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copy for your sons, brothers, dads,
uncles and nephews, too.' - indy100
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shaped and were erased from our
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influential women who have refused

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over hundreds of years to accept the
hand they've been dealt and, as a
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The Leaders weaves together 48*
unforgettable portraits of the true
pioneers and leaders who made huge
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history, including: Grace O'Malley, the 16th century Irish pirate queen Sylvia Rivera, who spearheaded the modern transgender rights movement Agent 355, the unknown rebel spy who played a pivotal role in the American Revolution Noor Inayat Khan, who went undercover to spy for the French

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Resistance and became Nazi enemy
no. 1 Amina of Zazzau, the formidable
ancient Muslim warrior queen of
Northern Nigeria Chapters including
Rebels; Warriors; Rulers; Activists and
Reformers shine a spotlight on the
rebellious women who defied the
odds, and the opposition, to change

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the world around them. *The number
of Nobel-prize-winning women.

Reveals all the politics & personal
agendas that dictate who has been
awarded the Prize, & just as
importantly, who has not. Published in
conjunction with the 100th
anniversary of the Prizes.

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Brief biographies of women involved
in science throughout the ages.

Chronicles the achievements and
discoveries of women scientists.

A compilation of sixty biographical
sketches of influential female
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state of the modern female scientist

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and the underrepresentation of
women at the higher levels of
academia.

Women Scientists

Forgotten Women: The Leaders

Gertrude Elion

Advice for Young Scientists

10 Women Who Changed Science and

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the World

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A Revolutionary Approach to Living
Younger, Healthier, Longer

Nobelpreis / Frau.

*Since 1901 there have been over three
hundred recipients of the Nobel Prize
in the sciences. Only ten of them --*

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about 3 percent -- have been women.

*Why? In this updated version of Nobel
Prize Women in Science, Sharon
Bertsch McGrayne explores the
reasons for this astonishing disparity
by examining the lives and
achievements of fifteen women*

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scientists who either won a Nobel Prize or played a crucial role in a Nobel Prize - winning project. The book reveals the relentless discrimination these women faced both as students and as researchers. Their success was due to the fact that

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they were passionately in love with science. The book begins with Marie Curie, the first woman to win the Nobel Prize in physics. Readers are then introduced to Christiane Nusslein-Volhard, Emmy Noether, Lise Meitner, Barbara McClintock,

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Chien-Shiung Wu, and Rosalind Franklin. These and other remarkable women portrayed here struggled against gender discrimination, raised families, and became political and religious leaders. They were mountain climbers, musicians, seamstresses,

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and gourmet cooks. Above all, they were strong, joyful women in love with discovery. Nobel Prize Women in Science is a startling and revealing look into the history of science and the critical and inspiring role that women have played in the drama of

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scientific progress.

*"A collection of profiles of some of
history's most fascinating female
scientists."--*

*A biography of the woman who used
her understanding of chemistry to
help develop medicines and who*

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devoted her life to helping others.

Carbon Queen

An Interactive Journal and Science

Notebook with Quotes and

Biographies of Women Who Won

The Lady Laureates

Nobel Prizes and Nature's Surprises

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*Trailblazers: 33 Women in Science
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Who Changed the World*

In 1989 Michael Bishop and Harold Varmus were awarded the Nobel Prize for their discovery that normal genes under certain conditions can cause cancer. In

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this book, Bishop tells us how he and Varmus made their momentous discovery. More than a lively account of the making of a brilliant scientist, How to Win the Nobel Prize is also a broader narrative combining two major

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and intertwined strands of medical history: the long and ongoing struggles to control infectious diseases and to find and attack the causes of cancer. Alongside his own story, that of a youthful humanist evolving into an

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ambivalent medical student, an accidental microbiologist, and finally a world-class researcher, Bishop gives us a fast-paced and engrossing tale of the microbe hunters. It is a narrative enlivened by vivid anecdotes about our

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deadliest microbial enemies--the
Black Death, cholera, syphilis,
tuberculosis, malaria, smallpox,
HIV--and by biographical sketches
of the scientists who led the fight
against these scourges. Bishop
then provides an introduction for

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nonscientists to the molecular
underpinnings of cancer and
concludes with an analysis of
many of today's most important
science-related
controversies--ranging from stem
cell research to the attack on

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evolution to scientific misconduct.

How to Win the Nobel Prize

affords us the pleasure of hearing
about science from a brilliant
practitioner who is a humanist at
heart. Bishop's perspective will be
valued by anyone interested in

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biomedical research and in the
past, present, and future of the
battle against cancer. Table of

Contents: List of Illustrations

Preface 1. The Phone Call 2.

