

3. How could mutations create the huge volumes of information in the DNA of living things? (Mutations are accidental copying mistakes; DNA ‘letters’ exchanged, deleted or added, genes duplicated, chromosome inversions, etc.) How could such *errors* create 3 billion letters of DNA information to change a microbe into a microbiologist? There is information for how to make proteins but also for controlling their use—much like a cookbook contains the ingredients as well as the instructions for how and when to use them. One without the other is useless. See creation.com/meta-information. Mutations are known for their destructive effects, including over 1,000 human diseases such as hemophilia. Rarely are they even helpful, but even then they are going in the wrong direction. creation.com/train.

4. Why is natural selection taught as if it explains the origin and the diversity of life? This is especially puzzling since creationist biologists also accept natural selection, and did so before Darwin. By definition it is a selective process (selecting from already existing information), so is **not a creative process**. It might explain the *survival* of the fittest (why certain genes benefit creatures in certain environments), but not the *arrival* of the fittest (where the genes and creatures came from in the first place). The death of individuals not adapted to an environment and the survival of those that are suited **does not explain the origin of the traits that make an organism adapted to an environment**. E.g., how do minor back-and-forth variations in finch beaks **explain the origin of beaks or finches?** creation.com/defining-terms

5. How did new biochemical pathways originate? New pathways and nano-machines require multiple protein/enzyme components to work. How did accidental changes (mutations) to existing DNA create even one of the components, let alone 10 or 20 or 30+ at the same time to create

the new, useful, functional biochemical pathways and nano-machines needed to make ‘goo-to-you’ evolution possible? E.g. How did a 32-component rotary motor like ATP synthase (which produces the energy currency, ATP, of all life), or kinesin (a ‘postman’ delivering parcels inside cells) originate? Evolutionary biochemist Franklin Harold wrote, “we must concede that there are presently no detailed Darwinian accounts of the evolution of any biochemical or cellular system, only a variety of wishful speculations.”³ creation.com/motor (includes animation).

6. Living things look like they were designed, so how do evolutionists know that they were *not* designed? Richard Dawkins wrote, “biology is the study of complicated things that have the appearance of having been designed with a purpose.”⁴ Francis Crick, the co-discoverer of the double helix structure of DNA, wrote, “Biologists must constantly keep in mind that what they see was not designed, but rather evolved.”⁵ The problem for evolutionists is that living things show *too much design*. Who objects when an archaeologist says that pottery points to human design? Yet if someone attributes the design in living things to a designer, that is *not* acceptable. **Why should science be restricted to naturalistic causes rather than logical causes?** creation.com/design_legit

7. How did multi-cellular life originate? How did cells suited to individual survival ‘learn’ to cooperate and specialize to make nerve, muscle, and blood cells, etc.—including undergoing self-sacrificing programmed cell death—to create complex plants and animals? creation.com/multicellularity

8. How did sexual reproduction originate? Asexual reproduction gives up to twice as much reproductive success (‘fitness’) for the same resources as sexual reproduction, so how could the latter ever gain enough advantage to be selected? And how could mere physics and chemistry invent the complementary apparatuses needed at the same time (non-intelligent processes cannot plan for future coordination of male and female organs). creation.com/evosex

9. Why are the expected countless millions of transitional fossils missing? Darwin noted the problem and it remains. The evolutionary family trees in textbooks are based on **imagination**, not fossil evidence. Famous Harvard paleontologist (and evolutionist), Stephen Jay Gould, wrote, “The extreme rarity of transitional forms in the fossil record persists as the trade secret of paleontology.”⁶ Other evolutionist fossil experts also acknowledge the problem.

creation.com/pattquote

10. How do ‘living fossils’ remain unchanged over supposed hundreds of millions of years? (Note: evolution changed worms into people in this timeframe.) Professor Gould wrote, “the maintenance of stability within species must be considered as a major evolutionary problem.”⁷ creation.com/living_fossils

11. How did blind chemistry create mind/intelligence, meaning, altruism and morality? If everything evolved, and we invented God, as per evolutionary teaching, what purpose or meaning is there to human life? Should students be learning *nihilism* (life is meaningless) in science classes? creation.com/chesterton

12. Why is evolutionary storytelling tolerated? Evolutionists often use flexible storytelling to ‘explain’ observations contrary to evolutionary theory. NAS(USA) member Dr Philip Skell wrote, “Darwinian explanations for such things are often too supple: Natural selection makes humans self-centered and aggressive—except when it makes them altruistic and peaceable. Or natural selection produces virile men who eagerly spread their seed—except when it prefers men who are faithful protectors and providers. When an explanation is so supple that it can explain any behavior, it is difficult to test it experimentally, much less use it as a catalyst for scientific discovery.”⁸ creation.com/sexstories

