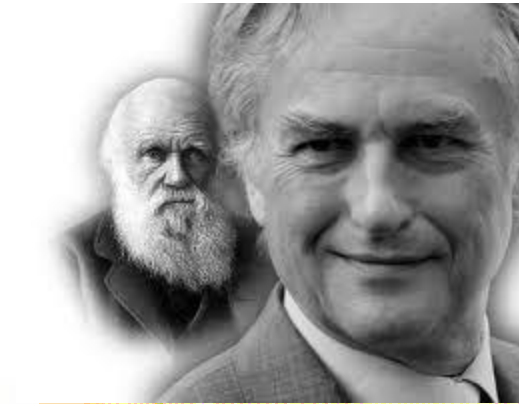
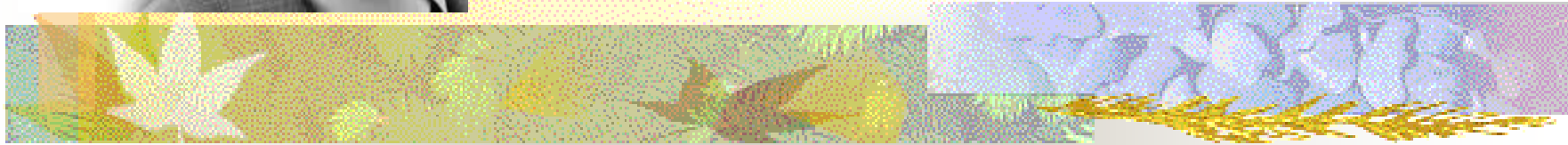
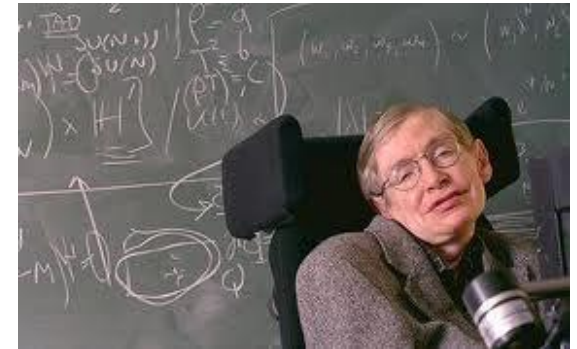


# New Atheist Pseudoscience



Dr. Heinz Lycklama  
heinz@osta.com  
[www.osta.com/messages](http://www.osta.com/messages)



*“We have found it of paramount importance that in order to progress, we must recognize our ignorance and leave room for doubt. Scientific knowledge is a body of statements of varying degrees of certainty - some most unsure, some nearly sure, but none absolutely certain”. Richard Feynman, Value of Science*

# 3/17/14: Proof for the Big Bang!

“Space Ripples Reveal Big Bang’s Smoking Gun”

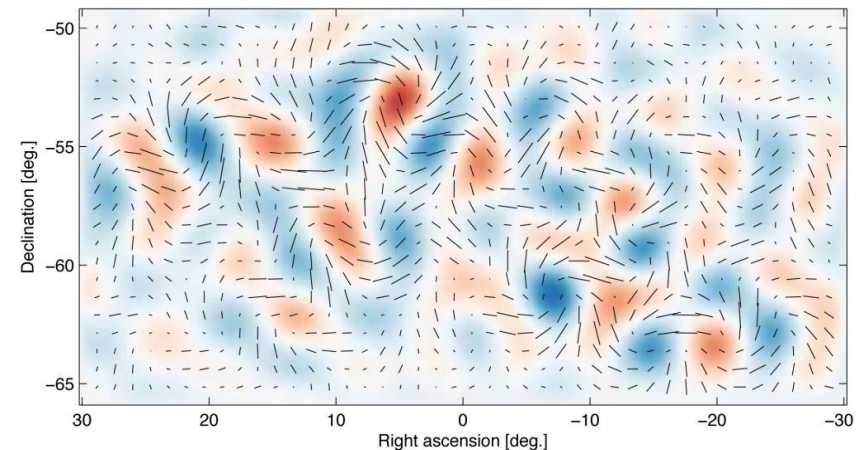
*NY Times*

“Major Discovery: ‘Smoking Gun’ for Universe’s Incredible Big Bang Expansion Found”

*Space.com*

“Observations confirm ‘inflation’ of early universe to cosmological sizes in early instant”

*National Geographic*



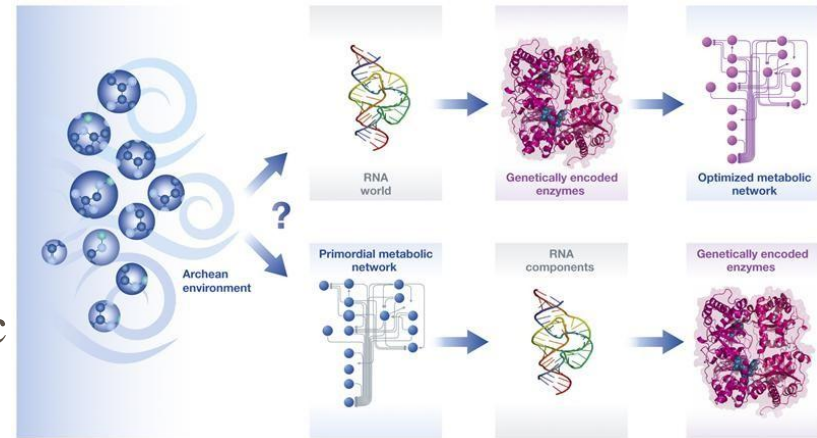
# Origin of Life: Earth? Sea? Mars?