Accidental Scientist 3. People and

Pestilence 4. Opening the Black

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Box of Cancer 5. Paradoxical
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Strife Notes Credits Index

Reviews of this book: Despite his
McCrayne
book's encouraging title,
Bishop--who won a Nobel Prize in
Physiology and Medicine in
1989--cautions that "I have not

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written an instruction manual for pursuit of the prize." Instead, he has written an amiable reflection on the experience of being a Nobelist, intertwined with some history and anecdotes about the award, and balanced by a wide-

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ranging review of his own career as an "accidental scientist"...Along the way, Bishop reflects on the history of our knowledge of microbes, cancer, the politics of funding research and present-day disenchantment with science. His

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McCrayne

main purpose in writing this book,
Bishop says, is to show that

"scientists are supremely
human"--which he does with grace
and charm. --Publishers Weekly
Reviews of this book: How to Win
the Nobel Prize is typical Bishop:

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modest, funny, insightful and offering an extremely clear and brief explanation of the basic scientific achievement that won the 1989 Nobel Prize in physiology or medicine for himself and longtime colleague, Harold

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McCrayne
Varmus, now president of the
Memorial Sloan-Kettering Cancer
Center. --David Perlman, San
Francisco Chronicle Reviews of
this book: In these pages Bishop
reveals himself as a good writer
blessed with enviable clarity,

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McGrayne
someone sensible and levelheaded
who likes people and is enamored
of his science. --John Tyler
Bonner, New York Times Book
Review Reviews of this book: This
is a treasure...Above all, How to
Win the Nobel Prize is a civilised

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book and a lavishly rewarding one. --Roy Herbert, New Scientist

Reviews of this book: At its heart this analysis of science and the scientific world is a jewel. How to Win the Nobel Prize is an inspirational book, full of careful

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analysis and judgement. --John
Oxford, Times Higher Education
Supplement Reviews of this book:
Bishop is a gifted communicator
and teacher, and he sets about his
task of educating scientists and
the public by describing his career

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in science and science politics...In
the end, Bishop's book provides a
road map for scientists and the
public to build a robust scientific
community that serves our society
well. --Andreas Trumpp and
Daniel Kalman, Nature Cell

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Biology J. Michael Bishop has written his book 'to show that scientists are supremely human.' The book is also a lucid explanation of how science has been harnessed to fight the human afflictions of cancer and

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infectious disease. And the story ends with a wide-ranging overview of today's challenges to the scientific enterprise. Overall, a must-read for all those interested in science and scientists--even those with absolutely no interest

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in winning a Nobel Prize! --Bruce Alberts, President, National Academy of Sciences J. Michael Bishop is that rare scientist who is widely read in literature and poetry. Most importantly, he remembers what he reads and

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thinks deeply about it, as well as about all else in his rich life. The Nobel Prize he won and richly deserved, his political activism, his understanding of cancer and microbiology, his devotion to the practice of science--all these

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provide fodder for his writerly
craft. Quite a wonderful book!

--David Baltimore, Nobel Laureate
and President, California Institute
of Technology

Profiles the lives of fifteen women
who have won the Nobel Prize in

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Science, including Marie Curie,
Gertrude Elion, Rosalind Franklin,
and Lise Meitner. Original. 20,000
first printing.

From the first woman Nobel
Peace Prize recipient, Bertha von
Suttner (1905), to the latest and

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youngest female Nobel laureate, Malala Yousafzai (2014), this book in its second edition provides a detailed look at the lives and accomplishments of each of these sixteen Prize winners. They did not expect recognition or fame for

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their work--economist Emily
Greene Balch (1946) was
surprised to learn that anyone
knew about her. But they did not
work in isolation: all met with
discouragement, derision, threats
or--in Yousafazi's case--attempted

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murder and exile. A history of the Prize and a biographical sketch of Alfred Nobel are included.

From the ancient world to the present women have been critical to the progress of science, yet their importance is overlooked,

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their stories lost, distorted, or actively suppressed. Forces of Nature sets the record straight and charts the fascinating history of women's discoveries in science. In the ancient and medieval world, women served as royal physicians

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and nurses, taught mathematics, studied the stars, and practiced midwifery. As natural philosophers, physicists, anatomists, and botanists, they were central to the great intellectual flourishing of the

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Scientific Revolution and the Enlightenment. More recently women have been crucially involved in the Manhattan Project, pioneering space missions and much more. Despite their record of illustrious achievements, even

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today very few women win Nobel Prizes in science. In this thoroughly researched, authoritative work, you will discover how women have navigated a male-dominated scientific culture - showing

