"Evolution" mixes two things together, one real, one imaginary. People are shown the real part, which makes them ready to believe the imaginary part. That is how the idea of biological evolution has spread since 1859. Variation (microevolution) is the real part. The types of bird beaks, the colors of moths, leg sizes, etc. are variation. Each type and length of beak a finch can have is already in the gene pool and adaptive mechanisms of finches. Creationists have always agreed that there is variation within species. What evolutionists do not want you to know is that there are strict limits to variation that are never crossed, something every breeder of animals or plants is aware of. Whenever variation is pushed to extremes by selective breeding (to get the most milk from cows, sugar from beets, bristles on fruit flies, or any other characteristic), the line becomes sterile and dies out. And as one characteristic increases, others diminish. But evolutionists want you to believe that changes continue, merging gradually into new kinds of creatures. This is where the imaginary part of the theory of evolution comes in. It says that new information is added to the gene pool by mutation and natural selection to create frogs from fish, reptiles from frogs, and mammals from reptiles, to name a few.

Just to be clear, evolution theory puts no limit on what mutation/natural selection can invent, saying that everything in nature was invented by it – everything:

sex, eye-hand coordination, balance, navigation systems, tongues, blood, antennae, waste removal systems, swallowing, joints, lubrication, pumps, valves, autofocus, image stabilization, sensors, camouflage, traps, ceramic teeth, light (bioluminescence), ears, tears, eyes, hands, fingernails, cartilage, bones, spinal columns, spinal cords, muscles, ligaments, tendons, livers, kidneys, thyroid glands, lungs, stomachs, vocal cords, saliva, skin, fat, lymph, body plans, growth from egg to adult, nurturing babies, aging, breathing, heartbeat, hair, hibernation, bee dancing, insect queens, spiderwebs, feathers, seashells, scales, fins, tails, legs, feet, claws, wings, beaver dams, termite mounds, bird nests, coloration, markings, decision making, speech center of the brain, visual center of the brain, language comprehension center of the brain, sensory center of the brain, memory, creative center of the brain, object-naming center of the brain, emotional center of the brain, movement centers of the brain, center of the brain for smelling, immune systems, circulatory systems, digestive systems, endocrine systems, regulatory systems, genes, gene regulatory networks, proteins, ribosomes that assemble proteins, receptors for proteins on cells, apoptosis, hormones, neurotransmitters, circadian clocks, jet propulsion, etc. Everything in nature – according to evolution theory. Just to be clear.

The invention of new parts or systems by mutation has never been witnessed, nor has it been accomplished in a biochemistry laboratory. As Franklin Harold, retired professor of biochemistry and molecular biology at Colorado State University, wrote in his 2001 book “The Way of the Cell” published by Oxford University Press, “There are presently no detailed Darwinian accounts of the evolution of any biological or cellular system, only a variety of wishful speculations.” Evolutionists often say “it evolved”, but no one lists all the molecular steps because no one knows what they could be.
So do the **big changes (macroevolution)** really happen? Evolutionists tell us we cannot see evolution taking place because it happens too slowly. A human generation takes about 20 years from birth to parenthood. They say it took tens of thousands of generations to form man from a common ancestor with the ape, from populations of only hundreds or thousands. We do not have these problems with bacteria. A new generation of bacteria grows in as short as 12 minutes or up to 24 hours or more, depending on the type of bacteria and the environment, but typically 20 minutes to a few hours. There are more bacteria in the world than there are grains of sand on all of the beaches of the world (and many grains of sand are covered with bacteria). They exist in just about any environment: hot, cold, dry, wet, high pressure, low pressure, small groups, large colonies, isolated, much food, little food, much oxygen, no oxygen, in toxic chemicals, etc.

There is much variation in bacteria. There are many mutations (in fact, evolutionists say that smaller organisms have a faster mutation rate than larger ones). **But they never turn into anything new. They always remain bacteria.** Fruit flies are much more complex than already complex single-cell bacteria. Scientists like to study them because a generation (from egg to adult) takes only 9 days. In the lab, fruit flies are studied under every conceivable condition. There is much variation in fruit flies. There are many mutations. **But they never turn into anything new. They always remain fruit flies.** Many years of study of countless generations of bacteria and fruit flies all over the world shows that evolution is not happening today.

**Mutation - natural selection**

Here is how the imaginary part is supposed to happen: On rare occasions a mutation in DNA improves a creature’s ability to survive, so it is more likely to reproduce (natural selection). That is evolution’s only tool for making new creatures. It might even work if it took just one gene to make and control one part. But parts of living creatures are constructed of intricate components with connections that all need to be in place for the thing to work, controlled by many genes that have to act in the proper sequence. **Natural selection would not choose parts that did not have all their components existing, in place, connected, and regulated because the parts would not work.** Thus all the right mutations (and none of the destructive ones) must happen at the same time by pure chance. That is physically impossible. To illustrate just how hopeless it is, imagine this: on the ground are all the materials needed to build a house (nails, boards, shingles, windows, etc.). We tie a hammer to the wagging tail of a dog and let him wander about the work site for as long as you please, even millions of years. The swinging hammer on the dog is as likely to build a house as mutation-natural selection is to make a single new working part in an animal, let alone a new creature.
Only mutations in the reproductive (germ) cells of an animal or plant would be passed on. Mutations in the eye or skin of an animal would not matter. Mutations in DNA happen fairly often, but most are repaired or destroyed by mechanisms in animals and plants. All known mutations in animal and plant germ cells are neutral, harmful, or fatal. But evolutionists are eternally optimistic. They believe that millions of beneficial mutations built every type of creature that ever existed.

Believing in beneficial mutations is like believing a short-circuit in the motherboard of your computer could improve its performance. To make any lasting change, a beneficial mutation would have to spread ("sweep") through a population and stay (become "fixed"). To evolutionists, this idea has been essential for so long that it is called a "classic sweep", "in which a new, strongly beneficial mutation increases in frequency to fixation in the population."

Some evolutionist researchers went looking for classic sweeps in humans, and reported their findings in the journal Science. "To evaluate the importance of classic sweeps in shaping human diversity, we analyzed resequencing data for 179 human genomes from four populations". "In humans, the effects of sweeps are expected to persist for approximately 10,000 generations or about 250,000 years." Evolutionists had identified "more than 2000 genes as potential targets of positive selection in the human genome", and they expected that "diversity patterns in about 10% of the human genome have been affected by linkage to recent sweeps." So what did they find? "In contrast to expectation," their test detected nothing, but they could not quite bring themselves to say it. They said there was a "paucity of classic sweeps revealed by our findings". Sweeps "were too infrequent within the past 250,000 years to have had discernible effects on genomic diversity." "Classic sweeps were not a dominant mode of human adaptation over the past 250,000 years." --Hernandez, Ryan D., Joanna L. Kelley, Eyal Elyashiv, S. Cord Melton, Adam Auton, Gilean McVean, 1000 Genomes Project, Guy Sella, Molly Przeworski. 18 February 2011. Classic Selective Sweeps Were Rare in Recent Human Evolution. Science, Vol. 331, no. 6019, pp. 920-924.
A 35-year experiment by evolutionists shows how things really work. Instead of waiting for natural selection, researchers forced selection on hundreds of generations of fruit flies. They used variation to breed fruit flies that develop from egg to adult 20% faster than normal. But, as usual when breeding plants and animals, there was a down side. In this case the fruit flies weighed less, lived shorter lives, and were less resistant to starvation. There were many mutations, but none caught on, and the experiment ran into the limits of variation. They wrote that "forward experimental evolution can often be completely reversed with these populations". "Despite decades of sustained selection in relatively small, sexually reproducing laboratory populations, selection did not lead to the fixation of newly arising unconditionally advantageous alleles." "The probability of fixation in wild populations should be even lower than its likelihood in these experiments." -- Burke, Molly K., Joseph P. Dunham, Parvin Shahrestani, Kevin R. Thornton, Michael R. Rose, Anthony D. Long. 30 September 2010. Genome-wide analysis of a long-term evolution experiment with Drosophila. Nature, Vol. 467, pp. 587-590.

You may have heard of the famous Lenski experiment. Dr. Richard E. Lenski is an evolutionary biologist who began a long-term experiment on February 24, 1988 that continues today. It looks for genetic changes in 12 initially identical populations of Escherichia coli bacteria that have been adapting to conditions in their flasks for over 60,000 generations. I have simplified a report by Scott Whynot, who studied 26 peer-reviewed scientific articles authored by Dr. Lenski (with others) published between 1991–2012. These papers represent the major genetic findings from 21 years of the experiment.

1. There was an insertion mutation that inhibited transcription of DNA involved in cell wall synthesis.
2. There was an insertion mutation in a regulatory region that encodes two proteins involved with cell wall synthesis. This may have led to larger cells.
3. A mutation in a gene led to a defect in DNA repair.
4. An insertion mutation may have knocked out a gene involved in programmed cell death and response to stress.
5. There was another mutation in a gene involved in response to stress, disrupting its function.
6. There was a mutation in the gene that encodes an enzyme that loosens DNA coils, leading to an increase in DNA supercoiling.
7. There was an insertion mutation in a gene that represses the production of nicotinamide adenine dinucleotide (NAD), a molecule that participates in many metabolic reactions, some affecting longevity. This might allow more NAD production.
8. The researchers noted an insertion mutation that they think inactivated a gene, resulting in greater glucose uptake. Glucose is a limited energy source in the experiment.
9. Deletion mutations caused the loss of the ability to catabolize D-ribose, an energy source that is not available in the experiment.

10. There was a mutation in a gene regulating transport of the sugar maltose, an energy source that is not present in the experiment.

11. The E. coli began to utilize an energy source, citrate, that they normally could not use in the presence of oxygen. E. coli already have the ability to transport and metabolize citrate where there is no oxygen, but they do not produce an appropriate transport protein for an environment with oxygen. In E. coli DNA, the gene for the citrate transporter that works without oxygen is directly upstream from genes for proteins with promoters that are active in the presence of oxygen. A replication of this region happened to put the transporter gene next to one of these promoters, so it could now be expressed in the presence of oxygen.

Except for number 11, the changes found in over 60,000 generations of bacteria were due to the disruption, degradation, or loss of genetic information. The ability to use citrate in the presence of oxygen, trumpeted by evolutionists as a big deal, was the result of previously existing information being rearranged, not the origin of new information. Mutations that result in a gain of novel information have not been observed.

“Most long-term evolution experiments thus far have been performed in bacteria or haploid yeast populations, where, in most environments, there exist a number of loss-of-function mutations that provide a selective advantage." “For instance, sterility in yeast provides a selective advantage by eliminating unnecessary gene expression.” “The emergence of the Cit+ phenotype is the exception in experimental evolution, where most evolved mutations affect independent genes and biological pathways, driven largely by large-target loss-of-function mutations.”-- Lang, Gregory I., Michael M. Desai. 2014. The spectrum of adaptive mutations in experimental evolution. Genomics, Vol. 104, No. 6, Part A, pp. 412–416.

**Microevolution - Macroevolution**

This candid admission is from the evolutionist journal *Nature*: "Darwin anticipated that microevolution would be a process of continuous and gradual change. The term macroevolution, by contrast, refers to the origin of new species and divisions of the taxonomic hierarchy above the species level, and also to the origin of complex adaptations, such as the vertebrate eye. Macroevolution posed a problem to Darwin because his principle of descent with modification predicts gradual transitions between small-scale adaptive changes in populations and these larger-scale phenomena, yet there is little evidence for such transitions in nature. Instead, the natural world is often characterized by gaps, or discontinuities. One type of gap relates to the existence of 'organs of extreme perfection', such as the eye, or morphological innovations, such as wings, both of which are found fully formed in present-day organisms without leaving evidence of how they evolved."-- Reznick, David N., Robert E. Ricklefs. 12 February 2009. Darwin's bridge between microevolution and macroevolution. Nature, Vol. 457, pp. 837-842.

Another evolutionary biologist wrote, "the processes underlying evolutionary innovation are remarkably poorly understood, which leaves us at a surprising conundrum: while biologists have made great progress over the past century and a half in understanding how existing traits diversify, we have made relatively little progress in understanding how novel traits come into being in the first place." "The origin of novel features continues to be a fascinating and challenging topic in evolutionary biology."-- Moczek, Armin P. May 2008. On the origins of novelty in development and evolution. BioEssays, Vol. 30, Issue 5, pp. 409-512.
Evolution’s Third Way

Evolution theory says that accumulated small changes in creatures (microevolution) lead to new types of creatures (macroevolution). But some evolutionary biologists are admitting that microevolution does not happen by the supposed mechanism of evolution – mutation/natural selection. Instead, living things have built-in mechanisms that adjust to quick changes in their environment to produce variation. The mechanisms are only beginning to be understood, yet 64 evolutionist academics have put their names and faces on The Third Way website.

A system for variation makes sense because species’ survival can depend on adapting fast and not waiting millions of years for “beneficial mutations”. But this leaves macroevolution out hanging by itself, which is why Third Way members are often bitterly opposed by conventional Neo-Darwinists. This is from The Third Way website:  http://www.thethirdwayofevolution.com/

“New findings in molecular biology challenge the gene-centered version of Darwinian theory according to which adaptation occurs only through natural selection of chance DNA variations.”

“The DNA record does not support the assertion that small random mutations are the main source of new and useful variations. We now know that the many different processes of variation involve well regulated cell action on DNA molecules.”

“…the twentieth-century scientific consensus about evolution appears outdated and incomplete” due to “the inadequacy of natural selection and adaptation as the only or even the main mode of evolution”.

“The fossil record, in fact, does not show Darwin’s predicted gradual changes between closely related species but rather the “punctuated equilibrium” pattern described by Eldredge and Gould: a jump from one to a different species.”

“How do new species evolve? Although Darwin identified inherited variation as the creative force in evolution, he never formally speculated where it comes from. His successors thought that new species arise from the gradual accumulation of random mutations of DNA. But despite its acceptance in every major textbook, there is no documented instance of it.”

“The gene’s eye view of life, advocated by evolutionary biology, sees living bodies as mere vehicles for the replication of the genetic codes.” But “understanding the components of a system (be they individual genes, proteins, or even molecules) may tell us little about the interactions among these components.”

“Neo-Darwinism ignores much contemporary molecular evidence and invokes a set of unsupported assumptions about the accidental nature of hereditary variation. Neo-Darwinism ignores important rapid evolutionary processes such as symbiogenesis, horizontal DNA transfer, action of mobile DNA and epigenetic modifications. Moreover, some Neo-Darwinists have elevated Natural Selection into a unique creative force that solves all the difficult evolutionary problems without a real empirical basis.”

“Evolution, as it turns out, is much more dynamic than biologists realized just a few decades ago.” “Genomes merge, shrink and grow, acquire new DNA components, and modify their structures by well-documented cellular and biochemical processes.”
“...evolutionary change [is] an active cell process, regulated epigenetically and capable of making rapid large changes by horizontal DNA transfer, inter-specific hybridization, whole genome doubling, symbiogenesis, or massive genome restructuring.”

“To understand what life is, we must view it at a variety of different levels, all interacting with each other in a complex web. It is that emergent web, full of feedback between levels, from the gene to the wider environment, that is life.”

Orphan genes - the final blow?

Here is an evolutionist with experience in molecular biology, Francois Jacob. Francois Jacob won the Nobel Prize in Physiology or Medicine in 1965, along with two others, for discoveries concerning genetic control of enzyme and virus synthesis. He had joined the Institut Pasteur in 1950. He was appointed Laboratory Director there in 1956, then Head of the Department of Cell Genetics in 1960. In 1964 he was appointed Professor at the College de France, where a chair of Cell Genetics was created for him. He was Chairman of the Board of the Institut Pasteur from 1982 to 1988. The work of Francois Jacob dealt mainly with the genetic mechanisms existing in bacteria and bacteriophages, and with the biochemical effects of mutations.

He wrote, “Evolution does not produce novelties from scratch. It works on what already exists, either transforming a system to give it new functions or combining several systems to produce a more elaborate one.”

“During chemical evolution in prebiotic times and at the beginning of biological evolution, all those molecules of which every living being is built had to appear. But once life had started in the form of some primitive self-reproducing organism, further evolution had to proceed mainly through alterations of already existing compounds. New functions developed as new proteins appeared. But these were merely variations on previous themes. A sequence of a thousand nucleotides codes for a medium-sized protein. The probability that a functional protein would appear de novo by random association of amino acids is practically zero. In organisms as complex and integrated as those that were already living a long time ago, creation of entirely new nucleotide sequences could not be of any importance in the production of new information.”

For decades, everyone agreed. But as researchers compared the genes of similar creatures, they found that the genes differed, from just a little to a lot. They imagined different ways that could have happened. Gene duplication, non-deleterious frame shift mutations, alternative reading frames, overlap with transposable elements, horizontal gene transfer, or overlapping gene. As usual with evolutionists, they do not know what
really happened, they assume it was one of these mental explanations, and that is enough. But some genes are so unique, even imagination fails. Evolutionists now conclude they must have assembled spontaneously – “de novo”. In fact, “all genome and expressed sequence tag (EST) projects to date in every taxonomic group studied so far have uncovered a substantial fraction of genes that are without known homologs [equivalents]. These ‘orphans’ or ‘taxonomically restricted genes’ (TRGs) are defined as being exclusively restricted to a particular taxonomic group.”21 “Orphan genes are defined as genes which lack detectable similarity to genes in other species”. “They typically make up 10 to 30% of all genes in a genome.”45

The foundation of evolution theory, gradual modification over time, slowly transforming genes that already exist, suddenly ran against orphan genes, genes without parents in every taxonomic group studied so far. Looking at it objectively, the theory of evolution has been falsified. After careful study, evolutionists made a bold choice:

They cut the theory’s last connection to reality, declaring that the impossible is normal: of course genes are produced de novo! The new foundation of evolution theory is Poof - there it is (which sounds like the foundation of creation by Intelligent Design - de novo).

Evolutionists now think orphan genes are awesome. “There should be greater appreciation of the importance of the de novo origination of genes.” “Today, we know that this evolutionary process is not impossible.”43 “De novo evolution is clearly a strong force - constantly generating new genes over time.” “It seems possible that most orphan genes have evolved through de novo evolution.”35 “It looks as if we couldn’t find the families of most orphans because they don’t really have families.”35 “The sequencing of a large number of eukaryotic and bacterial genomes has uncovered an abundance of genes without homologs… and has shown that new genes have arisen in the genomes of every group of organisms studied so far including humans.”21

For evolutionists, the theory of evolution can never die. The rest of us can see that François Jacob was right. Orphan genes reveal that macro-evolution does not represent reality, and is physically impossible.
Before the scientific era, people often made up imaginative stories to explain what they saw in the world. The scientific method changed that by requiring rigorous experimentation to test hypotheses and determine what is real. With the Theory of Evolution, people are back to making up imaginative stories. Here is a great example from Scientific American, August 10, 2012, by Ferris Jabr: *How Did Insect Metamorphosis Evolve?*

“Insects may account for between 80 and 90 percent of all animal species, which means 45 to 60 percent of all animal species on the planet are insects that undergo complete metamorphosis according to one estimate.”

