

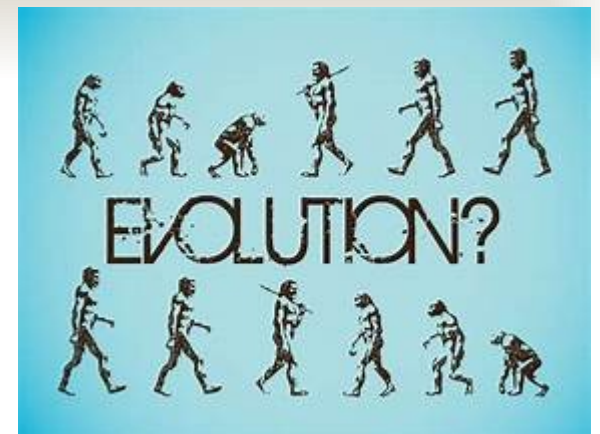
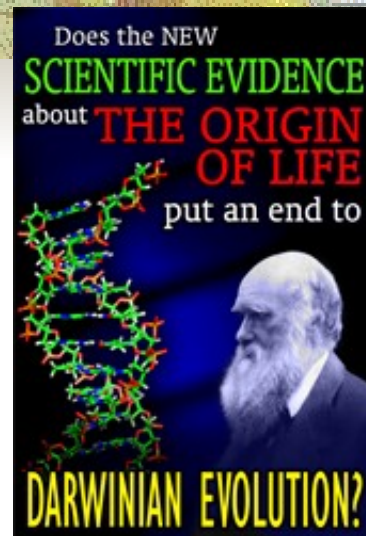
The Author of Life

God or Natural Processes?

Dr. Heinz Lycklama

heinz@osta.com

HeinzLycklama.com/2024-messages





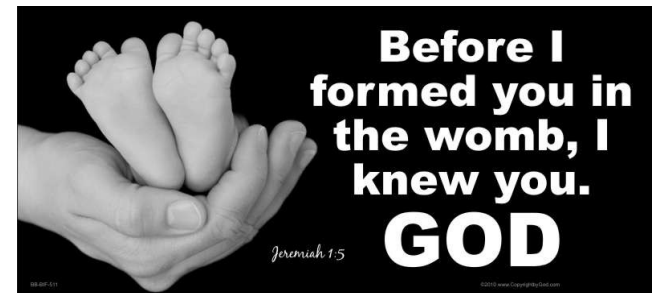
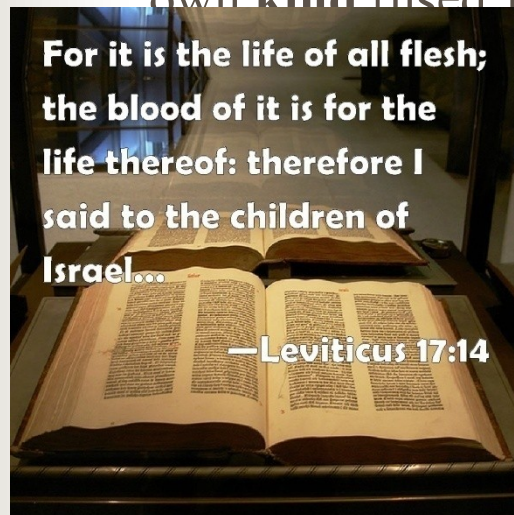
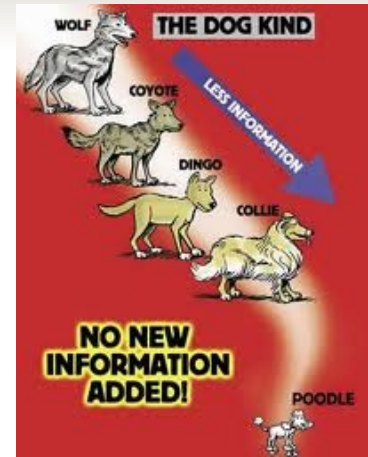
The Author of Life?

- **God or Natural Processes?**
 - Viewing Life – Biblical and Evolution
 - Chance, Necessity, or Design?
 - Origin of Universe -> First Life -> Diverse Life
- **The Origin of Life by Natural Processes?**
 1. Law of Biogenesis
 2. Forming Components of Life
 3. Law of Mathematical Probability
 4. Source of Information
- **Evidence for the Author of Life**

Biblical View of Life

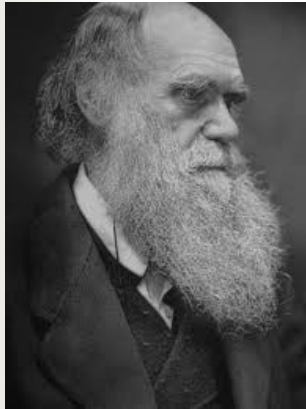
- Gen. 1:11-12, 21, 24-25, "...herb that yields seed according to its kind, ..., beast of the earth according to its kind."

- Indicates stability of different kinds
- Biogenesis, each producing after its own kind (used 10 times)



You knit me together
in my Mother's womb
I praise you because I am
fearfully and wonderfully
made.
Psalm 139:13-14

Evolution's View of Life



- Related through common ancestry
- Arose through mutations and natural selection
- By means of random chance processes of nature
- Origin of first life from primordial soup?

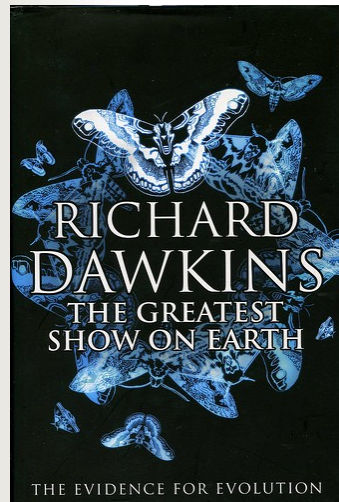
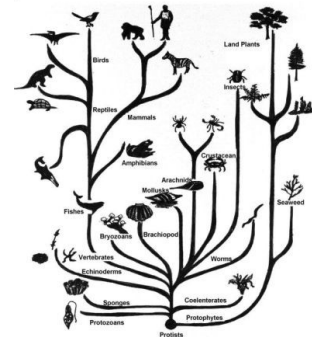
The story of evolution:

Origin of the Universe → Origin of Earth → Pre-Biotic Synthesis ("primordial soup")

Bacteria ← First Cells ← DNA / Protein World ← RNA World

Primitive Animals → Fish → Amphibians → Reptiles* → Mammals

Humans ← Hominids ← Early Apes ← Monkeys ← Lower Primates



Naturalism (Scientism)

A belief denying that an event or object has a supernatural significance; specifically, the doctrine that scientific laws are adequate to account for all phenomena

“Even if all the data point to an intelligent designer, such an hypothesis is excluded from science because it is not naturalistic.”

Dr. Scott Todd, KS Univ. Immunologist

~~Outside Intelligence~~
~~Spiritual Beings~~
~~God~~



NATURALISM

Pillars of Naturalism:



**Freud is dead, Marx is dead,
and Darwin isn't feeling very well.**

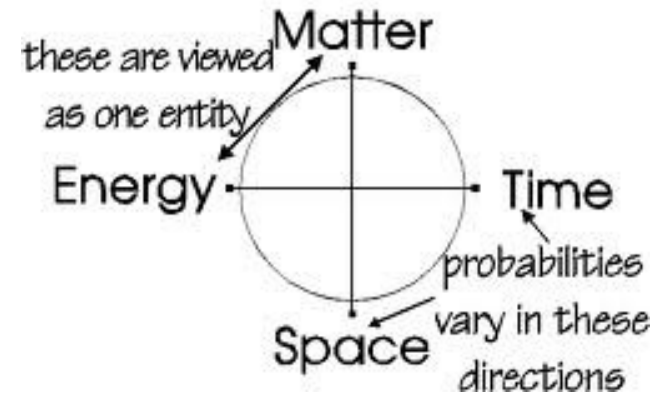
Scientific Materialism

A belief claiming that physical matter is the only or fundamental reality and that all organisms, processes, and phenomena can be explained as manifestations or interactions of matter

