

DIVINE TRANSMISSION OF KNOWLEDGE TO MAN

Adam's microbioprogram carries *a priori* knowledgebase (AKB) with necessary software package for its dissemination (Knowledge Dissemination Software, KDS). This is an exclusive biomemetic feature of *Homo sapiens*. Insofar as both IBS and KDS accomplish the task of creating the next generation biomemome in respect of biodiversity and knowledge respectively, it may be assumed that these two packages are operating in tandem. Knowledge (*ilm*) is true information. Both spiritual and secular knowledge originate from Allah. Secular knowledge is knowledge other than the religious knowledge. Release of spiritual knowledge through prophets by Allah led to the evolution of the religion Islam and the release of secular knowledge led to the evolution of other domains of knowledge relevant to this world (e.g., science, technology, arts, etc.). The source of secular knowledge is Adam's *nafs*. Secular knowledge evolves biomemetically like human biodiversity.

Evolution of secular knowledge

The first gift Adam received from Allah was knowledge (Q. 2:30-34). The first ever revelation to Prophet Muhammad (S.A), an illiterate man, from Allah was also about knowledge. That message appears in the ninety sixth *sura* (chapter), *Iqra* (or *Alaq*), in the Quran. The *sura* conveys to the humanity thus:

“Read in the name of your Lord and Cherisher Who
created; created man out of a clot of congealed blood;
Read! And your Lord is Most Bountiful; He Who
taught (the use of) pen, taught man that which he did
not know....” (Q. 96:1-5)
“He taught him (man) speech.” (Q. 55:4)

Besides reiterating that knowledge originates from Him, Allah also informs through these verses of His three more gifts to us namely the ability to speak, read and write. These capabilities are vital requisites for utilizing the knowledge. Without these abilities, knowledge would have remained meaningless and useless. Knowledge thrives, perpetuates and gets disseminated among people by these methods. Empowerment of man with the three faculties means necessary software packages for their development are available in Adam's *nafs*. We exchange information generally through language. Although gesturing is a form of articulation (natural choice of the deaf and dumb), it is no substitute for any of these modes of communication and is limited in scope. Gesticulation is also a language. Human beings can learn more than 10000 languages [1]. Man thinks, speaks and writes in certain language(s). Can anyone think without language? No. But that does not mean information does not exist. It exists in an intangible (*ghayb*) form in our memory. It is made tangible (understandable) by the use of appropriate language software by the *qalb* provided in the biomemome. The intangible information is thus translated into tangible form. A piece of information is stored in our memory (*sadr*) in *ghayb* form of energy. While retrieving it, our *qalb* uses the language software and translate it into the language of we know. A computer also needs the appropriate language software for its functioning. It appears that language software available to the

qalb is capable of handling many languages limited only by one's knowledge of them. Additionally man is endowed with software packages for speech, writing and reading. Thus we are enabled to read, write and speak. Nobody ponders over how information pops up on the *qalb* in the language he knows while reading, writing or speaking. Our general impression is that the information is available in our memory in the language we know. A linguist with knowledge of more than one language can do all these functions in any of the languages he knows. Does that mean the information we collect is stored in our memory in different languages? Certainly not! Allah has not revealed to us the basic nature of information energy and how it is stored in our cells. Information is however not stored in any human languages but in an intangible form (*ghayb*) on the chromosome that can be however retrieved in any language known to the individual. It is these God-given software packages that empower us to think, speak and write. We refer to these unique utility software packages as higher faculties.