“However metamorphosis evolved, the enormous numbers of metamorphosing insects on the planet speak for its success as a reproductive strategy. The primary advantage of complete metamorphosis is eliminating competition between the young and old. Larval insects and adult insects occupy very different ecological niches. Whereas caterpillars are busy gorging themselves on leaves, completely disinterested in
reproduction, butterflies are flitting from flower to flower in search of nectar and mates. Because larvae and adults do not compete with one another for space or resources, more of each can coexist relative to species in which the young and old live in the same places and eat the same things. Ultimately, the impetus for many of life's astounding transformations also explains insect metamorphosis: survival.

In fossils found in Permian rock, “some insects... hatched in forms that neither looked nor behaved like their adult versions.” This “incomplete metamorphosis, describes insects such as cockroaches, grasshoppers and dragonflies that hatch as nymphs—miniature versions of their adult forms that gradually develop wings and functional genitals as they molt and grow.” “…insects that mature through incomplete metamorphosis pass through a brief stage of life before becoming nymphs—the pro-nymphal stage, in which insects look and behave differently from their true nymphal forms.”

And now, storytime:

“…the evolution of insect metamorphosis remains a genuine biological mystery even today.” “Metamorphosis is a truly bizarre process”. Nevertheless, “biologists have established a plausible narrative about the origin of insect metamorphosis, which they continue to revise as new information surfaces.”

“Complete metamorphosis likely evolved out of incomplete metamorphosis.” It “likely involved a genetic tweak that bathed the embryo in juvenile hormone sooner than usual and kept levels of the hormone high for an unusually long time.”

“Perhaps 280 million years ago, through a chance mutation, some pro-nymphs failed to absorb all the yolk in their eggs, leaving a precious resource unused. In response to this unfavorable situation, some pro-nymphs gained a new talent: the ability to actively feed, to slurp up the extra yolk, while still inside the egg. If such pro-nymphs emerged from their eggs before they reached the nymphal stage, they would have been able to continue feeding themselves in the outside world. Over the generations, these infant insects may have remained in a protracted pro-nymphal stage for longer and longer periods of time, growing wormier all the while and specializing in diets that differed from those of their adult selves—consuming fruits and leaves, rather than nectar or other smaller insects. Eventually these prepubescent pro-nymphs became full-fledged larvae that resembled modern caterpillars.” “The pupal stage arose later as a kind of condensed nymphal phase that catapulted the wriggly larvae into their sexually active winged adult forms.”
But wait – there’s more! The underside of the wing has a brown pigment, which helps hide the resting blue morpho.

That shimmering blue on top is not pigment. These extremely tiny shapes that cover the scales on top of the wing cause light wave interference. Blue light has a wavelength range from 400 to 480 nm. The slits in the scales of the Morpho are 200 nm apart. Because the distance between slits corresponds to half of the wavelength of blue light, this is the wavelength that undergoes constructive interference. The slits are attached to a base of melanin, a material that absorbs light, further strengthening the blue image. If evolutionists get around to making up a story for how these structures evolved, what do you think it will be? Come on, use your imagination!
The pufferfish in the video did not learn how to do this, it is hardwired in his brain. Can you guess which mutations occurred to build this unique behavior into the mind of a pufferfish? If you can, be sure to tell an evolutionary biologist; they need your help.

https://www.youtube.com/watch?v=B91tozyQs9M

Small pufferfish make a particular design in the sand off the coast of the Ryukyu Islands.

This species of pufferfish is less than 5 inches long, yet the male makes a circular structure 5 to 7 feet in diameter in seafloor sand over 7 to 9 days.

A female releases her eggs into the central zone. After spawning, males remain in the circular structure for 6 days to care for the eggs. Once the eggs hatch, males leave, never to return. But they begin to construct a new circular structure in a different place.

"The nest exhibits 3 unusual characteristics that have never been reported in fish. First, radially aligned peaks and valleys are created outside the nest site; second, the peaks are decorated with shell fragments; and third, fine sand particles are gathered in the nest site to create an irregular pattern. All 3 characteristics are completed and maintained before mating, when females visit the nest site, and they collapse thereafter."--Kawase, Hiroshi, Yoji Okata, Kimiaki Ito. 1 July 2013. Role of Huge Geometric Circular Structures in the Reproduction of a Marine Pufferfish. Scientific Reports, Vol. 3, Article number: 2106. 5 pages. DOI:10.1038/srep02106.
Cuttlefish have “one of the most complex systems of motor coordination ever recorded.” “Cuttlefish skin contains millions of cells called chromatophores, which can produce tiny dots of colour (yellow, orange, red, brown or black). If the radial muscles that control a chromatophore are relaxed, the pigments are imperceptible. But muscle contraction produces a colorful pixel several tens of micrometres wide.” “The millions of individual pixels form a complex image”.

Cuttlefish transfix their prey by strobing as they approach. “Chromatophores are regulated by modules of motor neurons that function in synchrony, and that operate on skin patches of different sizes.” There is “a remarkable level of fine control by motor neurons, and highlights the potential of cuttlefish studies to deepen our understanding of complex motor systems.”

“The difference in colour reflects a difference in age. The pigment of every chromatophore starts as yellow before turning red, then brown, and ending up as black. New chromatophores are generated throughout the life of the cuttlefish, and... the ratio of black to colored chromatophores is maintained by keeping a tight balance between the birth rate of new cells and the time it takes them to mature to a black color.” “The next challenge will be to determine how cuttlefish change the 3D texture of their skin for camouflage on sand, algae or corals. This process involves sets of muscles called papillae that create bumps and lumps.” “Cuttlefish coordinate millions of muscles simultaneously”.

Scallops possess a visual system comprising up to 200 eyes.

What benefit does the scallop receive by having up to 200 eyes located on the periphery of its semi-circular mantle, spanning ~250°? The optic nerves from nearly all of the eyes project on to the site of visual processing in scallops. There, the scallop can combine the visual information from the... overlapping and differently focused views from multiple eyes.

Each eye is ~1 mm in diameter and is composed of a cornea, a weakly refracting lens, and a concave mirror, in addition to a highly unusual double-layered retina.
Two striking features were observed in all the eyes. First, the mirror does not have a simple hemispherical shape. Rather, the curvature of the mirror varies across its surface. Second, the optical axes of the mirror and the lens are not aligned.

The mirror is tuned to reflect the wavelengths of light penetrating the scallop's habitat and is tiled with a mosaic of square guanine crystals.

The crystals are arranged so that the high-refractive-index faces are oriented toward the direction of the incident light across the mirror, creating a highly reflective surface. The square-plate morphology is also optimized for tiling. Each layer of the mirror is formed from an almost perfectly tessellated mosaic of two-dimensional (2D) squares - closely resembling the segmented mirrors used in reflecting telescopes.

The multilayered mirror is constructed from 20 to 30 layers of crystals separated by thin layers of cytoplasm. Crystal tiling minimizes surface defects at the crystal interfaces that would cause optical diffraction effects.
The mirror forms images on a double-layered retina used for separately imaging the peripheral and central fields of view. The mirror forms functional images on both retinas, which appear to be specialized for different functions.

The distal retina responds to relatively dark, moving features, triggering defense or escape reflexes. The scallop’s well-focused peripheral vision could provide useful information to control and guide its movement.


…or this: Orb weaver spider

People can choose many ways of life, inventing appropriate tools, machines, and techniques useful to survive and thrive. But other creatures are locked into their lifestyles, and are fully equipped for them. Evolutionists say living things “adopted strategies” as if they had a choice. Animals “adopting strategies” is as impossible today as it was in the deep mists of time. Design is the only objective conclusion.

Look at the orb weaver spider. It is not taught or shown how to build a web; the skill, knowledge, and understanding is in its DNA. It knows how to choose a location, find anchor points in a plane for anchor threads, bind the anchor threads with frame threads, and run radius threads to a center point. It knows how to use its biological machines to make 4 to 7 different types of silk, including sticky silk for the capture spiral.
It knows to leave an open area in the center and to wait there. It knows to respond to vibrations of the radius threads when an insect is caught. It knows to walk only on the radius threads so it won’t get caught on the sticky capture threads. It knows how to wrap and devour a captured insect, and to repair the web.

Robotics engineers struggle to design robots that can keep their balance or grasp a cup without crushing it. The extremely complex, precise, and purposeful behavior of orb weaver spiders is light-years beyond robotics programming, and it’s all in spider DNA. How could evolution write that code with random mutation/natural selection? No way.

...or this: Lampsilis mussel fooling bass

From: https://www.youtube.com/watch?v=I0YTBj0WHkU

The Lampsilis mussel cannot see.

The lure is startling, but also remember that the mussel’s microscopic larvae (glochidia) must become parasites in bass for a while in order to develop.

How do you suppose that got started?

The rest of the story

The late Stephen Jay Gould was one of the most influential evolutionary biologists of the 20th century and perhaps the best known since Charles Darwin, according to his New York Times obituary. In 1996 he wrote an essay about a famous giraffe evolution story in his “Natural History” magazine column.
“I made a survey of all major high-school textbooks in biology. Every single one – no exceptions – began its chapter on evolution by first discussing Lamarck’s theory of the inheritance of acquired characters, and then presented Darwin’s theory of natural selection as a preferable alternative. All texts then use the same example to illustrate Darwinian superiority – the giraffe’s neck. Giraffes, we are told, got long necks in order to browse the leaves at the tops of acacia trees… available to no other mammal.” “Darwinian evolution may be both true and powerful, but if we continue to illustrate our conviction with an indefensible, unsupported, entirely speculative, and basically rather silly story, then we are clothing a thing of beauty in rags – and we should be ashamed”. “If we choose a weak and foolish speculation as a primary textbook illustration… then we are in for trouble”.

Although acacia tree leaves are the preferred food for adult giraffes during the wet season, giraffes will browse on many other trees and bush types. There is plenty of foliage at lower-levels, and giraffes often eat bushes and even low-growing land vegetation. They commonly munch on long grass and low bushes and many kinds of ground-growing plants.

The neck of the average female giraffe is two feet shorter than male necks. If, during a drought, only a longer neck could reach the last leaves high up on acacia trees, then the females would have starved to death and giraffes would have gone extinct.

Gould continues: “Even if we assume that the giraffe’s neck evolved as an adaptation for eating high leaves, how could natural selection build such a structure by gradual increments? After all, the long neck must be associated with modifications in nearly every part of the body – long legs to accentuate the effect and a variety of supporting structures (bones, muscles, and ligaments) to hold up the neck. How could natural selection simultaneously alter necks, legs, joints, muscles, and blood flows (think of the pressure needed to pump blood to the giraffe’s brain)?”

To drive blood eight feet up to the head, the heart is exceptionally large and thick-muscled, and the blood pressure is probably the highest in any animal. But when the giraffe bends its head to the ground it puts great strain on the blood vessels of the neck and head. The blood pressure plus the weight of the blood in the neck could produce so much pressure in the head that the blood vessels would burst. Pressure sensors along the neck’s arteries monitor the blood pressure, and can activate other mechanisms to counter the increase in pressure as the giraffe drinks or grazes. Contracting artery walls (with increasing muscle fiber toward the head), shunting part of the blood flow to bypass the brain, and a web of small blood vessels (the rete mirabile, or ‘marvelous net’) between the arteries and the brain all serve to control the blood pressure in the giraffe’s head.

The lungs are oversize to compensate for the volume of dead air in the long trachea. Without this extra air-pumping capacity a giraffe would breathe the same used air over and over. The giraffe’s lungs are very large and it breathes slowly, which is necessary in order to exchange the required large volume of air without causing windburn to the giraffe’s 12 feet of trachea.

Red blood cells in a giraffe are about one-third the size of human red blood cells, so many more can fit into the same space. That provides giraffes with 3 times more red blood cell surface area than humans for the same volume of blood, producing higher and faster absorption of oxygen. This helps to retain adequate oxygen in all extremities, including the head.
Gould notes that “Giraffes provide no established evidence whatsoever for the mode of evolution of their undeniably useful necks.” “Giraffes have a sparse fossil record in Europe and Asia… and the spotty evidence gives no insight into how the long-necked modern species arose.”

“The standard story, in fact, is both fatuous and unsupported. In the realm of giraffes, current use of maximal mammalian height for browsing leaves does not prove that the neck evolved for such a function.” “Why then have we been bamboozled into accepting the usual tale without questioning? I suspect two primary reasons: we love a sensible and satisfying story, and we are disinclined to challenge apparent authority (such as textbooks).” –Gould, Stephen Jay. May 1996. The Tallest Tale. Natural History, Vol. 105, Issue 5, pp. 18-23, 54-57. Giraffe biological information from: Davis, Percival, and Dean H. Kenyon. 1993. Of Pandas and People. Second edition, Haughton Publishing, Dallas, Texas.

Origin of Life research
Evolutionists don’t like to talk about “origin of life” research because it has been such a dead-end, but if chemicals never assembled themselves into the first living thing, evolution could never get started. So to keep hope alive, every once in a while over the last 60 years they have announced discoveries that supposedly bring us closer to understanding how life on Earth began. However, the main lesson scientists have learned over those decades is that the long molecules (polymers) that allow biological creatures to work must be isolated in pure concentrations for there to be any chance of success. Unfortunately, that can only happen in biochemistry labs, computer simulations, and living cells. In all other settings, the products are unusable due to contamination, unwanted reactions with other chemicals, and minuscule concentrations that quickly fall apart.

Here is an “origin-of-life” researcher, biochemist David Deamer, who thought what he had made in the lab might work in the real world. In 2005 he poured a concoction of organic chemicals into a pool of hot water. He was just trying to make the walls of a cell, like the plastic case of a phone without the electronics inside. Did it work? “The answer was a resounding no.” said another origin-of-life researcher. “The clays and metal ions present in the Siberian pool blocked the chemical interactions.” Deamer's demonstration that we cannot translate lab results to natural settings is valuable. “This provocative insight explains why the origin-of-life field has been short on progress over the past half-century”. --Shapiro, Robert. 4 August 2011. Life's beginnings. Nature, Vol. 476, pp. 30-31.

An interview with Steven A. Benner, Ph.D. Chemistry, Harvard, prominent origin-of-life researcher and creator of the Foundation for Applied Molecular Evolution, was posted on Huffington Post on December 6, 2013. In it he said, “We have failed in any continuous way to provide a recipe that gets from the simple molecules that we know were present on early Earth to RNA.” “The first paradox is the tendency of organic matter to devolve and to give tar. If you can avoid that, you can start to try to assemble things that are not
tarry, but then you encounter the water problem, which is related to the fact that every interesting bond that you want to make is unstable, thermodynamically, with respect to water. If you can solve that problem, you have the problem of entropy, that any of the building blocks are going to be present in a low concentration; therefore, to assemble a large number of those building blocks, you get a gene-like RNA -- 100 nucleotides long -- that fights entropy. And the fourth problem is that even if you can solve the entropy problem, you have a paradox that RNA enzymes, which are maybe catalytically active, are more likely to be active in the sense that destroys RNA rather than creates RNA.”

Two prominent “origin-of-life” researchers have laid out their vision of how life arose from chemicals: (see my video on this at https://www.youtube.com/watch?v=8p_Sc2zCj6s&feature=youtu.be)

1. **Start with a molecule capable of copying itself.** "The first protocells contained RNA (or something similar to it) and little else".

2. **A fatty acid bubble forms around the self-copying molecule**, which then makes a copy of itself with nucleotides that filter through the bubble. That leaves a double-strand RNA in the bubble. "Molecules as large as nucleotides can in fact easily slip across membranes as long as both nucleotides and membranes are simpler, more ‘primitive’ versions of their modern counterparts."

3. **The double-strand RNA separates into single strands** if it is heated just right. That might happen in an icy pond next to a volcano, where the bubble could circulate between the ice and the hot rocks. “The sudden heating would cause a double helix to separate into single strands. Once back in the cool region, new double strands, copies of the original one, could form”. At the same time, the bubble is picking up fatty acid molecules and growing. Adding fatty acids makes the membrane grow longer, and a little shaking breaks the bubble into some smaller bubbles, each with some of the self-copying molecules inside, so you have “cell division”.

4. “At some point some of the RNA sequences mutated, becoming ribozymes”. The “ribozymes (folded RNA molecules analogous to protein-based enzymes) arise and take on such jobs as speeding up reproduction and strengthening the protocell’s membrane. Consequently, protocells begin to reproduce on their own.” “Other ribozymes catalyze metabolism — chains of chemical reactions that enable protocells to tap into nutrients from the environment.”

5. “Next, the organisms might have added protein-making to their bag of chemical tricks.” “Complex systems of RNA catalysts begin to translate strings of RNA letters (genes) into chains of amino acids (proteins).” “Proteins take on a wide range of tasks within the cell.”

6. **Protein-based catalysts, or enzymes, gradually replace most ribozymes.** “Proteins would have then taken over RNA’s role in assisting genetic copying and metabolism.”

7. “Later, the organisms would have ‘learned’ to make DNA”. “Thanks to its superior stability, DNA
takes on the role of primary genetic molecule. RNA’s main role is now to act as a bridge between DNA and proteins.”


They are currently working on steps 1 and 2 in the laboratory.

Let’s compare their “origin-of-life” ideas to the plans of children making a spaceship out of a cardboard box:

1. Get a large box. Draw controls and gauges on the inside. Cut out a door and round windows. Attach cardboard fins to the sides.

2. Put a chair in the box, sit down and start the countdown.

3. Launch the spaceship towards the Moon. Using the Moon’s gravity, fling the spaceship to the outer reaches of the solar system, constantly accelerating with the impulse engines.

4. After passing Neptune, engage the warp drive in a direction perpendicular to the plane of the ecliptic to avoid the Kuiper belt.

The children are currently working on steps 1 and 2, and are as close to demonstrating their vision as the “origin-of-life” researchers are.

Franklin M. Harold has been studying cell biology for over 50 years. Researcher William F. Martin called him “a grand master of cellular workings and bioenergetics” in a BioEssays book review. Harold Is Professor Emeritus, Department of Biochemistry and Molecular Biology, Colorado State University, Fort Collins, Colorado, and Affiliate Professor, Department of Microbiology, University of Washington Health Sciences Center, Seattle, Washington. In a chapter titled “Ultimate Riddle - Origin of Cellular Life” in his 2014 book “In Search of Cell History: The Evolution of Life’s Building Blocks” published by the University of Chicago Press, he examined at length the current state of origin-of-life research. These are some of his conclusions:
Over the past sixty years, dedicated and skillful scientists have devoted much effort and ink to the origin of life, with remarkably little to show for it.

[Quoting Radu Popa, 2004,] “So far, no theory, no approach, no set of formulas, and no blackboard scheme has been found satisfactory in explaining the origin of life.” At the conclusion of a century of science, whose great glory is the discovery of how living things work, there is something downright disgraceful about this confession, an intimation that despite our vast knowledge and clever technology there may be questions that exceed our grasp. But its truth is indisputable. A survey of the literature devoted to the beginnings of life leaves one in no doubt that all the critical questions remain open.

