

揭示 DNA 分子与圣经文字的关系 追溯人类起源的历史真相

摘自“达尔文理论在‘人间’的最后一站” (星空细雨, <http://xkxy.org/>)

张东生

(本文讨论的事实, 部分内容可能会让一些读者感到困惑或不清楚, 因为这要求读者具备一些关于染色体 DNA 和圣经文字的基本知识.)

探究人类起源历史真相必然会涉及到一部分细胞内微观生命过程和复杂的分子机理. 其中染色体和 DNA 分子是两个十分关键的生物学概念和事实. 染色体中的基因组 DNA 编码了人类所有的生物学特征, 包括人体基本结构. DNA 分子结构和功能是人类生活的核心物质之一, 是人类诞生过程的“总图纸”, 也称为“蓝图”. 这份图纸就藏在每一个人的细胞内, 无论是过去的人, 现在的人, 还是将来的人. 因此, 研究人类起源, 无论是神创论还是无神论, 最终都不可避免地要将焦点集中在这份蓝图的起源和演化上.

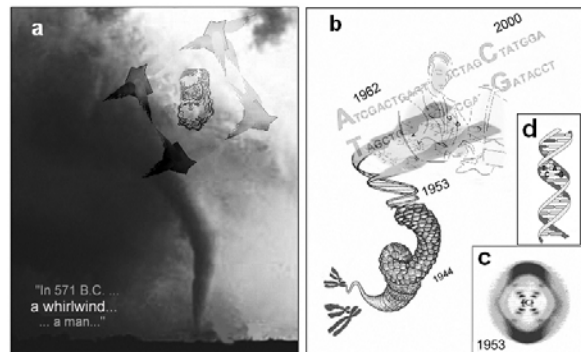
对染色体数目和 DNA 分子的深入研究, 不仅会给两种人类起源理论带来新的希望, 笔者认为, 同时也很可能会给双方都带来意想不到, 甚至无法面对的严峻挑战. 笔者从细胞和生命分子方面的五项研究成果与圣经文字的关系着手, 进行了分析, 本文节选了其中一项: 关注 DNA 分子与圣经文字的关系 分析达尔文理论的走向.

科学家发现: 染色体中的基因组 DNA 编码了人类所有的生物学特征, 包括人体基本结构. DNA 分子结构和功能是人类生活的核心物质, 是人类诞生过程的“总图纸”, 也称为“蓝图”. 这份图纸就藏在每一个人的细胞内. 生物学家先发现了这份图纸由四种核苷酸组成, 又发现了四种核苷酸相互连接在一起的基本方式, 并推导出这种连接方式形成一种“双螺旋”结构. 又发现四种核苷酸连接所形成的序列是特定的, 故被称为“基因”. 近年来又进一步发现细胞内 70 多种蛋白质(酶)形成了“合作组”, 参与对图纸的“复制”“阅读”和“翻译”, 还有众多的蛋白质按图纸中的指令进行“施工”, 将图纸中的“信息”转变成为“实物”. 简而言之, 就是“由四种核苷酸构成的双螺旋 DNA 分子, 编码了人体的全部生物学结构”.

神创论认为人类和人类的这份“蓝图”都是神创造的, 不幸的是从来没人能从圣经中找到确凿的“证

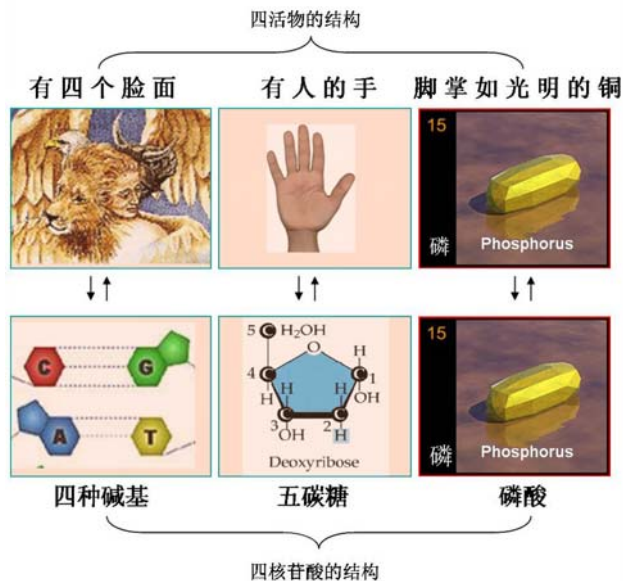
据”来证明圣经文字中论述过 DNA 分子这份“蓝图”. 无神论人士认为, DNA 分子和人类基因组 DNA 这份“蓝图”的特殊功能都是自然界的偶然产物, 自然界和人类历史文字中都不可能有任何证据能直接表明 DNA 来自神的创造. 但笔者却意外发现如下.

