She and her collaborators turned a curiosity of nature into an invention that will

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transforms the human race: an easy-to-use tool that can edit DNA. Known as CRISPR, it opened a brave new world of medical miracles and moral questions. The development of CRISPR and the race to create vaccines

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for coronavirus will hasten
our transition to the next
great innovation revolution.
The past half-century has
been a digital age, based on
the microchip, computer, and
internet. Now we are
entering a life-science

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revolutionists. Children who study digital coding will be joined by those who study genetic code. Should we use our new evolution-hacking powers to make us less susceptible to viruses? What a wonderful boon that would

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be! And what about
preventing depression?

Hmmm...Should we allow

parents, if they can afford
it, to enhance the height or
muscles or IQ of their kids?

After helping to discover
CRISPR, Doudna became a

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Scientists wrestling with these moral issues and, with her collaborator Emmanuelle Charpentier, won the Nobel Prize in 2020. Her story is a thrilling detective tale that involves the most profound wonders of nature,

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from the origins of life to
the future of our species.

In response to the
coronavirus disease 2019
(COVID-19) pandemic and the
societal disruption it has
brought, national

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governments and the international community have invested billions of dollars and immense amounts of human resources to develop a safe and effective vaccine in an unprecedented time frame. Vaccination against this

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novel coronavirus, severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), offers the possibility of significantly reducing severe morbidity and mortality and transmission when deployed alongside

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other public health
strategies and improved
therapies. Health equity is
intertwined with the impact
of COVID-19 and there are
certain populations that are
at increased risk of severe
illness or death from

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COVID-19. In the United States and worldwide, the pandemic is having a disproportionate impact on people who are already disadvantaged by virtue of their race and ethnicity, age, health status,

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residence, occupation,
socioeconomic condition, or
other contributing factors.
Framework for Equitable
Allocation of COVID-19
Vaccine offers an
overarching framework for
vaccine allocation to assist

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Scientists Used in the
domestic and global health
communities. Built on widely
accepted foundational
principles and recognizing
the distinctive
characteristics of COVID-19,
this report's

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recommendations address the
commitments needed to
implement equitable
allocation policies for
COVID-19 vaccine.

Geoff Manaugh and Nicola
Twilley have been

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researching quarantine since long before the COVID-19 pandemic. With Until Proven Safe, they bring us a book as compelling as it is definitive, not only urgent reading for social-distanced times but also an up-to-the-

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minute investigation of the
interplay of
forces---biological,
political,
technological--that shape
our modern world. Quarantine
is our most powerful
response to uncertainty: it

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means waiting to see if something hidden inside us will be revealed. It is also one of our most dangerous, operating through an assumption of guilt. In quarantine, we are considered infectious until

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proven safe. Until Proven
Safe tracks the history and
future of quarantine around
the globe, chasing the story
of emergency isolation
through time and space—from
the crumbling lazarettos of
the Mediterranean, built to

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contain the Black Death, to
an experimental Ebola unit
in London, and from the
hallways of the CDC to
closed-door simulations
where pharmaceutical execs
and epidemiologists prepare
for the outbreak of a novel

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coronavirus. But the story
of quarantine ranges far
beyond the history of
medical isolation. In *Until
Proven Safe*, the authors
tour a nuclear-waste
isolation facility beneath
the New Mexican desert, see

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Scientists stricken with a
disease that threatens the
world's wheat supply, and
meet NASA's Planetary
Protection Officer, tasked
with saving Earth from
extraterrestrial infections.
They also introduce us to

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the corporate tech giants
hoping to revolutionize
quarantine through
surveillance and algorithmic
prediction. We live in a
disorienting historical
moment that can feel both
unprecedented and

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inevitable; Until Proven
Safe helps us make sense of
our new reality through a
thrillingly reported,
thought-provoking
exploration of the meaning
of freedom, governance, and
mutual responsibility.

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