The languages our ancestors used have now disappeared and in their place new languages have emerged. All languages undergo modifications continually as necessitated by the changing social, economic, scientific and cultural scenarios. Language originated with Adam as can be inferred from the Quranic revelation of Allah communicating with Adam and Eve (Q. 2:33, 35; 7:19, 23-25). Satan also communicated with them (Q. 7:20-21) in the Garden, their original residence. The Quranic verses (Q. 96:4-5; 55:4) quoted above imply that Allah has incorporated all the language software packages and their respective systems of writing into Adam's *nafs* and it is these languages that are dispensed to humanity in a programmed manner. The Quran thus provides information on the source of language and its evolution. Man cannot create language at his will. He develops only those languages included in Adam's *nafs*. This would mean our *qalb* cannot accept any language, grammar or a word that is not given in our species' microbioprogram. For instance the word "computer" was there in Adam's *nafs* and it travelled biomemetically all the way down to the selected individual who coined that name at a pre-determined time. We gave the name "robot" to our machine because it is the name Allah wanted us to give to that machine. Allah also calls us as robot (*abd*). This is no coincidence because there is no such thing as undesigned coincidence or chance in the universe. It happened as programmed by Allah.

Novelists, poets and other genres of writers are quite aware that ideas, themes and style of writing come to them at certain times of their life. The matter to write will flow to their *qalbs* freely at pre-determined times. They cannot decide on a topic or time for writing. For instance if a poet wants to write a poetry about war, he will not be able to do so if the right biomemes are not available in his biomemome at that time. Mere availability of the biomemes is not enough. It makes them only biomemetic vectors. One also needs access to the right kind of biomemes. If one does not have access, no idea flows into his mind (*qalb*) even if he has the biomemes. The people who have the biomemes and access experience the flow of information. But where from it comes? All of us will agree it is from brain. That means all the poetry, essay or novel is there in the brain. No one can deny this fact although we do not generally bother to think *how it got there*. If these biomemes are not there, there will be no poetry, no novel, no music, no song, no science and no technology. The presence of the biomeme in the brain is vital for accessing it. The human system is a biocomputer run on the divine biomemome. A computer can retrieve information only if it is available in its memory and can be

accessed. These two conditions apply to humans also. If the biomeme is not there none can create it also. For instance, you meet with a stranger on the street. You do not know his name. No amount of thinking will help you to bring his name to your brain. This holds true for all kinds of information including science. We cannot create information about the unknown in our brain. Scientific information does not flow into our brains from thin air. It has to be there in our memory cells. If that were not the case and information comes from outside of our body, anybody would have discovered any theory. Nothing of that sort has happened nor will it happen. All these have been programmed by Allah through Adam's *nafs*.

Science and technology

Science and technology evolves biomemetically within a specified timeline. The mode of evolution of secular knowledge including science and technology is similar to that of biodiversification (Fig. 10.1). The source of secular knowledge is Adam's *nafs*, the knowledge (AKB) Allah taught him. From Fig. 10.1 (human biodiversification), it is also possible to understand how a knowledge meme (which is also a biomeme) traverses from Adam and reach the selected person (scientist) generations later (as programmed) for its release (discovery or invention). In this case KDS is the software package (see Fig. 8.1) instead of IBS (for biodiversification). The knowledge is available in human biomemome in the form of ideas, hints etc. A human being with access may either download the biomeme from its storage onto the *qalb* or it may serve as prompts to generate more information about a particular phenomenon through observation and experimentation. Science and technology through pursued research develop in this way. There is also the category of unpursued or the so-called 'accidental' discoveries. The term 'accidental' is a misnomer as these discoveries also happen at times specified in the KDS. A more comprehensive discussion of evolution of science and technology may be found elsewhere [2, 3]. Science and technology advance along the course pre-determined by Allah. As in the case of novelists, poets, etc., scientists and technologists cannot invent a thing of their choice unless they have the right biomemes and access. It must be realized that the information (biomemes) for future discoveries is available now in the cells of many people. But they can act only as biomemetic vectors for they do not have the access; the time has not yet come for the release of biomemes they carry. For instance so much research is being carried out to find out cure for AIDS and cancer. Our research will be successful only if the information we look for has been incorporated in Adam's *nafs* by Allah. If it is there, some people who may not be even scientists may be carrying it in their biomemomes now. They are unaware of it because they do not have access to that information at the moment. If perhaps at a later time in their life they get access to that information, they will become the discoverers and inventors of that scientific fact. If not, they may serve as biomemetic (knowledge) vectors passing the information over to the next generation. It will reach the person assigned by Allah through biomemetic line and the information will be released (discovered) at the time stipulated in the KDS.