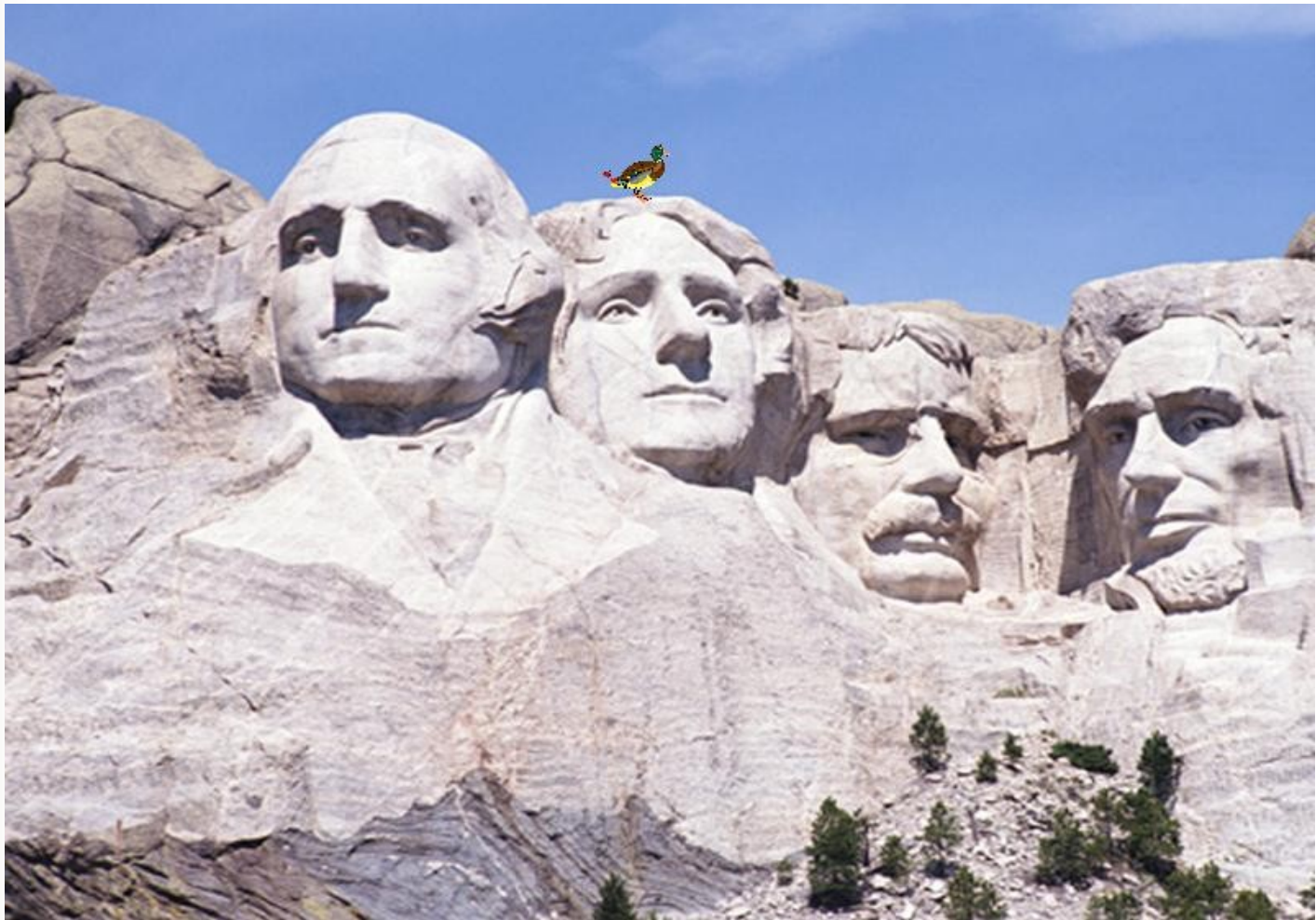
“We take the side of science *in spite* of the patent absurdity of some of its constructs, *in spite* of its failure to fulfill many of its extravagant promises of health and life, *in spite* of the tolerance of the scientific community for unsubstantiated just-so stories, because we have a prior commitment, a commitment to materialism.”

Richard Lewontin

THE WORLD-VIEW OF QUANTUM MECHANICS



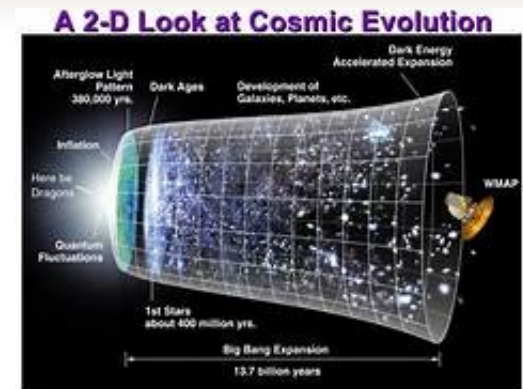
Chance, Necessity (Law) or Design?



3 Stages of Evolution

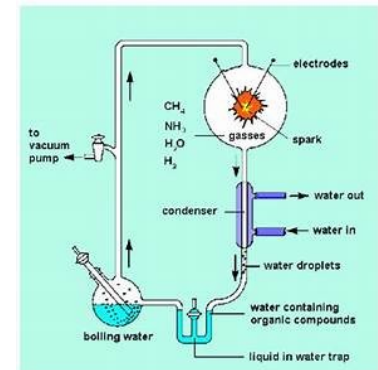
1. Cosmic (Stellar) Evolution

- Evolution of the universe, including galactic clusters, galaxies, stars, solar systems, planets, elements



2. Biochemical (Chemical) Evolution **

- Evolution of first life from nonlife
- Abiogenesis



3. Biological (Organic) Evolution

- Evolution from common ancestor
- Molecule to man (Macro-Evolution)
- Diversity in living organisms



1. Law of Biogenesis

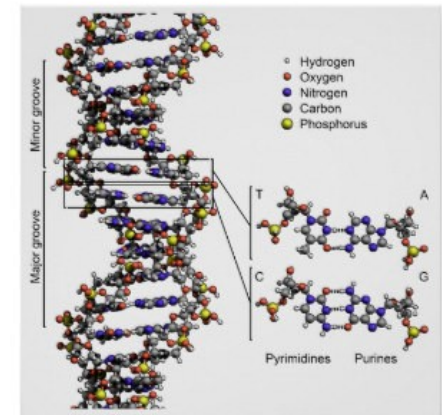
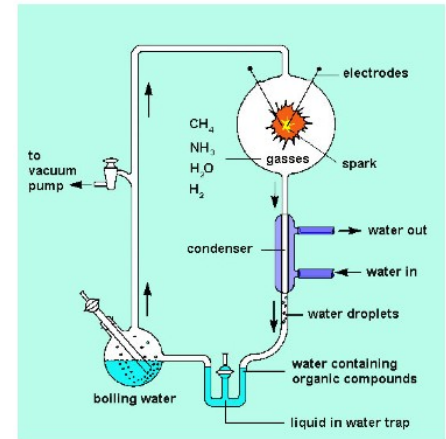
- Spontaneous generation of life from non-life
 - Greek philosophy of 2500 years ago
- **Abiogenesis** experiments
 - **Redi** in 1668, **Spallanzani** in 1750
 - **Virchow** in 1858, **Pasteur** in 1864
 - Spontaneous generation (**Abiogenesis**) has never been observed or shown to be possible
- Hypotheses proposed over last century
 - Primordial soup, ocean, panspermia, etc.
 - Miller's experiment, etc.

Law of Biogenesis

In nature, life comes only from life and that of its kind.