“... a **whirlwind** came out of the north, ... Also out of the midst thereof came the likeness of **four living creatures**. ... they had the **likeness of a man**” (Bible, KJV, Ezekiel 1:4-5), 这是古人以西结在两千六百年前描述一个“神秘事物”时所用的第一句话, 也是一个概括. 这段文字描绘了一个螺旋形状的物体, 其中有四个能活动物体的影像, 构成人的形像. 从其中的基本特征来看, 这显然不是在描述自然景象, 是在用“隐喻, 类比”的手法描写一种人类从来没有认识过的事物. 历史上不少人曾试图解释这段文字中的“神秘事物”.



与历史上各种解释不同, 笔者首先意识到, 这个事物的特征与现代生物学发现的 DNA 分子的基本特点十分吻合, 因为 DNA 分子呈螺旋结构, 由四种核苷酸构成, 编码了人体的生物学结构. 从以西结的这句话中可以十分清楚地看出来 DNA 分子所具有主要特征: 1. 把 DNA “螺旋”结构生动地描写成“旋风”; 2. 用“来自北方”代表 DNA 螺旋的方向, 因为在北半球形成的龙卷风的旋转方向总是逆时针的; 3. 把构成 DNA 分子的四种核苷酸描写成“四个活物”; 4. 把 DNA 分子编码人体结构的功能, 描绘成“形成人的形状”. 这简直就是在用“隐喻”的手法描写 DNA 分子的特征, 即使是在今天, 这样类比描绘 DNA 也是十分绝妙和超凡脱俗

的文字. 以西结又用 700 多字刻画了这个“神秘事物”的近 40 个特征, 包括结构细节, 活动特点, 能量状态的变化和环境特征等. 笔者进一步比较后发现, 这 40 个特征都与 DNA 核苷酸的结构代谢一些特点相吻合 (表 2). 如文字中把核苷酸的脱氧核糖 (五碳糖) 描绘为“人的手”; 把含有两个“高能”磷酸键的三磷酸脱氧核苷 (dNTP) 描绘成“烧着的火炭”等. 详细分析和插图见另文: “The Concordance of Ezekiel’s Vision with DNA” 和 “显微镜下发现圣经中的启示? (六)” (<http://xkxy.org/>).



在数千年来的人类文字中, 用 “... a **whirlwind** came out of the north, ... Also out of the midst thereof came the likeness of **four living creatures**. ... they had the **likeness of a man**” (KJV, Ezekiel 1:4-5) 这样的文字来描绘“上帝”的某种作为, 以西结书是绝无仅有的. 由于这段文字所描述的事物过于“复杂”, 一直被人们认为是最不可思议的最难懂“神话”之一, 甚至被人们认为那是在描述“天上”的事物. 但是从笔者以上分析可以看出, 通过发展生物科学, 人们终于可以通过科学技术带来的发现来理解圣经中以西结书第一章的真正含义. 对 DNA 分子结构和功能的“伟大”发现(先后有二十多人荣获诺贝尔奖), 却“出人意料”的成为圣经“以西结书”第一章中“神秘事物”的谜底. 这也是圣经中最奇妙的文字之一.