“For every message, there is a pre-determined time....”

(Q. 6:67)

This message should be read together with the message, “It is He Who shapes you in the womb as He likes” (Q. 3:6), to absorb the full implication as well as to understand the biomemetic linkage between KDS and IBS. When Allah ‘taught’ (installed knowledge)

Adam *names* (Q. 2:30-33), Adam (A.S.) did not even know he was carrying all the knowledge that is to be disseminated to humanity in future. From the Quranic messages relating to knowledge, it is thus evident that biomimetic pathway is the most probable route through which the knowledge Adam received from Allah is transmitted to future generations of mankind in a programmed manner. This is also discernible from the historical data on science and technology.

An analysis of the worldwide Nobel winning trends in science (physics, chemistry and medicine/physiology) by different nationals (country of birth) from its introduction year 1901 to 2006 indicates a skewed distribution with Americans topping the list [4]. Out of 514 winners, 185 were from USA (36%). Germany (74), U.K. (67) and France (28) led the European table with a tally of 270. The share of Russia/erstwhile USSR was 16 while Asian countries lagged behind with a total count of 18 of which 50% were Japanese. The concentration of Nobel laureates in a particular geographical region (USA and Europe) is suggestive of a common descent for the transmission of knowledge over the period considered. This will explain why the rest of the human population in the world is relatively barren in this respect. The results thus affirm that discovery or invention is not a random phenomenon with equal chance for everyone to make it. The distribution pattern clearly indicates a programmed biomimetic route for the transmission of scientific and technological information to reach the individuals selected by Allah for release of the knowledge. This conclusion is even more strengthened by the fact that the list includes the so-called 'accidental' discoveries also.

Compared to men, women laureates are very less. In science there are 11 women laureates; 2 in physics, 3 in Chemistry and 7 in medicine/physiology. One of them, Marie Curie, got Nobel twice – in physics and chemistry. The fact that males dominate the Nobel list is because Allah chose mostly males to disseminate the scientific knowledge. Had Allah chosen the females, the story would have been reversed. Incidentally, it may be mentioned that all the prophets who transmitted Allah's religion (Islam) at different times of history were also men (Q. 16:43; 21:7).

Although not very infrequent, aptitude in science shown by members of the same family descent also testifies the proposal of biomimetic mode of knowledge transmission. In the history of Nobel Prize, the kin cases include a mother-daughter, a father-daughter, six father-son, and a case of two brothers. Another case of within-family laureates is Sir C.V. Raman and Subramanyan Chandrasekhar. The data also suggest parallel operation of KDS and IBS. All these trends support the programmed evolution of knowledge through specific pathway from a common biomimetic pool – Adam's *nafs*.

A scientist who discovers or invents a thing is in fact releasing a new knowledge to humanity at a pre-determined time. That way scientists and technologists play the role of divine messengers. What prophet is to religion, scientist is to science. A scientist is one who is biomimetically predisposed to possess the invention/discovery biomeme with permission to access it. The unpredictability of discoveries or inventions is a consequence of this divine mode of knowledge transmission. Not even the scientist knows what he will discover or whether he will discover at all. This is also reflected in the following comments made by scientists about their discoveries. Anthony Hewish, the discoverer of the first pulsar says: "I only wish I could say that we were looking for pulsars at the time, but the truth is that my colleagues and I were studying quasars, the mysterious radio galaxies situated far beyond the confines of the Milky Way, when the first pulsar

unexpectedly placed its signature upon our records. By an extremely fortunate twist of fate, the new radio telescope that we were using was ideally suited to pick up the rapid succession of faint radio pulses that characterise these fascinating objects” [5]. One autumn evening in 1865, Friedrich August Kekule, a German chemist, was taking a nap when he saw in a dream great numbers of atoms dancing before him. According to his own account, he was particularly struck by certain groups of atoms, “all turning and twisting in snake-like motion. But look! What was that? One of the snakes had seized its own tail and the form whirled mockingly before my eyes. As if roused by a flash of lightning, I awoke”. Amazingly, this vision gave Kekule the clue he needed to propose the structure of benzene molecule [5]. These examples also show how biomemetically selected scientists get prompted by the KDS.