Important Milestones

- 1859 – Darwin: The Origin of Species
- 1864 – Pasteur: Abiogenesis Impossible
- 1953 – Miller's experiment
- 1953 – Discovery of DNA Double Helix
- 1980's – Intelligent Design movement
- 1990's – Dr. Gitt, Information Theory
- 2009 – Altenberg 16 meeting in Austria





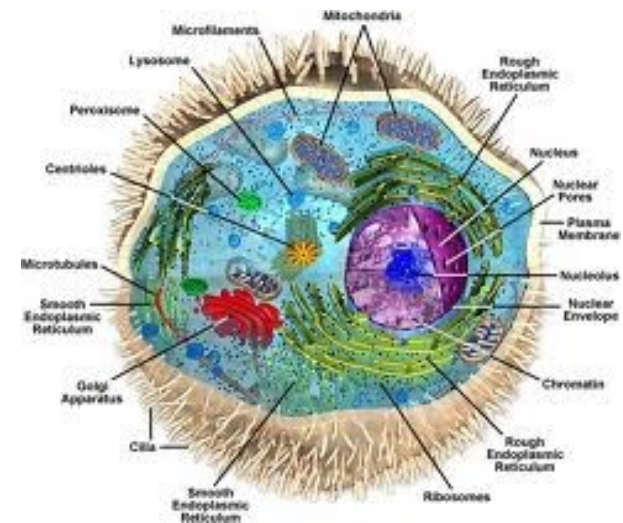
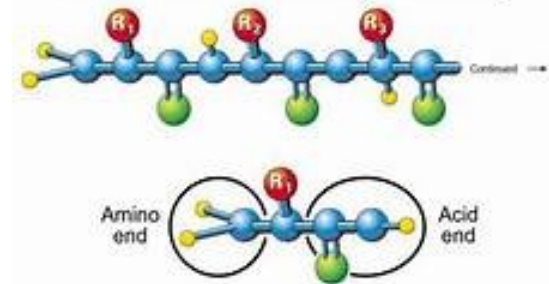
Origin of Life: Law of Biogenesis (*CMI*)

@ Dr. Heinz Lycklama

2. Forming Components of Life

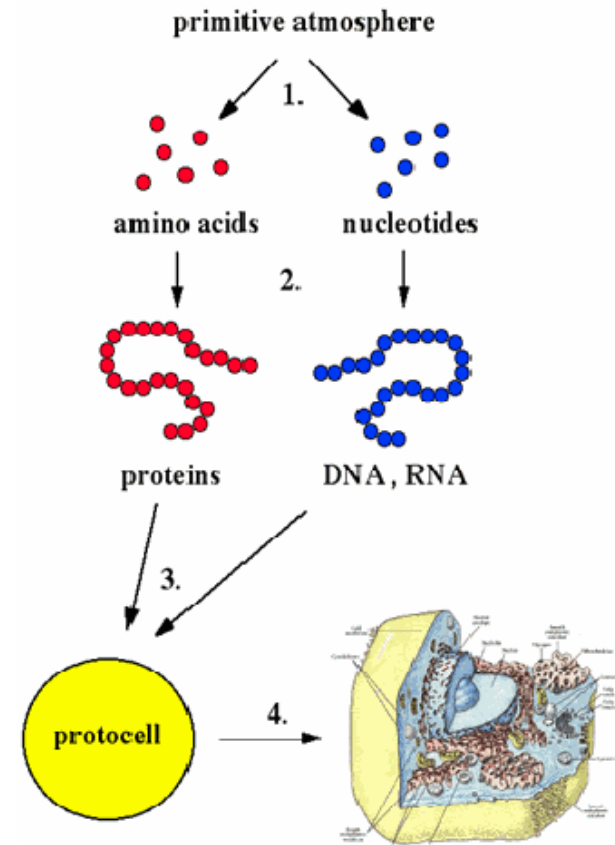
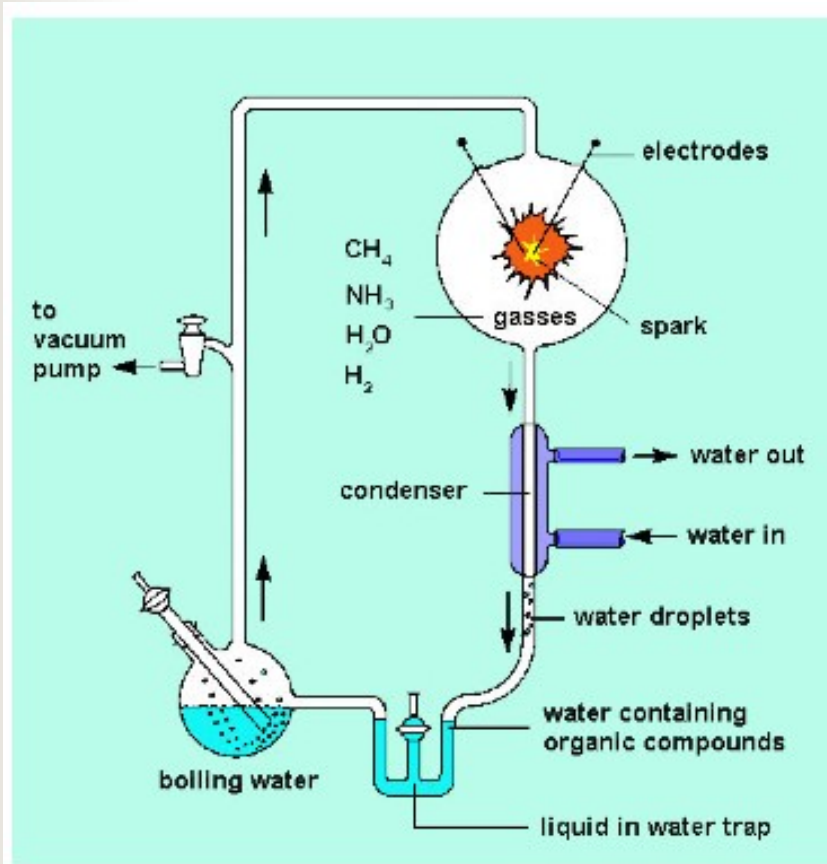
- Proteins – chain of amino acids
- DNA (DeoxyriboNucleic Acid)
 - Double helix
 - Master genetic code
 - Information for cell activities
- RNA (RiboNucleic Acid)
 - Single strand
 - Protein building instructions
- Catalysts for transcription
- Replication
- Cell membrane
- “Chicken and egg” problem

Amino Acid Chain (Protein)



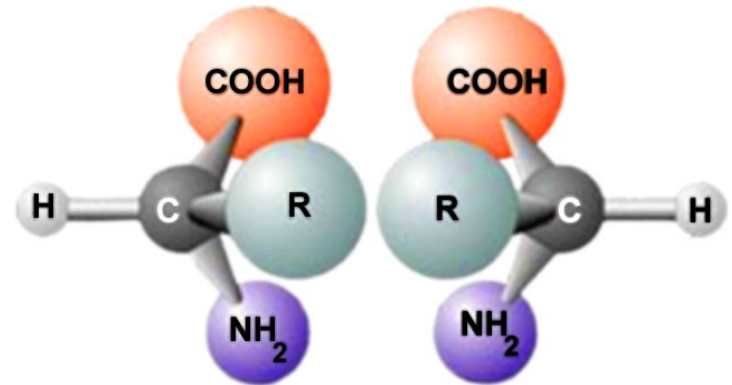
1953 – Miller's Experiment

- Sparking gases to produce amino acids



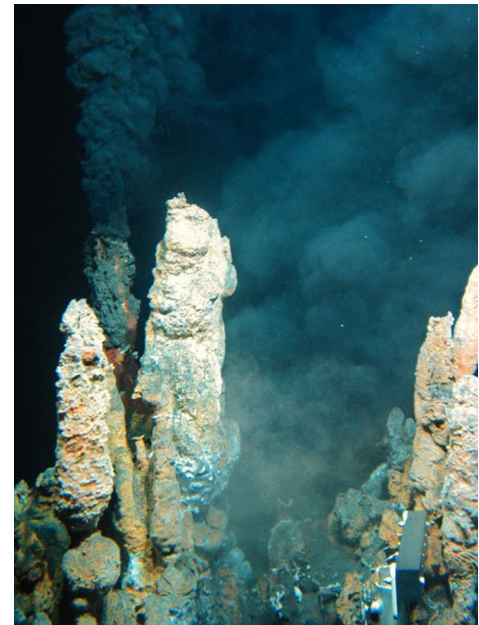
Miller Experiment Problems

- Oxygen in atmosphere prevents formation of amino acids
- No oxygen in atmosphere - ultraviolet rays destroy amino acids
- Water decomposes molecules (hydrolysis)
- Produces mixture of LH and RH amino acids
- Low concentration of products produced
- More contaminants than useful products
- Experiment is designed



Locations For Origins of Life?

- Primordial soup
- Bottom of the sea
- Hydrothermal vents
- Active volcano springs
- Life on clay
- Deep space or Mars
- Panspermia
- Directed panspermia





Quote by Yockey, an Atheist

“Research on the origin of life seems to be unique in that the conclusion has already been authoritatively accepted What remains to be done is to find the scenarios which describe the detailed mechanisms and processes by which this happened. One must conclude that, contrary to the established and current wisdom, **a scenario describing the genesis of life on earth by chance and natural causes which can be accepted on the basis of fact and not faith has not yet been written.**”

Yockey, H. P., A calculation of the probability of spontaneous biogenesis by information theory, *Journal of Theoretical Biology* 67:377-398, 1977.



