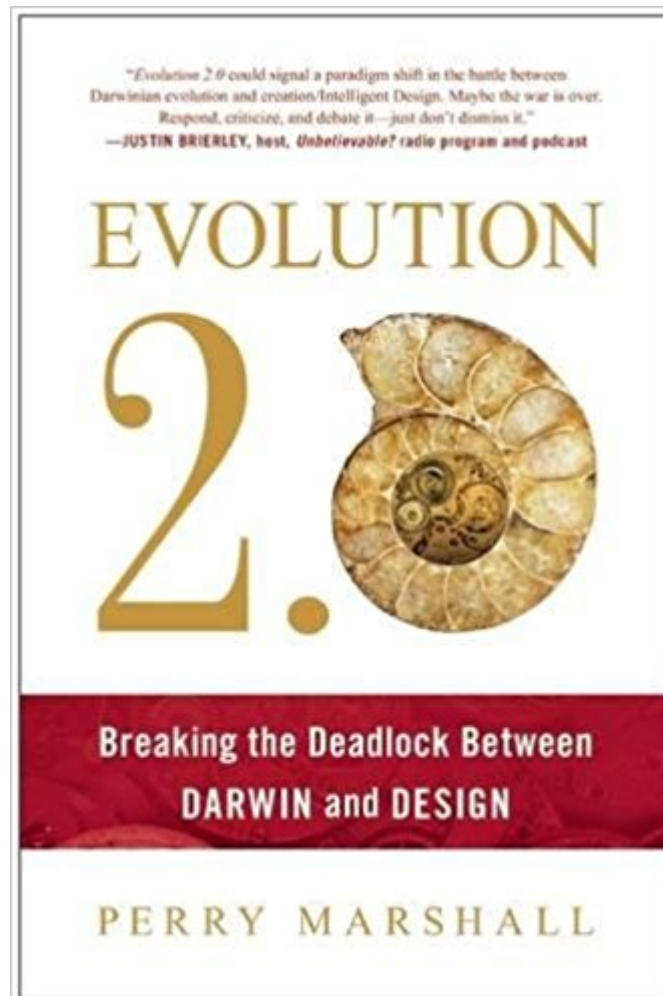




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# Evolution 2.0: Breaking The Deadlock Between Darwin And Design



## Synopsis

Creation Evolution Debate: 150 Years Later, it Still Rages. Both Sides Are Half-Right. And Both Are Wrong. Meet the opponents: In one corner - Proponents of Intelligent Design like William Dembski, Stephen Meyer, and Michael Behe. Many defy scientific consensus, maintaining evolution is a fraud. They challenge decades of data in biology, chemistry, genetics and paleontology. In the other corner - Devout Neo-Darwinists like Richard Dawkins, Daniel Dennett, and Jerry Coyne, who insist evolution happens "willy nilly." Strangely, they sidestep the latest science, glossing over crucial questions and fascinating details. But what if both sides are half-right? What if both sides are missing vital details, clinging on to outdated views, theories, and interpretations? There is a third way. Evolution 2.0 is the first book to lay out the Extended Evolutionary Synthesis in plain English. This new paradigm is rocking the foundations of evolutionary biology right now. Evolution 2.0 reveals experiments which prove that, while evolution is not a hoax, neither are changes random nor accidental. They are targeted, adaptive, and aware. You will discover: - Nearly every cell in your body can edit its own DNA, combating random destructive copying errors, charting a path for its transformation (page 82) - Genes - far from being set in stone - actually change and adapt to the environment. - How germs re-engineer their genetic destiny in real time by borrowing DNA from other organisms (page 94) (it's why your doctor tells you to never stop taking antibiotics halfway through your prescribed course) - How bacteria communicate, organize themselves into armies, then stage coordinated attacks on your immune system (page 110) - Brand new species in 18 months, sometimes 24 hours - Through two empirically proven, reliable systems of natural genetic engineering (page 146) - How and when cells generate new information and genes that did not exist before (page 150) - Why DNA, which is digital instructions for building proteins, is not merely like code but is code, the same way as the software on your smartphone is (page 38) - How cells switch genes on and off in response to the environment, activating new traits that get passed from parents to kids (page 115) If creationism seemed leave out important potentials, here you'll find missing clues. You will discover fascinating real-time evolutionary lab experiments by an eminent scientist in the 1940s, whose work was recognized in 1983 by a Nobel prize & US postage stamp, but then... is still rarely mentioned in school science curricula. High priests of scientific establishment actively oppose research that threatens antiquated theories, labeling results in scientific publications a "media fiasco". This book explores 70+ years of under-reported evolutionary science. Evolution 2.0 chronicles bestselling author Perry Marshall's 10-year journey of in-depth research. As an Electrical Engineer, author of an Ethernet book and world-renowned business consultant, Mr. Marshall connects the dots in a new refreshing way. He tackles hard