For the present, we are in limbo. The natural path from simple cosmic molecules to cells, from chemistry to biology, remains undiscovered. …where we should look for illumination I cannot say.

The difference between a puzzle and a mystery is that the former can be solved within the framework of known principles, while the latter cannot. In the end, the origin of life remains a mystery that passes understanding. …we may still be missing some essential insight.

Scientists’ refusal to grant some space to the mind and will of God may strike the majority of mankind as arbitrary and narrow-minded, but it is essential if the origin of life is to remain within the domain of science. A nudge from the divine would help us clear some very high hurdles; but once that possibility is admitted there will be no place to stop, and soon the settled principle of evolution by natural selection would be thrown into doubt.

Life’s origin has been most ardently pursued by chemists, apparently on the unspoken premise that once the molecular building blocks are on hand, cellular organization will take care of itself. That premise is surely incorrect. Modern cells do not assemble themselves from preformed constituents, and they would not have done so in the past.

…the notion that the first protocells assembled themselves spontaneously from a generous menu of precursor molecules conveniently supplied by abiotic chemistry (or imported by way of comets and meteorites) is now widely recognized as simplistic and effectively has been abandoned. Among its most cogent critics are experienced masters of the art of prebiotic synthesis, who are well aware of the shortcomings of many of the proposed routes and of the wide gap between the range of molecules that living things employ and those that can be made in the laboratory.

…the fact is that chemists have encountered insuperable difficulties in generating a working replicator, and many have expressed doubts about the project. It is at least incumbent upon proponents of its spontaneous genesis to explain how the “correct” monomers could have been selected from the “prebiotic clutter,” how a sufficient concentration of monomers was maintained, where the energy came from, and how the replicator evaded the tendency of polymers to break down by hydrolysis.

A decade ago, a hot topic for debate was which came first, replication or metabolism? That issue has not been resolved but has been largely superseded by the recognition that neither of them, by itself, can take one far along the road to life. It is simply not credible to claim that anything beyond the most rudimentary kind of replication or metabolism could have arisen in free solution.
In truth, there is presently no persuasive hypothesis to account for the emergence of protocells from the primal chaos.

The crucial step in the transfiguration of protocells into true cells will have been the invention of translation and the genetic code. …the origin of the principles that govern cellular operations today—genes specifying proteins and all the apparatus that this requires—remains quite unknown and points beyond the capacity of present-day biochemistry and biophysics.

In a lecture in 2014, famous “origin-of-life” researcher Jack Szostak showed this slide:

He said these problems were known 15 or 20 years ago. Regarding the third problem, the RNA backbone is always the same in living things. But making it with chemicals in a lab leads to haphazard forms. Szostak believes this will not be much of an obstacle after all. The last problem on the list is about magnesium ions. They are required for copying RNA, but they also degrade RNA and destroy membranes. His lab’s experiments found that adding citrate to the magnesium ions prevents the destruction. That is hardly surprising since citrate is essential to cellular metabolism, but citrate is not a plausible prebiotic chemical because it is a product of living things. He did not mention that in the lecture.

And so the faithful continue to strive, year after year, decade after decade, to solve the impossible mystery. As long as evolutionists can say that scientists are working on it, the rest of the world doesn’t notice that the research is stalled where it started.
If you want to know about origin of life research from an expert in synthetic organic chemistry, you can’t do any better than Dr. James M. Tour, Ph.D. in synthetic organic and organometallic chemistry from Purdue with postdoctoral training in synthetic organic chemistry at the University of Wisconsin and Stanford, currently Professor of Chemistry, Computer Science, Materials Science and NanoEngineering at Rice University.

He answers the most important questions about origin of life from chemicals in this video:
https://www.youtube.com/watch?v=r4sP1E1Jd_Y

For more depth, see his 2016 lecture on YouTube. (His analysis starts at 57:06 of the video)
https://www.youtube.com/watch?v=_zQXgJ-dXM4

Dr. James M. Tour says, “From a synthetic chemical perspective, neither I nor any of my colleagues can fathom a prebiotic molecular route to construction of a complex system. We cannot even figure out the prebiotic routes to the basic building blocks of life: carbohydrates, nucleic acids, lipids, and proteins. Chemists are collectively bewildered. Hence I say that no chemist understands prebiotic synthesis of the requisite building blocks, let alone assembly into a complex system. That’s how clueless we are. I have asked all of my colleagues - National Academy members, Nobel Prize winners - I sit with them in offices. Nobody understands this. So if your professors say it’s all worked out, if your teachers say it’s all worked out, they don’t know what they’re talking about.” “We have no idea how the molecules that compose living systems could have been devised such that they would work in concert to fulfill biology’s functions... Those that say, ‘Oh this is well worked out’, they know nothing - nothing - about chemical synthesis - nothing.”

How long would it be before natural forces (nothing living) screwed the screw into the hole in the wood? That's right - never; natural forces are not organized enough.

It would be immensely harder for chemicals to organize themselves into a biological machine without a living cell guided by a code like DNA, or a trained biologist.

**Gradual change versus leaps**

There are two versions of evolution theory. The main version proposes that many tiny changes over millions of years made new creatures. It is called the Modern Synthesis or Neo-Darwinian evolution.

But "major transitions in biological evolution show the same pattern of sudden emergence of diverse forms at a new level of complexity." "The principal 'types' seem to appear rapidly and fully equipped with the signature features of the respective new level of biological organization. No intermediate 'grades' or intermediate forms between different types are detectable."

Since the fossil record does not show tiny changes between one type of creature and another, a few evolutionists proposed a modification to evolution theory. It says that change occurred by occasional leaps (punctuated equilibrium), not gradually. However, each hypothetical beneficial mutation could only make a slight change. Any more than that would be so disruptive as to cause death. So punctuated equilibrium is not really about big leaps. It envisions a lot of slight changes over thousands of years, then nothing happens for millions of years. Evolutionists say with a straight face that no fossils have been found from a leap because thousands of years is too fast in the billions of years of "geologic time" to leave any. On the other hand, without fossils there is no evidence that any leaps ever happened, and of course there is no evidence that leaps or gradual changes beyond variation are happening today in any of the millions of species that still exist.
Waiting for mutations

Evolutionists believe that humans share a common ancestor with the great apes of Africa. They say "hominins" are the human lineage arising from that ancestor. A 2015 paper calculated how long it would take to change the nucleotides in hominin DNA. These excerpts from it will shock you:

“Given the unique capabilities of humans, an evolving hominin population (as would give rise to modern man) would need to establish a great deal of new information.”

“It is estimated that it only took six million years for the chimp and human genomes to diverge by over 5%, representing about 150 million nucleotide differences.”

“The gene can range in size from about 1,000 to more than one million nucleotides long. A typical human gene is roughly 50,000 nucleotides long. A new gene is thought to arise from a previously existing gene, with the mutation/selection process establishing mutations within a long text string that is already established and functional.”

“It is now generally recognized that beneficial mutations are rare, and that high-impact beneficial mutations are extremely rare. In higher life forms where population sizes are modest, the mutation rate per nucleotide per generation is normally extremely low (about $10^{-8}$). This means that the waiting time for a specific nucleotide within single chromosomal lineage would be 100 million generations.”

“We simulated a classic pre-human hominin population of at least 10,000 individuals, with a generation time of 20 years, using the numerical simulation program Mendel’s Accountant (Mendel version 2.4.2, now being released as 2.5).”

“Biologically realistic numerical simulations revealed that a population of this type required inordinately long waiting times to establish even the shortest nucleotide strings. To establish a string of two nucleotides required on average 84 million years. To establish a string of five nucleotides required on average 2 billion years. We found that waiting times were reduced by higher mutation rates, stronger fitness benefits, and larger population sizes. However, even using the most generous feasible parameter settings, the waiting time required to establish any specific nucleotide string within this type of population was consistently prohibitive.”
“Even given very substantial fitness effects, the waiting time for a specific point mutation ranged between 1.5 and 15.9 million years” which “is very sobering, since it is estimated that mankind evolved from a chimp-like creature in just 6 million years.”

“As string length increased linearly, the increase in waiting time was of an exponential nature. When there were as many as six nucleotides in the string, the average waiting time (4.24 billion years) approached the estimated age of the earth. When there were eight nucleotides in the string, the average waiting time (18.5 billion years), exceeded the estimated age of the universe.”

“Our results generally represent best-case scenarios in terms of minimizing waiting time. When we use more realistic parameter settings for our simulations, we consistently get much longer waiting times.”

“When a population faces a specific evolutionary challenge, a specific fix is needed, and it must arise in a timely fashion. Positive selection cannot generally begin to resolve an evolutionary challenge until just the right mutation (or mutations) happens at just the right position (or positions). Selection for the required trait can only begin after the mutation (or mutations) result in a substantial (selectable) improvement in total biological functionality.”

“The creation and fixation of a string of three (requiring at least 380 million years) would be extremely untimely adaptation in the face of any type of pressing evolutionary challenge (and trivial in effect), in terms of the evolution of modern man” who has “a genome with over three billion nucleotides.”

“We need multiple point mutations to arise on the same short strand of DNA, which is very difficult. While a population is waiting (through deep time) for the correct string to arise, genetic drift is systematically eliminating almost all the string variants. Nearly all of the time there will be essentially zero strings anywhere in the population that are even close to the target string.”

“It is widely thought that a larger population size can eliminate the waiting time problem. While our simulations show that larger populations do help reduce waiting time, we see that the benefit of larger population size produces rapidly diminishing returns. When we increase the hominin population from 10,000 to 1 million, the waiting time for creating a string of five is only reduced from two billion to 482 million years. This amount of time approximates the estimated time required for the evolution of worm-like creatures into people. When we extrapolate our data to a population size of ten million we still get a waiting time of 202 million years. Even when we extrapolate to a population size of one billion we still have a waiting time of 40 million years.”

“A bigger population increases the number of mutations arising per generation, but does not increase the number of mutations per short DNA strand (mutation density). To create a complete set of linked mutations requires many mutations arising on the same short stretch of a given DNA molecule.”

“Numerous other researchers have come to similar conclusions. The long waiting times we report here are even supported indirectly by the papers that have argued against a serious waiting time problem. When examined carefully, those papers indicate that for a hominin-type population, waiting times are as long or
even longer than we report here.”

It is true that “during the waiting time period for a functional string to be established at a given location, other beneficial mutational strings can be happening in other parts of the genome.”

“However, those other strings are not likely to meet the same specific evolutionary need that our target string can meet. Evolution often needs a specific fix to a specific problem, and that fix must be timely in order to retain relevance.”

“Even if all of the ~20,000 genes in the hominin genome were already poised for a significant enhancement and all of them were waiting for their own specific string, each one of those potential enhancements would have its own severe waiting time problem.”

“Furthermore, this would be happening in the context of countless nearly-neutral deleterious mutations throughout the genome which would drift to fixation within the same deep time. Unless there was very strong purifying selection operating for all the nucleotides in the general region of the string, the context of the string would be erased long before the string itself actually arose.”

“The waiting time problem becomes very severe when more than one mutation is required to establish a new function. This is a very interesting theoretical dilemma.”-- Sanford, John, Wesley Brewer, Franzine Smith and John Baumgardner. December 2015. The waiting time problem in a model hominin population. Theoretical Biology and Medical Modelling, Vol. 12, No. 1, Article 18, 28 pages, DOI: 10.1186/s12976-015-0016-z.

Fossil record
Evolution is all about constant change, whether gradual or in leaps. Consider a cloud in the sky: it is constantly changing shape due to natural forces. It might look like, say, a rabbit now, and a few minutes later appear to be, say, a horse. In between, the whole mass is shifting about. In a few more minutes it may look like a bird. The problem for evolution is that we never see the shifting between shapes in the fossil record. All fossils are of complete animals and plants, not works in progress "under construction". That is why we can give each distinct plant or animal a name. If evolution's continuous morphing were really going on, every fossil would show change underway throughout the creature, with parts in various stages of completion. For every successful change there should be many more that lead to nothing. The whole process is random trial and error, without direction. So every plant and animal, living or fossil, should be covered inside and out with useless growths and have parts under construction. It is a grotesque image, and just what the theory of evolution really predicts. Even Charles Darwin had a glimpse of the problem in his day. He wrote in his book On the Origin of Species: "The number of intermediate varieties which have formerly existed on Earth must be truly enormous. Why then is not every geological formation and every stratum full of such intermediate links? Geology assuredly does not reveal any such finely graduated organic chain; and this, perhaps, is the most obvious and gravest objection which can be urged against my theory." The more fossils that are found, the better sense we have of what lived in the past. Since Darwin’s day, the number of fossils that have been collected has grown tremendously, so we now have a pretty accurate picture. The gradual morphing of one type of creature to another that evolution predicts is nowhere to be found. There should have been millions of transitional creatures if evolution were true. In the "tree of life" that evolutionists have dreamed up, gaps in the fossil record are especially huge between single-cell creatures, complex invertebrates (such as snails, jellyfish,
trilobites, clams, and sponges), and what evolutionists claim were the first vertebrates, fish. In fact, there are no transitional fossils at all between single-celled creatures and complex invertebrates, nor between complex invertebrates and fish. That alone is fatal to the theory of evolution. The fossil record shows that evolution never happened.

What fossil evidence is there for the evolutionist vision for the origin of life? Nothing, except for shapes that might have been cells or something else. Everyone agrees that the big surprise is the sudden appearance of fossils above the bedrock in the Cambrian Explosion.

The fossils of the Cambrian Explosion are complex invertebrates, sea creatures like trilobites, sponges, worms, jellyfish, sea urchins, sea lilies, mollusks, brachiopods (lamp shells), sea cucumbers, and swimming crustaceans, such as Opabinia, 3 inches long (8 cm) with 5 eyes and a long claw arm, and
Anomalocaris, 3 feet long (91.5 cm), and the top predator in the Cambrian environment.

“Darwin argued that the incompleteness of the fossil record gives the illusion of an explosive event, but with the eventual discovery of older and better-preserved rocks, the ancestors of these Cambrian taxa would be found. Studies of Ediacaran and Cambrian fossils continue to expand the morphologic variety of clades, but the appearance of the remains and traces of bilaterian animals in the Cambrian remains abrupt.” (Erwin et. al.)

Abrupt indeed. Here is “the ancestor of all animals” supposedly from 14 million years before even the Cambrian Explosion: “Geologists have discovered the first ancestor on the family tree that contains most animals today, including humans. The worm-like creature, Ikaria wariootia, is the earliest bilaterian, or organism with a front and back, two symmetrical sides, and openings at either end connected by a gut. It was found in Ediacaran Period deposits in Australia and was 2 to 7 millimeters long, with the largest the size of a grain of rice.” - Science Daily at https://www.sciencedaily.com/releases/2020/03/200323152108.htm
In the classification diagram biologists use, these animals are so unrelated to each other that they are in different classes or even phyla. From time to time evolutionists announce with great fanfare that they have gotten a colony of bacteria to eat something they could not eat before, or some other small variation. These changes are always below the family level on the diagram. If evolution were true, there would have been ancestors and transitional creatures between each genus, family, order, class, and phylum in the layers below the Cambrian Explosion. But there are no fossils for any of these.

What to do? A team of evolutionists solved this problem using their most effective tool - storytelling. First they assumed evolution occurred. Then they estimated how fast it should have happened, and decided that the creatures in the Cambrian Explosion had been evolving for over 250 million years before any showed up in the rocks as fossils! "We estimate that the last common ancestor of all living animals arose nearly 800 million years ago and that the stem lineages leading to most extant phyla had evolved by the end of the Ediacaran (541 million years ago)." Yes, millions of generations of all kinds of creatures all over the world living, dying, evolving, without leaving any trace of their existence. Not only that, "from the early Paleozoic onward there is little addition of new phyla and classes". "Little high-level morphological innovation occurred during the subsequent 500 million years". Their story was published in the prestigious journal Science, and hailed as having solved a mystery challenging evolution theory all the way back to Darwin. --Erwin, Douglas H., Marc Laflamme, Sarah M. Tweedt, Erik A. Sperling, Davide Pisani, Kevin J. Peterson. 2011. The Cambrian Conundrum: Early Divergence and Later Ecological Success in the Early History of Animals. Science, Vol. 334, pp. 1091-1097.

Fossil compound eyes from the Lower Cambrian, where the first complex creatures suddenly appear in the fossil record, have been found in the Emu Bay Shale of South Australia. The fossils are supposedly about 515 million years old. They may be corneas of Anomalocaris that were shed during molting. The lenses are packed tighter than Lower Cambrian trilobite eyes, "which are often assumed to be the most powerful visual organs of their time." Notice that the lenses in the picture are different sizes. It is the same in the fossils. Each eye has "over 3,000 large ommatidial lenses". "The arrangement and size-gradient of lenses creates a distinct [forward] 'bright zone'... where the visual field is sampled with higher light sensitivity (due to larger ommatidia) and possibly higher accuracy". This indicates "that these eyes belonged to an active predator that was capable of seeing in low light." "The eyes are more complex than those known from contemporaneous trilobites and are as advanced as those of many living forms" today, such as the fly in this picture, "revealing that some of the earliest arthropods..."
possessed highly advanced compound eyes." When the earliest form is the most complex, there is no evolution.

This tiny fish (a little over an inch long, or 3 cm) is Haikouichthys. Its fossils have also been found in the Lower Cambrian. This "first fish" has a spine and spinal cord, eyes, gills, fins, scales, mouth, etc., though no jaw, like a lamprey. About 500 were found buried together.

This is Guiyu, a fossil fish that "represents the oldest near-complete gnathostome (jawed vertebrate)." It measures about 15 inches long, or 37 cm. Clearly, the earliest fish were as much fish as today's fish. Guiyu is "a representative of modern fishes" from the Silurian, before the so-called "age of fishes" (Devonian). In the evolutionist's mind, "a whole series of major branching events... must have taken place well before the end of the Silurian." "A significant part of early vertebrate evolution is unknown."
Coelacanth disappeared from the fossil record with the last of the dinosaurs. That was supposedly 65 million years ago. In the early 1900s, evolutionists touted it as the first walking fish, the transition between fish and tetrapods. That is, until 1938 when one was found alive and unable to walk. Evolution theory says that pressures from competition and the environment force changes over time. In chapter 9 of his book, Darwin wrote of ancestor species in general: "If, moreover, they had been the progenitors of these orders, they would almost certainly have been long ago supplanted and exterminated by their numerous and improved descendants." Here is a coelacanth today, alive and unchanged, like many "living fossils". Where is the evolution?

Evolutionists tell us this dragonfly has not shown up in the fossil record for 250-300 million years! Dozens of the Ancient Greenling Damselfly live near Melbourne, Australia. "The damselfly, part of the dragonfly group Odonata, is the only living representative of the family Hemiphlebiidae. Its ancient predecessors are found solely in 250-300 million-year-old fossil records from Brazil to Russia." --Smith, Bridie. January 5, 2010. Found: fossil-linked, listed damselfly. www.theage.com.au (newspaper website)
This is a drawing of a supposed predecessor, Protozygoptera. With a wingspan of under 6 cm, it is the earliest damselfly-like insect ever found and "the origin of modern dragonflies". Its fossil wing was found in rocks of the Upper Carboniferous which evolutionists think are about 300 million years old. As with many creatures, dragonflies appear suddenly in the fossil record, fully formed. Damselflies living today look like Protozygoptera; there are no transitional intermediates and there was no evolution. -- Jarzembowski, E.A., A. Nel. 2002. The earliest damselfly-like insect and the origin of modern dragonflies (Insecta: Odonatoptera: Protozygoptera). Proceedings of the Geologists' Association, Vol. 113, pp. 165-169.