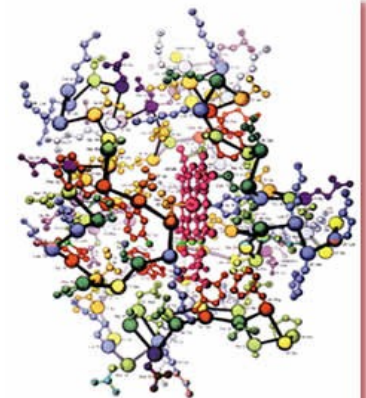
A Self-Replicating Organism?

“Prebiotic soup is easy to obtain. We must next explain how a prebiotic soup of organic molecules, including amino acids and the organic constituents of nucleotides evolved into a self-replicating organism. While some suggestive evidence has been obtained, **I must admit that attempts to reconstruct this evolutionary process are extremely tentative.**”

[Dr. Leslie Orgel (evolutionist biochemist at the Salk Institute, California), “Darwinism at the very beginning of life,” *New Scientist*, 15 April 1982, p. 150]

3. Life From Non-Life By Chance?

- What is the probability that an explosion in a junk yard would “create” a car?
- What is the probability of creating a Boeing airplane (5M non-flying parts) from such an explosion?
- What is the probability that 200 monkeys pawing away at a typewriter could “write” a Shakespearean play?
- What is the probability of a protein coming into being by chance?



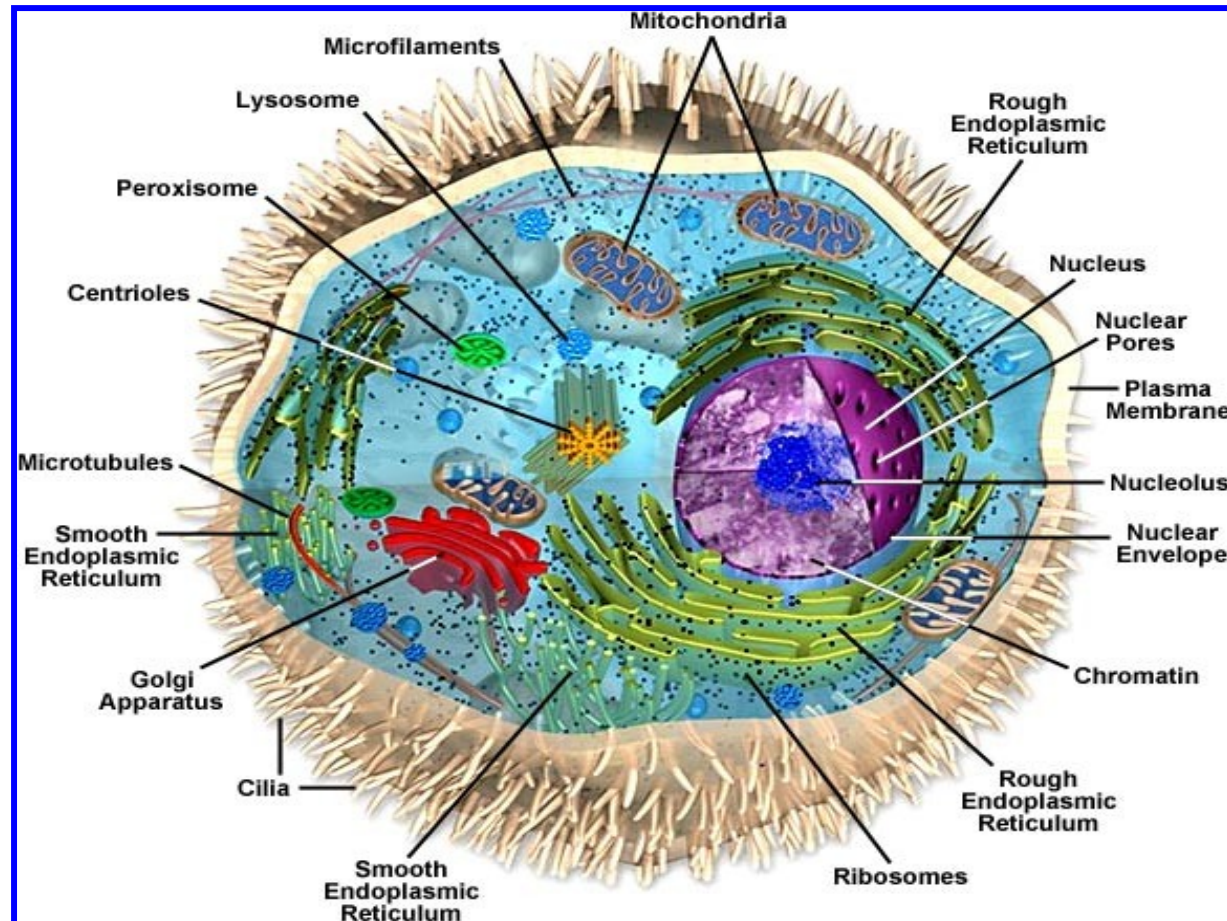


Proteins and Amino Acids

- Amino acids
 - A few thousand types
 - Right- and left-handed
- Proteins - the building blocks of life
 - Large organic molecule
 - Contain 100's to a few 1000 amino acids
 - Specified long sequences of amino acids
 - Contain 20 different left-handed amino acids
- Crucial protein fact
 - Absence, addition, or replacement of a single amino acid in the sequence of the structure of a protein causes protein to be useless

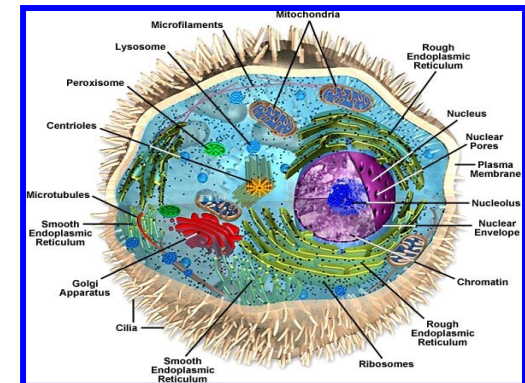
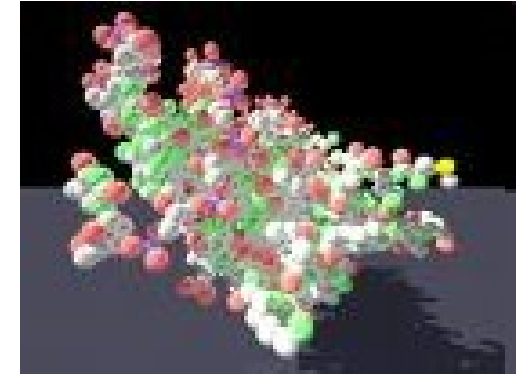
Complexity of the Cell

- Average human body contains 75+ trillion cells



Probability & Life

- A single protein: 1 in 10^{240}
 - 400 amino acids
- A single cell: 1 in $10^{40,000}$
 - Spontaneous formation of life
- Atoms in the universe: 10^{80}
- Law of Probability: 1 in 10^{50}
 - < 1 in 10^{50} is mathematically impossible





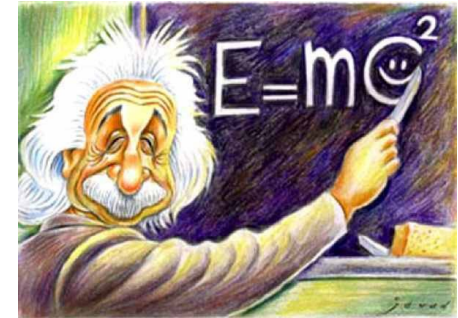
Spontaneous Formation of Life?