- Science Daily, 4/25/14

“ ... how the first organisms on Earth could have become metabolically active. ... speculate how primitive cells learned to synthesize their organic components -- the molecules that form RNA, lipids and amino acids. ... suggest an order for the sequence ... that led to the origin of life.”

- The Telegraph, 8/28/13

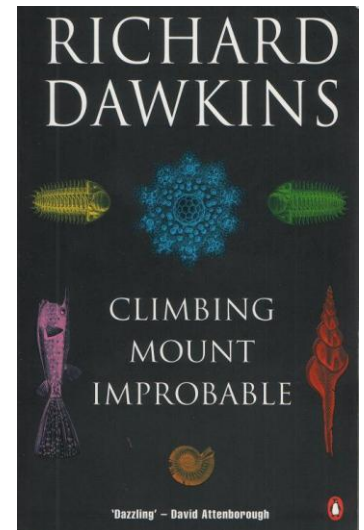
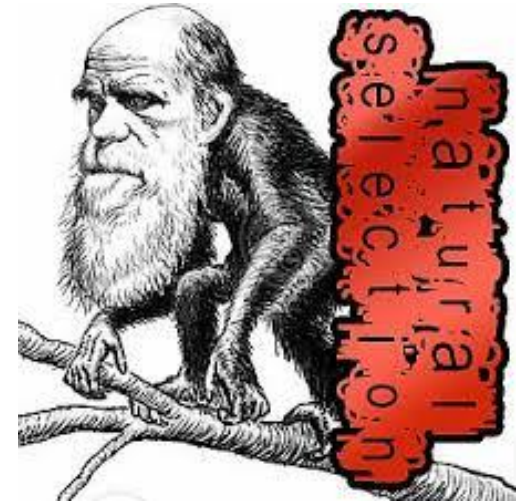
“Life on Earth may have come from Mars on an asteroid, a scientist has claimed as he says it is the explanation for an unusual rock.”





# Origin of Complex Life

- Nothing in biology makes sense except in the light of evolution
  - *Theodosius Dobzhansky*
- Evolution is a fact
- Natural selection accounts for the “apparent design” in life
  - *Richard Dawkins*
- Non-coding DNA is “junk DNA”
  - *Many evolutionists*

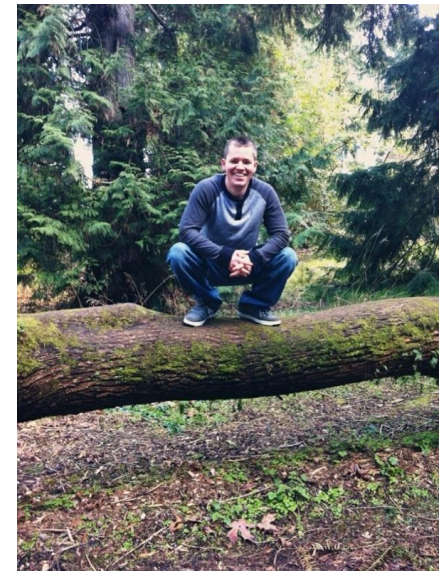
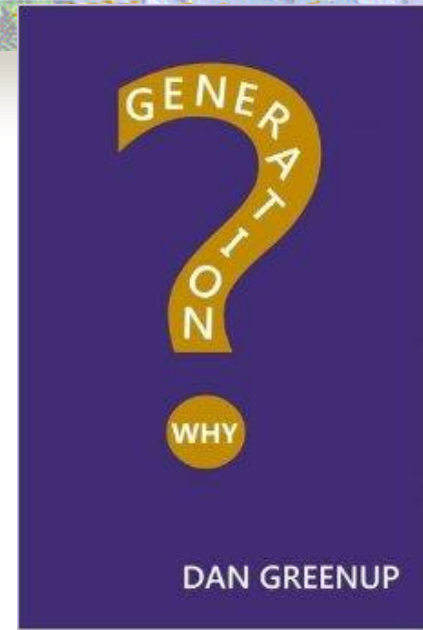