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themselves to be pioneers and trailblazers, often without any recognition at all. Included in the book are the stories of: Hypatia of Alexandria, one of the earliest recorded female mathematicians Maria Cunitz who corrected

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errors in Kepler's work Emmy
Noether who discovered
fundamental laws of physics Vera
Rubin one of the most influential
astronomers of the twentieth
century Jocelyn Bell Burnell who
helped discover pulsars

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50 Fearless Pioneers Who
Changed the World
The Beginner's Guide to Winning
the Nobel Prize
Jennifer Doudna, Gene Editing,
and the Future of the Human
Race

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The Women who Changed Science
Their Lives, Struggles, and
Momentous Discoveries
The Madame Curie Complex
In 1895 Alfred Nobel rewrote his
will and left his fortune made in
dynamite and munitions to

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generations of thinkers. Since 1901
women have been honoured with
Nobel Prizes for their scientific
research twenty times, including
Marie Curie twice. Spanning more
than a century and ranging across
the world, this inventive story

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collection is inspired by these
women whose work has altered
history and saved millions of lives.

From a transformative visit to the
Grand Canyon to a baby washing
up on a Queensland beach, a
climate protest during a Paris

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heatwave to Stockholm on the eve
of the 1977 Nobel Prize ceremony,
Ordinary Matter explores the nature
of ingenuity and discovery,
motherhood and sacrifice, illness
and legacy. Sometimes the
extraordinary pivots on the

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ordinary.

Discoveries Sharon Bertsch
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This book is a companion to the
IYC-2011 celebration. The eleven
chapters are organized into three
sections: Section 1: Marie Curie's
Impact on Science and Society,
Section 2: Women Chemists in the

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Past Two Centuries, and Section 3:
Discoveries, Sharon Bertsch
Mcgrayne
Policy Implications. The authors
invited to contribute to this book
were asked to orient their chapter
around a particular aspect of Marie
Curie's life such as the ethical
aspects of her research, women's

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role in research or her influence on the image of chemists. Our hope is that this book will positively influence young women's minds and decisions they make in learning of chemistry/science like Marie Curie's biography. But we do hope

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this book opens an avenue for young women to explore the possibility of being a scientist, or at least to appreciate chemistry as a human enterprise that has its merit in contributing to sustainability in our world. Also we hope that both

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men and women will realize that women are fully competent and capable of conducting creative and fascinating scientific research.

History has seen many incredible men and women make their mark on the field of science. One woman

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who will forever be remembered for
her groundbreaking work is Marie
Curie. She was one of the first
people to explore radioactivity, and
her contributions led her to become
the first woman to win a Nobel
Prize. This book explores Curie's

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life, accomplishments, and legacy.
A Best Book of 2021 by Bloomberg
BusinessWeek, Time, and The
Washington Post The bestselling
author of Leonardo da Vinci and
Steve Jobs returns with a
"compelling" (The Washington

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Post) account of how Nobel Prize
Discoveries Sharon Bertsch
Murrayne
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 grade, she came home one

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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, she discovered she was right, in a way.

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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 told her girls didn't become scientists, she decided she

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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 Watson, told her was the most important biological advance since his

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codiscovery of the structure of DNA. She and her collaborators turned a curiosity of nature into an invention that will transform the human race: an easy-to-use tool that can edit DNA. Known as CRISPR, it opened a brave new

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world of medical miracles and moral questions. The development of CRISPR and the race to create vaccines for coronavirus will hasten our transition to the next great innovation revolution. The past half-century has been a digital age,

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based on the microchip, computer,
and internet. Now we are entering a
life-science revolution. Children
who study digital coding will be
joined by those who study genetic
code. Should we use our new
evolution-hacking powers to make

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us less susceptible to viruses?

What a wonderful boon that would 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

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discover CRISPR, Doudna became
a leader in wrestling with these
moral issues and, with her
collaborator Emmanuelle
Charpentier, won the Nobel Prize in
2020. Her story is an "enthralling
detective story" (Oprah Daily) that

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involves the most profound
wonders of nature, from the origins
of life to the future of our species.
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Reflections, Challenges, and
Breaking Boundaries
Their Lives, Struggles, and

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Discoveries: Second
Edition
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Ordinary Matter
The Remarkable Life of
Nanoscience Pioneer Mildred
Dresselhaus
Nobel Prize Laureates

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A "beautifully written" (Kirkus Reviews, starred review) memoir-manifesto from the first female director of the National Science Foundation about the entrenched sexism in science, the elaborate detours women have take to

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bypass the problem, and how to fix the system. If you think sexism thrives only on Wall Street or Hollywood, you haven't visited a lab, a science department, a research foundation, or a biotech firm.