Evolutionists always point to Archaeopteryx as the great example of a transitional creature, appearing to be part dinosaur and part bird. However, it is a fully formed, complete animal with no half-finished components or useless growths. Most people know "the stereotypical ideal of Archaeopteryx as a physiologically modern bird with a long tail and teeth". Research now "shows incontrovertibly that these animals were very primitive". "Archaeopteryx was simply a feathered and presumably volant [flying] dinosaur. Theories regarding the subsequent steps that led to the modern avian condition need to be reevaluated." --Erickson, Gregory, et al. October 2009. Was Dinosaurian Physiology Inherited by Birds? Reconciling Slow Growth in Archaeopteryx. PLoS ONE, Vol. 4, Issue 10, e7390.

"Archaeopteryx has long been considered the iconic first bird." "The first Archaeopteryx skeleton was found in Germany about the same time Darwin's Origin of Species was published. This was a fortuitously-timed discovery: because the fossil combined bird-like (feathers and a wishbone) and reptilian (teeth, three fingers on hands, and a long bony tail) traits, it helped convince many about the veracity of evolutionary theory." "Ten skeletons and an isolated feather have been found." "Archaeopteryx is the poster child for evolution." But "bird features like feathers and wishbones have recently been found in many non-avian dinosaurs". "Microscopic imaging of bone structure... shows that this famously feathered fossil grew much
slower than living birds and more like non-avian dinosaurs." "Living birds mature very quickly and grow really, really fast", researchers say. "Dinosaurs had a very different metabolism from today's birds. It would take years for individuals to mature, and we found evidence for this same pattern in Archaeopteryx and its closest relatives". "The team outlines a growth curve that indicates that Archaeopteryx reached adult size in about 970 days, that none of the known Archaeopteryx specimens are adults (confirming previous speculation), and that adult Archaeopteryx were probably the size of a raven, much larger than previously thought." "We now know that the transition into true birds -- physiologically and metabolically -- happened well after Archaeopteryx." --October 2009. Archaeopteryx Lacked Rapid Bone Growth, the Hallmark of Birds. American Museum of Natural History, funded science online news release.

What evolutionists now know for sure is that their celebrity superstar was not a transitional creature after all. Wow! OMG. They better find a new one fast…

How about the Platypus? They could call it a transitional creature between ducks and mammals. The furry platypus has a duck-like bill, swims with webbed feet, and lays eggs.
As for the birds in the evolutionary tree, evolutionists just placed living and extinct species next to each other to make the bird series.
Early bird: Fossils of Archaeornithura meemannae were found in very Early Cretaceous strata in China. In the evolutionary tree (above) it sits at the bottom between Archaeopteryx and Confuciusornis. Do you see anything primitive here? “The fossils’ specialized anatomy suggests that key factors in birds’ long-term success, such as expert flying ability and rapid growth rates, arose surprisingly early in avian evolution” “and make it almost certain that the origin of the lineage was much older still.”—Wang, Min, et al. 5 May 2015. The oldest record of ornithuromorpha from the early cretaceous of China. Nature Communications, 6:6987, DOI:10.1038/ncomms7987
The famous horse series; it looks great, doesn't it? But each of the supposed ancestors is a complete animal. They are not full of failed growths and there are no parts under construction. There are many more differences between each type of animal than their size and the number of toes. Every change in structure, function, and process would have had to develop through random trial-and-error if evolution were true, but no transitional forms have been found. The fossils have not caught any changes in the midst of being created, even though they should have occurred over long periods of time. In the late 1800’s, evolutionists simply placed living and extinct species next to each other to make the horse series. However, evolutionists no longer believe there was the direct ancestry (orthogenesis) shown in this chart...
Evolutionists now imagine it to be this branching bush. Many of the supposed ancestors apparently lived at the same time, especially after Mesohippus. It is doubtful that Hyracotherium (formerly Eohippus) has any connection to horses. So the progression of toes is an illusion that was useful when the theory of evolution was first being sold to the public. Several hundred species are extinct; only one genus, Equus, survives.

Rather than play the evolutionist's game and try to untangle varieties of one animal from another in the horse bush, let's be clear on what we are talking about. Biologists divide all living things into groups and subgroups. The basic framework is the Linnaean system of taxonomy, published in Linnaeus' expanded 10th edition of *Systema Naturae* in 1758. That was a century before Darwinism, and it was never intended to show that one creature morphed into another. It just grouped animals with similar characteristics. Once they seized control of the study of biology, evolutionists took over the Linnaean system and have tinkered with it ever since to fit their belief that animals transform over time. Birds are at the class level (Aves), which has 23 subgroups below it called orders and 142 subgroups below them called families. All the members of the evolutionist's horse bush, living and extinct, are in one family, (Equidae). To get up to the class level where birds are, you pass the order Perissodactyla (browsing and grazing mammals with an odd number of toes) to the class mammals (Mammalia). Other examples of families include cats (Felidae), dogs (Canidae), deer (Cervidae), bears (Ursidae), squirrels (Sciuridae), and cattle (Bovidae).

So the level of "evolution" in the horse bush is within a family, which is pretty low and has no relevance to the main issue, macroevolution. But evolutionists have always used the varieties in the family Equidae to entice people to imagine that all animals morph from one kind to another. Look at their tree of life for mammals, the class Mammalia.
That’s right; they want us to believe that elephants and manatees, primates and tree shrews had common ancestors. They show you three toes changing to one toe, browsing teeth changing to grazing teeth in the horse bush so that you will believe that reindeer and whales morphed from common ancestors. That is why the horse series is an evolutionist icon.
The "Tree of Life" is falling

New discoveries are bringing down the whole notion of a "tree of life", as passages from an article in the mainstream magazine New Scientist show:26 "The tree-of-life concept was absolutely central to Darwin's thinking, equal in importance to natural selection, according to biologist W. Ford Doolittle of Dalhousie University in Halifax, Nova Scotia, Canada. Without it the theory of evolution would never have happened." "For much of the past 150 years, biology has largely concerned itself with filling in the details of the tree. 'For a long time the holy grail was to build a tree of life,' says Eric Bapteste, an evolutionary biologist at the Pierre and Marie Curie University in Paris, France. A few years ago it looked as though the grail was within reach."

"But today the project lies in tatters, torn to pieces by an onslaught of negative evidence. Many biologists now argue that the tree concept is obsolete and needs to be discarded. 'We have no evidence at all that the tree of life is a reality,' says Bapteste. That bombshell has even persuaded some that our fundamental view of biology needs to change." "The problems began in the early 1990s when it became possible to sequence actual bacterial and archaeal genes". "As more and more genes were sequenced, it became clear that the patterns of relatedness could only be explained if bacteria and archaea were routinely swapping genetic material with other species - often across huge taxonomic distances". "There's promiscuous exchange of genetic information across diverse groups,' says Michael Rose, an evolutionary biologist at the University of California, Irvine." "As early as 1993, some were proposing that for bacteria and archaea the tree of life was more like a web. In 1999, Doolittle made the provocative claim that 'the history of life cannot properly be represented as a tree'.13 ‘The tree of life is not something that exists in nature, it's a way that humans classify nature,' he says."

"Recent research suggests that the evolution of animals and plants isn't exactly tree-like either." "A team at the University of Texas at Arlington found a peculiar chunk of DNA in the genomes of eight animals - the mouse, rat, bushbaby, little brown bat, tenrec, opossum, anole lizard and African clawed frog - but not in 25 others, including humans, elephants, chickens and fish. This patchy distribution suggests that the sequence must have entered each genome independently by horizontal transfer."34 "HGT [horizontal gene transfer] has been documented in insects, fish and plants, and a few years ago a piece of snake DNA was found in cows." "Biologist Michael Syvanen of the University of California, Davis... compared 2000 genes that are common to humans, frogs, sea squirts, sea urchins, fruit flies and nematodes. In theory, he should have been able to use the gene sequences to construct an evolutionary tree showing the relationships between the six animals. He failed."

"The problem was that different genes told contradictory evolutionary stories." "We've just annihilated the tree of life. It's not a tree any more, it's a different topology [design or shape] entirely,' says Syvanen." "It is clear that the Darwinian tree is no longer an adequate description of how evolution in general works." "Rose goes even further. 'The tree of life is politely buried, we all know that,' he says. 'What's less accepted is that our whole fundamental view of biology needs to change.' Biology is vastly more complex than we thought, he says." "The tree of life was useful,' says Bapteste. 'It helped us to understand that evolution was real. But now we know more about evolution, it's time to move on.'"26

Evolutionists write: "The meaning, role in biology, and support in evidence of the universal 'Tree of Life' (TOL) are currently in dispute. Some evolutionists believe... that we can with available data and methods reconstruct this tree quite accurately, and that we have in fact done so, at least for the major groups of organisms. Other evolutionists... do not doubt that some... branching tree can in principle represent the
history of all life. Still other evolutionists, ourselves included, question even this most fundamental belief, that there is a single true tree." "Darwin claimed that a unique inclusively hierarchical pattern of relationships between all organisms based on their similarities and differences was a fact of nature." Yet "the only data sets from which we might construct a universal hierarchy including prokaryotes, the sequences of genes, often disagree and can seldom be proven to agree. Hierarchical structure can always be imposed on or extracted from such data sets by algorithms designed to do so, but at its base the universal TOL rests on an unproven assumption about pattern that, given what we know about process, is unlikely to be broadly true." There is "the possibility that hierarchy is imposed by us rather than already being there in the data."12 "The finding that, on average, only 0.1% to 1% of each genome fits the metaphor of a tree of life overwhelmingly supports the... argument that a single bifurcating tree is an insufficient model to describe the microbial evolutionary process." "When chemists or physicists find that a given null hypothesis can account for only 1% of their data, they immediately start searching for a better hypothesis. Not so with microbial evolution, it seems, which is rather worrying. Could it be that many biologists have their heart set on finding a tree of life, regardless of what the data actually say?"16 "A single, uninterrupted TOL does not exist, although the evolution of large divisions of life for extended time intervals can be adequately described by trees." "Tree topology tends to differ for different genes."26 The genomes of all life forms are collections of genes with diverse evolutionary histories." "The TOL concept must be substantially revised or abandoned because a single tree topology or even congruent topologies of trees for several highly conserved genes cannot possibly represent the history of all or even the majority of the genes." "The strong TOL hypothesis, namely, the existence of a 'species tree' for the entire history of cellular life, is falsified by the results of comparative genomics." "So the TOL becomes a network, or perhaps most appropriately, the Forest of Life that consists of trees, bushes, thickets..., and of course, numerous dead trunks and branches."22

Kevin Peterson, a molecular paleobiologist at Dartmouth College, "has been reshaping phylogenetic trees for the past few years, ever since he pioneered a technique that uses short molecules called microRNAs to work out evolutionary branchings. He has now sketched out a radically different diagram for mammals: one that aligns humans more closely with elephants than with rodents."

"I've looked at thousands of microRNAs, and I can't find a single example that would support the traditional tree,' he says. 'The technique 'just changes everything about our understanding of mammal evolution'."

"And as he continues to look, he keeps uncovering problems, from the base of the animal tree all the way up to its crown."

"Peterson and his team are now going back to mammalian genomes to investigate why DNA and microRNAs give such different evolutionary trajectories. 'What we know at this stage is that we do have a very serious incongruence,' says Davide Pisani, a phylogeneticist at the National University of Ireland in Maynooth". -- Dolgin, Elie. 28 June 2012. Rewriting Evolution. Nature, Vol.486, pp.460-462.

This is huge. Professional evolutionists spend most of their time adjusting their "tree of life". They have fun thinking how one type of creature "developed" into another type, how abilities "arose" or "emerged" here and there, but that is just playing at science. These articles show that, while they still cling to their belief in evolution, the truth is becoming inescapable to a few evolutionists who dare to look at the facts: Darwin was wrong; microbes, insects, plants, and animals do not fit a "tree of life" with linear descent. There is no pattern to their similarities and differences because each one is a uniquely designed, complete creature.
The big fudge
There were warnings of problems in the very "tree of life" diagrams evolutionists were fabricating. If you believed these diagrams of new forms arising from old forms, then you believed that parts can be lost from a creature and then exactly re-invented in the same creature millions of years later. And that might happen several times! Not only that, the same part might appear independently in unrelated creatures isolated from each other. For example, wings would have to have evolved completely independently four times: in insects, flying reptiles, birds, and bats.

When a creature produces light with chemicals it is called bioluminescence. "A remarkable diversity of marine animals and microbes are able to produce their own light, and in most of the volume of the ocean, bioluminescence is the primary source of light." "On land, fireflies are the most conspicuous examples, but other luminous taxa include other beetles, insects like flies and springtails, fungi, centipedes and millipedes, a snail, and earthworms." Evolutionists think bioluminescence evolved independently 40 to 50 separate times! --Haddock, Steven H.D., Mark A. Moline, James F. Case. 2010. Bioluminescence in the Sea. Annual Review of Marine Science, Vol. 2, pp. 443-493.

In another study, evolutionists concluded that the cecal appendix evolved independently at least 32 separate times in mammals. This gimmick is quite common in evolutionary "science".

Instead of heeding the warnings and scrapping the diagrams, they solved the problem by giving it a name: either "convergent" or "parallel" evolution (according to the situation), and it became standard in evolutionist writings. Now they just casually throw out statements like "convergent evolution is widespread across the mammal tree of life". --Helgen, Kristofer M. 28 October 2011. The Mammal Family Tree. Science, Vol. 334, pp. 458-459.

In their sales pitch to the public, evolutionists use the gimmick, "if a million monkeys typed randomly for millions of years, eventually one would type one of Shakespeare's sonnets", and people think "well, maybe...". How about the monkeys typing the same sonnet twice or more? It would be shocking if random mutation-natural selection produced any working part, let alone the same part twice or more from scratch. With convergent/parallel evolution, evolutionists could fudge any situation.

Perhaps the most brazen example of this can be seen in the "parallel evolution" of two types of mammals, placental (such as humans) and marsupial (such as kangaroos). Evolutionists tell us that each group evolved separately, yet many are remarkably similar, including cats, mice, wolves, moles, flying squirrels, anteaters, and others. This is whole animal duplication, not just an individual part.
A normal person would be embarrassed if their theory of random change made such claims, but you cannot embarrass a fanatic. The only reason for the "convergent/parallel evolution" maneuver is to force the "tree of life" framework onto a world of uniquely designed creatures.

Animal genomes have billions of DNA base pairs, but each species is so unique that a very short stretch, or "barcode" is all you need to identify them.

“For animals, the standard barcode is a 648 base pairs fragment of the mitochondrial gene cytochrome c oxidase 1 (COI). The use of COI for species identification and discovery has been extremely successful for the animal kingdom, and the BARCODE OF LIFE DATASYSTEMS database (BOLD) now contains more than 4.2 million validated barcodes.”—Coissac, Eric, Peter M. Hollingsworth, Sebastien Lavergne, Pierre Taberlet. 2016. From barcodes to genomes: extending the concept of DNA barcoding. Molecular Ecology, Vol. 25, pp. 1423–1428.
Design flaws?
Evolutionists say that while no intelligent designer would design anything with flaws, evolution is a mechanical process of trial and error, so evolution easily explains the existence of flaws in biology. In his 1986 book, "The Blind Watchmaker," the famous evolutionary biologist Richard Dawkins wrote about the eye, "Any engineer would naturally assume that the photocells would point towards the light, with their wires leading backwards towards the brain. He would laugh at any suggestion that the photocells might point away, from the light, with their wires departing on the side nearest the light. Yet this is exactly what happens in all vertebrate retinas." "This means that the light, instead of being granted an unrestricted passage to the photocells, has to pass through a forest of connecting wires, presumably suffering at least some attenuation and distortion". Evolutionist professors have told this to their students for years, while looking at them with perfect vision.

It is true that "images projected onto the retina have to pass several layers of randomly oriented and irregularly shaped cells with intrinsic scatterers before they reach the light-detecting photoreceptor cells". "When light passes through multiple layers of cells, as in tissues, images rapidly deteriorate".16

"The mammalian retina and the peripheral retina of humans and primates are organized in a seemingly reverse order with respect to the light path. This arrangement places the photoreceptors, responsible for light absorption, as the last cells in the path of light, rather than the first. Therefore, the incident light must propagate through five reflecting and scattering layers of cell bodies and neural processes before reaching the photoreceptors. This ‘inverted’ retinal structure is expected to cause blurring of the image and reduction in the photon flux reaching the photoreceptors, thus reducing their sensitivity."25

Then researchers took a closer look at glial cells in the eye. "Glial cells are the most abundant cell types in the central nervous system. They surround neurons to support and insulate them." "Müller cells, the major type of glial cells in the retina, are responsible for the homeostatic and metabolic support of retinal neurons. By mediating transcellular ion, water, and bicarbonate transport, Müller cells control the composition of the extracellular space fluid. Müller cells provide trophic and anti-oxidative support of photoreceptors and neurons and regulate the tightness of the blood-retinal barrier. By the uptake of glutamate, Müller cells are more directly involved in the regulation of the synaptic activity in the inner retina. This review gives a survey of recently discovered new functions of Müller cells. Müller cells are living optical fibers that guide light through the inner retinal tissue."37
Müller cells span the entire thickness of the retina. "Individual Müller cells act as optical fibers. Furthermore, their parallel array in the retina is reminiscent of fiberoptic plates used for low-distortion image transfer. Thus, Müller cells seem to mediate image transfer through the vertebrate retina with minimal distortion and low loss."\textsuperscript{16}

"The basic fiberoptic plate-like structure is especially characteristic for the retinae of all mammals with the exception of the fovea centralis of humans and higher primates, the region of our retina that is responsible for sharp vision; here, the photoreceptor cells are not obscured by any inner retinal layers at all."\textsuperscript{16}

"Every mammalian Müller cell is coupled to one cone photoreceptor cell (responsible for sharp seeing under daylight conditions, i.e., photopic vision) plus a species-specific number of rod photoreceptor cells (about 10 in both man and guinea pig), serving low light level (scotopic) vision."\textsuperscript{16}

"Light of relevant wavelengths for cone visual pigments is directed towards the cones, while light of wavelengths more suitable for rod vision is allowed to leak outside the Müller cells towards the surrounding rods."\textsuperscript{25}

"The fundamental features of the array of glial cells are revealed as an optimal structure designed for preserving the acuity of images in the human retina. It plays a crucial role in vision quality, in humans and in other species."\textsuperscript{24}

As usual, once we learn more about something in biology, evolutionist claims fall apart.