DNA 做为“地上的事”, 的确是过于复杂, 以至于普通文字很难精确表达其细节. 现代生物学已经使用大量的专业术语和数据来表述 DNA 分子结构和功能, 早已成为一种“深奥难懂”的特别语言, 请看一段已

经科普化了的文字:

DNA 这种脱氧核酸高聚物是由脱氧核苷酸链接成的序列, 分子链的开头部分称为 3' 端而结尾部分称为 5' 端, 脱氧核糖中碳原子编号数字表示核苷酸链接的方向. 在双螺旋的 DNA 中, 分子链是由互补的核苷酸配对组成的, 两条链依靠氢键结合在一起. 每一个脱氧核苷酸都由一分子脱氧核糖, 一分子磷酸以及一分子碱基组成. DNA 有四种不同的脱氧核苷酸, 它们是腺嘌呤脱氧核苷酸 (A), 胸腺嘧啶脱氧核苷酸 (T), 胞嘧啶脱氧核苷酸 (C) 和鸟嘌呤脱氧核苷酸 (G). 其中“A”只是“腺嘌呤脱氧核苷酸”(5'-磷酸-9-β-D-呋喃脱氧核糖基-6-氨基嘌呤) 的缩写.“G”只是“鸟嘌呤脱氧核苷酸”(5'-磷酸-9-β-D-呋喃脱氧核糖基-2-氨基-6-氧-嘌呤) 的缩写.

以上示例表明, 只有掌握这种“深奥难懂”语言的人们, 才有可能懂得这段文字所描述的是什么, 才有可能理解为什么必须使用“比喻”的手法来向公众介绍 DNA 分子结构和功能, 才有可能将“比喻”手法描述 DNA 的文字还原成为科学词语. 事实上, 当今对 DNA 的描述已经出现了两种文字, 一是科学词语, 二是“比喻拟人类比”的科普文字. 面对公众只有使用“比喻类比”的手法才是让公众容易理解过于复杂事物的有效可行办法. 笔者碰巧了解一些有关的基本知识, 才意识到以西结“比喻类比”手法描述的事物与当今人们对 DNA 的描述之间有密切关系.

当以西结看完“神秘”事物的全貌和细节后, 紧接着“上帝”告诉他将有人能明白那“神秘”事物是什么: “你奉差遣不是往那说话深奥, 言语难懂的多国去, 他们的话语是你不懂得的. 我若差你往他们那里去, 他们必听从我”(以西结 3:5-6). 这段文字强调说, 只有掌握某种“深奥难懂”语言的人们才能明白以西结所看到事物是什么, 而且以西结不知道这种“深奥难懂”语言是什么, 或许就是指当今的生物科学术语参数. 这句话为我们现在揭示以西结文字与 DNA 的关系埋下了伏笔. “以色列家却不肯听从你”, 这句话强调有些人一定不会明白以西结所看到事物是什么, 当圣经第一次出现“以色列” (Israel) 一词时 (NIV, Genesis 32:28), 英文圣经给了这样的注释: “Israel means he struggles with God”. 很显然, 古时候“以色列” (Israel) 一词的基本含义不是指某一民族或国家, 而是指拥有某些观点的人类群体, 而且一定会否认以西结文字含有的特殊意义. 历史和现今的事实确实如此.

这样看来，认识细胞内微观生命机理也为人们进一步精读圣经提供了另一条路径。也“意外”地为我们确认圣经中生命和人类起源演化背后真正“动力”提供了科学证据。以上分析展示的事实证据表明，笔者找到了圣经中关于DNA分子结构和功能的隐喻性文字记载，而且与现代生物学对DNA分子的描述内容完全相同，不同的是，圣经文字中隐含的内容比现代的

发现早了数千年。这是神创论和进化论在DNA分子方面一个具体的交锋，也可能成了达尔文理论在这个问题上的终点。“For the invisible things of him from the creation of the world are clearly seen, being understood by the things that are made, even his eternal power and Godhead; so that they are without excuse.” (Bible, KJV, Romans 1:19-20).