“The likelihood of the spontaneous formation of life from inanimate matter is one to a number with **40,000 noughts** after it. It is big enough to bury Darwin and the whole theory of evolution. There was no primeval soup, neither on this planet nor on any other, and if the beginnings of life were not random, **they must therefore have been the product of purposeful intelligence.**”

Wickramasinghe, professor of applied mathematics and astronomy, UK

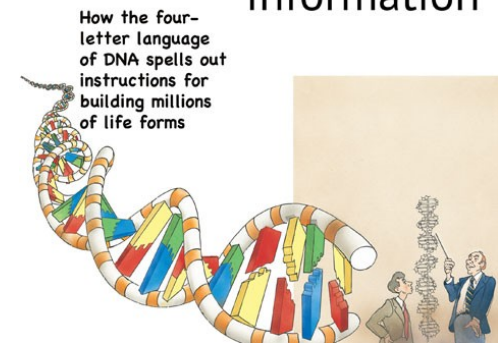
4. Life Requires Information

- Evolution presupposition
 - The universe consists of only two *material* entities – mass and energy
- A 3rd *non-material* entity: information
- Life consists of:
 - Mass + energy (*material*) + information (*non-material*)
 - Information is encoded in the DNA of all plant and animal cells
- Information has four parts:
 - Code, meaning, action, purpose



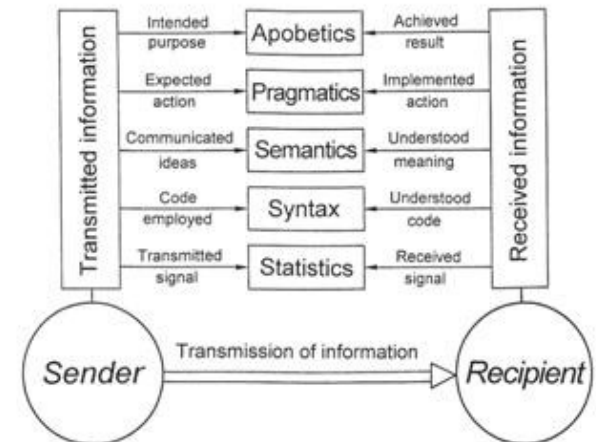
Book 3

DNA –
The Cell's
Library of
Information



Information Definitions

- Information attributes:
 - **Code** (syntax): alphabet, DNA (ATCG)
 - **Meaning** (semantics): words, codons
 - Expected **Action** (pragmatics)
 - Intended **Purpose** (apobetics): design, result
- All structural attributes are non-material
- **Information** is an **encoded, symbolically represented message** conveying expected **action** and intended **purpose**.



The Nature of Information



A 0065	B 0066	C 0067	D 0068	E 0069	F 0070	G 0071
H 0072	I 0073	J 0074	K 0075	L 0076	M 0077	N 0078
O 0079	P 0080	Q 0081	R 0082	S 0083	T 0084	U 0085
V 0086	W 0087	X 0088	Y 0089	Z 0090		



Information in Writing

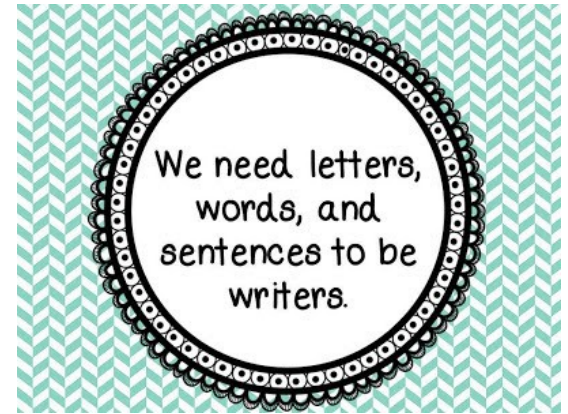
- Information requires:
 - Code: letters, numbers, etc.
 - Meaning: words
 - Action: sentence with verb
 - Purpose: result, design

- Complex but unspecified

neojct oheeh otvp ct mo muj

- Specified Complexity

the cow jumped over the moon



Information in Computers



Example of Pseudocode to determine odd-even number

BEGIN

Number = Input Number

Result = Number % 2

IF Result = 0

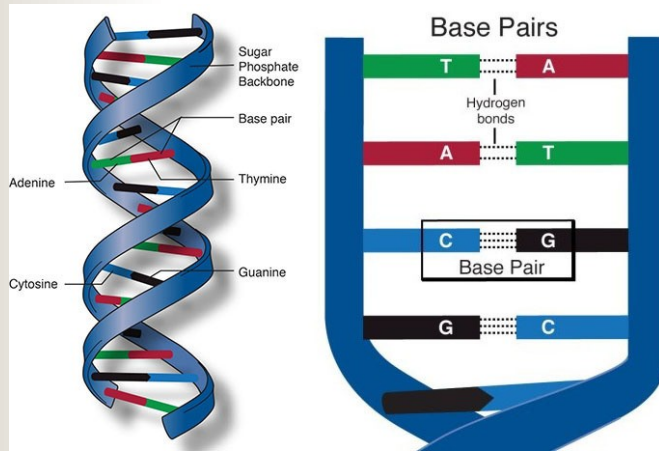
THEN Print "The number is even number"

ELSE

THEN Print "The number is odd number"



Information in Living Systems

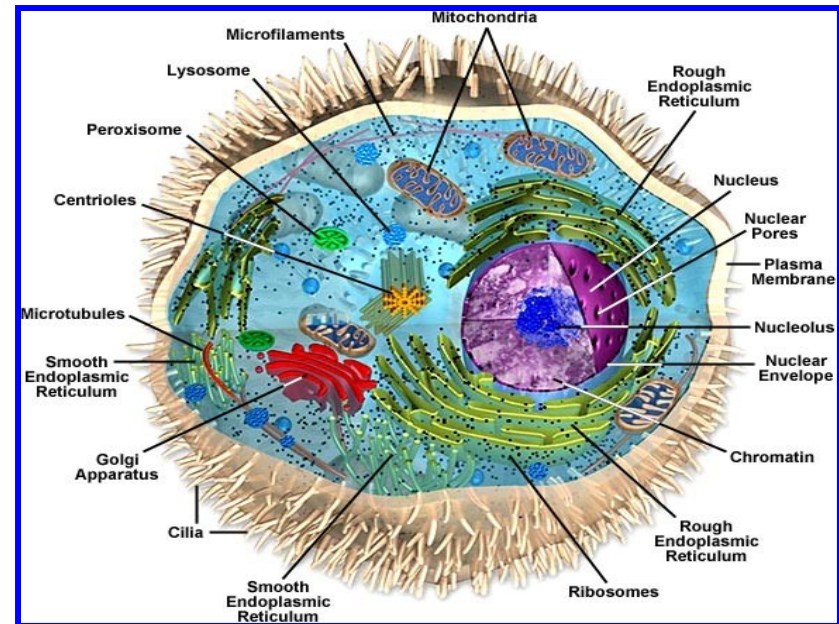


DNA the molecule of life

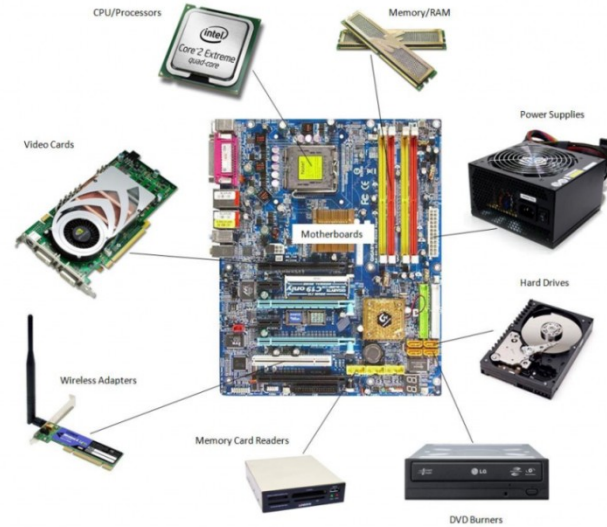
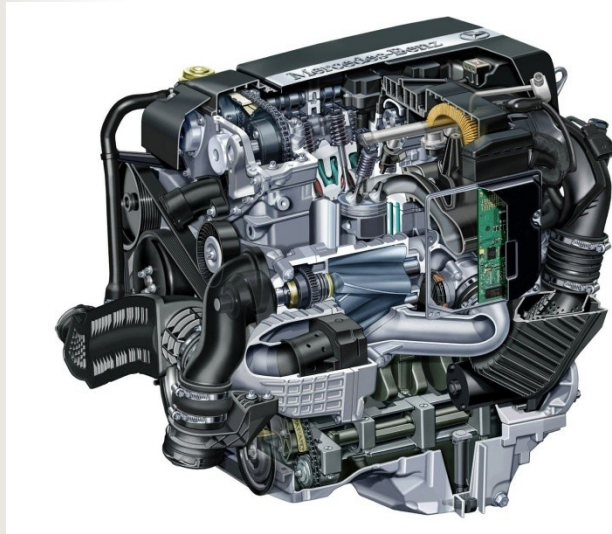
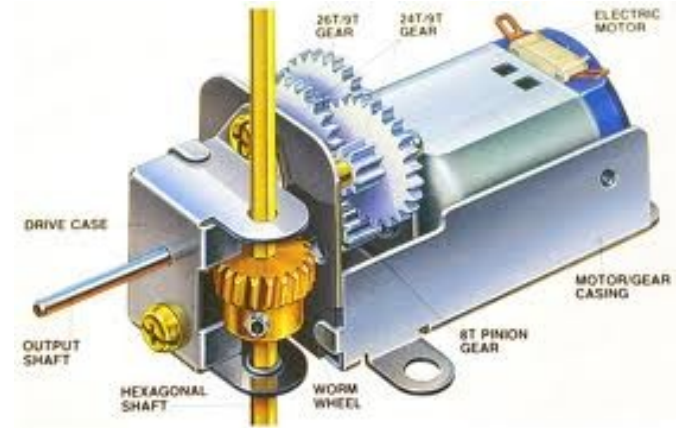
Trillions of cells
 Each cell:

- 46 human chromosomes
- 2 meters of DNA
- 3 billion DNA subunits (the bases: A, T, C, G)
- Approximately 30,000 genes code for proteins that perform most life functions

The diagram shows a cell containing chromosomes. A specific gene is identified on a chromosome, which is then shown as a DNA double helix. A segment of the DNA helix is labeled as a gene, and an arrow points to a protein molecule, illustrating the process of gene expression.

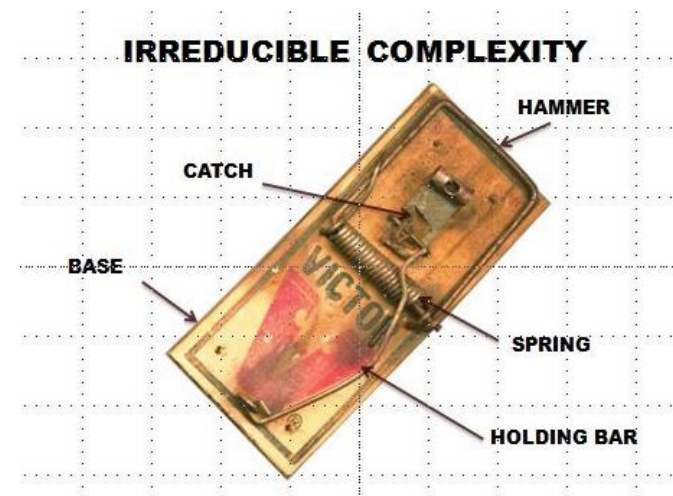
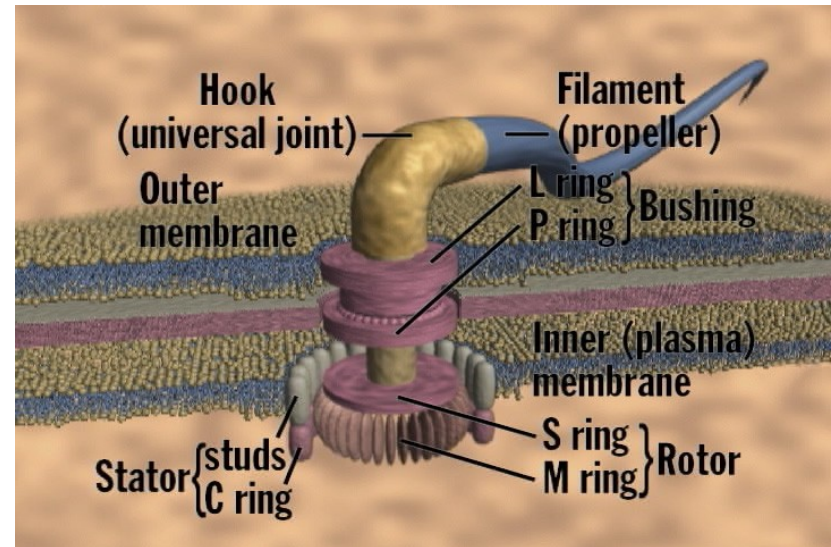


The Nature of Machines

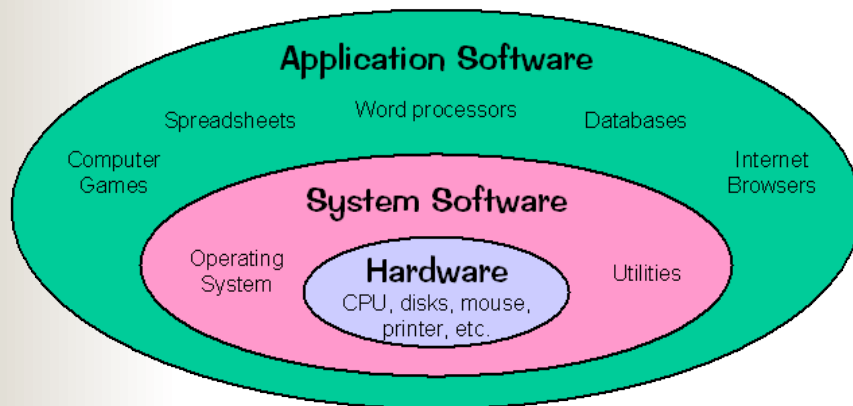
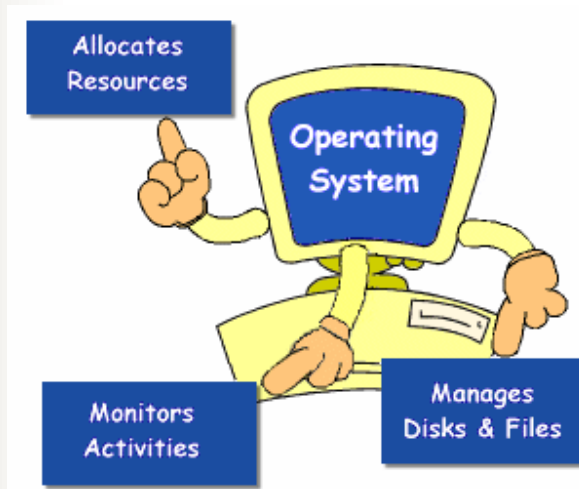


Molecular Machines, e.g. Motors

- Behe showed that the cell, Darwin's Black Box, is filled with Irreducibly Complex (**all parts functional**) molecular machines that could not be built by natural selection
- Over 100 molecular motors are now known to exist inside the cell with very specific analogies to human designed motors