**Reliving evolution?**

An old evolution myth still hanging around is the notion that things that look like gill-slits, tails, etc. in developing human embryos show the embryo repeating all the stages of evolution. In 1866, Ernst Haeckel
proposed his "biogenetic law" (not to be confused with the law of biogenesis that says life only comes from life). His idea was that growing vertebrate embryos went through all the forms of their supposed evolutionary ancestors ("ontogeny recapitulates phylogeny"). He published drawings comparing growing embryos of a number of animals such as the pig, cat, salamander, etc. to growing human embryos. The similarities that he said he found helped persuade people to believe the theory of evolution. Scientists eventually discovered enough about embryology to quietly discard the "biogenetic law", but it was not until a careful photographic study of growing vertebrate embryos was conducted in 1997 that Haeckel's deceit was fully revealed. They found that his drawings were so far from reality that they could not have been done from the actual embryos. He must have faked them.

**Vanishing vestigials**

If evolutionists do not know what something does, they assume it is useless, as we will see with "junk DNA". One of their "proofs" of evolution has been that as creatures evolve, some body parts that were useful long ago become less important in the new and improved creatures. Eventually these parts no longer function and they shrink in size. Evolutionists called them "vestigial organs". In the late 1800s they made long lists of vestigial organs in humans, including the tonsils, pineal gland, thymus, and appendix. In the years since, advances in our understanding of anatomy and biology have knocked them off the lists one by one. Yet the notion lingers on that "there is something to it".

Over 70% of all primate and rodent taxonomic families contain species with an appendix. In 2009, researchers at Arizona State and Duke Universities reported that the little appendix is a "safe house" for important gut bacteria. If the intestine becomes infected and is forced to flush everything out (diarrhea), the good bacteria stored in the appendix are there to return the intestine to normal working order. "Maybe it's time to correct the textbooks," says William Parker, Ph.D., assistant professor of surgical sciences at Duke and the senior author of the study. "Many biology texts today still refer to the appendix as a vestigial organ."

The vestigial organ idea helped fool millions of people into believing the theory of evolution. Today, this "proof" is down the toilet.

**Violating the law**

The theory of Evolution violates two laws of science. The Second Law of Thermodynamics (law of increasing entropy) says that things which start out concentrated together spread out over time. If you heat one room in a house, then open the door to that room, eventually the temperature in the whole house evens out (reaches equilibrium). Knowing how far this evening-out has progressed at any point in time tells you the entropy. Entropy can measure the loss of a system's ability to do work. Entropy is also a measure of disorder, and that is where evolution theory hits an impenetrable wall. Natural processes proceed in only one direction, toward equilibrium and disorder. Things fall apart over time, they do not get more organized. We
can overcome this by making a machine and adding energy, but the Second Law prevents such a machine from assembling spontaneously from raw materials.

The **Law of Biogenesis** was established by Louis Pasteur three years after Darwin's book was published, and simply says that life only comes from life. Living cells divide to make new cells, and fertilized eggs and seeds develop into animals and plants, but chemicals never fall together and life appears. Evolutionists often call certain chemicals “the building blocks of life”, giving people the false impression that you just stack the building blocks together and you get life. No one has ever done that, including the famous 1953 Miller/Urey experiment where all they got were clumps of amino acids. Many people mistakenly think scientists have made life from chemicals in the lab, but they have not (though many have tried very hard). If one were to succeed, you would know about it. He would get every science award there is, be all over the news, and have movies, books, buildings, statues, and schools dedicated to him, so desperate are evolutionists on this matter. For something to be a law of science, it can never be found to have been violated, even once, over thousands of trials. No exceptions. A theory that violates two laws of science is in big trouble.

When confronted with the Second Law of Thermodynamics, evolutionists usually use two tricks to try to escape. The first is to state that "it only applies to closed systems, and biological creatures are open systems, so it doesn't affect evolution" (they actually intend to say isolated, not closed, but we know what they mean). The fact is that **the Second Law applies to all systems, open or closed, and to all actions and chemical reactions, from molecules to galaxies. The words "except for..." are not in this universal law.** A thermodynamics system is simply any part of the universe we want to study. If we are doing an experiment in a bottle, the inside of the bottle is our system and the bottle itself is the "walls" of the system. There are only 3 kinds of systems: if no energy or matter can pass through the walls, it is an **isolated** system; if energy can pass through but matter cannot, it is a **closed** system; if both energy and matter can pass through the walls, it is an **open** system. Now, it is true that the laws of thermodynamics and entropy are defined in terms of **isolated** systems, because that is the simplest way to express them. However, experts who write textbooks on the subject are quick to say that isolated systems do not occur in nature. For practical applications, a procedure called the Legendre Transform mathematically converts entropy to a variable called Gibbs free energy that is useful for working with real-world systems. Most natural systems are open, but it is convenient to model them as closed. For example, even though a bacterium is an open system, modeling it as a closed system makes it easier to understand chemical reactions in it.2,8

You are an open system. You eat food (which comes from outside yourself) and your body survives and grows. Evolutionists believe that all we need is an open system with sufficient energy flowing into it for evolution to succeed. If that were so, you could just stand right behind a jet engine as the aircraft prepares for takeoff, absorb that blast of energy, and evolve to a higher life form. In reality, of course, you would be incinerated because absorbing energy without a mechanism to convert it to a useful form and employ it is destructive or useless. The mechanism must be very specific. Sticking food in your ear will not work; it must go into your mouth and through the digestive system. And the mechanism must be in place and functioning first, before energy is added, or the energy is wasted. The "closed system" ploy is just an attempt to avoid dealing with the Second Law because the Law prohibits any functioning biological mechanism from falling together by pure chance, without assistance or plan, using only the properties of matter. Evolutionists also believe that chemical evolution could have started when a high-energy spark, like lightening, split molecules into radicals and ions that randomly combined with each other to produce the new, highly complex molecules their theory needs. They ignore the fact that, following the Second Law, it would also produce all other
possible combinations of molecules, and many of these chemicals would work against chemical evolution. Without a sufficient concentration of the pure chemicals needed, with the proper chirality and ratios to each other, the main result would be a useless tar like what the famous Miller/Urey experiment produced in 1953.

The second trick they use is to say that "when you freeze water, the disordered molecules become beautifully ordered ice crystals or snowflakes. If water can bypass the Second Law and organize its molecules by a natural process, why not the chemicals of life?" At room temperature, water molecules are bouncing off each other and you have water. When you take away heat and they freeze, water molecules stick to each other with weak molecular bonds, forming ice crystals and snowflakes because of the shape of the H₂O molecule. The same thing happens if you put a bunch of weak magnets in a jar and shake it. The magnets bounce around. When you stop, the magnets stick together. They are at a lower energy level. There is order, yet no complexity - just a simple repetitive structure that does not do anything. The Second Law is not bypassed or violated.

But guess what. Amino acid molecules that form proteins, and nucleotide molecules that form DNA and RNA resist combining at any temperature. To combine, they need the help of mechanisms in a living cell or a biochemist in an organic chemistry laboratory. It means that nothing happens in the primeval soup, the pond of chemicals where evolutionists believe life began.

DNA is made of only right-handed versions of nucleotides, while proteins are made of only left-handed versions of amino acids. Yet any random chemical reaction that produced nucleotides or amino acids would make an equal mix of left and right-handed versions of each. Even if the thousands of nucleotides needed to form a DNA molecule, or the hundreds of amino acids needed to form a protein molecule were able to combine from the mix, they would be a jumble of left and right-handed versions that could not function at all. This is the problem of "chirality", and evolutionists have never been able to solve it.

Ilya Prigogene coauthored a paper in 1972 that says in an open "system there exists a possibility for formation of ordered, low-entropy structures at sufficiently low temperatures. This ordering principle is responsible for the appearance of ordered structures such as crystals... Unfortunately this principle cannot explain the formation of biological structures." Prigogene won the Nobel Prize in Chemistry in 1977 for research on dissipative structures, such as tornados, for contributions to nonequilibrium thermodynamics, and for bridging the gap between biology and other sciences. Evolutionists wrongly claim he won for showing how thermodynamics could explain the formation of organized systems, from fluctuations in chaos, that lead to the origin of life. They thought he was their hero. Over thirty years later, nothing has come of it. There is no escape from the Second Law of Thermodynamics. It prohibits the spontaneous origin of life and macroevolution.

**Mindboggling complexity - proteins**

Even a single cell is not simple. In Darwin's day researchers looked at cells under the microscope and saw little balloons filled with goo they called protoplasm, so they thought cells were simple forms of life. 150 years later we know that there are many types of cells, and each cell is a little city at work.
Forty-three biologists introduced their Cell Atlas in the journal Science in May 2017, a “subcellular map of the human proteome”. “Cells are internally organized into compartments called organelles. The spatial partitioning provided by organelles creates an enclosed environment or surface for chemical reactions tailored to fulfill specific functions. These functions are tightly linked to a specific set of proteins.”

They made this atlas to organize the many thousands of proteins in human cells, and have categories for new ones as they are discovered. This is Darwin’s simple goo.

The smallest known genome (Mycoplasma genitalium) has 482 genes. The minimum possible for an organism to survive is probably 200 to 300 genes. Most bacteria have 1000 to 4000 genes. Everything about the cell is stunningly complex. A popular textbook on the cell is 1600 pages long and weighs 7 pounds. Plants and animals contain a great variety of cells; the human body has about 210 different types.

Cells are made of proteins, and everything that goes on in a creature involves proteins interacting with each other. Proteins are generally 50 to 2000 amino acids long; a typical one has about 300 amino acids. Ribosomes are molecular machines that build proteins in cells, using messenger RNA as the template. Here is an overview of how a bacterial ribosome “translates” RNA into protein. Every protein in bacteria is made this way.
A protein is not just a long ribbon of amino acids strung together from the DNA pattern. It folds itself into a 3D structure.

“Inside every cell in your body, billions of tiny molecular machines are hard at work. They’re what allow your eyes to detect light, your neurons to fire, and the ‘instructions’ in your DNA to be read, which make you the unique person you are. These exquisite, intricate machines are proteins.

They underpin not just the biological processes in your body but every biological process in every living thing.

Currently, there are around **200 million known proteins**, with another 30 million found every year. Each one has a unique 3D shape that determines how it works and what it does. If you could unravel a protein you would see that it’s like a string of beads made of a sequence of different chemicals known as amino acids. These sequences are assembled according to the genetic instructions of an organism’s DNA.
Attraction and repulsion between the 20 different types of amino acids cause the string to fold in a feat of ‘spontaneous origami’, forming the intricate curls, loops, and pleats of a protein’s 3D structure.

For decades, scientists have been trying to find a method to reliably determine a protein’s structure just from its sequence of amino acids. This grand scientific challenge is known as the protein folding problem. We started working on this challenge in 2016 and have since created an Artificial Intelligence (AI) system known as AlphaFold. Our latest version can now make accurate predictions of what shape a protein will form based on its sequence of amino acids.” - From https://deepmind.com/research/case-studies/alphafold


Researchers have had to use artificial intelligence computers to translate DNA code into folded structures. What kind of intelligence wrote the linear codes for proteins into DNA?

The temperature and chemical concentrations must be right for it to fold correctly, and many proteins get help from special proteins called “molecular chaperones”. Chaperones can keep proteins separated from each other while they are folding, prevent mistakes in folding, and even unfold mistakes to give the protein a second chance to get it right. After helping one protein fold, a chaperone will go help another one fold.

“"A chaperone protein (bottom, yellow) called SecB guides the folding of another protein (transparent) in this artist's illustration." --Science News, December 1, 2007, Vol. 172, p. 342

Making and folding proteins goes on continuously throughout the body. Misfolding can lead to more than
proteins that don't work. In humans, bunches of them (aggregates) can lead to diseases such as Alzheimer's, Huntington's, or sickle cell. "Proteins are so precisely built that the change of even a few atoms in one amino acid can sometimes disrupt the structure of the whole molecule so severely that all function is lost." All proteins stick (bind) to other molecules. But each can bind to only a few of the thousands it encounters. "An average protein in a human cell may interact with somewhere between 5 and 15 different partners." Their shapes fit each other like a hand in a glove. "Proteins can form enormously sophisticated chemical devices." "The most impressive tasks are carried out by large protein assemblies formed from many protein molecules." "Each of the central processes in a cell... is catalyzed by a highly coordinated, linked set of 10 or more proteins." The parts of a cell where proteins are made (ribosomes) are themselves made of many different proteins. "The complexity of living organisms is staggering." In the face of this breathtaking complexity, evolutionists have tried to find the basic things necessary for a cell to function. So far they have found 17 general categories:

- Replication, recombination, and repair
- Transcription
- Cell cycle control, mitosis, and meiosis
- Defense mechanisms
- Cell wall/membrane biogenesis
- Signal transduction mechanisms
- Intracellular trafficking and secretion
- Translation
- Post-translational modification, protein turnover, chaperones
- Energy production and conversion
- Carbohydrate transport and metabolism
- Amino acid transport and metabolism
- Nucleotide transport and metabolism
- Coenzyme transport and metabolism
- Lipid transport and metabolism
- Inorganic ion transport and metabolism
- Secondary metabolite biosynthesis, transport, and catabolism

Each category requires many proteins. All have to be in place and working together or the cell is wrecked.

Scientists have found that the number of genes a creature has is not a good measure of how complex it is. For example, the human genome is 23 times larger than the fruit fly genome (3.2 billion base pairs versus 137 million), yet humans have less than twice the number of protein coding genes (21,000 versus 13,000). Yeast has about 6,000 genes.

The tiny water flea *Daphnia pulex* has more genes than humans do; up to 39,000 at last count.

The main reason for biological complexity must be something else. “Alternative splicing” is an important part of it.

“Humans do not have many more genes than… mice, fruit flies, or worms. This observation raises the question of how humans can be so much more morphologically and behaviorally complex than these other metazoans.”

“One of the most unanticipated findings in molecular biology was the discovery that eukaryotic genes are discontinuous, with protein-coding segments or exons disrupted by noncoding segments or introns.” Splicing exons together in different ways allows a single gene to code for multiple proteins.

“The average human gene contains eight exons and seven introns, producing an average of three or more alternatively spliced mRNA isoforms. 100% of human genes produce at least two alternative mRNA isoforms.”

“It has become apparent that precursor messenger RNA (pre-mRNA) splicing can occur to a great extent that scales with organismal complexity. Indeed, although the mouse and human genomes contain similar numbers of genes, alternative pre-mRNA splicing occurs in >95 to 100% of human genes, compared with ~63% of mouse genes. Thus, one function of alternative splicing is to significantly expand the form and function of the human proteome. Alternative splicing can serve many regulatory functions.”
Intron removal in protein-coding mRNAs (and long noncoding RNAs) occurs in a large ribonucleoprotein (RNP) machine called the spliceosome.

The spliceosome functions in a complex and dynamic assembly, reaction, and disassembly cycle in which five small nuclear ribonucleoprotein (snRNP) complexes (U1, U2, U4/U6, and U5) recognize and assemble on each intron to ultimately form a catalytically active spliceosome. Spliceosome assembly needs to occur every time an intron is removed from a pre-mRNA in a eukaryotic nucleus. The protein composition of the spliceosome dynamically changes as the assembly and subsequent catalytic steps occur.


The old view of proteins was that “each gene encodes a single protein, and each protein serves a single function. However, this orderly view of biology has turned out to be overly simplistic. Single genes can encode different proteins as a result of alternative splicing, and single proteins often serve multiple functions.”
Moonlighting - the performance of more than one function by a single protein - is becoming recognized as a common phenomenon. Many proteins have more than one moonlighting function. In some cases, different organisms have recruited the same protein to serve different moonlighting functions. In other cases, a protein serves several moonlighting functions within the same organism, and even within the same cell type.

Moonlighting functions are provided by other parts of the protein. Since the region devoted to the canonical [main] function of a protein occupies only part of the molecule, extensive regions are available for binding to other macromolecules.

Correct orchestration of moonlighting functions requires that proteins must be either produced in, or directed to, different places in the right quantities and at the right times.

An inescapable conclusion based upon the torrent of discoveries of moonlighting proteins is that cellular physiology is more complex than we imagined based upon the comfortable reductionist viewpoint in which each protein serves a single function. -- Copley, Shelley D. 2012. Moonlighting is mainstream: Paradigm adjustment required. Bioessays Vol. 34, No. 7, pp. 578–588.

So evolutionists have to believe that for each protein, pure chance laid out long strings of amino acids that fold themselves into the exact shapes needed to interact with other specialized proteins and, where needed, get help from chaperone proteins which themselves appeared by chance. The necessary proteins cannot be invented one at a time. Either they are all there, ready to work together, or nothing happens and they disintegrate. Yet even if it could design proteins, mutation-natural selection would only work on one at a time sporadically over many years. Considering just the complexity of proteins, the notion of creating them with mutation-natural selection is as silly as asking someone to build a television set with a spoon and a toothbrush. If Darwin had known what we have learned about proteins, he probably would have abandoned the theory of evolution.

Darwin himself wrote in chapter 6 of On the Origin of Species that "natural selection can act only by the preservation and accumulation of infinitesimally small inherited modifications, each profitable to the preserved being... If it could be demonstrated that any complex organ existed, which could not possibly have been formed by numerous, successive, slight modifications, my theory would absolutely break down."
**Duplicate genes**

Do evolutionists admit defeat? Never! They temporarily sidestep natural selection, saying the mutations in DNA needed to build a complicated new part quietly accumulate in duplicate genes, because by themselves each of the necessary mutations is neutral, neither beneficial nor harmful. Then, millions of years later, all are in place. The new part starts working, natural selection chooses it, and the improved creature is off to the races. This scenario exists only in the mind of the evolutionist.

It is true that just one copy of a gene needs to work right. There are many duplicate genes in DNA, and the idea is that they are free to change without hurting the creature.

But the duplicates are also protected from evolution theory’s only “guiding force”, natural selection. Any novel genes would have to mesh with the elaborate regulatory networks of living creatures, and do so completely randomly, without harmful mutations.

A review of many experiments with duplicate genes found that “duplication can and does facilitate important adaptations by tinkering with existing compounds”. The “random mutations and recombinations considered were observed to tweak, tinker, copy, cut, divide, and shuffle existing genetic information around, but fell short of generating genuinely distinct and entirely novel functionality.” “Gene duplication results in the copying and preservation of biological information, and not its transformation as something original.” It is “insufficient in explaining the origination of the highly complex information pertinent to the essential functioning of living organisms.” --Bozorgmehr, Joseph Esfandiar Hannon. 22 December 2010. Is Gene Duplication a Viable Explanation for the Origination of Biological Information and Complexity? Complexity, published online, DOI 10.1002/cplx.20365, pp. 1-14.