# Generation Why?

## “Why am I here?”

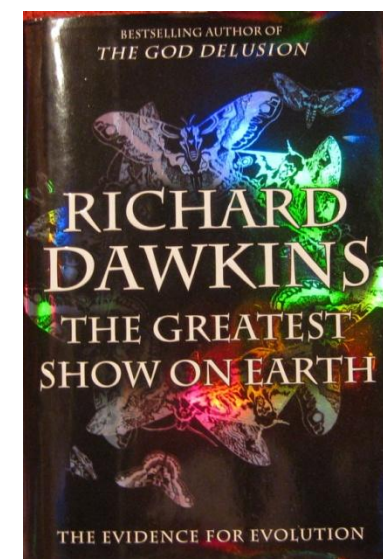
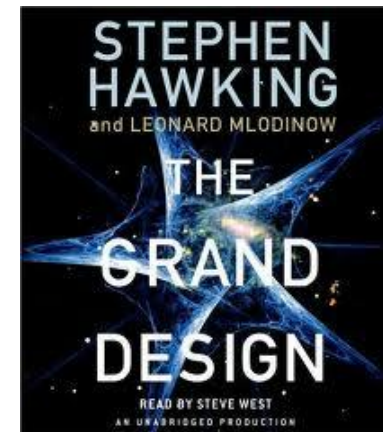
“I hate to break it to you, but you’ve been lied to. Shocking right? From elementary school on, we were all told that the universe created itself by chance, non-living chemicals formed into a living organism with complex genetic information and that through natural selection, this organism grew more complex over millions of years. What’s wrong with this account of history? Well none of these unproven assumptions are supported by scientific observation.”

*Dan Greenup, Christian writer*



# New Atheist Pseudoscience

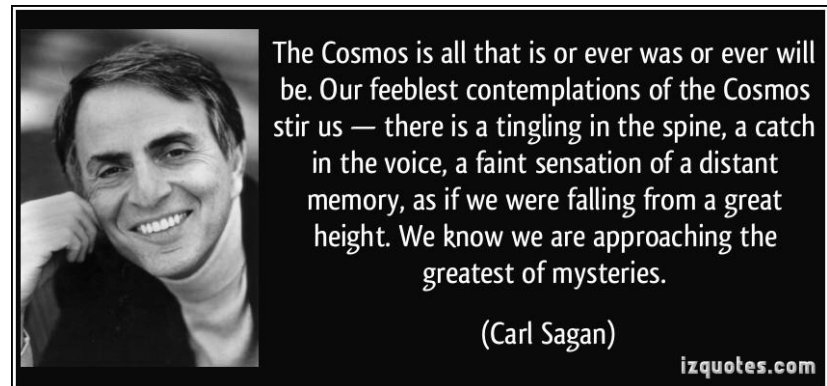
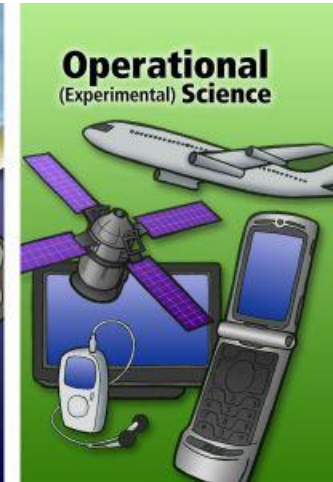
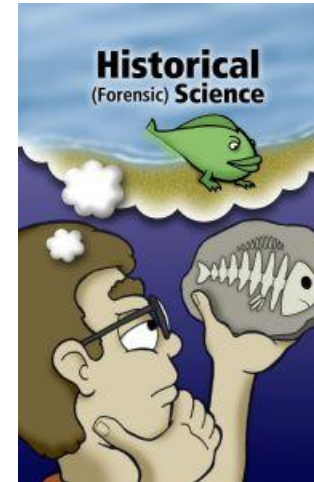
1. What Is Science?
2. Origins: Creation, Evolution, and Intelligent Design (ID)
3. Pseudoscience of the Past
4. New Atheists & Their Books
5. Pseudoscience Today In:
  - a. Origin of the Universe
  - b. Origin of First Life
  - c. Origin of Complex Life
6. The Verdict





# 1. What Is Science?

- Science definitions
  - Modern changes
  - Operational science
  - Origins science
- Naturalism (Scientism)
- Materialism
- What makes science possible?
- Pseudoscience
- Three Impossible Hurdles for Naturalism



# Science Definitions

- Science – knowledge discovered by experimentation, observation and objective investigation

- Use of Scientific Method (Bacon)

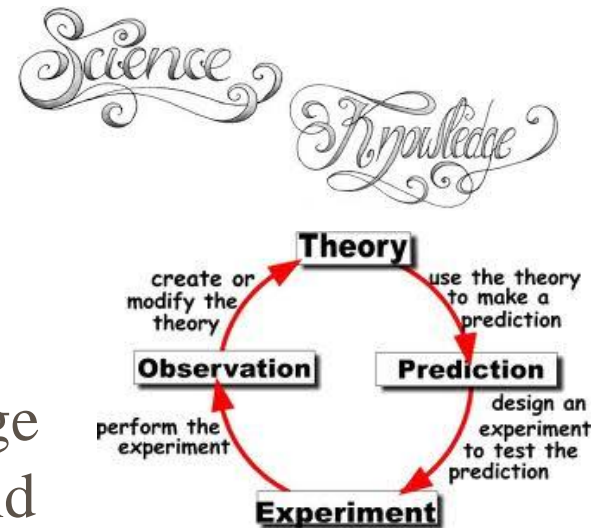
- Operational Science

- UK Science Council definition

- “Science is the pursuit of knowledge and understanding of the natural and social world following a systematic methodology based on evidence.” [*pursuit, rather than established*]