The Nature of Programs

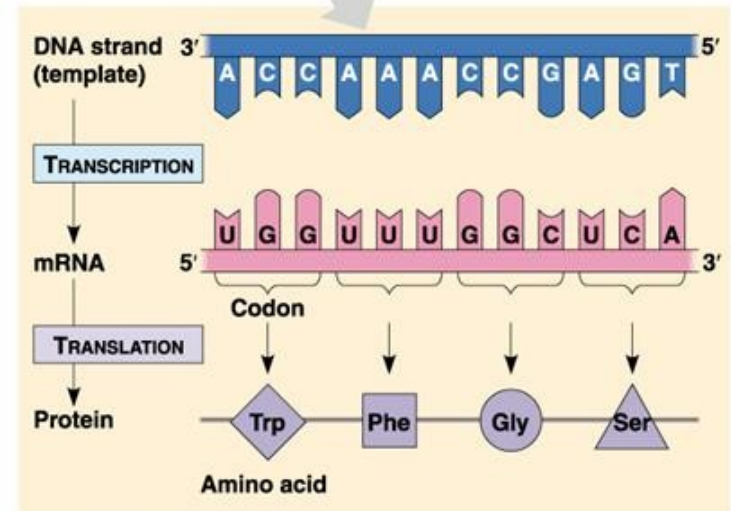
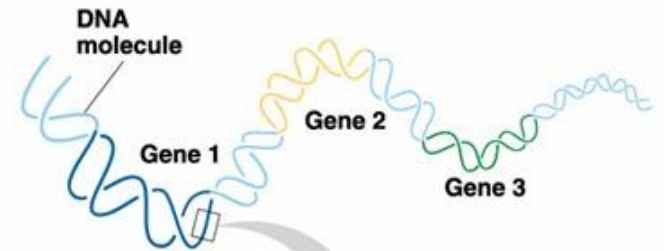
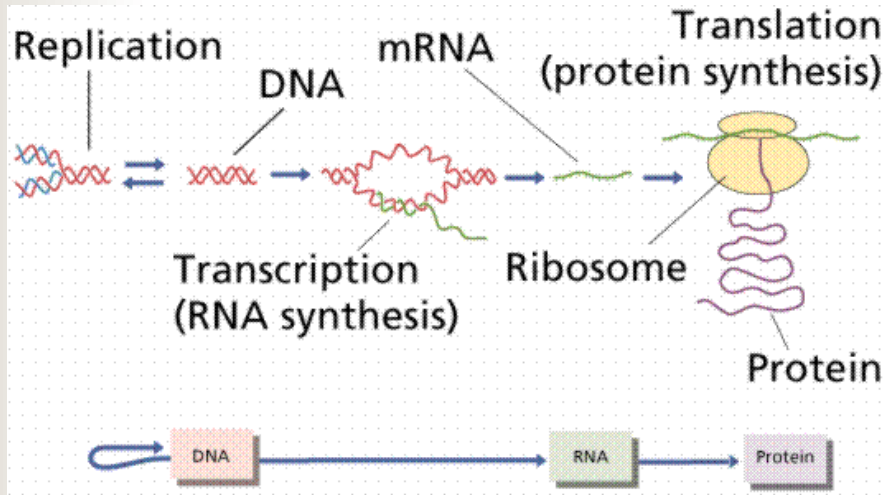


```

1  /**
2   * @version 1.30 2000-03-27
3   * @author Cay Horstmann
4   */
5
6  import java.util.*;
7
8  public class CalendarTest
9  {
10     public static void main(String[] args)
11     {
12         // construct d as current date
13         GregorianCalendar d = new GregorianCalendar();
14
15         int today = d.get(Calendar.DAY_OF_MONTH);
16         int month = d.get(Calendar.MONTH);
17
18         // set d to start date of the month
19         d.set(Calendar.DAY_OF_MONTH, 1);
20
21         int weekday = d.get(Calendar.DAY_OF_WEEK);
22
23         // print heading
24         System.out.println("Sun Mon Tue Wed Thu Fri Sat");
25
26         // indent first line of calendar
27         for (int i = Calendar.SUNDAY; i < weekday; i++)
28             System.out.print(" ");
29
30         do
31         {
32             // print day
33             int day = d.get(Calendar.DAY_OF_MONTH);
34             if (day < 10) System.out.print(" ");
35             System.out.print(day);
36
37             // mark current day with *
38             if (day == today)
39                 System.out.print("* ");
40             else
41                 System.out.print(" ");
42
43             // start a new line after every Saturday
44             if (weekday == Calendar.SATURDAY)
45                 System.out.println();
46
47             // advance d to the next day
48             d.add(Calendar.DAY_OF_MONTH, 1);
49             weekday = d.get(Calendar.DAY_OF_WEEK);
50         }
51         while (d.get(Calendar.MONTH) == month);
52         // the loop exits when d is day 1 of the next month
53
54         // print final end of line if necessary
55         if (weekday != Calendar.SUNDAY)
56             System.out.println();
57     }
58 }

```

Programs in the Cell



©1999 Addison Wesley Longman, Inc.

“Human DNA is like a computer program but far, far more advanced than any software we’ve ever created.”

Bill Gates, Microsoft



Presuppositions and Information

- Evolution presupposition
 - The universe consists of only two *material* fundamental entities – mass and energy
- A third presupposition
 - *Non-material* entity: information
- Information is encoded within the DNA/RNA of all plant and animal cells
- Life = material + (nonmaterial) information
- Information has the following four attributes:
 - Code, meaning, action, purpose



Living Matter and Information

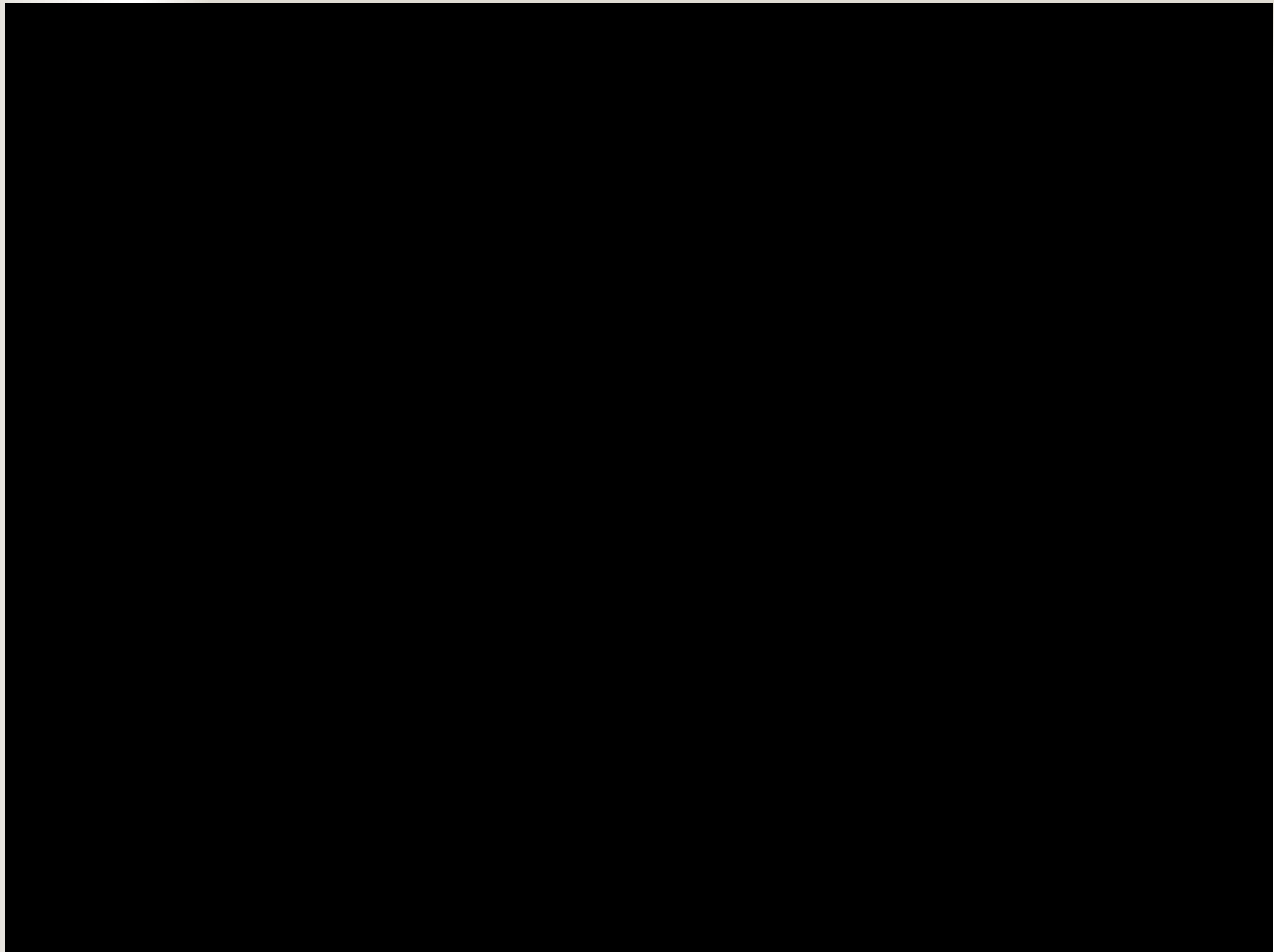
“It’s a shame that there are precious few hard facts when it comes to the origin of life. We have a rough idea when it began on Earth, and some interesting theories about where, but the how part has everybody stumped.

Nobody knows how a mixture of lifeless chemicals spontaneously organized themselves into the first living cell.”

- Paul Davies, *Australian astrobiologist* [Evolutionist]

“There is no known law of nature, no known process and no known sequence of events which can cause information to originate by itself in matter.”