**Repairing mutations**

So duplicate genes are not macroevolution’s secret laboratory. Furthermore, everyone agrees that harmful mutations appear many, many times more often than mutations needed for new construction ever could. Over those millions of years, slightly harmful mutations that are hidden, or not destructive enough for natural selection to remove, would also quietly accumulate. This would produce creatures loaded up with highly polluted genes. Survival of the barely functional? We do not find this either because cells have mechanisms that maintain the original design of a creature within its variation boundaries, and minimize the accumulation of mutations. These include:

- A proofreading system that catches almost all errors
- A mismatch repair system to back up the proofreading system
- Photoreactivation (light repair)
- Removal of methyl or ethyl groups by O6 - methylguanine methyltransferase
- Base excision repair
- Nucleotide excision repair
- Double-strand DNA break repair
- Recombination repair
- Error-prone bypass

Below is a description of the second type - mismatch of base pairs. How do you suppose this mechanism evolved randomly?
Harmful mutations happen constantly. Without repair mechanisms, life would be very short indeed and might not even get started because mutations often lead to disease, deformity, or death. So even the earliest, “simple” creatures in the evolutionist’s primeval soup or tree of life would have needed a sophisticated repair system. But the mechanisms not only remove harmful mutations from DNA, they would also remove mutations that evolutionists believe build new parts. The evolutionist is stuck with imagining the evolution of mechanisms that prevent evolution, all the way back to the very origin of life.

Junk DNA
Only a small portion of a creature’s DNA is protein-coding genes (around 3% in humans). In the 1970s, evolutionists began calling the rest of it “junk DNA”, saying this collection of useless evolutionary debris showed there was no intelligent design involved. Decades later, researchers are finding that the “junk” does vital work. Some of this DNA plays a role in turning genes on and off at the right moments in a developing embryo. Other bits separate coding and regulating sections, like punctuation marks in writing, so that DNA is not a long run-on sentence. Other bits called Alu elements, found only in primates, can be spliced in or out during RNA processing to make different versions of the same gene. The “junk” label discouraged
research into this part of the genome for many years; who would want to waste their time studying it?

An article in the 7 September 2012 issue of *Science* was titled “ENCODE project writes eulogy for junk DNA”. “This week, 30 research papers… sound the death knell for the idea that our DNA is mostly littered with useless bases. A decadelong project, the Encyclopedia of DNA Elements (ENCODE), has found that 80% of the human genome serves some purpose”. “The ENCODE effort has revealed that a gene’s regulation is far more complex than previously thought, being influenced by multiple stretches of regulatory DNA located both near and far from the gene itself and by strands of RNA not translated into proteins, so-called noncoding RNA.” — Pennisi, Elizabeth. 7 September 2012. Science, Vol. 337, pp. 1159-1161.

“Scientists’ view of RNA has transformed over the past few decades. Once, most RNAs were thought to be relatively uninteresting pieces of limp spaghetti that ferried information between the molecules that mattered, DNA and protein. Now, biologists know that RNAs serve many other essential functions: they help with protein synthesis, control gene activity and modify other RNAs. At least 85% of the human genome is transcribed into RNA”.

“Unlike DNA, which forms a predictable double helix, RNA comprises a single strand that folds up into elaborate loops, bulges, pseudo-knots, hammerheads, hairpins and other 3D motifs. These structures flip and twist between different forms, and are thought to be central to the operation of RNA, albeit in ways that are not yet known.”

“RNA molecules typically exist as a linear string of nucleotides - or bases - for only an instant after they are produced from their template DNA. They quickly fold back on themselves, and complementary nucleotides pair up. They then contort further into complex 3D configurations, interact with proteins and other RNAs and change shape to carry out different jobs.” -- Dolgin, Elie. A cellular puzzle: The weird and wonderful architecture of RNA. 23 July 2015. Nature, Vol. 523, No. 7561, pp. 398-399.

**Networks**

The living things of the world are extremely varied and intricately made, yet the theory of evolution has always been about simplicity: once upon a time, some chemicals assembled, began to make copies of themselves, and little by little changed into all life forms. Evolutionists like to use the words “simply” and “merely” when telling their stories to the public. There is certainly nothing complicated about the idea of mutation-natural selection. However, by the year 2000, research had reached a point where a new branch of biology was needed: Systems Biology. Discoveries in this field are the exact opposite of merely simple. Biological systems are vastly more complex than anyone could imagine. Some wonder if we will ever fully understand them.
“To make sense of the genome, systems biologists think in terms of networks. If two kinds of proteins or other biological molecules interact, they are connected on the network.” “These network diagrams... show how individual pathways crisscross to form a tangled web. Each protein in a pathway can interact with molecules in other pathways, sometimes dozens of them.” Additionally, “systems biologists produce complex maps of how genes and proteins interact, and these maps help scientists analyze results from drug screening.” “Cells ‘talk’ to each other by passing chemical signals back and forth. They also sense their physical surroundings through proteins on their surfaces called integrins. All these cues serve to orient the cells in the body and inform them about how to behave so that they cooperate with the rest of the cells in the tissue.” “The cells are not complete by themselves. They need signals from outside,” says Mina J. Bissell of Lawrence Berkeley National Laboratory. “The unit of function literally is the tissue.”-- Patrick Barry. April 5, 2008. You, in a dish: cultured human cells could put lab animals out of work for chemical and drug testing. Science News, Vol. 173, No. 14, pp. 218-220.

“The interesting point coming out of all these studies is how complex these systems are; the different feedback loops and how they cross-regulate each other and adapt to perturbations are only just becoming apparent. The simple pathway models are a gross oversimplification of what is actually happening”, says Mike Tyers, a systems biologist at the University of Edinburgh, UK.-- Blow, Nathan. 16 July 2009. Untangling the protein web. Nature, Vol. 460, pp. 415-418.

“The life of every organism depends crucially on networks of interacting proteins that detect signals and
generate appropriate responses. Examples include chemotaxis, heat shock response, sporulation, hormone secretion, and cell-cycle checkpoints.”

“When the information in molecular mechanisms that underlie the adaptive behaviour of living cells is laid out in graphical form, the molecular network looks strikingly similar to the wiring diagram of a modern electronic gadget. Instead of resistors, capacitors and transistors hooked together by wires, one sees genes, proteins and metabolites hooked together by chemical reactions and intermolecular interactions.”

“Certain feedback and feedforward signals can create diverse types of responses: sigmoidal switches (buzzers), transient responses (sniffers), hysteretic switches (toggles), and oscillators (blinkers). From these components, nature has constructed regulatory networks of great complexity. With accurate mathematical representations of the individual components, we can assemble a computational model of any such network using "differential equations, limit cycles and bifurcation diagrams."


This is a map of how the genes in a cell of the budding yeast *Saccharomyces cerevisiae* interact with one another. Each color shows what a group of genes does. Genes in these functional networks interact with other genes throughout the cell; a cell of yeast.
By 2010, real biologists had determined that gene regulatory networks (GRNs) build and operate all living things. There are gene regulatory networks for everything that happens in them, and some networks control other networks in a chain of command. Each species has a body plan, and it is encoded in the DNA. “Development of the body plan is caused by the operation of GRNs”. “Embryonic development is an enormous informational transaction, in which DNA sequence data generate and guide the system-wide spatial deployment of specific cellular functions.” That is, an embryo grows because GRNs tell other GRNs what to do at the right time and place and in the right order; it is tremendously complex. GRNs then guide the development of different types of cells, organs, and growth of the embryo into an adult. They also control each creature’s abilities and the way it responds to changes around it. Among the most studied are sea urchins, which are low on the evolutionist’s “tree of life”.

An embryo has a particular growth program for the type of creature it will develop into. Yet it is likely that all the different programs are constructed from just a few types of sub-circuits. “Structurally similar sub-circuits, but composed of different regulatory genes” do “similar developmental jobs in different GRNs.” This discovery gives researchers hope that they can use these “modules of developmental logic function” to decipher the “enormous mazes of interconnections in system level GRNs”. You can tell what a sub-circuit does by its shape or structure. There is a sub-circuit for each task, and GRNs are made up of sub-circuits. The same control processes are used “throughout embryonic development because the problems that have to be solved are general: the initial spatial inputs have to be interpreted, the regulatory state then has to be locked down (the initial inputs are always transient), signals have then to be generated, other states have to be excluded, and differentiation drivers have to be activated. It is not surprising that all this requires a lot of sequential circuitry.”

GRNs in embryos “are hierarchical in their overall structure. Their depth reflects the long sequence of
regulatory steps required to complete any component of embryonic development.” A GRN might have many layers of sub-circuits or very few, depending on its job. The last step in the chain of command is the signal for “batteries” (groups) of genes to change stem cells into specific types of cells (such as muscle, blood, nerve, etc.) at the right place. -- Davidson, Eric H. 16 December 2010. Emerging properties of animal gene regulatory networks. Nature, Vol. 468, pp. 911-920.

Some evolutionists have publicly welcomed GRNs because a change in one controller can affect many genes, and we are back to simplicity. That is like saying a child can use Windows 7 operating system on a computer. Just point and click with a mouse, and the computer does many complicated things. It is simplicity itself. So why are GRNs the death blow to evolution theory? It took computer and software engineers decades of intelligent design to build the computer and Windows 7. GRNs are the operating system of living things. The theory of evolution cannot explain how gene regulatory networks came to be. As with other insurmountable problems with the theory, this one remains in the pile marked “needs further study”.

Some of the things GRNs have been found to do:

- Specialized GRNs determine which genes are active or inactive in each part of a developing creature
- GRN sub-circuits, usually consisting of 3 to 8 regulatory genes plus the elements they regulate, perform specific functions
- Switches permit or forbid the activity of whole sub-circuits
- Gene batteries are groups of genes required for particular cell functions; they are controlled by a small set of transcriptional drivers
- Segments of DNA a few hundred base pairs long, called cis-regulatory elements, control expression of the genes near them
- Signals are deployed between one cell and another using cis-regulatory elements


Mutation-natural selection could no more build the vast, intricate networks in living creatures than a beaver could build the Hoover dam.
“Before Darwin came along, it seemed absurd to almost everyone that the beauty and complexity of the living world could have come into being without a designer.” (p. 250)

“...the complexity, beauty, and ‘purposefulness’ of living things must have seemed too obviously designed by an intelligent creator. So it requires a major leap of courage to consider anything else... I mean intellectual courage to contemplate the apparently ridiculous.” (p. 267)

From Richard Dawkins’ 2019 book Outgrowing God

“Evolution is changed gene frequencies in populations.” - Richard Dawkins

Inventing machines without a designer is ridiculous. All machines have been engineered.

One of millions of examples is how tuna use hydraulics to maneuver, and “employ a hydraulic system that is similar to an engineer’s design.”

“Highly streamlined bodies (like those of tuna) without fins are unstable, as the aerodynamic center is forward of the head, often by a full body length. This necessitates the use of hydrofoils in the rear part of the body to bring the aerodynamic center close to its center of mass.”

“By changing the sweep angle of the front dorsal, second dorsal, and anal fins, the tuna can rapidly move its
aerodynamic center, either forward to reduce stability and hence increase maneuverability, or backward to increase stability.” “Reducing the sweep angle increases the effective aspect ratio and the lift per unit angle of attack.”

“The lymphatic circulatory system in tuna… serves as a hydraulic system that actively changes the sweep angle of their second dorsal (back) and anal (underside) fins.” “Such changes are used consistently during maneuvering and transient motion, especially for sharp turns.”

Although “the lymphatic system has a key role in other biological processes (primarily in the immune system),” “the muscular system alone cannot provide and sustain with accuracy the forces required to raise the fin rays and thereby change the sweep angle of the fins. Instead, the inclinator muscles, located around the base of the fins, contract to squeeze compressible vascular channels, pushing lymph through the incompressible vascular sinus to fill expandable vascular channels between the fin rays.”

“Continuous adjustment of the sweep angle is found in other swimming animals that employ lift-based propulsion, so this could be a mechanism of wider applicability.”

“The shape-changing fins of fish are of great interest to engineers developing the locomotion and maneuvering capabilities of underwater and aerial systems.”


To the next level
At this point we are light-years beyond the simplistic notions of Darwinism. Now even systems biology is being overwhelmed.

“The protein p53, for example, was discovered in 1979.” “It soon gained notoriety as a tumor suppressor, a ‘guardian of the genome’ that stifles cancer growth by condemning genetically damaged cells to death. Few proteins have been studied more than p53.”

“Researchers now know that p53 binds to thousands of sites in DNA, and some of these sites are thousands of base pairs away from any genes. It influences cell growth, death, structure and DNA repair. It also binds to numerous other proteins.” “Through a process known as alternative splicing, p53 can take nine different forms, each of which has its own activities and chemical modifiers. Biologists are now realizing that p53 is also involved in processes beyond cancer, such as fertility and very early embryonic development.”

Research “has dismantled old ideas about signaling ‘pathways’, in which proteins such as p53 would trigger a
defined set of downstream consequences. ‘When we started out, the idea was that signaling pathways were fairly simple and linear,’ says Tony Pawson, a cell biologist at the University of Toronto in Ontario. ‘Now, we appreciate that the signaling information in cells is organized through networks of information rather than simple discrete pathways. It’s infinitely more complex.’ ”

“When systems biology was supposed to help scientists make sense of the complexity. The hope was that by cataloguing all the interactions in the p53 network, or in a cell, or between a group of cells, then plugging them into a computational model, biologists would glean insights about how biological systems behaved.”

Unfortunately, “there is no way to gather all the relevant data about each interaction”. “In many cases, the models themselves quickly become so complex that they are unlikely to reveal insights about the system, degenerating instead into mazes of interactions”. “Many of the mechanisms and principles governing inter-and intracellular behavior are still a mystery.” -- Hayden, Erika Check. 1 April 2010. Life is Complicated. Nature, Vol. 464, pp. 664-667.

When cells repair damaged DNA using so-called “replicate DNA” (for making copies) or “transcribe DNA” (the first step in making a protein), the parts are rapidly assembled from a pool of parts floating in the nucleus of a cell to form “factories”. The size of a repair center is according to the amount of damage it has to repair. “A replication factory persists for a few minutes before it disassembles. A new factory is then assembled... immediately adjacent to the previous one”. Whether it is repair, replication, or transcription, once the job is done the “factories” disassemble and the parts float back into the pool. 29

Chromatin is DNA packaged into chromosomes. Chromatin is in constant motion. Different sections along DNA are apparently guided to each other directly and rapidly, forming loops. Chromatin loops are very common. Loops range in size from thousands to hundreds-of-thousands of bases long. Loops bring together genes and their regulators to form "transcription hubs" where transcription can occur. 29 “Long-range interactions can occur over very large genomic distances, up to tens of megabases”. “Interactions occur not only along chromosomes, but also between them.” “Chromosomes extensively interact with each other" 38, and neighboring chromosomes intermingle. 29

There is a “bewildering complexity in long-range communication among a variety of genomic elements across chromosomes and the genome.” 38

The Bottom Line
Evolutionists assume evolution is true, then write endlessly about when and where it happened, rates and lineages, etc. But if macroevolution is physically impossible in the real world, and it is, then all the rest is fantasy. There are only two possibilities. Either every part of every living thing arose by random chance, or an intelligence designed them.
It is now clear that the theory of evolution's only mechanism for building new parts and creatures, mutation-natural selection, is totally, utterly, pathetically inadequate.

In spite of overwhelming evidence that the theory of evolution is dead wrong, many are not ready to throw in the towel. They desperately hope that some natural process will be found that causes things to fall together into organized complexity. These are people of great faith. And they are so afraid of connecting God with science that, like the Japanese Army of World War II, they would rather die than surrender. Unfortunately, the staunchest defenders sit in places of esteem and authority as professors, scientists, and editors, and have the full faith of the news media. The public is naturally in awe of their prestige. But once the facts are understood it becomes obvious that the theory of evolution is long overdue for the trash can, and to perpetuate it is fraud. Perhaps it made sense for what was known when On the Origin of Species was published in 1859, but not today.

Many scientists are with us
The only tactic left to evolutionists is to ridicule their critics as simpletons who don't understand how their pet theory really works. Here is a link to a roster of hundreds of professionals whose advanced academic degrees certify that they thoroughly understand evolution theory. They also have the courage to defy the high priests of academia by voluntarily adding their names to a skeptics list against Darwinism: http://www.discovery.org/scripts/viewDB/filesDB-download.php?command=download&id=660

Richard Dawkins - obsolete
Nathaniel Comfort is professor of the history of medicine at Johns Hopkins University in Baltimore, Maryland. He reviewed Richard Dawkins’ autobiography Brief Candle in the Dark: My Life in Science (2015) for the evolutionist journal Nature, saying in part:

“Much of Dawkins’s research has been... writing programs for evolutionary simulations. In his simulations, life is utterly determined by genes, which specify developmental rules and fixed traits such as colour. The more lifelike his digital animals ('biomorphs') become, the more persuaded he is that real genes work in roughly the same way.”

“A curious stasis underlies Dawkins’s thought. His biomorphs are grounded in 1970s assumptions. Back then, with rare exceptions, each gene specified a protein and each protein was specified by a gene. The genome was a linear text - a parts list or computer program for making an organism - insulated from the environment, with the coding regions interspersed with ‘junk’.”

“Today’s genome is much more than a script: it is a dynamic, three-dimensional structure, highly responsive
to its environment and almost fractally modular. Genes may be fragmentary, with far-flung chunks of DNA sequence mixed and matched in bewildering combinatorial arrays. A universe of regulatory and modulatory elements hides in the erstwhile junk."

"Dawkins’s synopsis shows that he has not adapted to this view. “The microbiome and the 3D genome go unnoticed. Epigenetics is an ‘interesting, if rather rare, phenomenon’ enjoying its ‘fifteen minutes of pop science voguery’ “. "Dawkins adheres to a deterministic language of ‘genes for’ traits."

"In the early 2000s, he saltated from popularizer into evangelist.” Along with Christopher Hitchens, Daniel Dennett and Sam Harris, his writings “form the scripture of the ‘new atheism’, a fundamentalist sect that has mounted a scientific crusade against all religion.”


Some revealing quotes

Philip S. Skell, a member of the National Academy of Sciences, wrote in the August 29, 2005 edition of The Scientist: “I recently asked more than seventy eminent researchers if they would have done their work differently if they had thought Darwin's theory was wrong. The responses were all the same: No. I also examined the outstanding discoveries of the past century: the discovery of the double helix; the characterization of the ribosome; the mapping of genomes; research on medications and drug reactions; improvements in food production and sanitation; the development of new surgeries; and others. I even queried biologists working in areas where one would expect the Darwinian paradigm to have most benefited research, such as the emergence of resistance to antibiotics and pesticides. Here, as elsewhere, I found that Darwin's theory had provided no discernible guidance, but was brought in, after the breakthroughs, as an interesting narrative gloss.” --Philip S. Skell. August 29, 2005. Why Do We Invoke Darwin? The Scientist, Vol. 19, No. 16, p. 10.

- Philip S. Skell was Evan Pugh Professor of Chemistry, Emeritus at Penn State University. He is sometimes called "the father of carbene chemistry" in organic chemistry, and is widely known for the "Skell Rule", which was first applied to carbenes - the "fleeting species" of carbon. The rule, which predicts the most probable pathway through which certain chemical compounds will be formed, found use throughout the pharmaceutical and chemical industries. He said that during World War II “I was personally associated with an antibiotics research group, engaged in the full range of activities, from finding organisms which inhibited bacterial growth to the isolation and proof of structure of the antibiotics they produced.” Professor Skell died Nov. 21, 2010.
Ernst Chain (1906-1979) and two others were awarded the 1945 Nobel Prize for Physiology or Medicine. Chain identified the structure of penicillin, and isolated the active substance. He is considered to be one of the founders of the field of antibiotics. Concerning Darwin’s theory of evolution, Chain found it to be “a very feeble attempt” to explain the origin of species based on assumptions so flimsy that “it can hardly be called a theory.” He saw the reliance on chance mutations as a “hypothesis based on no evidence and irreconcilable with the facts.” He wrote: “These classic evolutionary theories are a gross oversimplification of an immensely complex and intricate mass of facts, and it amazes me that they were swallowed so uncritically and readily, and for such a long time, by so many scientists without a murmur of protest.”