The timing of discoveries and inventions and step by step upgradation of our knowledge is very much evident from the history of science. The discoveries did not happen in a random fashion. We find a sequence from less developed to more developed ones over time. The timelines of discoveries and inventions indicate that. The timeline and sequence observed for major discoveries in computer technology (up to 1942) are presented in Table 1. The progression of the discoveries made of the transition temperature (T_c) in super conductivity would also throw light on the prescribed sequence and time of happening of discoveries (Fig. 1). It started in 1911 with Kamerlingh Onne’s discovery of super conductance of mercury at about 4 K. The world record of T_c of 138 K is now held by a thallium-doped, mercuric-cuprate [6]. Superconductivity has been a Nobel-fertile field. The discoveries of superconducting substances in several cases have been serendipitous. In *Physics World* magazine of April 2001 issue, Colin Gough writes about the discovery of superconducting magnesium diboride (MgB_2) thus: “One of the most bizarre aspects of this latest discovery is that magnesium diboride has been sitting on chemists’ shelves for almost 50 years. No one recognized that it was even an interesting metal - let alone a record-breaking superconductor.” [7].

Albert Einstein’s miracle year came in 1905 when he was 26 years old and working as a patent examiner in Bern, Switzerland, and *not as a scientist working in a research institute or university*. He proposed that light, which in classical physics is a wave, could also be thought of as consisting of discrete bits of energy which he called quanta. The implied wave-particle duality of light became the cornerstone of the new quantum theory [8]. There has not been another person prior to him to get that idea. It may be inferred that the biomeme carrying information about light (wave-particle duality) travelled right from Adam through millions of generations along the germ-cell routes specified by the KDS and reached the zygote that created Einstein. His biomemome also carried permission to access that biomeme at a specified time during his life. Thus he got access to that information by way of intuition and he proposed the theory. That was when he was 26 years old (in 1905) and working as a patent examiner! Every discovery or invention takes place according to the divine program.

The proposal of divine program determining the course of scientific discoveries may be refuted on the ground that most of the countries other than the USA and European with perhaps the exception of countries like Russia (the erstwhile USSR) and Japan are underdeveloped and do not have the necessary infrastructure to conduct high-tech research. In other words lack of sophisticated facilities in these countries would have made them scientifically or intellectually infertile and barren. This argument however

does not stand up to realities. First, there are several scientific fields that do not require sophisticated instrumentation and laboratory facilities to carry out research. These include mathematics, several areas of theoretical physics, botany, zoology, breeding, social and economic sciences, to name but a few. But still scientific contributions from other countries in such fields are meagre. The discoveries and technological inventions made prior to the twentieth century were not with the help of sophisticated instrumentation and laboratory facilities. Inventions of electric bulb, telegraph, antibiotics, chemical structures, and a wide variety of other discoveries were born in mediocre laboratories no way comparable with the present-day facilities. What is to be noted is that they all occurred as per the program and the biomemes that carried the information were released through the selected scientists at stipulated times.

“...Nor shall they obtain aught from His knowledge
except as He wills...” (Q. 2:255)

If people of the discovery-barren countries had carried the biomemes with access, they would also have made discoveries. This argument does not imply that human beings outside of the western belt are destined to be scientifically inert and unproductive for ever. We do not know what is in store. We are yet to witness how the KDS will unfold in the future. Perhaps the present trend may be totally reversed allowing the current ‘intellectually unproductive’ population of human beings to play the bigwigs in science and technology of tomorrow, and the now reigning science and technology giants will be pushed to backseat. One can think of all kinds of possibilities.