- Origins Science

- Not testable, verifiable or falsifiable



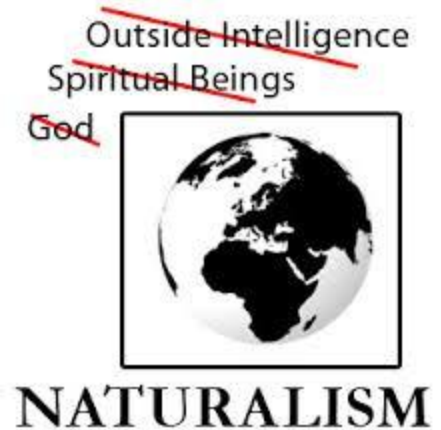


# Naturalism (Scientism)

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*



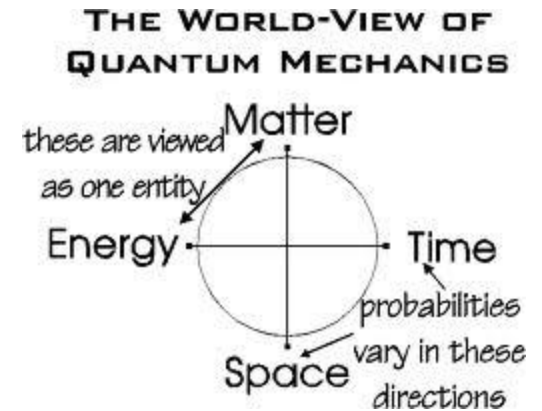
**Pillars of Naturalism:**



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

# 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



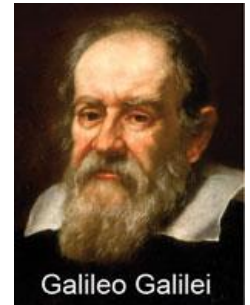
“We take the side of science *in spite* of the patent absurdity of some of its constructs, *in spite* of its failure to fulfill many of its extravagant promises of health and life, *in spite* of the tolerance of the scientific community for unsubstantiated just-so stories, because we have a prior commitment,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

*Richard Lewontin*

# What Makes Science Possible? \*

- Objective truth, e.g. **John 14:6**
- The universe is real, e.g. **Gen. 1**
- The universe is orderly, **1 Cor. 14:33**
- We can study God's Creation
- Man has both material and immaterial aspects, **Gen. 35:18; Matt. 10:28**
- Man can reason, made in God's image, **Gen. 1:26**

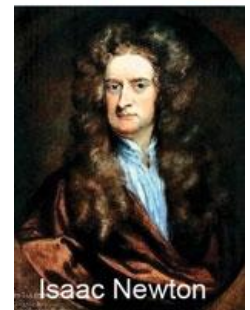
\* Sarfati



Galileo Galilei



Johannes Kepler



Isaac Newton



# Pseudoscience

- Oxford dictionary definition:
  - Beliefs/practices mistakenly regarded as being based on scientific method
- Scientific status of a Theory depends on falsifiability, refutability, testability (Popper)
  - Theory T predicts O will not be observed
  - O is observed
  - Thus T is false
- With auxiliary hypotheses
  - T + auxiliary hypothesis A predict O will not be observed
  - O is observed
  - Thus either T or A is false
- e.g. Fallacy in equating Adaptation to Evolution



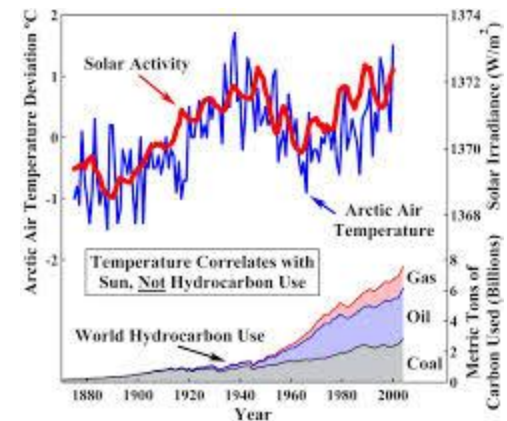
# Detecting Pseudoscience

- Signs of pseudoscience
  - Emphasis on confirmation rather than refutation
  - Use of vague or untestable claims
  - Lack of testing by others
  - Suppression of dissent
  - Misleading language
  - Attacking character of questioner



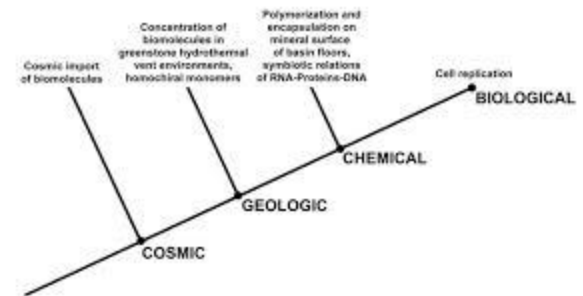
- Some examples of pseudoscience

- Alchemy, Astrology
- Climate Change (aka AGW)
- Macro-Evolution



# Three Impossible Hurdles For Naturalism

1. Origin of the universe
  - Matter, energy, galaxies, stars, planets
2. Origin of first life
  - Non-life to life (abiogenesis)
3. Origin of complex life forms
  - Macro-Evolution