questions about evolution with precision, making it clear when information is proven with hard data and when it can only be inferred. “This book will open your eyes and transform your thinking about life, evolution, and creationism. You’ll gain a deeper appreciation for our place in the universe. You’ll see the world around you as you’ve never seen it before: adaptive, efficient, and incredibly elegant.”

**\$3 Million Technology Prize:** Origin of Information is one of the central problems in modern biology. No one knows where the genetic code came from; no one knows how the first cell developed. To solve this, the author has organized a Private Equity Investment group, Natural Code LLC. They are offering a prize, reminiscent of the X-Prize, for a natural process that produces coded information. The prize amount is \$3 million USD as of November 2016. Details in Chapter 23 and Appendix 4.

## Book Information

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## Customer Reviews

Evolution 2.0 is a remarkably meticulous dissection of the experimental evidence on evolution. Forget the dogmatic Neo-Darwinist assumption that new species originated only through gradual accumulation of random mutations. Weismann and Wallace were demonstrably wrong and their theory needs to be replaced with an integrative synthesis. Perry Marshall and I have entered this debate from entirely different fields. He starts from information theory and practice, I started from research on the heart’s pacemaker, but we have come to almost identical conclusions.

— Denis Noble, Oxford University, Fellow of the Royal Society of Great Britain and author of "Dance to the Tune of Life: Biological Relativity" Evolution 2.0 is engaging, thought-provoking, and

challenges us to reboot the riddle of evolutionary biology. By re-examining Darwin, Marshall asks us to reconsider the most important question we face—what is life?

•Dr. John S. Torday, professor, Evolutionary Medicine Program, UCLA There can be few topics that have generated as much misunderstanding in the entangled relationship between science and religion as the origin and evolution of life. It is remarkable that we seem to know more about the origin of the universe than we do about the origin of life. In contrast to much previous emphasis on life as replicating systems, Perry Marshall brings new insight into the concept of life as information management. Drawing on his background as an electrical engineer, he asks how code can arise spontaneously. He describes his own 10-year journey in pursuit of this question, challenging much of what he had learnt from traditional accounts of the process of evolution by natural selection. The result is a fresh account which stands up to scrutiny and challenges many generally held positions. If you want to read a book that will stimulate you to rethink evolution, read this.

—Andrew Briggs, Oxford University; Author, *The Penultimate Curiosity* "Marshall writes in a practical style so that all of his readers can come to understand evolution and can make a thoughtful conclusion on a controversial topic. Recommended for . . . students of biology, history of science, and religious studies, as well as researchers and scholars."

•Library Journal "Standing on the knife-edge between traditional evolutionary theory and Intelligent Design, this book will inflame both dogmatic Darwinists and Creationists. It's irritating to both because it's friendly to the idea of evolution itself, and because it judges Darwinism too close-minded and reductive. . . . While most scientists submit to self-censorship and dare not question cherished assumptions, the boldest scientists like Albert Einstein, Francis Crick and Stephen Hawking never feared such taboos. Whether agnostics, atheists or believers, they never shrank back from big questions or unconventional solutions. Evolution and design are not either-or, but both-and."

•Jean-Claude Perez, author, *Codex Biogenesis* and retired IBM Biomathematics and Artificial Intelligence Interdisciplinary Researcher "Marshall is making an invaluable contribution toward more open and honest discussion on the subject of evolution versus creation. The book is well written, often witty, and is extremely thought provoking. . . . It is amazing that this non-biologist has analyzed life phenomena at the cellular and molecular levels to such depth and width by applying information gained by cutting-edge methods in the life sciences!"

•Dr. Kwang Jeon, Editor, *International Review of Cell and Molecular Biology*, and Professor Emeritus, Department of Biochemistry, University of Tennessee "Any person of faith who cares about how creation reveals God—and how evolution is actually a devastating arsenal of evidence against atheism—should add

Evolution 2.0 to the extreme tippy-top of their reading list. Evolution 2.0 is equally shocking to both atheists and Christians, a genuine eye-opener in a category of its own.