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Rita Colwell is one of the top
scientists in America: the
groundbreaking microbiologist
who discovered how cholera
survives between epidemics and
the former head of the National
Science Foundation. But when

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she first applied for a graduate fellowship in bacteriology, she was told, "We don't waste fellowships on women." A lack of support from some male superiors would lead her to change her area of study six

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times before completing her PhD. A Lab of One's Own is an "engaging" (Booklist) book that documents all Colwell has seen and heard over her six decades in science, from sexual harassment in the lab to obscure

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systems blocking women from
leading professional

organizations or publishing their
work. Along the way, she
encounters other women
pushing back against the status
quo, including a group at MIT

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who revolt when they discover
their labs are a fraction of the
size of their male colleagues.

Resistance gave female
scientists special gifts: forced to
change specialties so many
times, they came to see things in

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a more interdisciplinary way,
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which turned out to be key to
making new discoveries in the
20th and 21st centuries. Colwell
would also witness the advances
that could be made when men
and women worked

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together—often under her
direction, such as when she
headed a team that helped to
uncover the source of anthrax
used in the 2001 letter attacks. A
Lab of One's Own is “an
inspiring read for women

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embarking on a career or
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experiencing career challenges”
(Library Journal, starred review)
that shares the sheer joy a
scientist feels when moving
toward a breakthrough, and the
thrill of uncovering a whole new

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generation of female pioneers. It is the science book for the #MeToo era, offering an astute diagnosis of how to fix the problem of sexism in science—and a celebration of women pushing back.

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A prismatic look at the meeting of Marie Curie and Albert Einstein and the impact these two pillars of science had on the world of physics, which was in turmoil. In 1911, some of the greatest minds in science

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convened at the First Solvay
Conference in Physics, a
meeting like no other. Almost

half of the attendees had won or
would go on to win the Nobel
Prize. Over the course of those
few days, these minds began to

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realize that classical physics was about to give way to quantum theory, a seismic shift in our history and how we understand not just our world, but the universe. At the center of this meeting were Marie Curie and a

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young Albert Einstein. In the years preceding, Curie had faced the death of her husband and soul mate, Pierre. She was on the cusp of being awarded her second Nobel Prize, but scandal erupted all around her when the

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French press revealed that she
was having an affair with a fellow
scientist, Paul Langevin. The
subject of vicious misogynist
and xenophobic attacks in the
French press, Curie found
herself in a storm that threatened

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her scientific legacy. Albert Einstein proved an supporter in her travails. They had an instant connection at Solvay. He was young and already showing flourishes of his enormous genius. Curie had been

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responsible for one of the
greatest discoveries in modern
science (radioactivity) but still
faced resistance and scorn.

Einstein recognized this grave
injustice, and their mutual
admiration and respect, borne

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out of this, their first meeting,
would go on to serve them in
their paths forward to making
history. Curie and Einstein come
alive as the complex people they
were in the pages of The Soul of
Genius. Utilizing never before

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seen correspondance and notes,
Jeffrey Orens reveals the human
side of these brilliant scientists,
one who pushed boundaries and
demanded equality in a man's
world, no matter the cost, and
the other, who was destined to

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become synonymous with
genius.

The historian and author of
Lillian Gilbreth examines the
"Great Man" myth of science
with profiles of women scientists
from Marie Curie to Jane

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Goodall. Why is science still considered to be predominantly male profession? In *The Madame Curie Complex*, Julie Des Jardin dismantles the myth of the lone male genius, reframing the history of science with

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revelations about women's
substantial contributions to the

field. She explores the lives of
some of the most famous female
scientists, including Jane
Goodall, the eminent
primatologist; Rosalind Franklin,

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the chemist whose work anticipated the discovery of DNA's structure; Rosalyn Yalow, the Nobel Prize-winning physicist; and, of course, Marie Curie, the Nobel Prize-winning pioneer whose towering,

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mythical status has both
empowered and stigmatized
future generations of women
considering a life in science.
With lively anecdotes and vivid
detail, The Madame Curie
Complex reveals how women

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scientists have changed the
course of science—and the role of
the scientist—throughout the
twentieth century. They often
asked different questions, used
different methods, and came up
with different, groundbreaking

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explanations for phenomena in
the natural world.