## 2. Origins: Creation, Evolution and ID

### ■ Creation

- God created the universe and all life according to its kinds

### ■ Evolution

- Macro-Evolution
- Molecules -> Man
- Common Descent
- Mutations + Natural Selection

### ■ Intelligent Design (ID)

- Irreducible & Specified Complexity
- Information implies an intelligent designer



“A fair result can be obtained only by fully stating and balancing the facts and arguments on both sides of each question.” *Charles Darwin*

### INTELLIGENT DESIGN THEORY



*The study of patterns in nature  
that are best explained as the  
result of intelligence*

# The Meaning of Evolution

1. Artificial Selection ←

- Plant and animal breeding

2. Change ←

- Evolution of a coastline (random)
- Evolution of a car (designed)

3. Micro-Evolution ←

- Small variation within prescribed limits of complexity
- e.g., finch beaks by mutation and natural selection

4. Macro-Evolution ←

- Particles -> people

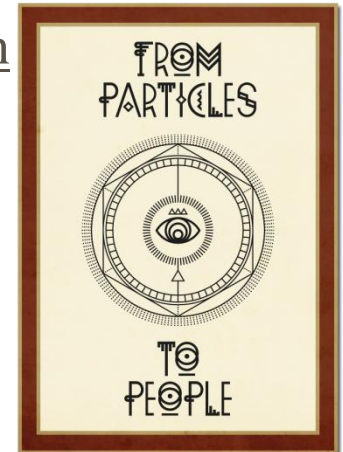
5. Molecular Evolution ←

- Origin of life – assumes a mutating replicator

Only 1, 2 and 3  
have been observed

4 never observed!

5 is impossible!



# Natural Selection

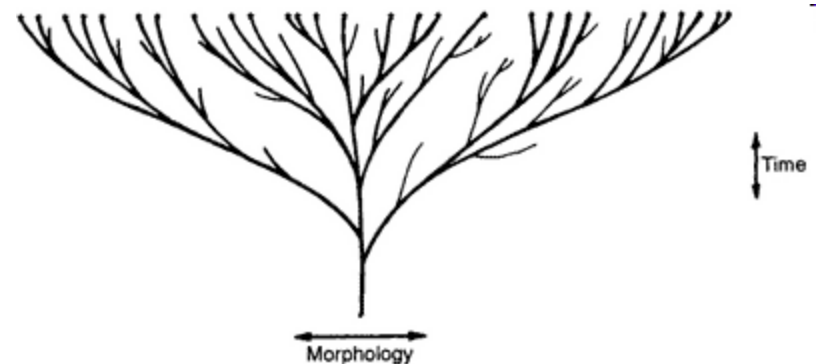
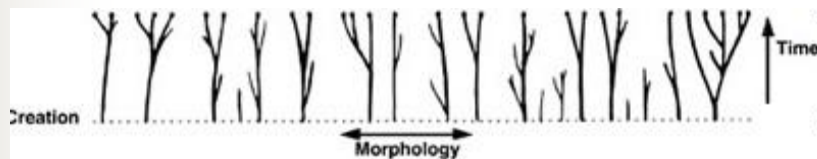
- Selecting information that already exists

## ■ Natural Selection Can

- Decrease genetic information
- Allow organisms to survive better in a given environment
- Act as a “selector”
- Support Creation’s “orchard” of life

## ■ Natural Selection Cannot

- Increase or generate new genetic information
- Allow organisms to evolve from molecules to man
- Act as an “originator”
- Support evolutionary “tree of life”