Chain concluded that he “would rather believe in fairies than in such wild speculation” as Darwinism. He was born in Berlin, Germany, and obtained his Ph.D. in biochemistry and physiology there. He worked as a research scientist at Cambridge (also studying for a Ph.D. there), at Oxford University until 1948, and then as a professor and researcher at several other universities. In 1938, Chain came across Alexander Fleming’s 1929 paper on penicillin, and showed it to his colleague Howard Florey. In their research, Chain isolated and purified penicillin. --Jerry Bergman, Ph.D. April 2008. Ernst Chain: Antibiotics Pioneer. Acts&Facts, Vol. 37, No. 4, pp. 10-12.


Perry Marshall has a degree in Electrical Engineering. He’s consulted in over 300 industries, from computer hardware and software to biotech and health care, and is the author of the book Evolution 2.0. This is from his website http://cosmicfingerprints.com/dna-atheists/

“For well over 5 years, I successfully advanced the Information Theory argument for design in DNA on Infidels, which from 2005-2010 was the world’s largest Atheist discussion forum.” [It has since disappeared.] In over five years, the Infidels failed to refute the information theory argument for design in biology.

“Gentlemen: The starting point of this discussion is my central thesis, which is: 1) DNA is not merely a molecule with a pattern; it is a code, a language, and an information storage mechanism. 2) All codes are created by a conscious mind; there is no natural process known to science that creates coded information. 3) Therefore DNA was designed by a mind. If you can provide an empirical example of a code or language that occurs naturally, you’ve toppled my proof. All you need is one. Perry Marshall

In the course of a very detailed and vigorous discussion my argument did not suffer the slightest injury. There were six major counter-arguments to information as proof of intelligent design.

1. The objection that DNA is not a code (it is, by universal definition)

2. The objection that information is not real (it is, because it produces real effects)

3. The objection that information has no objective meaning (it does, because a message produces results that are just as objective and specific as the message itself)
4. The objection that random processes can create information (they can’t)

5. The objection that codes do occur naturally (they don’t)

6. The objection that the nature of the Designer cannot be determined (in very broad terms, it can)

“The sequence of base pairs in DNA is a code. All codes that we know the origin of come from a mind. Therefore DNA came from a mind.”

“The objection to this statement has been that the conclusion is reached inductively. Complaints have been lodged that inductive reasoning is inherently unreliable. But we do observe that the laws of thermodynamics and in fact the majority of known scientific laws are determined inductively and not deductively.”

“Let’s not forget that the entire enterprise of scientific inquiry during the last 500 years has been the ongoing discovery of underlying order, not the assumption of accident.”

“Thus we have, right here on the Infidels discussion forum, after more than 300 posts, robust evidence that life was intelligently designed.” “It is not possible for me to persuade people to believe in God if they do not want to; that is not my job. But one can hope that some will follow the evidence, wherever it leads.”

“Wernher von Braun is, without doubt, the greatest rocket scientist in history. His crowning achievement, as head of NASA’s Marshall Space Flight Center, was to lead the development of the Saturn V booster rocket that helped land the first men on the Moon in July 1969.”

Richard C. Strohman, professor emeritus of molecular and cell biology at Berkeley, and an evolutionist, wrote in the March 1997 edition of Nature Biotechnology: “There is a striking lack of correspondence between genetic and evolutionary change. Neo-Darwinian theory predicts a steady, slow continuous, accumulation of mutations (microevolution) that produces a progressive change in morphology leading to new species, genera, and so on (macroevolution). But macroevolution now appears to be full of discontinuities (punctuated evolution), so we have a mismatch of some importance. That is, the fossil record shows mostly stasis, or lack of change, in a species for many millions of years; there is no evidence there for gradual change even though, in theory, there must be a gradual accumulation of mutations at the micro level.” “We currently have no adequate explanation for stasis or for punctuated equilibrium in evolution, or for higher order regulation in cells.” “We seem to lack any scientific basis with which to explain, for example, evolution.” “Not necessarily so. It does suggest, however, that our evolutionary theory is incomplete.” “The theory is in trouble because it insists on locating the driving force solely in random mutations.” “It is
becoming clear that sequence information in DNA, by itself, contains insufficient information for determining how gene products (proteins) interact to produce a mechanism of any kind. The reason is that the multicomponent complexes constructed from many proteins are themselves machines with rules of their own; rules not written in DNA.” “The rules... of brain formation are not reducible to genetic maps and to the rules of genetic theory. Each higher level of organization has its own rules, and there is no continuous gradual transition from one level or hierarchy to the other.” “We have been lulled into reasoning that if the gene theory works at one level--from DNA to protein--it must work at all higher levels as well. We have thus extended the theory of the gene to the realm of gene management. But gene management is an entirely different process, involving interactive cellular processes that display a complexity that may only be described as transculturalational, a mathematical term for mind boggling.” “Understanding of complex function may in fact be impossible without recourse to influences outside of the genome.” --Richard C. Strohman. March 1997. The coming Kuhnian revolution in biology. Nature Biotechnology, Vol. 15, pp. 194-200.

Sean B. Carroll, of the Medical Institute and Laboratory of Molecular Biology at the University of Wisconsin--Madison, wrote in a 2001 edition of Nature: “A long-standing issue in evolutionary biology is whether the processes observable in extant populations and species (microevolution) are sufficient to account for the larger-scale changes evident over longer periods of life's history (macroevolution). Outsiders to this rich literature may be surprised that there is no consensus on this issue.” -- Sean B. Carroll. 8 February 2001. Nature, Vol. 409, p. 669.

A symposium on evolution was held at the European Molecular Biology Laboratory in Heidelberg, Germany in November 2001, organized by PhD students. The meeting report says that “the symposium ended with a panel discussion about questions of microevolution (evolution within the species) and macroevolution (evolution after speciation). The issue at stake was whether extrapolation from the selection theory operating on organisms is sufficient to explain all patterns of macroevolution. In other words, do we need an independent body of theory to explain the changes occurring above, as opposed to at, the species level? There was no general agreement among the panel members. It seems that the jury is still out on this important question.” -- Gáspár Jékely. 2002. Meeting report - Evolution in a nutshell. European Molecular Biology Organization reports, Vol. 3, No. 4, pp. 307-311.

“Biology has been re-integrated twice already, first by Darwin in 1859 and then during the ‘Modern Synthesis’ of the 1920s and 1930s. In both cases, the success of these syntheses rested in part on ignorance. Charles Darwin could reasonably integrate biology in the 19th Century on a relatively elegant evolutionary foundation partly because a great deal was not yet known about cellular and biochemical machinery.” “Like Darwin's synthesis, the form of the Modern Synthesis was shaped in part by ignorance of important features of life that were at the time unknown to science. Specifically, the molecular biology of the cell remained largely unknown.” “The view of life that most biologists had from 1935 to 1965 was highly simplified. Some of the assumptions at the foundation of the Modern Synthesis started to crumble in the 1970s. Common mid-20th Century assumptions about how cells, organisms, and species work have thus been undermined.” “This might seem like reason for despair about the future of biology, but there are two mitigations to consider. First, this complexity was always there. Darwin and many later biologists realized that their simple models were erected like piers over swampy ground. They just didn't know how deep the muck was. Second, we now have powerful genomic tools for addressing complex phenomena throughout biology.” “Some may feel that the view of life supplied by nascent 21st Century biology is painfully complicated, if not perverse. For our part, we think that the historical complexity and versatility that we now
know to characterize life are inspiring and challenging." "The fundamental landscape of biology is undergoing a major upheaval, much as it did in the first decades of the 20th Century. This upheaval will take time to fully reveal its implications." -- Michael R. Rose, Todd H. Oakley. 24 November 2007. The new biology: beyond the Modern Synthesis. Biology Direct, 2:30, 17 pages (published online). Michael Rose is an evolutionary biologist at the University of California, Irvine.

"Origin of Life" research, continued
The theory of evolution says life started from raw chemicals. Evolutionists long ago handed the problem off to specialists, trusting that they would come up with something. The specialists have spent many frustrating decades trying to figure out how DNA assembled itself. They have two approaches to the problem, and those on one side think the other side is wrong. Here is the essence of both views, synthesized from two research papers:

"The conceivable paths toward life’s emergence have been dominated by two fundamentally different views in origin-of-life research: the genetics- or replication-first approach, and the metabolism-first scenario. Both schools acknowledge that the critical requirement for primitive evolvable systems (in the Darwinian sense) is to solve the problems of information storage and reliable information transmission. Disagreement starts, however, in the way information was first stored. All present life is based on digitally encoded information."v 

The mainstream prebiotic evolutionary scenario is the “RNA world”. “Textbooks often assert that life began with specialized complex molecules, such as RNA, that are capable of making their own copies. This scenario has serious difficulties, but an alternative has remained elusive."v “We do not know how the transition to digitally encoded information has happened in the originally inanimate world; that is, we do not know where the RNA world might have come from."v 

“An alternative appears to be necessary for the RNA-centric paradigm of the origin of life.”v “No known cellular constituent is capable of self-replication in pure form. Even DNA is absolutely dependent on other cellular components for making its own copies.”v “One is compelled to consider an alternative: that self-replication has never been a property of individual molecules, but rather one of molecular ensembles.”v 

“The crucial origin of life question then becomes how natural selection was initiated by some molecular assortments, irrespective of their exact chemistry.”v “Life on our planet could have begun as a random chemistry melting pot, a ‘garbage-bag world’ with myriads of different chemical configurations.”v “A complex chain of evolutionary events, yet to be deciphered, could then have led to the common ancestors of today’s free-living cells, and to the appearance of DNA, RNA and protein enzymes.”v 

“Was a network of chemical reactions able to increase in complexity and eventually undergo Darwinian selection?”v “We demonstrate here that replication of compositional information is so inaccurate that fitter compositional genomes cannot be maintained by selection and, therefore, the system lacks evolvability.”v “The computed population dynamics of growing noncovalent molecular assemblies that undergo splitting when a critical size is reached clearly illustrates that compositional assemblies do not evolve.”v “We conclude that this fundamental limitation of ensemble replicators cautions against metabolism-first theories of the origin of life.”v "We now feel compelled to abandon compositional inheritance as a jumping board toward real units of evolution."v
So neither approach works.

Here are excerpts from candid reports by two scientists who have spent many years in "origin of life" research. These men support evolution, but insist that experimental evidence back up every claim.

This is "what has been called the NASA definition of life: Life is a self-sustained chemical system capable of undergoing Darwinian evolution." "Richard Dawkins elaborated on this image of the earliest living entity in his book The Selfish Gene: 'At some point a particularly remarkable molecule was formed by accident. We will call it the Replicator. It may not have been the biggest or the most complex molecule around, but it had the extraordinary property of being able to create copies of itself.' When Dawkins wrote these words 30 years ago, DNA was the most likely candidate for this role." "Unfortunately... DNA replication cannot proceed without the assistance of a number of proteins". So "which came first, the chicken or the egg? DNA holds the recipe for protein construction. Yet that information cannot be retrieved or copied without the assistance of proteins. Which large molecule, then, appeared first in getting life started--proteins (the chicken) or DNA (the egg).?"

"A possible solution appeared when attention shifted to a new champion--RNA." According to this view, "life began with the appearance of the first RNA molecule. In a... 1986 article, Nobel Laureate Walter Gilbert of Harvard University wrote in the journal Nature: 'One can contemplate an RNA world, containing only RNA molecules that serve to catalyze the synthesis of themselves. The first step of evolution proceeds then by RNA molecules performing the catalytic activities necessary to assemble themselves from a nucleotide soup.' In this vision, the first self-replicating RNA that emerged from non-living matter carried out the functions now executed by RNA, DNA and proteins." "Perhaps two-thirds of scientists publishing in the origin-of-life field... still support the idea that life began with the spontaneous formation of RNA or a related self-copying molecule."

"How did that first self-replicating RNA arise?" Most people know of an "experiment published in 1953 by Stanley Miller. He applied a spark discharge to a mixture of simple gases that were then thought to represent the atmosphere of the early Earth. Two amino acids of the set of 20 used to construct proteins were formed in significant quantities, with others from that set present in small amounts." "Some writers have presumed that all of life's building blocks could be formed with ease in Miller-type experiments and were present in meteorites and other extraterrestrial bodies. This is not the case."

"A careful examination of the results of the analysis of several meteorites led the scientists who conducted the work to a different conclusion: inanimate nature has a bias toward the formation of molecules made of fewer rather than greater numbers of carbon atoms, and thus show no partiality in favor of creating the building blocks of our kind of life." "RNA's building blocks, nucleotides, are complex substances as organic molecules go." "Amino acids, such as those produced or found in these experiments, are far less complex than nucleotides". "No nucleotides of any kind have been reported as products of spark discharge experiments or in studies of meteorites."
"To rescue the RNA-first concept from this otherwise lethal defect, its advocates have created a discipline called prebiotic synthesis. They have attempted to show that RNA and its components can be prepared in their laboratories in a sequence of carefully controlled reactions." Finding "a specific organic chemical in any quantity... would justify its classification as 'prebiotic,' a substance that supposedly had been proved to be present on the early Earth. Once awarded this distinction, the chemical could then be used in pure form, in any quantity, in another prebiotic reaction. The products of such a reaction would also be considered 'prebiotic' and employed in the next step in the sequence." "Unfortunately, neither chemists nor laboratories were present on the early Earth to produce RNA." "The analogy that comes to mind is that of a golfer, who having played a golf ball through an 18-hole course, then assumed that the ball could also play itself around the course in his absence. He had demonstrated the possibility of the event; it was only necessary to presume that some combination of natural forces (earthquakes, winds, tornadoes and floods, for example) could produce the same result, given enough time."

"Many chemists, confronted with these difficulties, have fled the RNA-first hypothesis as if it were a building on fire. One group, however, still captured by the vision of the self-copying molecule, has opted for an exit that leads to similar hazards. In these revised theories, a simpler replicator arose first and governed life in a 'pre-RNA world.' Variations have been proposed in which the bases, the sugar or the entire backbone of RNA have been replaced by simpler substances, more accessible to prebiotic syntheses. Presumably, this first replicator would also have the catalytic capabilities of RNA. Because no trace of this hypothetical primal replicator and catalyst has been recognized so far in modern biology, RNA must have completely taken over all of its functions at some point following its emergence."

"Further, the spontaneous appearance of any such replicator without the assistance of a chemist faces implausibilities that dwarf those involved in the preparation of a mere nucleotide soup. Let us presume that a soup enriched in the building blocks of all of these proposed replicators has somehow been assembled, under conditions that favor their connection into chains. They would be accompanied by hordes of defective building blocks, the inclusion of which would ruin the ability of the chain to act as a replicator." "There is no reason to presume that an indifferent nature would not combine units at random." "Probability calculations could be made, but I prefer a variation on a much-used analogy. Picture a gorilla (very long arms are needed) at an immense keyboard connected to a word processor. The keyboard contains not only the symbols used in English and European languages but also a huge excess drawn from every other known language and all of the symbol sets stored in a typical computer. The chances for the spontaneous assembly of a replicator in the pool I described above can be compared to those of the gorilla composing, in English, a coherent recipe for the preparation of chili con carne. With similar considerations in mind, Gerald F. Joyce of the Scripps Research Institute and Leslie Orgel of the Salk Institute concluded that the spontaneous appearance of RNA chains on the lifeless Earth 'would have been a near miracle.' I would extend this conclusion to all of the proposed RNA substitutes that I mentioned above." "Nobel Laureate Christian de Duve has called for 'a rejection of improbabilities so incommensurably high that they can only be called miracles, phenomena that fall outside the scope of scientific inquiry.' DNA, RNA, proteins and other elaborate large molecules must then be set aside as participants in the origin of life."

What is left? Theories that "employ a thermodynamic rather than a genetic definition of life, under a scheme put forth by Carl Sagan in the Encyclopedia Britannica: A localized region which increases in order (decreases in entropy) through cycles driven by an energy flow would be considered alive." "I estimate that
about a third of the chemists involved in the study of the origin of life subscribe to theories based on this idea."

It requires: "1) A boundary... to separate life from non-life." "2) An energy source". "3) A coupling mechanism must link the release of energy to the organization process that produces and sustains life. The release of energy does not necessarily produce a useful result. Chemical energy is released when gasoline is burned within the cylinders of my automobile, but the vehicle will not move unless that energy is used to turn the wheels. A mechanical connection, or coupling, is required." "4) A chemical network must be formed, to permit adaptation and evolution" "on a path that leads to increased organization." "5) The network must grow and reproduce." "We can imagine, on the early Earth, a situation where many startups of this type occur, involving many alternative driver reactions and external energy sources. Finally, a particularly hardy one would take root and sustain itself." "A system of reproduction must eventually develop." "Once independent units were established, they could evolve in different ways and compete with one another for raw materials; we would have made the transition from life that emerges from nonliving matter through the action of an available energy source to life that adapts to its environment by Darwinian evolution." "Many further steps in evolution would be needed to ‘invent’ the elaborate mechanisms for replication and specific protein synthesis that we observe in life today.” They "would not reveal the specific events that led to the familiar DNA-RNA-protein-based organisms of today."

"Systems of the type I have described usually have been classified under the heading 'metabolism first', which implies that they do not contain a mechanism for heredity. In other words, they contain no obvious molecule or structure that allows the information stored in them (their heredity) to be duplicated and passed on to their descendants." "Over the years, many theoretical papers have advanced particular metabolism first schemes, but relatively little experimental work has been presented in support of them.” "They have not yet demonstrated the operation of a complete cycle or its ability to sustain itself and undergo further evolution. A 'smoking gun' experiment displaying those three features is needed to establish the validity of the small molecule approach."--Shapiro, Robert. June 2007. A Simpler Origin for Life. Scientific American, Vol. 296, pp. 24-31.

Robert Shapiro, Ph.D. Harvard, is professor emeritus of chemistry and senior research scientist at New York University. He is author or co-author of over 125 publications, primarily in the area of DNA chemistry. In 2004 he was awarded the Trotter Prize in Information, Complexity and Inference. Shapiro has been involved in the search for origin of life mechanisms, and has written four books on the subject for the general public.

"The feasibility of any particular proposed prebiotic cycle must depend on arguments about chemical plausibility, rather than on a decision about logical possibility." The metabolic cycles that have been identified by biochemists are of two kinds: simple cycles and autocatalytic cycles. The citric acid cycle" is an example of a simple cycle. "The reverse citric acid cycle" is an example of an autocatalytic cycle. "Each molecule of citric acid introduced into the cycle results... in the generation of two molecules of citric acid." "That is why the cycle is described as autocatalytic." "The proposal that the reverse citric acid cycle operated... on the primitive Earth has been a prominent feature of some scenarios for the origin of life."