It is a misconception that our intelligence produces discoveries and inventions through research but as discussed, it is one’s biomemetic predisposition that brings in discoveries and inventions. However intelligence does help in analysing the experimental results fast and better. Intelligence is defined here as the ability of the *qalb* to analyse a situation or an issue in the light of the available information in his memory (*sadr*). Intelligence is a phenomic character. As any other attribute, intelligence is inherited through IBS whereas one’s discovery potential is decided by KDS.

The Satan also influences the development of science (pseudoscience) by deflecting human thoughts from the divine path. (This is also true of other intellectual works like literature, arts, etc.). The classical instances of satanic influence on science are the development of steady state cosmology to counter the theistic implications of the big bang model and Darwin’s theory of chance evolution of biological organisms obviating the need of Creator Allah.

Besides giving us knowledge about the universal components and technology for our multifarious purposes, science also helps us to comprehend the Quran with sound reason and in a much wider perspective. The level of comprehension of the Quranic revelations about the universe is enhanced manifold through application of science.

“He it is Who has sent down to you the Book: In it are verses basic or fundamental (of established meaning); they are the foundation of the Book: others are allegorical. But those in whose hearts is perversity follow the part thereof that is allegorical, seeking discord, and searching for its hidden meanings, but no one knows its hidden meanings except Allah. And those who are firmly grounded in knowledge say: We believe

in the Book; the whole of it is from our Lord, and none will grasp the Message except men of understanding.”

(Q. 3:7)

One of the divine purposes of science is to make Allah’s Message clearer and His signs more revealing. There are many verses in the Quran like the one above (Q. 3:7) that suggest it will be the knowledgeable who will grasp the Message better. There are many verses that convey the importance of knowledge to understand the Quran and Allah’s signs. These messages literally convey the synergism between these two domains of revealed knowledge. As science and technology advance, our understanding of the Quran and the universe will also improve.

Finite nature of secular knowledge

Whatever knowledge we have is what Allah wishes to reveal to us. We may find our knowledge incomplete and wanting in many respects. Maybe Allah wants us to know only a little about certain phenomena, more about some other phenomena and nothing about still other phenomena. We have been informed of this fact. The Quran tells us the quantum of knowledge man is entitled to get is very little.

“...Of knowledge it is only a little that is communicated to you (O men!).”

(Q. 17:85)

This message is suggestive of the finite nature of our secular knowledge and also implies that some day when all the knowledge biomemes carried in Adam’s *nafs* have been released, there will be no more flow of new knowledge. If that happens long before the end of the world, science and technology will come to a halt some time in the future although we cannot say when.

Ultimately when the human biodiversification is complete and all the knowledge given to Adam is released, the full potential of man in terms of his prowess and capabilities will be expressed in the population. It will be then we will be able to comprehend the full implication of Allah’s remark about *Homo sapiens* “...I know what you know not” (Q. 2:30) made to the Angels at the time of creation of Adam.

References

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Table 1. Programmed release of knowledge of computer technology by memetic transmission from human microbioprogram (Adam's *nafs*) as reflected in the evolution of computer technology

Year	Invention	The meme carrier with access
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		(inventor)
3000 BC	Abacus, the first calculator	---
300 BC	Zero is more than nothing	---
1621 AD	The slide-rule	---
1623	First mechanical calculator	Wilhelm Schickard
1642	Arithmetic machine	Blaise Pascal
1671	Step-Reckoner	Gottfried von Leibniz
1673	Liebniz Wheel	---
1854	Boolean Algebra	George Boole
1857	Paper tapes to store and transmit data	Charles Wheatstone
1869	Logic Machine	William Stanley Jevons
1874	QWERTY keyboard	Christopher Latham Sholes
1880	Baudot Code	Jean Maurice Emile Baudot
1890	Punch card	Herman Hollerith
1927	Analog computer called the Product Intergraph	Vannevar Bush
1936	Dvorak keyboard	August Dvorak
1937	Turing Machine	Alan Turing
1941	Programmable calculator	Konrad Zuse
1942	Digital computer	Howard H. Aiken

Note: Important inventions up to 1942 are given to illustrate the gradual development of the technology.