•D. Bnonn Tenant, ThinkingMatters.org.nz  
“A very readable book and a devastating attack on the neo-Darwinist orthodoxy that evolution is nothing but natural selection acting on random variation.”

•Peter Saunders, co-director, Institute of Science in Society, and Emeritus professor of Applied Mathematics, King’s College, London  
“With considerable wit and amazing insight, Marshall delivers a compelling and forceful synthesis that sets a new standard for discussions about the relationship between science and faith. The result is no less than astonishing.”

•Mark McMenamin, Professor of Geology, Mount Holyoke College  
“The book is wonderfully thought-provoking, as Perry brings a fresh perspective to the increasingly arid (and acrimonious) debate between Intelligent Design and methodological naturalism.”

•Crofton Brierley, MS Biochemistry, Oxford University, former department head, Marconi Optical  
“A remarkable and useful resume of the state-of-the-art of this great problem of science.”

•Stuart Pivar, author, Lifecode and On The Origin of Form, and cofounder, New York Academy of Art  
“I am committed to Young Earth Creationism, and thus cannot agree with some of Perry’s conclusions. However, I highly recommend this book to any skeptic who is committed to a purely materialistic paradigm. The science presented here - from the latest research to the most engaging minds on this subject - make this the one book you should read.”

•Ray Glinski, MS in Biochemistry, Pastor at Grace Church of DuPage  
“Evolution 2.0 is a modern philosophical marvel unlike anything I have read in my years of study. It allowed me to put down my guard. The author was not compelling me to believe in an ideology, but rather taking me alongside his journey of self-discovery. I came into this book hesitant. As a staunch creationist I found myself trying to fight with Marshall early on, but his arguments and presentation were flawless and compelling. It was refreshing to see someone examine both sides honestly.”

•Marie Sarantakis, Comparative Religion Scholar, Carthage College  
“Armed with computer science and electrical engineering, Perry fights an uphill battle to unite the space between those who believe evolution is random and those who believe species are designed by God, who in some cases deny evolution itself. . . . Judge this book by the science within its pages - and enjoy the story.”

•Andras Pellionisz, Biophysicist, Founder of Fractogene; PhD, Computer Technology, PhD, Biology, PhD, Physics  
“Sometimes the only way a puzzle gets solved is when someone looks at it with fresh eyes. Perry Marshall is an engineer who started to investigate biology. His book could signal a paradigm shift in the battle between Darwinian evolution and

creation/ID. Maybe the war is over. Respond, criticize and debate it . . . just don't dismiss it. — Justin Brierley, host, Unbelievable? radio program and podcast — “Evolution 2.0 is clearly the best book I have read on the topic. It helped me far better understand the fallacy of random mutations and how they are really introduced. This is something I was never taught in genetics in undergrad or medical school. — Joseph Mercola, M.D., New York Times bestselling author of The No-Grain Diet and Effortless Healing

No one is indifferent to the question of "Creation-Evolution." Everyone wants to know. When I explain the discoveries in this book to people of all walks of life, they're immediately fascinated. Yes, even at dinner parties. I presented this at a secular business function in Chicago. Afterward, person after person thanked me for resolving, in one woman's words, "this ridiculous conflict between science and religion." (She happened to be a Buddhist.) Others thanked me for revealing science no one else bothered to tell them. One entrepreneur, an owner of a multi-million dollar company, borrowed ideas from nature and re-invented his business. Recently I gave evolution / intelligent design talks to two different conservative Christian home school groups. Both times, the organizers were besieged beforehand with hand-wringing emails from concerned parents, wondering what I was about to teach their kids. Most embraced creationism and were wary. But afterwards, nothing but gratitude. An eager group of parents and kids stayed for two hours after, hammering me with curious questions. Contrary to what Creationists always told you, evolution is not a hoax. Scientists engineer new species in the lab at breathtaking speed every day. The mystery behind this is the cell's spectacular ability to produce and modify code. Contrary to what Darwinists always told you, evolution is not steered by blind mutations. Rather it is fueled by the ability for nearly every cell in existence to cut, splice, re-arrange and re-engineer its own DNA. They do this in direct response to hundreds of inputs from their changing environment. This book is the first to explain the Extended Evolutionary Synthesis in language regular people can understand. The new paradigm is a far more complete formulation of evolution that rejects numerous pillars of old-school Darwinism, including randomness and gradualism. Life evolves in real time and new generations benefit immediately from their parents' adaptations. To get to the bottom of this mystery, I've formed an investment group, Natural Code LLC. We are offering a technology prize for Origin of Information. The prize caps at ten million dollars. It seeks a material answer to the question: "How do you get a non-living, non-programmed system to organize a sequence of predictive choices - machine-building instructions like 1 0 0 0 1 1 0 - without a designer?" This problem is trickier than it first appears. Origin of life demands an answer to this question; meanwhile,