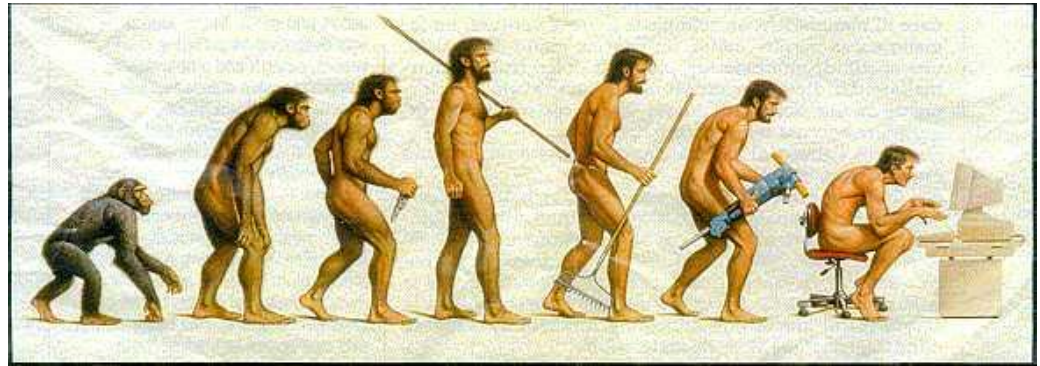




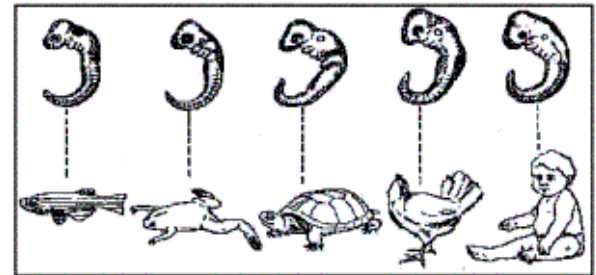
# 3. Pseudoscience of the Past

## Evolution Of The Gaps

- The fossil record
- Human origins
- Haeckel's embryos
- Vestigial organs
- Scopes Trial claims, 1925
- Icons of Evolution, Jonathan Wells



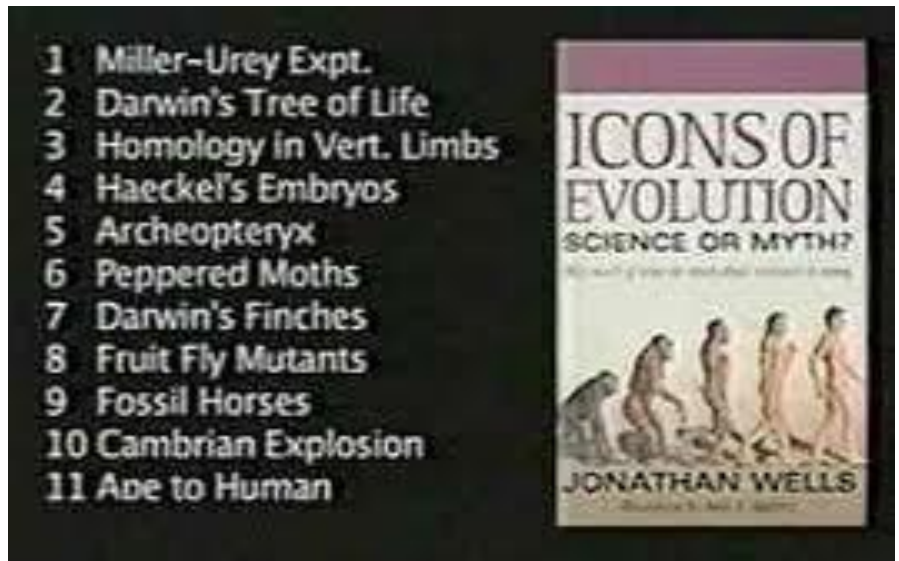
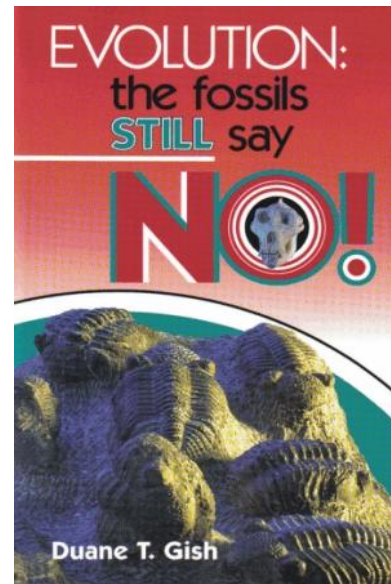
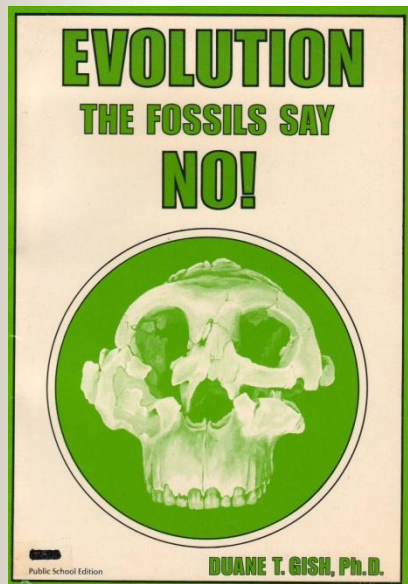
**MYTH:** Certain similarities in development of animal embryos indicates that they share a common ancestry. This representation, common in biology textbooks, is based off of the faked data of 19<sup>th</sup> century embryologist Ernst Haeckel.



# Fossil Record

“Why is not every geological formation and every stratum full of such intermediate links? Geology assuredly does not reveal any such finely graduated organic chain; and this is the most obvious and serious objection which can be urged against the theory.”

*Charles Darwin, Origin of Species, 6<sup>th</sup> Ed., 1872, p. 413.*



# “Human Origins” Fossils

- Neanderthal Man – accepted as homo sapiens
- Java Man – artificial construct
- Piltdown Man – proven to be a hoax
- Nebraska Man – an extinct pig
- Ramapithecus – an orangutan
- Lucy – make-believe creature



“Unfortunately, the fossil record of pongids (*apes*) is nonexistent, making a glaring deficiency in the whole story.”