表 2: 以西结异象与 DNA 分子

	Chapter: Verse	Ezekiel Code (KJV, in metaphor words)	Annotate (in common words)	DNA molecule (in biological terminological words)
1	1:4	a whirlwind came out of the north, ... Also out of the midst thereof came the likeness of four living creatures ... they had the likeness of a man.	Overview of the thing included four characters	DNA, the right-handed double helical molecule that composed by four kinds of nucleotides encoding the human biological body.
2	1:4	whirlwind	Helix thing	Double helical long-chain
3	1:4	came out of the north	Tornado spin direction is right-handed helical on north hemisphere	DNA spin direction is right-handed helical
4	1:4	a fire infolding itself	Energy releasing	Energy releasing are necessary when enzymes working on DNA
5	1:4	colour of amber, out of the midst of the fire.	Thing emits strong white light	Magnesium in enzymes. Strong white light as burning reaction of magnesium.
6	1:5	four living creatures	only four things there	There are only four kinds of nucleotides in DNA
7		the likeness of a man.	Constituting the form of mankind	DNA information encoding the human biological body
8	1:6	four faces	Four structure as identity card	Four nitrogenous base are nucleotides' identity in DNA
9	1:6	wings	Expanding things from body to outside	Chemical bonds between nucleotides
10	1:7	calf's foot: and they sparkled like the colour of burnished brass.	Yellow material	A phosphate in phosphate acid in each nucleotide. Crystal phosphate is yellow.
11	1:8	they had the hands	There are five-structure thing in	A deoxyribose (five-carbon structure) in each nucleotide
12	1:9	Their wings were joined one to another;	Linker between things	The chemical bonds between the phosphates and the sugars to form sugar-phosphate backbone for linking one nucleotide to the next in the DNA strand
13	1:10	four faces: man, lion, ox ,eagle	Four individual's identities	Four nitrogenous base as nucleotides' identity in DNA: adenine (A), thymine (T), Cytosine (C) and guanine (G)
14	1:10	Face of ox	Close related on calf	Cytosine was first discovered in 1894 from calf thymus tissues.
15	1:10	Face of eagle	Close related on birds	The first isolation of guanine was in 1844 from birds
16	1:11	two wings covered their bodies.	Expanding things for cover, protection, maintain its main structures	Hydrogen bonds between complementary nucleotides (A-T, C-G), responsible for establishing and preserving DNA's special structure and functions, such as, 1. The bases are largely buried in the interior of the DNA and are



				kept away from water. 2. Two chains are held together to form double helix. 3. Hydrogen bonds of complementary nucleotides, A-T (two bonds), C-G (three bonds), assure the proper sequence of each daughter DNA strand during DNA replication (semiconservative model of replication). It was very appropriate that the three special functions of the hydrogen bonds were summarized as “covering its body”.
17	1:12	And they went every one straight forward: whither the spirit was to go, they went; and they turned not when they went.	fixation of the direction following the guide	nucleotides link in 5'—3' or 3'—5' direction in DNA
18	1:13	living creatures, their appearance was like burning coals of fire, and like the appearance of lamps:	Four things carry high energy than common status	Deoxynucleoside triphosphate (dNTP), with more energy than Deoxynucleoside monophosphate (dNMP)
19	1:13	it went up and down among the living creatures	Energy transferring among them	Energy of dNTP are transferred from ATP
20	1:13	out of the fire went forth lightning.	Soon extinguish after movement	When dNTP are assembled into DNA the energy released
21	1:14	the living creatures ran and returned as the appearance of a flash of lightning	Movement very much fast and there are a lot	3 billions nucleotides needed during a DNA molecule formed, 50 nucleotides per second
22	1:15	living creatures, behold one wheel	Together with ring-shape thing	Ring-shape proteins working on nucleotides
	1:16	the colour of a beryl:		?
23	1:16	a wheel in the middle of a wheel.	Multiple wheel shape things combine together	ring-shape protein with multiple subunits together
	1:17	When they went, they went upon their four sides: and they turned not when they went.	Same with 17	Same with 17
24	1:18	their rings, they were so high that they were dreadful;	Very bigger than living things	Multiple subunits ring-shape proteins is larger than nucleotides
25	1:18	their rings were full of eyes round about them four	With very complex structure on it	Multiple subunits ring-shape proteins are very complex structure with binding sites
26	1:19	when the living creatures went, the wheels went by them: living creatures were lifted up from the earth, the wheels were lifted up	Activation must be together, depended each other	Structural of helicases has been identified to assemble into multisubunit ring-shaped hexamers. In most, hexamer formation requires nucleotide binding.
27	1:20	for the spirit of the living creature was in the wheels.	The living things are controlled completely by wheel shape thing	The hexmer-ring cannot be formed and not move on DNA (either 5' to 3' or 3' to 5' direction) without binding NTP because the helicases are NTP-driven motor proteins.
	1:21	Same with 1:20	Same with 27	Same with 27
28	1:22	And the likeness of the firmament upon the heads of the living creature was as the color of the terrible crystal, stretched forth over their heads above.	A special structure over the above that with crystal structure	The membrane architecture is a lipid bilayer and proteins embedded in the bilayer. The structure of membrane looked like “ice” or “crystal” from cytoplasm toward outside.
	1:23	Same with 1:9 and 1:11	Same with 16	Same with 16