cells do this every day... but how do they do it? Every technology innovation we seek has already been solved in the cell, we just need to study it. This book bridges the gap between two opposing sides (creationism and Darwinism), each of which told you less than half the story. This book shatters traditional boundaries between science and religion, showing the way to new medical and technological breakthroughs. As this book has come to fruition, many people have come out of the woodwork, expressing almost identical frustrations at how both extremes in the debate have ceased looking for answers, and only push their tired dogmas. The task of discovery is never done. My dream for this book is that it will usher in a 2nd Renaissance of curiosity, wonder and exploration about the universe we are part of.

As a cross-disciplinary scientist, I believe Perry Marshall's book has only one equal in literature. It is the book "Chaos - The Making of a New Science". James Gleick wrote it in 1987. It is an indisputable classic, a national bestseller. It was a paradigm shift, and has massive overlap with Evolution 2.0. I predict may soon show that "People who bought Chaos, also bought Evolution 2.0." The parallels are far more profound than just two amazing presentations of otherwise difficult science concepts. They go beyond ease, fluid elegance and captivating penmanship, or the entertaining manner in which they educate their audiences. They also share present penetrating scientific insights in a way that offers a graceful "way out" for the the hopelessly close-minded yet still engages the curiosity of the open-minded at all levels. Each reader will digest this book according to his/her preparedness and devotion. Both books provoke those determined to dig deeper on their own with a vast bibliography, including highly mathematical science. The original sources of these two books, from James Shapiro and Kurt Gödel to Edward Lorenz and Benoit Mandelbrot, are hardly bedtime reading. But if you want to explore, both books make it easy for you to do so. They show you where you can start. Even biological disciplines such as neuroscience, neurophilosophy and genomics are transformed by informatics. Maybe someday we'll see a third book that explains how non-Euclidean geometry applies to postmodern biology. If Perry Marshall accomplished nothing else beyond demolishing "randomness" and replacing it with "fractal geometry", the book would deserve all five stars. However - and this is why two professional fractal geometry researchers (Jean-Claude Perez and myself) endorsed this book - Perry goes far beyond simple "fractal geometry" and calls a spade a spade. The genome is fractal! He touches on this lightly in Appendix 1, offering the reader numerous paths for further study. Today, nobody can deny the fractal structure of DNA, and that of the organisms it

grows. However few have applied statistical diagnostics and probabilistic prognosis to buttress the case. The graphic on page 281 shows a cartoon-type "eureka" to illustrate how even fractals evolve. The mathematically savvy, and all programmers who have ever written a single line of code, can attest that "random code" is an oxymoron. No one has ever documented a randomly occurring code. Even if codes were random (they're not), such a thing would be vastly more bizarre than what Mandelbrot discovered, which was just a brand new dimension. In the Gaston Julia fractal code of  $P(z) = z^n - 1$ , the real number of the Julia-code gains a new imaginary axis, to become  $z$  as a complex number in  $P(z) := z^2 + C$ . As fossil evidence shows, analogous leaps occurred from the sea to land and to air and back to Earth. So it turns out "imaginary numbers" are quite real. It is flabbergasting that some people resist fractal geometry. True, fractals can seem outlandish to the unseasoned. But as magical as fractals seem the day you first discover them, you'll sooner capture a live unicorn in your own back yard than produce a code from randomness. Have we not all seen trees, flowers and mammals with self-similar repetitions of leaves, branches, petals and brain cells? For a DNA's instructions to fit into half the size of Microsoft Office for a human, fractal compression is an elegant way to not have to specify each single brain cell separately. Perry does not deny evolution and he is especially not a young earth creationist. By any fair description he is an evolutionist. But he acknowledges additional new dimensions glossed over or ignored by the other science writers. The cited Francis Collins, M.D., Ph.D. and Director of \$30 Bn/yr NIH wrote that, for a scientists even at his scale it is quite OK if, in addition to empirical knowledge, they also adhere to a belief system - to deal with the unknown. Since nonlinear dynamics are bringing new breakthroughs in cancer, autism, schizophrenia, and auto-immune diseases, we grow more certain than ever: "The more we know, the more we know we don't know." The butterfly effects of nonlinear dynamics assure us that another realm of discovery beyond existing empirical data is bound to always exist. Perhaps we can call this the New Principle of Biological Uncertainty. In addition to the tangible domain of science "knowledge", it is only a matter of personal predilections whether one prefers any of the time-tested belief systems, or opts for the anxiety of a random universe. Congrats, Perry - and never let fear-driven naysayers drag you down! Andras J. Pellionisz Ph.D., Biology Ph.D., Physics Ph.D., Computer Technology Founder, HolGenTech, Inc. Silicon Valley, California 94086

