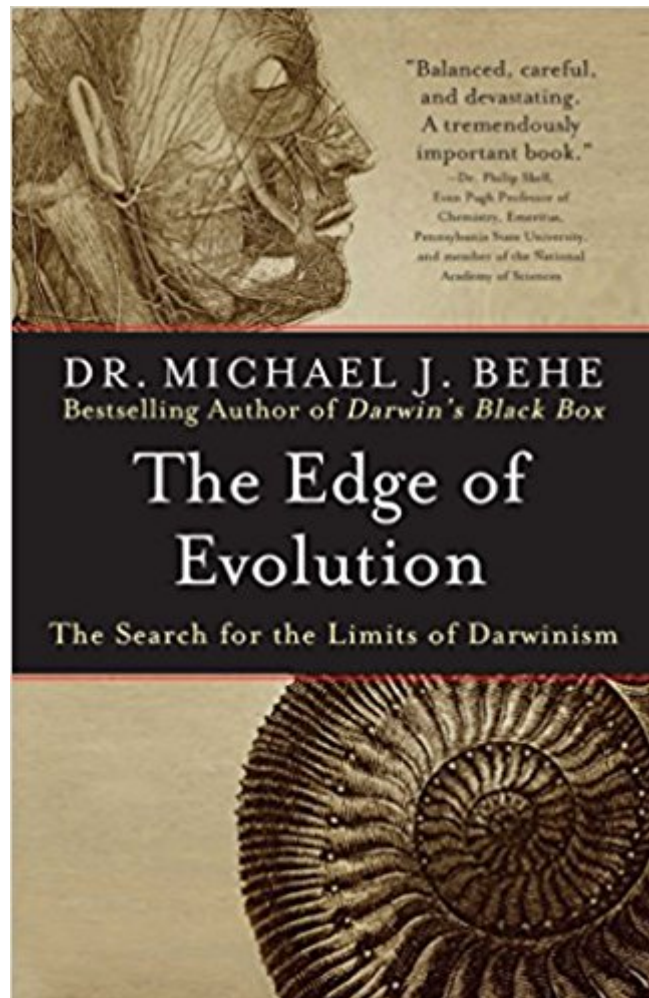




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# The Edge Of Evolution: The Search For The Limits Of Darwinism



## Synopsis

When Michael J. Behe's first book, *Darwin's Black Box*, was published in 1996, it launched the intelligent design movement. Critics howled, yet hundreds of thousands of readers -- and a growing number of scientists -- were intrigued by Behe's claim that Darwinism could not explain the complex machinery of the cell. Now, in his long-awaited follow-up, Behe presents far more than a challenge to Darwinism: He presents the evidence of the genetics revolution -- the first direct evidence of nature's mutational pathways -- to radically redefine the debate about Darwinism. How much of life does Darwin's theory explain? Most scientists believe it accounts for everything from the machinery of the cell to the history of life on earth. Darwin's ideas have been applied to law, culture, and politics. But Darwin's theory has been proven only in one sense: There is little question that all species on earth descended from a common ancestor. Overwhelming anatomical, genetic, and fossil evidence exists for that claim. But the crucial question remains: How did it happen? Darwin's proposed mechanism -- random mutation and natural selection -- has been accepted largely as a matter of faith and deduction or, at best, circumstantial evidence. Only now, thanks to genetics, does science allow us to seek direct evidence. The genomes of many organisms have been sequenced, and the machinery of the cell has been analyzed in great detail. The evolutionary responses of microorganisms to antibiotics and humans to parasitic infections have been traced over tens of thousands of generations. As a result, for the first time in history Darwin's theory can be rigorously evaluated. The results are shocking. Although it can explain marginal changes in evolutionary history, random mutation and natural selection explain very little of the basic machinery of life. The "edge" of evolution, a line that defines the border between random and nonrandom mutation, lies very far from where Darwin pointed. Behe argues convincingly that most of the mutations that have defined the history of life on earth have been nonrandom. Although it will be controversial and stunning, this finding actually fits a general pattern discovered by other branches of science in recent decades: The universe as a whole was fine-tuned for life. From physics to cosmology to chemistry to biology, life on earth stands revealed as depending upon an endless series of unlikely events. The clear conclusion: The universe was designed for life.

## Book Information

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## Customer Reviews

With his first book, *Darwin's Black Box*, Behe, a professor of biology at Lehigh University, helped define the controversial intelligent design movement with his concept of "irreducible complexity." Now he attempts to extend his analysis and define what evolution is capable of doing and what is beyond its scope. Behe strongly asserts, to the likely chagrin of young earth creationists, that the earth is billions of years old and that the concept of common descent is correct. But beginning with a look at malaria and the sickle cell response in humans, Behe argues that genetic mutation results in only clumsy solutions to selective pressures. He goes on to conclude that the statistical possibility of certain evolutionary changes taking place is virtually nil. Although Behe writes with passion and clarity, his calculations of probability ignore biologists' rejection of the premise that evolution has been working toward producing any particular end product. Furthermore, he repeatedly refers to the shortcomings of "Darwin's theory-the power of natural selection coupled to random mutation," but current biological theory encompasses far more than this simplistic view. Most important, Behe reaches the controversial conclusion that the workings of an intelligent designer is the only reasonable alternative to evolution, even without affirmative evidence in its favor. Copyright © Reed Business Information, a division of Reed Elsevier Inc. All rights reserved. --This text refers to an out of print or unavailable edition of this title.