(Source: <http://fall.cerrocoso.edu/studenthelp/computime/3000.htm> Accessed 12-12-06)

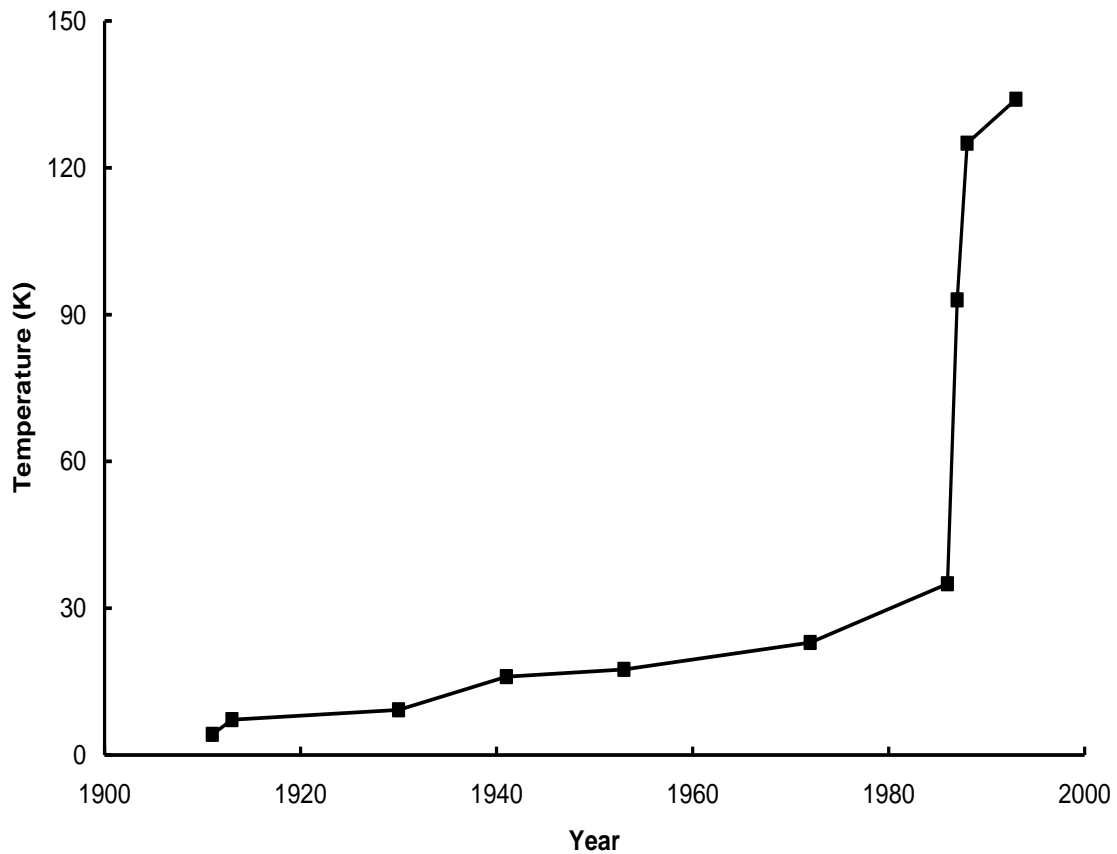


Fig. 1. Programmed release of knowledge about superconducting materials with higher transition temperatures.

Sources: <http://hoffman.physics.harvard.edu/research/SCintro.php> Accessed 11-12-06; http://www.sigmaldrich.com/Area_of_Interest/Chemistry/Materials_Science/Energy_Source_Materials/Magnetic_Materials/Tutorial/Superconductivity.html Accessed 11-12-06; <http://hyperphysics.phy-astr.gsu.edu/hbase/solids/scex.html> Accessed 12-12-06; <http://superconductors.org/History.htm> Accessed 11-12-06