In the tradition of Charles Darwin and Richard Dawkins, this is a comprehensive (long) and



academic work with lots of technical data. Darwin talked about a "tendency toward improvement" with random mutations and he was right; to start with nothing and get to the complex universe we see today, there is no way around it, there had to be a lot of "improvements". He knew it had to be, but he couldn't explain it. Dawkins said those improvements happen in the genes. And he was right. Changes in DNA are the only way that an organism can evolve to the next level. But neither Darwin or Dawkins explained how it happens. Perry Marshall comes along with this book and explains what Darwin and Dawkins couldn't. If you are an atheist, don't expect to like it. This book is not a quick or easy read. Block out some time to get through it.

Before I started reading this book, I made a conscious decision to put my biases aside and take an objective approach at listening to what the author had to say. I was glad to see that the author stated something very similar right in the first chapter: "I decided: I am going to get to the bottom of this. Even if it costs me everything. I just want to know what's true." I am a truth seeker as well and I firmly believe that Mr. Marshall tried his best to present the true facts as he had researched them. There are hundreds of references that anyone can go study for themselves. I really liked it that he debunked many scientific "facts" that had been proven wrong years ago. This shows a HUGE short coming in the scientific community for not keeping the general public up-to-date on this important information. I realize that there are science journals and things like that, but maybe there should be things like widespread press releases published in mainstream media whenever a major scientific theory is proved wrong. A starting point would be making sure that science students have the most accurate up-to-date information possible. Regarding some specific information in the book, I found it interesting that of the 5 types of evolution... 1. Epigenetics 2. Transposition 3. Horizontal Gene Transfer 4. Hybridization 5. Symbiogenesis... hybridization and symbiogenesis happens the least often. Shouldn't we have seen far more new species such as mules (horse/donkey hybrid) and ligers (lion/tiger hybrid)? I also find it interesting that these hybrids only form within their own branch of animal classification such as felines, bovines, canines, etc. This indicates micro-evolution and not macro-evolution, otherwise we would see evidence of hybrids across these broad categories. (I guess that's some of my biases coming through.) Back to the book. I found Chapter 23, Information: The Ten-Million-Dollar Question, the most fascinating. That's when it hit me. It's all about the software! A computer without software is just a paperweight. A human body without a mind is just a paperweight. The simple diagram on page 204 of the book nicely shows the 3 axes that make up everything in the universe: X axis, Matter; Y axis, Energy; Z axis, Information. This book is a great read for people who want to take an honest look at a summary of the current knowledge we, as a

society, have about evolution. While I think it's noble that Perry Marshall wants to "break the deadlock between Darwin and Design", I think it will only change the minds of the people who aren't at the extreme opposite ends of this debate. This book could be a catalyst in the right direction though.

I have to admit that I've been very narrow-minded about evolution - in other words, I held to a strong fundamentalist, young earth doctrine. I bought Perry Marshall's book because I've attended some of his marketing seminars, and was interested in what he had to say on the topic. The book went beyond my expectations in opening my mind to the evolutionary process. Even though I believe strongly that there is an intelligent designer of the universe, still the research that Marshall presents is awe-inspiring, and helped me realize that there is so much more to be learned and understood about DNA and the coding that is an integral part of life.

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