29	1:24	And when they went, I heard the noise of their wings, like the noise of great waters	All activation are occurring in water	The “space” inside of cell under the membrane called “cytoplasm”. The entire cell including nucleus is full of water and also the enzyme-catalyzed reactions take place in aqueous solutions.
30	1:25	And there was a voice from the firmament that was over their heads, when they stood, and had let down their wings.	All activation are controlled by a signal system	The reactions of replication, transcription and translation are controlled by the molecular signals.
	1:26			?
	1:27			?
31	1:28	appearance of the bow	Light with water existing in the same space and same time	During these reactions the water-generated and energy-released in the same time
32	1:28	the day of rain	water formation	During these reactions the water-generated
33	2:9	a scroll	A roll- ship thing that contained series of information.	Human DNA molecule twines into “rolls” of chromosomes, the information of genomic DNA is a huge “book” formed many years ago not by humankind. The genome includes about 35 thousands genes (sentences).
34	2:10	he unrolled before me	Humankind cannot “open” and read it directly.	Humankind cannot “open” and read DNA directly.
35	2:10	on both sides	Two sides.	Two strands of DNA, one is up side another is down side.
36	2:10	were written words	Express information by unites.	Nucleotides, A, T, C, and G, or genes.
37	2:10	lament and mourning and woe	basic behaviors and emotions	Genomic DNA determine human basic behaviors and emotions.
38	3:1-3	eat this roll. take the roll as food. I eat it; as honey for sweetness	The roll- ship thing contained series of information can be eaten as food and contains sugar.	The DNA, a unique biological material, certainly can be eaten and contains sugar (pentose sugar), “sweet” indeed.
39	3:5	a strange speech and of an hard language	A special information system different from human languages.	A genomic DNA is a “book”, the genes are the “words or sentences” to be a chemical language, a special strange language.
40	3:6	Not to many people of a strange speech and of a hard language, whose words thou canst not understand.	Languages that cannot be understand by ancient people.	Modern scientists use the scientific terminology, parameters and language to understand biological information on genomic DNA.
41	3:6	Surely, had I sent thee to them, they would have hearkened unto thee.	Some one would surely understand the mystery thing Ezekiel saw.	Modern scientists can understand DNA molecule structure and function as Ezekiel saw.

尽管人们认为圣经不是一本关于科学的“论著”，但笔者发现圣经却用隐喻性的语言为有关DNA的科学发现准备好了答案，并且默默等待了数千年。由此推测，圣经文字背后的“启示者”和生命人类起源背后的

“智者”应该是“同源”的。“生命和人类起源”是“智慧”的过程和结果，这类设想相对于当今“科学”的概念来说，可能是过于超前了。

(如果读者还想知道细胞“染色体”，“DNA分子”，“线粒体能量代谢系统”和“细胞凋亡”等生命中最要紧的环节与圣经文字的“巧合”关系，请参阅“星空细雨”的系列文章，<http://xkxy.org>).

张东生, 03-12-2007, 于辛辛那提, dongshengzhang_1@yahoo.com