A Forbes, Physics Today,
Science News, and Science
Friday Best Science Book Of
2018 The inside story of a quest
to unlock one of cosmology's

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biggest mysteries, derailed by
the lure of the Nobel Prize. What
would it have been like to be an
eyewitness to the Big Bang? In
2014, astronomers wielding
BICEP2, the most powerful
cosmology telescope ever made,

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revealed that they'd glimpsed
the spark that ignited the Big
Bang. Millions around the world
tuned in to the announcement
broadcast live from Harvard
University, immediately igniting
rumors of an imminent Nobel

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Prize. But had these
cosmologists truly read the
cosmic prologue or, swept up in
Nobel dreams, had they been
deceived by a galactic mirage? In
Losing the Nobel Prize,
cosmologist and inventor of the

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BICEP (Background Imaging of Cosmic Extragalactic Polarization) experiment Brian Keating tells the inside story of BICEP2's mesmerizing discovery and the scientific drama that ensued. In an

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adventure story that spans the
globe from Rhode Island to the
South Pole, from California to
Chile, Keating takes us on a
personal journey of revelation
and discovery, bringing to vivid
life the highly competitive, take-

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no-prisoners, publish-or-perish
world of modern science. Along
the way, he provocatively argues
that the Nobel Prize, instead of
advancing scientific progress,
may actually hamper it,
encouraging speed and greed

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while punishing collaboration
and bold innovation. In a

thoughtful reappraisal of the
wishes of Alfred Nobel, Keating
offers practical solutions for
reforming the prize, providing a
vision of a scientific future in

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which cosmologists may, finally,
be able to see all the way back to
the very beginning.

Women who Have Won the Nobel
Prize

Behind the Nobel Prize in
Science

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50 Fearless Pioneers who
Changed the World
Science and Me
Nobel Prizes and Life Sciences
The Telomere Effect
Discover some of the
inspirational men and women

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who have received Nobel
Prizes in Physics, Chemistry
and Medicine from 1901 to the
present day, among them
Marie Curie, Hermann Joseph
Muller, and Donna Strickland.
A glimpse into the often

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surprising lives and
sometimes accidental
discoveries of a group of
extraordinary scientists, this
fascinating collection shows
that the science you learn at
school really can change the

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world.

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Draws on diaries, letters, and
family interviews to discuss
the lesser-known
achievements and scientific
insights of the Nobel Prize-
winning scientist and

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producer of radium,
documenting how she was
compromised by the
prejudices of a male-
dominated society in spite of
her accomplishments. 30,000
first printing.

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Since 1901 there have been
over three hundred recipients

of the Nobel Prize in the

sciences. Only ten of

themâ€"about 3

percentâ€"have been women.

Why? In this updated version

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McGrayne explores the reasons for this astonishing disparity by examining the lives and achievements of fifteen women scientists who

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either won a Nobel Prize or
played a crucial role in a Nobel
Prize - winning project. The
book reveals the relentless
discrimination these women
faced both as students and as
researchers. Their success

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was due to the fact that they
were passionately in love with
science. The book begins with
Marie Curie, the first woman to
win the Nobel Prize in physics.
Readers are then introduced
to Christiane Nusslein-

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Volhard, Emmy Noether, Lise
Meitner, Barbara McClintock,
Chien-Shiung Wu, and
Rosalind Franklin. These and
other remarkable women
portrayed here struggled
against gender discrimination,

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raised families, and became
political and religious leaders.
They were mountain climbers,
musicians, seamstresses, and
gourmet cooks. Above all,
they were strong, joyful
women in love with discovery.

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is a startling and revealing look into the history of science and the critical and inspiring role that women have played in the drama of scientific progress.

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A charmingly illustrated gift book profiling 50 famous women scientists from the ancient Greek mathematician, philosopher, and astronomer, Hypatia, to Marie Curie, a physicist and chemist. A

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recent U.S. Department of
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Education survey found that
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high school girls take the
same number of math and
science classes as boys and
earn slightly higher grades,
but only 15 percent of U.S.

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collegiate women major in science, technology, engineering, and mathematics (STEM) fields. Encouraging young women and girls to pursue STEM career tracks has never been more

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important. Women in Science
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highlights notable women's
contributions to various
scientific fields and inspires
readers both young and old. A
fascinating collection full of
striking, singular art, the book

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features 50 profiles and
illustrated portraits of women
in STEM from the ancient to
the modern world, and also
contains infographics about
interesting and relevant topics
such as lab equipment and

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rates of women currently
working in STEM fields.

Profiles feature well-known
figures, such as biologist
Rachel Carson and
primatologist Jane Goodall, as
well as lesser-known pioneers,

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such as Dr. Patricia Bath, the first African-American woman to receive a medical patent, and Barbara McClintock, a Nobel Prize-winning cytogeneticist.