- Werner Gitt, *German information scientist* [Creationist]

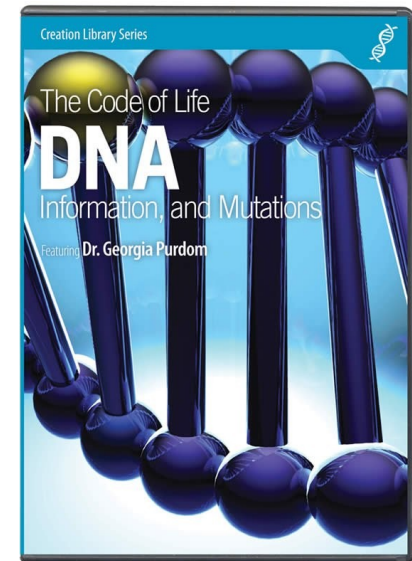
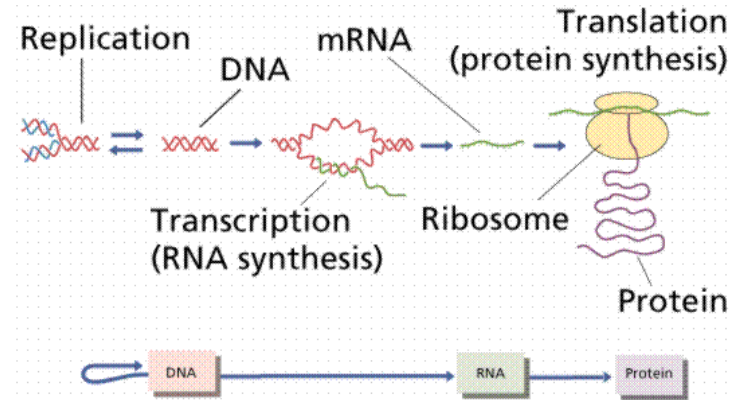


DNA Is Code – Who Coded It?

@ Dr. Heinz Lycklama

Life Requires Information

- Life = mass + energy (*material*) + information (*non-material*)
- Life requires:
 - Information stored in DNA
 - Machines (storage + programming)
 - Programs, e.g. replication
 - Complexity: Irreducible (all parts) & Specified (meaning)
 - Design requires an Intelligent Mind
- Life from non-life? NOT by chance!
 - Information IS the basis for life
 - Information requires an Intelligent Mind



Quote by Harvard Atheist

The Origin of Life. This problem is one of the big ones in science. It begins to place life, and us, in the universe.

Most Chemists believe, as I do, that **life emerged spontaneously from mixtures of molecules** in the prebiotic Earth.

How?

I have no idea.



George Whitesides
Chemist
Harvard University

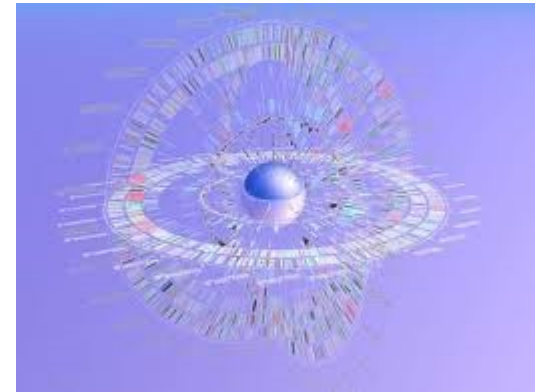
Chance, Necessity or Design?

Scratches on cave wall

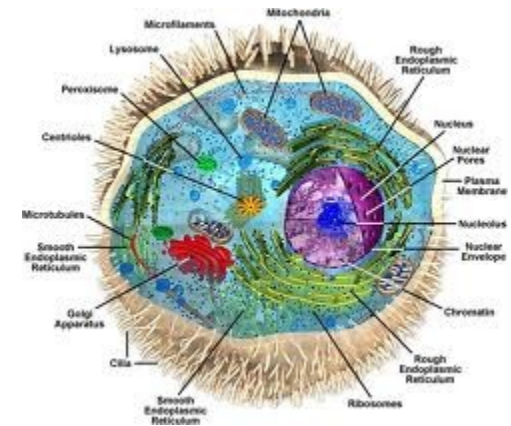


Human genome

3B
Base
Pairs

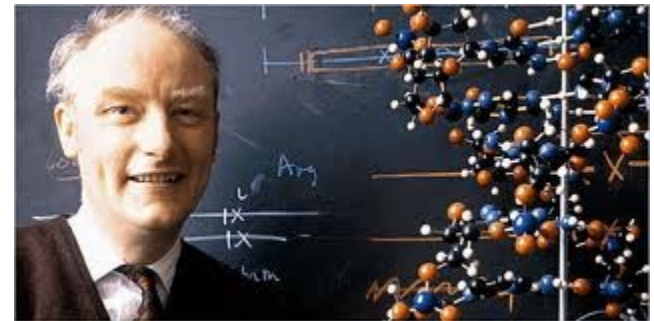


75T
Cells



The Evolutionists' Response?

- “Even if all the data point to an intelligent designer, such a hypothesis is excluded from science because it is not naturalistic.”
 - **S.C. Todd**, Kansas State University Professor
- “Biology is the study of complicated things that have the appearance of having been designed for a purpose.”
 - **Richard Dawkins**, Oxford Univ. Atheist Biologist
- “Biologists must constantly keep in mind that what they see was not designed, but rather evolved.”
 - **Francis Crick**, Co-discoverer of DNA

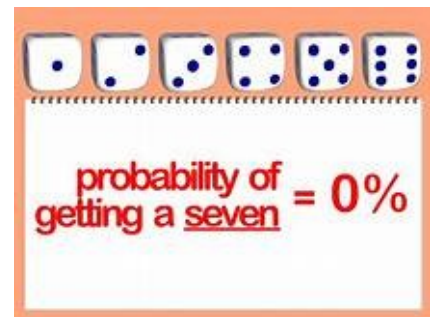
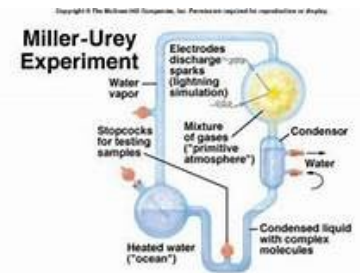


Life by Random Chance Processes Impossible

1. **Law of Biogenesis** established
 - Pasteur's experiment in 1864
2. **Life components** did not self-organize
 - Miller's experiments (+ others) failed
3. **Mathematical probability** of forming first living cell by natural random chance processes (1 in $10^{40,000}$) ? **NO**
4. **Life requires information**
 - Information requires an **intelligent mind**

Law of Biogenesis

In nature, life comes only from life and that of its kind.





God is The Author of Life

- 4 reasons life by natural processes is impossible
- Life created according to its kind, **Gen. 1**
 - Fossil record supports this
- Man created in God's image, **Gen. 1:26**
 - Mind, reasoning, logic, soul
- God created and sustains all creation,
Col.1:16-17, Ps. 139:13-14
- God is worthy to receive glory, honor, power,
Rev. 4:11

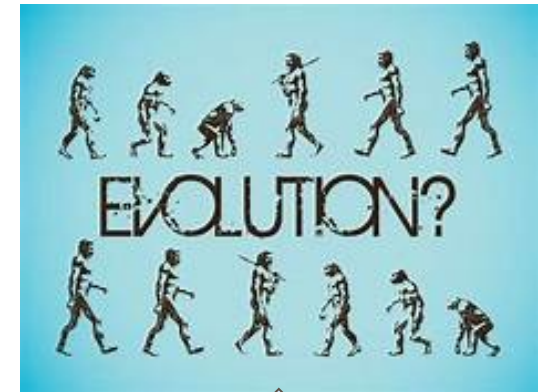
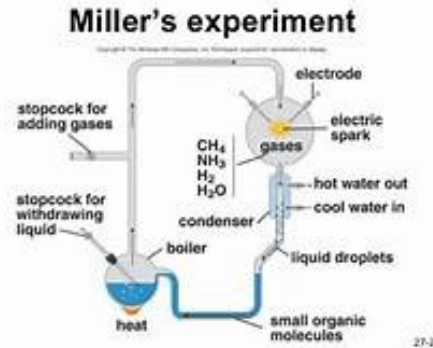
What Is Life? (AIG)

@ Dr. Heinz Lycklama

God is the Author of Life

You knit me together
in my Mother's womb
I praise you because I am
fearfully and wonderfully
made.

the rich 2 stitch
Psalm 139:13-14



Thank you

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