"With this book, Michael Behe shows that he is truly an independent thinker of the first order. He carefully examines the data of evolution, along the way making an argument for universal common descent that will make him no friends among young-earth creationists, and draws in new facts, especially the data on malaria, that have not been part of the public debate at all up to now. This book will take the intelligent design debate into new territory and represents a unique contribution to the longstanding question of philosophy: Can observation of the physical world guide our thinking about religious questions?" -- Professor David Snoke, Department of Physics and Astronomy,

University of Pittsburgh" In *The Edge of Evolution* Michael Behe carefully assesses the evidence of what Darwin's mechanism of random mutation and selection can achieve in well documented cases, and shows that even in those cases that maximize its power as a creative force it has only been able to generate very trivial examples of evolutionary change. Could such an apparently impotent and mindless force really have built the sophisticated molecular devices found throughout nature? The answer, he insists, is no. The only common-sense explanation is intelligent design." -- Michael Denton, M.D., Ph.D., author of *Nature's Destiny*" In crystal-clear prose Behe systematically shreds the central dogma of atheistic science, the doctrine of the random universe. This book, like the natural phenomena it so elegantly describes, shows the unmistakable signs of a very deep intelligence at work." -- Jeffrey M. Schwartz, M.D., Research Psychiatrist, UCLA, and author of *The Mind & The Brain*" Until the past decade and the genomics revolution, Darwin's theory rested on indirect evidence and reasonable speculation. Now, however, we have begun to scratch the surface of direct evidence, of which this book offers the best possible treatment. Though many critics won't want to admit it, *The Edge of Evolution* is very balanced, careful, and devastating. A tremendously important book." -- Dr. Philip Skell, Evan Pugh Professor of Chemistry, Emeritus, at Pennsylvania State University, and member of the National Academy of Sciences" With this book, Michael Behe shows that he is truly an independent thinker of the first order. In a day when the media present all issues in the football metaphor as two teams fighting, the intelligent design debate is presented simplistically as authors who are lapdogs for young-earth creationists versus evolutionists who are lapdogs for atheists. Michael Behe is no lapdog. He carefully examines the data of evolution, along the way making an argument for universal common descent that will make him no friends among young-earth creationists, and draws in new facts, especially the data on malaria, that have not been part of the public debate at all up to now. This book will take the intelligent design debate into new territory and represents a unique contribution on the longstanding question of philosophy: can observation of the physical world guide our thinking about religious questions?" - Professor David Snoke, Department of Physics and Astronomy, University of Pittsburgh" Until the past decade and the genomics revolution, Darwin's theory rested on indirect evidence and reasonable speculation. Now, however, we have begun to scratch the surface of direct evidence, of which this book offers the best possible treatment. Though many critics won't want to admit it, *The Edge of Evolution* is very balanced, careful, and devastating. A tremendously important book." -- Dr. Philip Skell, Evan Pugh Professor of Chemistry, Emeritus, at Pennsylvania State University, and member of the National Academy of Sciences

WARNING: If you are an atheist, reading this book may change your views. As Alvin Plantinga has pointed out, DARWINIAN evolution (which is just to say, random evolution) is the only possible intellectual option that atheists have when discerning the origin of complex biological systems. Michael Behe gives some very powerful arguments in The Edge of Evolution to show that the likelihood of such systems evolving by a purely random and purposeless Darwinian process are extremely low as to be essentially impossible. Malaria can evolve resistance to drugs, but it has not and probably never will develop resistance to Sickle cell hemoglobin; there is a limit to what Darwinian evolution can do. Another example is fish who live in the antarctic that have a special anti-freeze "protein" in their blood which prevents ice crystals from forming in freezing cold water. This extremely rare and lucky mutation is not really constructive, because it's just a bundle of incoherent material that happens to act as antifreeze for the fish. But in all of these example (the best examples of Darwinian evolution), there is a loss in some other aspect of the organism. To say that this same random process lead to the eagle's eye and the human brain is laughable. Darwinian evolution doesn't have a prayer.

Evolutionists want to be shown the genetic restrictions in the genome that prevent macroevolution. Link them to this book. Behe is a leader for good reason in the field of ID.

thank you!

EXCELLENT

The Edge of Evolution is the followup to Behe's "Darwin's Black Box" (DBB). In DBB, while Behe showed that there were certain biochemical systems that showed evidence of design, there were few enough of them to think that maybe they were the exception rather than the rule. However, in Edge, Behe tries to find the quantitative edge of what neo-Darwinism (what most people think of when they think of the word "evolution") can do. In doing so, he finds that many small, seemingly simplistic biosystems also have a problem are likewise unevolvable by neo-Darwinian means. He tries to find the quantitative edge of what evolution can and can't do. I gave it 4 stars out of 5 because he did not discuss pre-planned, non-Darwinian evolution much. While this wasn't really the topic of his book, there have been many non-Darwinian evolutionary systems that have been discovered, and it would have rounded out his discussion of evolution to show where these fit in.

Interesting reading and good addition to my library. Well worth the price and time involved in reading it. Always good to get opposing viewpoints.

interesting

Excellent and convincing argument that random mutation and natural selection are not processes that are capable of designing the complex and sophisticated integrated components in living things from the molecular level to the brain -- there are limits.

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