

## 18. Elaboration with a Communications Analogy

The following is a good analogy for understand the nature of cellular and genetic communications.<sup>194</sup> Zayd has a thought and goes to his **laptop** that is running the Windows **operating system**. He opens up **Microsoft Word**, creates a new **document** and writes a **message**. He inserts an **image** into the document. After saving the document, he opens his **email program**. He composes a message in which there are instructions, attaches his document and presses the send button.

The above steps are performed routinely by millions of people today. A closer inspection of what is going on behind the scenes will provide another accurate analogy for what naturalist, atheist religious fundamentalists want people to believe.

There are several layers involved here. A message originating in the mind of Zayd was typed into Microsoft word in **.docx** format. An image in **.png** format was embedded into the word processor. This document, which has its own form of encryption and metadata, was embedded in an email which has its own format and file structure, **.eml**. In each of these layers there is content and metadata which provides information about the content such as date, size and so on. When the send button is pressed, there is another layer called **TCP/IP** through which the message is sent over the **ethernet cable** which is the physical medium of transfer. If a wireless connection to the Internet was used, then another layer of communication would be added which involves encryption and radio waves.

On the receiving end is Khālid and for him, everything works in the reverse order. He sees the information in the document at the end of a series of steps. He connects to the Internet—through the TCP/IP layer, opens his email program, retrieves his emails, opens

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<sup>194</sup> Refer to Marshall, P. *Evolution 2.0*. Dallas: Benbella (2015), pp. 40-46; Gašper Tkačik and Aleksandra M Walczak. *Information transmission in genetic regulatory networks: a review*. Journal of Physics: Condensed Matter, Volume 23, Number 15, (April 2011); Alex Rhee, Raymond Cheong and Andre Levchenko. *The Application of Information Theory to Biochemical Signaling Systems*. Physical Biology, Volume 9, Number 4 (August 2012).

the document and views the text and image. Note that the email must be opened within a specific program and the document must be opened in Word or a compatible piece of software. Further, in every layer there are **error checks** to ensure that the format has not been corrupted. The data (text and image) exists only in binary format, as 0's and 1's throughout its passage.

What we have is a message, inside a message, inside a message and so on and at every level, the message is encoded or encrypted and has to be decoded and decrypted at the receiving end. All of this is achieved through a series of communication protocols, hardware, operating system and software layers. To put it another way, we have a small box placed in a slightly larger box, and then continue upwards another four or five times until we have a package of six or seven boxes. Information lies in the innermost box. The outermost box is the physical medium (the ethernet cable connecting to the internet and on to the rest of the network).

The above is an excellent, physically and highly accurate description for the DNA-gene-cell system. This is not a metaphor or an allegory as has preceded. It is in its real and true sense. We have already cited from evolutionary biologists themselves such as James Shapiro, as well as pioneering information theorists such as Hubert Yockey, establishing these facts.

Cells possess sophisticated tools for performing the tasks of:

- reading,
- writing,
- editing,
- encrypting,
- decrypting,
- sending,
- translating,
- and processing coded messages.

DNA is the physical medium, the chemical paper, on which data, the message is written. Every tool is used at the right place at the right time at the right layer. When errors are made in any of these steps, information is corrupted and defects arise. Cells have

correction machinery and mechanisms to ensure data integrity throughout the transmission process.

If we replace the TCP/IP, ethernet cable layer in our analogy with a CD instead, then our information is being carried on a different physical medium. It has to be read through another tool or device, by a CD player. Data in this form has to be transported physically, hand to hand. This is a slightly different scenario.

In order to protect their superstitious beliefs and faith in miracles that cannot be accounted for by physicochemical dynamics, atheist evolutionists dismiss these accurate, precise physical analogies. We have already established in what has preceded that the biology of organisms and information and computer science have essentially merged due to advancements in knowledge of cellular function and genetics.

### **Biology is an information science.**

Religious atheists are scrambling to inject their naturalism into this subject area as medicinal relief and remedy for cosmic authority syndrome: the hatred and resentment that there should be a knowing, willing, able divine authority over the universe at all.

What naturalists and atheists want rational people to believe is that random scratches on the surface of the CD, the information carrying medium, lead to, over time, rare beneficial mutations that alter the data and can lead to novelty. If the CD contained a 15 minute lecture, then over long periods of random scratching and cumulative selection for certain advantageous scratches taking place as CDs are replicated, a more complex, different and longer lecture will emerge of 25 minutes length. If the CD contained a document or an image of 350 kilobytes, then over long periods of random scratching and cumulative selection for advantageous scratches, a much larger, more sophisticated document or image will appear, having a size of 2.4 megabytes.

### **This is the sum of their knowledge and their intellects.**

The similitude of the one who induces mutations in fruit flies expecting that novel advantageous traits and features will develop, be selected for and over time and lead to a *physiologically different*

species altogether is as the similitude of the insane simpleton who scratches his CD anticipating that selection for advantageous scratches will lead to new novel information and therefore an extended, more sophisticated track. There is no difference between the levels of intelligence between the two of them and academic qualifications do not differentiate between their intellects.

Earlier, we established that population geneticists are aware of the huge **mutation problem** and the **cost of selection problem** and these are highlighted in the scientific literature. These two problems have been fatal to the neo-Darwinian modern synthesis which asserts that *random mutations acted upon by natural selection* provides the basis for all biological diversity from one common ancestor. The growing realisation that there is little difference between molecular biology and computer and information systems has hastened the kill.

This explains why the neo-Darwinian modern synthesis—whose religious priests include Richard Dawkins—has been relegated to the back seat, if not in the dustbin by other evolutionary biologists. In turn, the problem facing these evolutionary biologists is even more difficult. Whereas natural selection and random mutations provided a naturalistic mechanism for biological diversity at the molecular and organism level, the problem that has to be solved now is one of information since it is now established that all biological life is based upon coded information. Natural mechanisms are being sought for both the initial appearance and generation of new information, and once you peel away the cryptic, complicated, scientific language used, they are truly laughable. This is because information cannot be reduced to physicality, since it is independent of any medium. The meaning of words on paper cannot be explained by physical and chemical properties of ink. **Information is a fundamental entity on its own and cannot be explained through physicochemistry.** Just as the neo-Darwinian mechanism was a goose-chase for the better part of the 20th century and came to nothing, evolutionary biologists have embarked upon another goose-chase in the 21st century, save that with a better educated public with much easier access to knowledge, this goose-chase will be short-lived inshā' Allāh.