A Lab of One's Own

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Losing the Nobel Prize: A
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The Soul of Genius
Radio-active Substances
Women in Science

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Nobel Prize Winner in
Physiology and Medicine

The Nobel Prizes in natural sciences have achieved the reputation of being the ultimate accolade for scientific achievements.

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This book gives a unique insight into the selection of Nobel Prize recipients, in particular the life sciences. The evolving mechanisms of selection of prize recipients are illustrated by reference to

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archives, which have
remained secret for 1)
years. Many of the prizes
subjected to particular
evaluation concern awards
given for discoveries in the
field of infectious diseases
and the interconnected field

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*of genetics. The book
illustrates the individuals
and environments that are
conducive to scientific
creativity. Nowhere is this
enigmatic activity'-- the
mime mover in advancing the
human condition highlighted*

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Magny as lucidly as by
identification individuals
worthy of Nobel Prizes.

--Book Jacket.

Nobel Prize Women in
Science Their Lives,
Struggles, and Momentous
Discoveries Citadel Press

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NEW YORK TIMES BESTSELLER

The revolutionary book

coauthored by the Nobel

Prize winner who discovered

telomerase and telomeres'

role in the aging process

and the health psychologist

who has done original

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*research into how specific
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Mayrino
lifestyle and psychological
habits can protect
telomeres, slowing disease
and improving life. Have you
wondered why some sixty-year-
olds look and feel like
forty-year-olds and why some*

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*forty-year-olds look and
feel like sixty-year-olds?*

*While many factors
contribute to aging and
illness, Dr. Elizabeth
Blackburn discovered a
biological indicator called
telomerase, the enzyme that*

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*replenishes telomeres, which
protect our genetic*

*heritage. Dr. Blackburn and
Dr. Elissa Epel's research
shows that the length and
health of one's telomeres
are a biological
underpinning of the long-*

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*hypothesized mind-body
connection. They and other
scientists have found that
changes we can make to our
daily habits can protect our
telomeres and increase our
health spans (the number of
years we remain healthy,*

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active, and disease-free).

THE TELOMERE EFFECT reveals

how Blackburn and Epel's

findings, together with

research from colleagues

around the world,

cumulatively show that sleep

quality, exercise, aspects

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*of diet, and even certain
chemicals profoundly affect
our telomeres, and that
chronic stress, negative
thoughts, strained
relationships, and even the
wrong neighborhoods can eat
away at them. Drawing from*

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*this scientific body of
knowledge, they share lists
of foods and suggest amounts
and types of exercise that
are healthy for our
telomeres, mind tricks you
can use to protect yourself
from stress, and information*

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*about how to protect your
children against developing
shorter telomeres, from
pregnancy through
adolescence. And they
describe how we can improve
our health spans at the
community level, with*

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neighborhoods characterized
by trust, green spaces, and
safe streets. **THE TELOMERE
EFFECT** will make you
reassess how you live your
life on a day-to-day basis.
It is the first book to
explain how we age at a

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cellular level and how we
can make simple changes to
keep our chromosomes and
cells healthy, allowing us
to stay disease-free longer
and live more vital and
meaningful lives.

Each year the Nobel Prizes

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*in the natural sciences
reveal amazing discoveries.
New milestones in the
relentless advance of
science are identified. The
growth of knowledge and its
evolution can be researched
in the Nobel archives where*

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*nominations are kept secret
for 50 years after the
awards have been made. They
represent a treasure for
real-time assessment of
science. Norrby's earlier
book, Nobel Prizes and Life
Sciences (2010) examined the*

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Mayrayne
unique archival records
until 1959. The present book
takes us up to 1962,
surveying a range of
dazzling discoveries. All
prizes in immunology are
reviewed. Their impact on
our capacity to control

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*infectious diseases and
transplant organs are
highlighted. The Nobel year
1962 is exceptional in
recognizing the most major
advance in biology since
Darwin in 1859 presented his
theory of evolution. This*

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*was the dramatic discovery
of the double-helix
structure of DNA by Watson
and Crick in 1953. The era
of molecular biology had
begun. Its explosive
development continues into
the present. Contents:A*

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Magician of Virology from
Australia A Divided Nobel
Prize and a New Era in
Immunology More Nobel Prizes
in Immunology Immunity,
Infections and
Transplantations Transgressin
g Borders in Science and

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*Scenes of Life Making Sense
of Hearing Unraveling the*

Complexity of Protein

Folding "It's So Beautiful,

You See, So Beautiful" Coda

Readership: General.

Keywords: DNA; Nobel

Prize; Life Science; Medical

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Discoveries; Molecular
Biology Reviews: "This book
describes and explains one
of the most important
discoveries of the 20th
century. It is a seminal
work, that scholars of the
History of Science will use

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Meyerson
to be able to understand how
science evolves. Young
scientists will find this
book a valuable resource."