*Steven Gould (Evolutionist)*



# Haeckel's Embryos

- The embryos shown are (left to right) fish, salamander, tortoise, chick, pig, calf, rabbit and human – representing 5 of the 7 vertebrate classes
- Haeckel omitted two classes of vertebrate (jawless and cartilaginous fishes) entirely, and half of the embryos are mammals - thus using a biased sample
- Discovered to be faked drawings later on

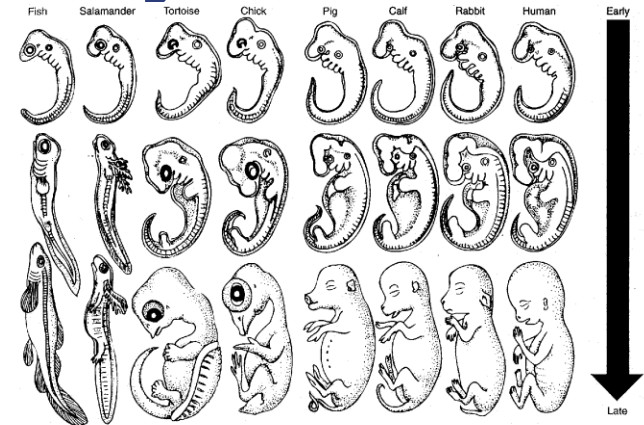
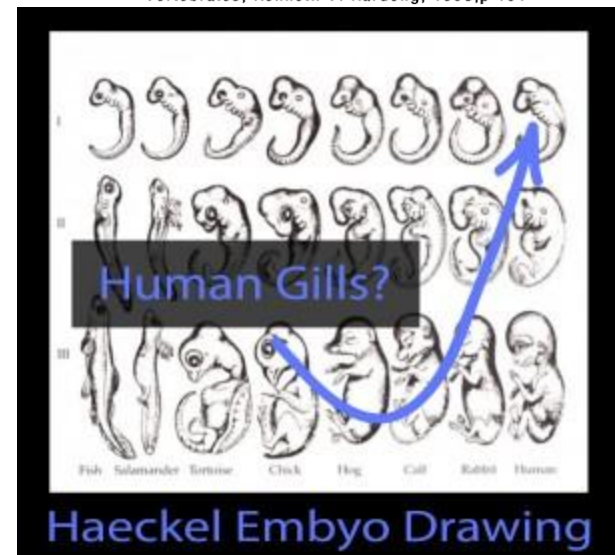


FIGURE 5.38 Haeckel's comparison of early embryonic stages across vertebrate groups. Eight species are shown across the figure. The youngest developmental stage of each is at the top of the figure followed by two successively older stages below. After Haeckel.

www.bible.ca  
Vertebrates, Kenneth V. Kardong, 1998, p 191



# Vestigial Organs

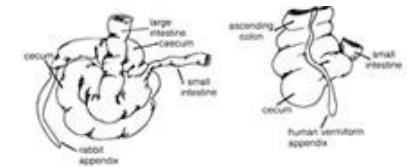
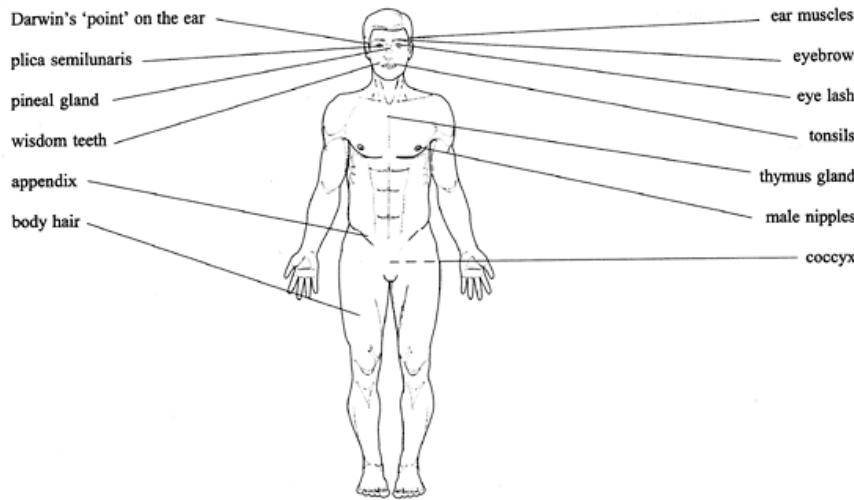
- Organs or structures that do not appear to have any function
  - Oxford English Dictionary definition: “Lost its function in the course of evolution”
- Claimed by evolutionists to be left over from an evolutionary ancestor
  - Evidence for evolution
  - Degenerate, atrophied
- List of 86 human organs considered to be “vestiges” by Wiedersheim in 1893

“We must, however, acknowledge, as it seems to me, that man with all his noble qualities ... still bears in his bodily frame that indelible stamp of his lowly origin.”