13. Where are the scientific breakthroughs due to evolution? Dr Marc Kirschner, chair of the Department of Systems Biology, Harvard Medical School, stated: "In fact, over the last 100 years, almost all of biology has proceeded independent of evolution, except evolutionary biology itself. Molecular biology, biochemistry, physiology, have not taken evolution into account at all."⁹ Dr Philip Skell, the 'father of carbene chemistry', wrote, "It is our knowledge of how these organisms actually operate, not speculations about how they may have arisen millions of years ago, that is essential to doctors, veterinarians, farmers"¹⁰ Evolution actually *hinders* medical discovery.¹¹ Then **why do schools and universities teach evolution so dogmatically, stealing time from experimental biology that so benefits humankind?**

creation.com/science#relevance

14. Why is evolution, a theory about history, taught as if it is the same as operational science? You cannot do experiments, or even observe what happened, in the past. Asked if evolution has been observed, Richard Dawkins said, "Evolution has been observed. It's just that it hasn't been observed while it's happening."¹²

creation.com/notscience#distinction

15. Why is a fundamentally religious idea taught in science classes? Dr Michael Ruse, evolutionist science philosopher admitted, "Evolution is a religion. This was true of evolution in the beginning, and it is true of evolution still today."¹³ **If 'you can't teach religion in science classes', why is evolution taught?**

creation.com/evo-religious, creation.com/notscience

See also the attempts to answer the questions and our responses at: creation.com/QE1 (first part of three).

References

1. Davies, Paul, Australian Centre for Astrobiology, Sydney, *New Scientist* **179**(2403):32, 2003.
2. Knoll, Andrew H., *PBS Nova interview*, How Did Life Begin? July 1, 2004.
3. Harold, Franklin M. (Prof. Emeritus Biochemistry, Colorado State University) *The way of the cell: molecules, organisms and the order of life*, Oxford University Press, New York, p. 205, 2001.
4. Dawkins, R., *The Blind Watchmaker*, W.W. Norton & Company, New York, p. 1, 1986.
5. Crick, F., *What mad pursuit: a Personal View of Scientific Discovery*, Sloan Foundation Science, London, p. 138, 1988.
6. Gould, Stephen Jay, Evolution's erratic pace, *Natural History* **86**(5):14, May 1977.
7. Gould, S.J. and Eldredge, N., Punctuated equilibrium comes of age. *Nature* **366**:223-224, 1993.
8. Skell, P.S., Why Do We Invoke Darwin? Evolutionary theory contributes little to experimental biology, *The Scientist* **19**(16):10, 2005.
9. As quoted in the *Boston Globe*, 23 October 2005.
10. Skell, P.S., The Dangers of Overselling Evolution; Focusing on Darwin and his theory doesn't further scientific progress, *Forbes* magazine, 23 Feb 2009; Forbes.com/2009/02/23/evolution-creation-debatebiology-opinions-contributors_darwin.html.
11. E.g. Krehbel, M., Railroad wants monkey off its back, *Creation* **16**(4):20-22, 1994; creation.com/monkey_back
12. pbs.org/now/printable/transcript349_full_print.html, 3 December, 2004.
13. Ruse, M., How evolution became a religion: creationists correct? *National Post*, pp. B1, B3, B7 May 13, 2000.

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15 Questions for Evolutionists

(Evolution: the naturalistic origin of life and its diversity)

1. How did life originate? Evolutionist Professor Paul Davies admitted, "Nobody knows how a mixture of lifeless chemicals spontaneously organized themselves into the first living cell."¹ Andrew Knoll, professor of biology, Harvard, said, "we don't really know how life originated on this planet."² A minimal cell needs several hundred proteins. Even if every atom in the universe were an experiment with all the correct amino acids present for every possible molecular vibration in the supposed evolutionary age of the universe, not even one average-sized functional protein would form. So **how did life with hundreds of proteins originate just by chemistry without intelligent design?** creation.com/ool

2. How did the DNA code originate? The code is a sophisticated language system with letters and words where the meaning of the words is unrelated to the chemical properties of the letters— just as the information on this page is not a product of the chemical properties of the ink (or pixels on a screen). **What other coding system has existed without intelligent design?** How did the DNA coding system arise without it being created? creation.com/code