Sir Aaron Klug Nobel
laureate in Chemistry, 1982
"Speculation about what
happens in the selection of

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*Nobel Prize winners is part
of both the narrative and
the 'gossip' of science.*

*Interpreting what went on in
the Nobel selection
committees 50 years ago
requires both an intimate
understanding of how the*

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*process works and
familiarity with subtleties
of the Swedish language.*

*Erling Norrby has the proper
personal experiences to make
such evaluations. In the
present, his second, book he
mainly reviews Medical Nobel*

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awards during 1960 and 1962.
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Coming as it does near the
beginnings of the modern
medicine – recognizing
exceptional advances in
immunology and molecular
biology – this is a
fascinating era for those

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who are intrigued by the history of discovery." Peter

Mcmyra C Doherty Nobel laureate in Physiology or Medicine, 1996

"The moment the Nobel Foundation announces its Prizes in the sciences, decades of struggle and

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turmoil toward discovery
enter the spotlight. To
skillfully examine some of
the most dramatic scientific
advances in the middle of
the twentieth century,
Erling Norrby has reached
deeply into the Nobel

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*archives to examine
firsthand how many of the
most illustrious Prizes from
that era came to be awarded.
As a superb scientist,
educator and administrator,
Dr Norrby is able to tell
these stories within the*

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Prusiner Nobel laureate in
Physiology or Medicine, 1997
"I particularly enjoyed
Norrby's lengthy treatment
of the 1962 chemistry prize
– to James Watson, Francis

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*Crick, and Maurice Wilkins,
1962 for their structural
work on the structure of DNA
... This well-referenced and
copiously illustrated book,
featuring meditations,
poetry, quotations, and
miscellaneous musings, is a*

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*true labour of love. I
heartily recommend it to
anyone interested in the
history of scientific
discovery, the personalities
of those who pursue it, and
how it actually happens and
is received." Chemistry &*

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Industry
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Magray
*Radioactivity Pioneer and
the First Woman to Win a
Nobel Prize*
Zebrafish
Forces of Nature
The Hidden History of Women

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in Science

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Magrawe*
How to Win the Nobel Prize

*The life of trailblazing
physicist Mildred
Dresselhaus, who expanded
our understanding of the
physical world. As a girl in
New York City in the 1940s,*

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*Mildred "Millie" Dresselhaus
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Mayhew*

*was taught that there were
only three career options
open to women: secretary,
nurse, or teacher. But
sneaking into museums,
purchasing three-cent copies
of National Geographic, and*

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devouring books on the
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in Dresselhaus (1930–2017) a
passion for inquiry. In
Carbon Queen, science writer
Maia Weinstock describes
how, with curiosity and
drive, Dresselhaus defied

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*expectations and forged a
career as a pioneering
scientist and engineer.*

*Dresselhaus made highly
influential discoveries
about the properties of
carbon and other materials
and helped reshape our world*

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in countless ways—from electronics to aviation to medicine to energy. She was also a trailblazer for women in STEM and a beloved educator, mentor, and colleague. Her path wasn't easy. Dresselhaus's Bronx

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*childhood was impoverished.
Her graduate adviser felt
educating women was a waste
of time. But Dresselhaus
persisted, finding mentors
in Nobel Prize-winning
physicists Rosalyn Yalow and
Enrico Fermi. Eventually,*

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*Dresselhaus became one of
the first female professors
at MIT, where she would
spend nearly six decades.*

*Weinstock explores the
basics of Dresselhaus's work
in carbon nanoscience
accessibly and engagingly,*

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*describing how she
identified key properties of
carbon forms, including
graphite, buckyballs,
nanotubes, and graphene,
leading to applications that
range from lighter, stronger
aircraft to more energy-*

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*efficient and flexible
electronics.*

*The zebrafish has become one
of the most important model
organisms to study biological
processes in vivo. As a
vertebrate that has many of
the strengths of*

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invertebrate model systems, it offers numerous advantages to researchers interested in many aspects of embryonic development, physiology and disease. The next few years will see the completion of large scale

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*initiatives that exploit the
zebrafish as a model system
for the understanding of
gene function in
vertebrates, including the
sequencing of the genome.
The zebrafish will therefore
play an increasingly*

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important role in the future
of biomedical research.

