

# 100 Science Discoveries That Changed The World

Science has been the driving force behind countless breakthroughs and innovations that have shaped our world. From the invention of electricity to the discovery of DNA, these revolutionary scientific achievements have transformed the way we live, think, and understand our universe. Join us on a journey as we explore and celebrate 100 science discoveries that have left an indelible mark on human history.

## 1. The Theory of Relativity by Albert Einstein

Albert Einstein revolutionized physics with his theory of relativity, published in 1915. This groundbreaking theory introduced the concept of space-time and challenged our understanding of gravity. Einstein's famous equation,  $E=mc^2$ , revealed the equivalence of energy and mass, leading to the development of atomic energy and the creation of nuclear weapons.

## 2. The Discovery of Penicillin by Alexander Fleming

In 1928, Alexander Fleming accidentally discovered penicillin, a life-saving antibiotic. His observation of a contaminated bacterial culture led to the identification of a mold that could inhibit the growth of bacteria. This paved the way for the development of antibiotics, revolutionizing medicine and saving countless lives.

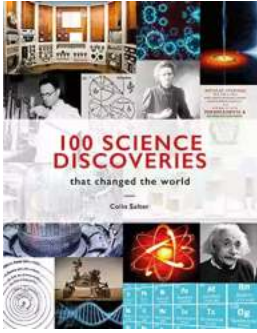
### 100 Science Discoveries That Changed the World

by Colin Salter(Kindle Edition)

★★★★★ 5 out of 5

Language : English

File size : 71639 KB



Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Word Wise : Enabled  
Print length : 495 pages



### **3. The Invention of the Internet by Tim Berners-Lee**

Tim Berners-Lee invented the World Wide Web, the foundation of today's internet, in the late 1980s. His creation facilitated global communication, information sharing, and the birth of the digital era. The internet has transformed every aspect of our lives, connecting people across the globe and revolutionizing industries and economies.

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### **98. The Human Genome Project**

The Human Genome Project, completed in 2003, mapped the entire human genome, providing a comprehensive understanding of our genetic makeup. This landmark achievement has revolutionized the field of genetics, leading to breakthroughs in diagnosing and treating genetic diseases, personalized medicine, and our understanding of human evolution.

### **99. The Discovery of Higgs Boson Particle**

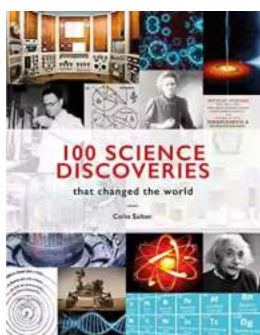
In 2012, scientists at the Large Hadron Collider confirmed the existence of the Higgs boson particle, a crucial component of the Standard Model in particle physics. This discovery filled a major gap in our understanding of the fundamental

building blocks of the universe and provided valuable insights into the origin of mass.

## 100. The Advent of CRISPR Technology

CRISPR-Cas9, a revolutionary gene-editing technology, has opened up possibilities and ethical dilemmas previously unimaginable. Discovered in 2012, this tool allows scientists to precisely edit genomes, potentially curing genetic diseases and transforming agriculture. CRISPR has the power to reshape our future, instigating a new era of genetic engineering.

These 100 scientific discoveries represent a mere fraction of the remarkable achievements that have shaped our world. From the exploration of outer space to the depths of the microscopic world, scientists continue to unravel the mysteries of the universe and improve our lives. Their relentless pursuit of knowledge and innovation drives progress and ensures a brighter future for humanity.



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Arranged in chronological order from the early Greek mathematicians, Euclid and Archimedes through to present-day Nobel Prize winners, 100 Science

Discoveries That Changed the World charts the great breakthroughs in scientific understanding.

Each entry describes the story of the research, the significance of the science and its impact on the scientific world. There is also a resume of each scientist's career along with their other achievements, sometimes – in the case of Isaac Newton – in a completely unrelated field (laws of motion and the component parts of light).

The book covers all branches of science: geometry, number theory, cosmology, the laws of motion, particle physics, electricity, magnetism, the laws of gasses, optical theory, cell biology, conservation of energy, natural selection, radiation, quantum theory, special relativity, superconductivity, thermodynamics, genomes, plate tectonics, and the uncertainty principal.

Scientists include: Albert Einstein, Alessandro Volta, Alexander Fleming, Amedeo Avogadro, Andre Geim, Antoine Lavoisier, Antony van Leeuwenhoek, Archimedes, Benoit Mandelbrot, Carl Friedrich Gauss, Charles Darwin, Christian Doppler, Copernicus, Crick and Watson, Dmitri Mendeleev, Edwin Hubble, Enrico Fermi, Ernest Rutherford, Erwin Schrodinger, Euclid, Fermat, Frederick Sanger, Galileo Galilei, Georg Ohm, Georges Lemaitre, Heike Kamerlingh, Isaac Newton, Jacques Charles, James Clerk Maxwell, James Prescott Joule, Jean Buridan, Johannes Kepler, John Ambrose Fleming, John Dalton, John O'Keefe, Joseph Black, Josiah Gibbs, Lord Kelvin, Lord Rayleigh, Louis Pasteur, Marie Curie, Martinus Beijerinck, Michael Faraday, Murray Gell-Mann & George Zweig, Neils Bohr, Nicholas Steno, Peter Higgs, Pierre Curie, Ptolemy, Robert Boyle, Robert Brown, Robert Hooke, Roger Bacon, Rudolf Clausius, Seleucus, Shen Kuo, Stanley Miller, Tycho Brahe, Werner Heisenberg, William Gilbert, William Harvey, William Herschel, William Rontgen, Wolfgang Pauli.



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