"A different kind of autocatalytic cycle, which has no analog in biochemistry, has been hypothesized by Stuart Kauffman to self-organize spontaneously whenever amino acids condense together to form peptides." "Could prebiotic molecules and catalysts plausibly have the attributes... to make the self-organization of the cycles possible?"
"The identification of a cycle of plausible prebiotic reactions is a necessary but not a sufficient step toward the formulation of a plausible self-organizing prebiotic cycle. The next, and more difficult step, is justifying the exclusion of side reactions that would disrupt the cycle." "It is not completely impossible that sufficiently specific mineral catalysts exist for each of the reactions of the reverse citric acid cycle, but the chance of a full set of such catalysts occurring at a single locality on the primitive Earth in the absence of catalysts for disruptive side reactions seems remote in the extreme."

"It has sometimes been implied or claimed that [autocatalytic] cycles are not only stable, but also are capable of evolving to form nonenzymatic networks of great complexity. Genetic materials are then seen as late additions to already fairly complex evolved life forms. According to this view, a genetic material merely adds stability to systems that already have a substantial 'information content'."

"One way of achieving something useful might be to use one of the constituents of the core cycle as the starting point of a second independent autocatalytic cycle." "Another suggestion that might be explored is the possibility of a side reaction generating a catalyst for one of the reactions of the core cycle."

"However, neither of these possibilities, nor any others with which I am familiar explains how a complex, interconnected family of cycles capable of evolution could arise or why it should be stable." "What is essential, therefore, is a reasonably detailed description, hopefully supported by experimental evidence, of how an evolvable family of cycles might operate." "Without such a description, acceptance of the possibility of complex nonenzymatic cyclic organizations that are capable of evolution can only be based on faith, a notoriously dangerous route to scientific progress."

"Kauffman takes it for granted that if it is possible to write down on paper a closed peptide cycle and a set of catalyzed ligations leading from monomeric amino acids to the peptides of the cycle, then that cycle would self-organize spontaneously and come to dominate the chemistry of a reaction system. This... is unlikely because peptide molecules do not have the properties that Kauffman assigns to the m."

"I have also explored a number of alternative systems with different numbers of amino acids or with inputs of random families of short peptides, and I find that they all encounter similar or more severe difficulties."

"Kauffman assumes that, in sufficiently concentrated solution, the naturally occurring amino acids or some subset of them would condense spontaneously to form a mixture of long peptides in substantial yield. In practice, this would not happen." "The catalytic properties of enzymes are remarkable. They not only accelerate reaction rates by many orders of magnitude, but they also discriminate between potential substrates that differ very slightly in structure. Would one expect similar discrimination in the catalytic potential of peptides of length ten or less? The answer is clearly 'no', and it is this conclusion that ultimately undermines the peptide cycle theory."

"Protein catalysis is dependent on the stable three-dimensional structures of enzymes and enzyme-substrate complexes. Highly specific catalytic activity could only be expected from short peptides if they, too, adopted stable structures." "In fact, short peptides rarely form stable structures, and when they do, the structures are only marginally stable. The synthesis of a decapeptide that would catalyze the ligation in the correct order of two particular pentapeptides out of a mixture of ten pentapeptides that are required to form the five cycle components, while failing to bring about any of the other possible ligations, would present an extremely difficult challenge to peptide chemistry. It seems certain that the additional requirement that this peptide should also catalyze specifically many of the reactions leading from amino acids to the pentamer precursors of the decamers of the cycle could never be met. Of course, the decamers need not be formed only from
pairs of pentamers, but the difficulties are no less severe for more complex synthetic networks. There are a number of possible ways in which this difficulty might be circumvented, but none seems relevant to the origin of life." "It is unlikely, therefore, that Kauffman's theory describes any system relevant to the origin of life."

"It is essential to subject metabolist proposals to the same kind of detailed examination and criticism that has rightly been applied to genetic theories."

"Because little experimental work has been attempted, appraisal must be based on chemical plausibility." "The lack of a supporting background in chemistry is even more evident in proposals that metabolic cycles can evolve to 'life-like' complexity. The most serious challenge to proponents of metabolic cycle theories--the problems presented by the lack of specificity of most nonenzymatic catalysts--has, in general, not been appreciated. If it has, it has been ignored."

"Theories of the origin of life based on metabolic cycles cannot be justified by the inadequacy of competing theories: they must stand on their own." "Experimental proof that such cycles are stable against the challenge of side reactions is even more important." "The prebiotic syntheses that have been investigated experimentally almost always lead to the formation of complex mixtures. Proposed polymer replication schemes are unlikely to succeed except with reasonably pure input monomers. No solution of the origin-of-life problem will be possible until the gap between the two kinds of chemistry is closed." "Solutions offered by supporters of geneticist or metabolist scenarios that are dependent on 'if pigs could fly' hypothetical chemistry are unlikely to help."


Leslie E. Orgel, Ph.D. Oxford, was a biochemist who studied life on primitive Earth. He conducted research at Cambridge, the University of Chicago, the California Institute of Technology, and later joined the Chemical Evolution Laboratory of the Salk Institute for Biological Studies in San Diego, California. He died at age 80 in October 2007. The above article was published posthumously.

After the “tree of life”
In a paper about bacteria, two evolutionary biologists write, “we cannot rely exclusively on traditional genealogical relationships." "A single taxonomy will be likely to provide an overly coarse picture”. It should be replaced by "more taxonomies based on real biological processes". "Discarding all but one of these process-based taxonomies would be comparable to reducing a person’s identity to a single aspect of his or her life, even though he or she might have an effective role in many organizations: professional, artistic, sports, family and so on. To avoid overlooking any of the natural groups, it seems legitimate to propose - rather than a single taxonomy of microbial species - many taxonomies". "We suggest giving up the unique hierarchy as the reference classification system and instead encourage the production of a comprehensive interactive database in which an individual could possibly belong to overlapping taxonomical groups.” “Any organism can then be characterized by many names because it can belong to more than one group at once.”


Epigenetics (meaning "above" genetics, as in controlling elements)
Evolutionists are starting to turn to epigenetics to explain macroevolutionary changes. However, most of them do not know much about molecular biology, and they are scrambling to catch up. "During the twentieth century, evolutionary and molecular biology diverged". "Few scientists were trained in both fields, and many biology departments were split up." "Most evolutionary biologists emphasize... variation". "Inferences about the historical mechanisms that generate variation are usually drawn from patterns of association". "The

Here is some of what real molecular biologists have learned, beginning with a March 2008 report in Science News magazine: "Many people regard ribonucleic acid, as RNA is formally known, as 'just a middleman between DNA and protein,' says Claes Wahlestedt, a neuroscientist and genome researcher at the Scripps Research Institute in Jupiter, Fla. Shutting genetic information from DNA to a cell's protein factories has long been recognized as RNA's day job, summarized" as "DNA makes RNA makes protein." "Some researchers estimate that as much as 98 percent of the human genome is copied into RNA, says Sofie Salama of the University of California, Santa Cruz." "Initial observations of the genome showed islands of protein-coding genes separated by vast oceans of DNA--sometimes called junk DNA--where nothing happened. That would mean that only about 2 percent of the human genome is transcribed into RNA. But recent efforts to map all of the RNA transcripts show that virtually every base pair of DNA in the human genome is copied into at least one RNA molecule."

"More than 20 classes of noncoding RNA have been discovered in the past decade. Many of these RNAs are much smaller than their protein-coding cousins, the messenger RNAs. Some noncoding RNAs contain a mere 20 nucleotides, the chemical units corresponding to letters in the genetic alphabet. Scientists used to throw away such short bits of RNA, thinking the tiny pieces were nothing more than breakdown products of larger molecules--basically garbage, Wahlestedt says."

"Researchers now know that noncoding RNAs get involved in virtually everything that happens in or to a cell, says Georges St. Laurent III, a computational and molecular biologist at George Washington University in Washington, D.C." "They monitor temperature, chemical conditions, electrical currents, and other signals from the environment and then tell the cell how to respond."

"One class of noncoding RNAs, known as microRNAs, modulates production of proteins. MicroRNAs get their name from their minuscule size--most are only about 22 nucleotides long. These short pieces of RNA find and bind to complementary sequences in messenger RNAs. Usually that binding causes the ribosome, the protein-building machinery in a cell, to grind to a halt. The ribosome remains paused until other signals allow it to resume making protein or until the RNA message is destroyed." "It's not only important that you make a particular protein, but when and where you make it,' Salama says."-- Tina Hesman Saey. March 1, 2008. Micromanagers: New classes of RNAs emerge as key players in the brain. Science News, Vol. 173, No. 9, pp. 136-137.

Non-coding RNAs have risen from "junk" to "drivers of complexity". "Sequencing the genomes of 85 species has revealed that in any given organism, increasing biological complexity is correlated with an increasing number of non-protein-coding DNA sequences and not, as previously assumed, with an increasing number of protein-coding genes." "The sheer number of non-coding RNAs is estimated in the 100s of thousands." "It is clear that tens of thousands may operate within a cell."

"Interference and activation can be caused by the same transcript". "A large part of the transcriptional activity in the human genome is derived from repeat sequences". "Repeat elements... occupy 40-45% of a typical mammalian genome". "Alu repetitive elements constitute 10% of the human genome."
elements, such as the Alu family in humans and B2 in mice have provided regulatory signals for RNA PolIII transcription." Some of the Alu elements... may have functions in stress response, chromatin organization or signaling events in the early embryo. Alu transcripts are... activated by heat shock and DNA damaging agents".

There are levels of non-coding RNA regulation that have yet to be discovered. Studying the old "junk" transcripts can lead to understanding hidden layers of cell regulation and how deregulation can lead to the understanding of human disease. "The scientific community is getting more aware of the importance of the formerly abandoned 'junk' DNA. What we have learned so far is likely just the tip of the iceberg." It is clear that biological complexity depends less on gene number and more on how those genes are used. Researchers are realizing that regulation is on multiple levels; there are intricate feedback loops. Stretches of DNA can be inactivated by attaching methyl groups. Tiny embryos need to grow according to a body plan organized in steps that have to happen at the right time in the right sequence. Their cells use timers and spatial signals to guide their growth. For example, a signal chemical is made at one end of an embryo and spreads out. Cells act according to how much signal chemical reaches them. Signal chemicals spreading from opposite ends of an embryo can interact to coordinate construction.

In small genomes, such as yeast, the parts of DNA that regulate a gene are next to the gene. In more complex genomes, such as human and mouse, they can be far apart. Cells have ways, still unknown, of moving sections of chromosomes next to each other to get the right parts together to control gene expression. This happens constantly.

To respond to a rapidly changing environment, a creature’s genes have to be turned on and off in a highly coordinated way. The genetic network must be stable under a broad range of conditions, but flexible enough to recognize and respond to important signals when things around it change. This operating at the brink of order and chaos is well known to systems scientists. They call such systems critical. This property has now been recognized in plants, animals, and microbes. It allows them to quickly detect and respond to external stimuli, small or large. In another surprise to evolutionists, genes they have long called vestigial junk have a clear purpose. Some genes are not transcribed into proteins, yet they seem related to working genes. So evolutionists figured these were leftover copying mistakes, called them pseudogenes (fake genes), and ignored them. Researchers studying cancer finally took a look at a pseudogene in action, and found that it competed with its working gene for the same non-coding regulatory RNA. Thus the gene and pseudogene act as decoys for one another, and affect the regulation of other transcripts. The pseudogene "is not a non-functional relic, but a modulator of gene expression." This "could have major implications for understanding mechanisms of disease, and of cancer in particular.” The authors find similar associations between other well-known cancer-associated genes and their corresponding pseudogenes." --Poliseno, Laura, Leonardo Salmena, Jiangwen Zhang, Brett Carver, William J. Haveman, Pier Paolo Pandolfi. 24 June 2010. A coding-independent function of gene and pseudogene mRNAs regulates tumour biology. Nature, Vol. 465, pp. 1033-1038. --Rigoutsos, Isidore, Frank Furnari. 24 June 2010. Decoy for microRNAs. News & Views, Nature, Vol. 465, pp. 1016-1017.
An evolutionary science report takes down a creationist icon

“If you want to see one of the wonders of the natural world, just startle a bombardier beetle. But be careful: when the beetles are scared, they flood an internal chamber with a complex cocktail of aromatic chemicals, triggering a cascade of chemical reaction that detonates the fluid and sends it shooting out of the insect's spray nozzle in a machine-gun-like pulse of toxic, scalding-hot vapor. The explosive, high-pressure burst of noxious chemicals doesn't harm the beetle, but it stains and irritates human skin—and can kill smaller enemies outright.”

“The beetle's extraordinary arsenal has been held up by some as a proof of God's existence: how on earth, creationists argue, could such a complex, multistep defense mechanism evolve by chance? Now researchers at Stevens Institute of Technology in Hoboken, N.J. show how the bombardier beetle concocts its deadly explosives and in the process, learn how evolution gave rise to the beetle's remarkable firepower.”

“Athula Attygalle, a research professor of chemistry and lead author of the work, said 'It turns out that the beetles' biochemistry is even more intricate than we'd thought.’ Previously, researchers had assumed that two toxic, benzene-like chemicals called benzoquinones found in the beetles’ spray were metabolized from hydroquinone, a toxic chemical that in humans can cause cancer or genetic damage. The team at Stevens showed that in fact just one of the beetle's benzoquinones derived from hydroquinone, with the other springing from a completely separate precursor: m-cresol, a toxin found in coal tar.”

“'It's fascinating that the beetles can safely metabolize such toxic chemicals’, Attygalle said. In future studies, he hopes to follow the beetles' chemical supply chain further upstream, to learn how the precursors are biosynthesized from naturally available substances.”
“The team’s findings also show that the beetles’ explosives rely on chemical pathways found in many other creepy-crawlies. Other animals such as millipedes also use benzoquinones to discourage predators, although they lack the bombardier’s ability to detonate their chemical defenses. Evolutionarily distant creatures such as spiders and millipedes use similar strategies, too, suggesting that multiple organisms have independently evolved ways to biosynthesize the chemicals.”

“‘That’s a reminder that the bombardier beetle, though remarkable, is part of a rich and completely natural evolutionary tapestry,’ Attygalle said. ‘By studying the similarities and differences between beetles’ chemistry, we can see more clearly how they and other species fit together into the evolutionary tree’, he explained. ‘Beetles are incredibly diverse, and they all have amazing chemical stories to tell.’” - Benios, Thania. June 16, 2020. Research reveals the chemistry behind the bombardier beetle’s extraordinary firepower. https://phys.org/news/2020-06-reveals-chemistry-bombardier-beetle-extraordinary.html

Well, did you learn how evolution gave rise to the beetle’s remarkable firepower? No? Here is a hint: other unrelated insects use the toxic chemicals too; the bombardier beetle is not the only one. So we can say it evolved! If it were the only one, it would have evolved too, but this is better because all of them evolved. And that’s how evolution did it – by evolving. What? You want step by step genetic changes leading to complex novel function? Sorry; this is all you get from evolutionary science.

The Mind of an Evolutionist

" 'Contemporary evolutionary thinking maintains that smaller island mammals will rapidly grow larger towards the optimal size, while bigger animals will rapidly shrink.' " Evolutionists call this Optimal Body Size Theory, or OST. A member of a research team was interviewed about their study that "looked at a theoretical optimum body size towards which mammals are expected to grow, on both island communities and on the mainland." " 'There is a tendency to believe that big animals become very small on islands, and small animals become very big, due to limited resources or lack of competition. I've shown that this is just not true, at least not as a general rule.' " "Incorporating large data sets that compared body sizes on various islands and on mainland communities, Dr. Meiri and his colleagues found no such tendency for bizarrely-sized animals to develop on islands. 'We concluded that the evolution of body sizes is as random with respect to "isolation" as on the rest of the planet. This means that you can expect to find the same sort of patterns on islands and on the mainland.' Dr. Meiri attributes our widely held misperceptions about 'dragons and dwarfs' to the fact that people tend to notice the extremes more if they are found on islands. "Darwin's fascination with the Galapagos island chain... is just one example." " 'I think it's purely a psychological bias,' Dr. Meiri concludes. 'It's just magical thinking. Nothing more.' " "Magical Thinking' About Islands an Illusion? Biologist Refutes Conventional Thinking on Evolution. July 8, 2010. Science Daily, online news release.

"We found no support for any of the predictions of the optimal size theory." "The concept of a single optimal body size is not supported by the data that were thought most likely to show it." "It is remarkable that this theory fails to apply under the circumstances which best match its predictions (on islands)."-- Raia, Pasquale, Francesco Carotenuto, Shai Meiri. 2010. One size does not fit all: no evidence for an optimal body size on islands. Global Ecology and Biogeography, Vol. 19, pp. 475-484.

Evolutionists claim to rely only on natural forces, but natural forces cannot design and build new plants and animals. So they add magical thinking, the perfect description of the evolutionist mind.
Zombie science

“Although the classical ideal is that scientific theories are evaluated by a careful teasing-out of their internal logic and external implications, and checking whether these deductions and predictions are in-line-with old and new observations; the fact that so many vague, dumb or incoherent scientific theories are apparently believed by so many scientists for so many years is suggestive that this ideal does not necessarily reflect real world practice. In the real world it looks more like most scientists are quite willing to pursue wrong ideas for so long as they are rewarded with a better chance of achieving more grants, publications and status.”

To say “that the theory is phoney, and always was phoney, and this is why it so singularly fails to predict reality is regarded as simplistic, crass, merely a sign of lack of sophistication. And anyway, there are... the reputations of numerous scientists who are now successful and powerful on the back of the phoney theory, and who by now control the peer review process (including allocation of grants, publications and jobs) so there is a powerful disincentive against upsetting the apple cart.”

“Zombie science is science that is dead but will not lie down.” “Zombie science is supported because it is useful propaganda. Zombie science is deployed in arenas such as political rhetoric, public administration, management, public relations, marketing and the mass media generally. It persuades, it constructs taboos, it buttresses some kind of rhetorical attempt to shape mass opinion. Indeed, zombie science often comes across in the mass media as being more plausible than real science.”-- Charlton, Bruce G. 2008. Zombie science: A sinister consequence of evaluating scientific theories purely on the basis of enlightened self-interest. Medical Hypotheses, Vol. 71, pp. 327-329.

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**Darwin is liked by evolutionists because he liberated science from the straitjacket of observation and opened the door to storytellers. This gave professional evolutionists job security so they can wander through biology labs as if they belong there.**

--- David Coppedge
Speaking of Science, *Creation Matters*, May/June 2003

**You can’t win a scientific debate with a storyteller who thinks his imagination is equivalent to scientific evidence.**

--- David Coppedge
Creation-Evolution Headlines (crev.info), February 3, 2016


2006-2020
John Michael Fischer
mike@newgeology.us
If I can just synthesise life here... then I’ll have proven that no intelligence was necessary to form life in the beginning!

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