Whole genome sequencing
projects, such as the human
genome project, have led to
the isolation of tens of
thousands of genes for which
the *in vivo* function is

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unknown. It is therefore likely that an increasing number of researchers will turn to organisms such as the zebrafish to understand the *in vivo* requirement for the proteins these genes encode. Recent technical

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advances now allow the rapid
testing of in vivo function
of as yet uncharacterised
genes in zebrafish in large
numbers and at a speed that
is impossible in other
systems. This book not only
provides a complete set of

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instructions that will allow researchers to establish the zebrafish in their laboratory. It also gives a broad overview of commonly used methods and a comprehensive collection of protocols describing the

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most powerful techniques.

Peter Doherty recounts his
unlikely path to becoming a
Nobel Laureate, revealing
how his nonconformist
upbringing, sense of being
an outsider, and search for
a different perspective have

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*shaped his life and work.
Beginning with his humble
origins in Australia,
Doherty shares his early
interests and describes his
award-winning, influential
work with Rolf Zinkernagel
on T-cells and the nature of*

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immune defense. In prose that is amusing and astute, Doherty offers a rare insider's look at the realities of being a research scientist. He lucidly explains his own scientific work and the

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selection, funding, and organization of research projects; the major problems science hopes to solve; and the rewards of a career in scientific research. For Doherty, science plays an important role in improving

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the world, and he argues that scientists need to do a better job of making their work more accessible to the public. He concludes with tips on how to win a Nobel Prize, including advice on being persistent, generous,

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and culturally aware.

Spanning the nineteenth and
twentieth centuries, this
fascinating history explores
the lives and achievements
of great women in science
across the globe. Ten Women
Who Changed Science and the

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*World tells the stories of
trailblazing women who made
a historic impact on
physics, biology, chemistry,
astronomy, and medicine.*

*Included in this volume are
famous figures, such as two-
time Nobel Prize winner*

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*Marie Curie, as well as
individuals whose names will
be new to many, though their
breakthroughs were no less
remarkable. These women
overcame significant
obstacles, discrimination,
and personal tragedies in*

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*their pursuit of scientific
Discoveries. Sharon Bertsch
McGraw-Hill
advancement. They persevered
in their research, whether
creating life-saving drugs
or expanding our knowledge
of the cosmos. By daring to
ask 'How?' and 'Why?', each
of these women made a*

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*positive impact on the world
we live in today. In this
book, you will learn about:
Astronomy Henrietta Leavitt
(United States, 1868-1921)
discovered the period-
luminosity relationship for
Cepheid variable stars,*

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which enabled us to measure the size of our galaxy and the universe. Physics Lise Meitner (Austria, 1878–1968) fled Nazi Germany in 1938, taking with her the experimental results which showed that she and Otto

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Hahn had split the nucleus
and discovered nuclear
fission. Chien-Shiung Wu
(United States, 1912-1997)
demonstrated that the widely
accepted 'law of parity',
which stated that left-
spinning and right-spinning

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*subatomic particles would
behave identically, was
wrong. Chemistry Marie Curie
(France, 1867-1934) became
the only person in history
to have won Nobel prizes in
two different fields of
science. Dorothy Crowfoot*

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*Hodgkin (United Kingdom,
1910-1994) won the Nobel
Prize for Chemistry in 1964
and pioneered the X-ray
study of large molecules of
biochemical importance.*

*Medicine Virginia Apgar
(United States, 1909-1974)*

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*invented the Apgar score,
used to quickly assess the
health of newborn babies.*

*Gertrude Elion (United
States, 1918-1999) won the
Nobel Prize for Physiology
or Medicine in 1988 for her
advances in drug*

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development. Biology Rita
Levi-Montalcini (Italy,
1909-2012) won the Nobel
Prize for Physiology or
Medicine in 1986 for her co-
discovery in 1954 of Nerve
Growth Factor (NGF). Elsie
Widdowson (United Kingdom,

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1906-2000) pioneered the science of nutrition and helped devise the World War II food-rationing program.

Rachel Carson (United States, 1907-1964) forged the environmental movement, most famously with her

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*influential book Silent
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cultures have had to battle against the traditional belief that men are more cognitively adept than women. At times throughout history, women were persecuted for their attempts to break down traditional gender barriers. Today, women scientists and mathematicians must continue to

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Physiology or Medicine 1947 Maria
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Nobel Prize in Chemistry 2009 Here's a sample: Be Persistent - Dorothy Crowfoot Hodgkin Dorothy Hodgkin was determined - she had to be. She spent many years searching out the elusive structure of insulin, a molecule which is vital to health. Along the way, she developed a new method for

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studying complex molecules. Yes, Dorothy won a Nobel Prize in Chemistry, but not for solving the problem she most cared about. It took another five years of work after winning the prize before she found the answer she'd long been searching for. You might even say, "She Persisted."

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