*Charles Darwin*

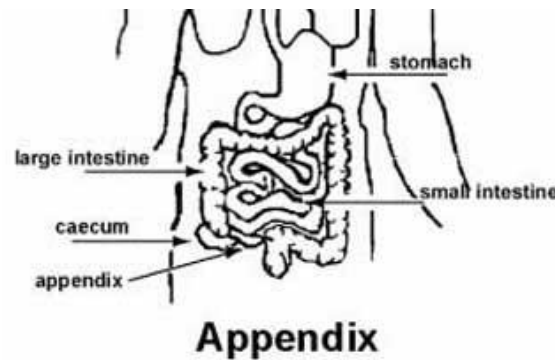
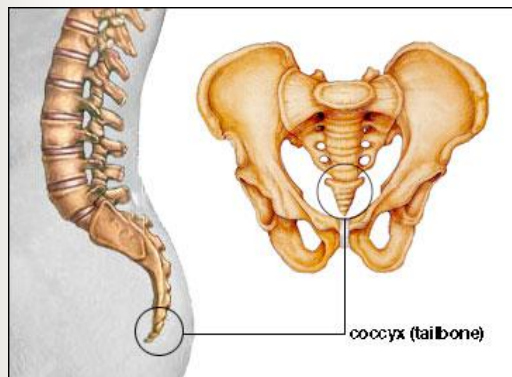
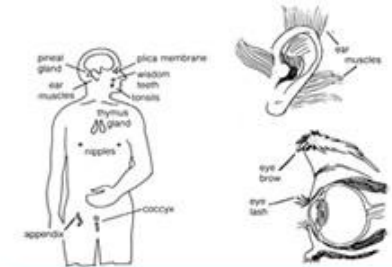


# Examples of Vestigial Organs



**“Vestigial Organs”  
Are  
Fully Functional**

Jerry Bergman, Ph.D. and George Howe, Ph.D.

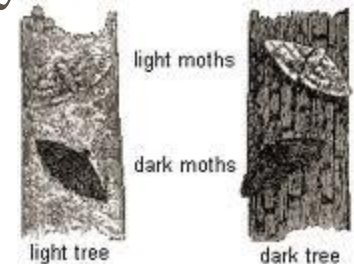
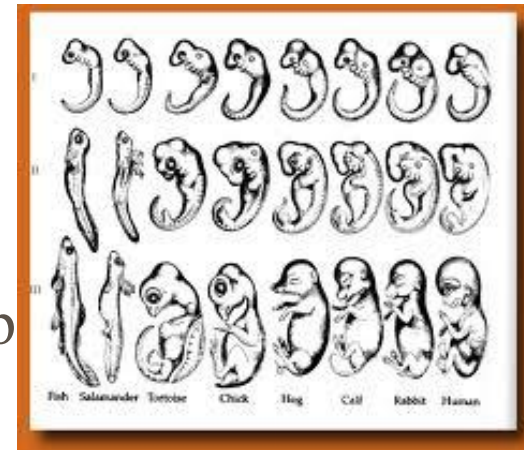




# Scopes Trial in 1925: Scientific “Evidences” Now Discredited

“Evidence” – why each was discredited

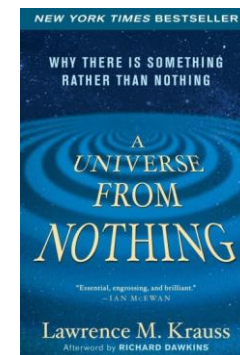
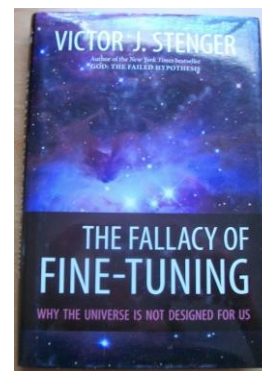
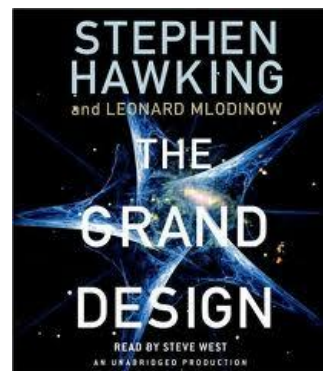
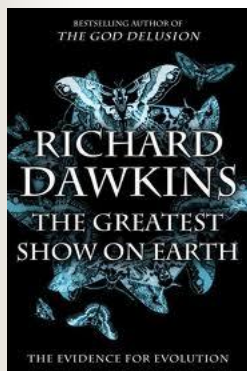
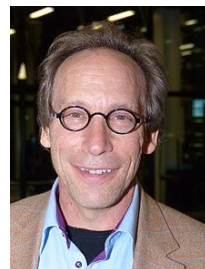
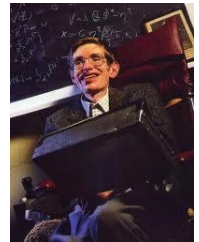
- Neanderthal man – fully human people
- Piltdown – ape jaw joined to man’s skull-cap
- Nebraska – based on fossilized pig’s tooth
- Embryonic recapitulation – Haeckel forged embryo drawings
- Peppered moth – colors shifts, now shifted back
- Vestigial organs – not evolutionary leftovers, but part of our immune system



“Evidence” still in textbooks, but admitted to be faulty!

## 4. New Atheists & Their Books

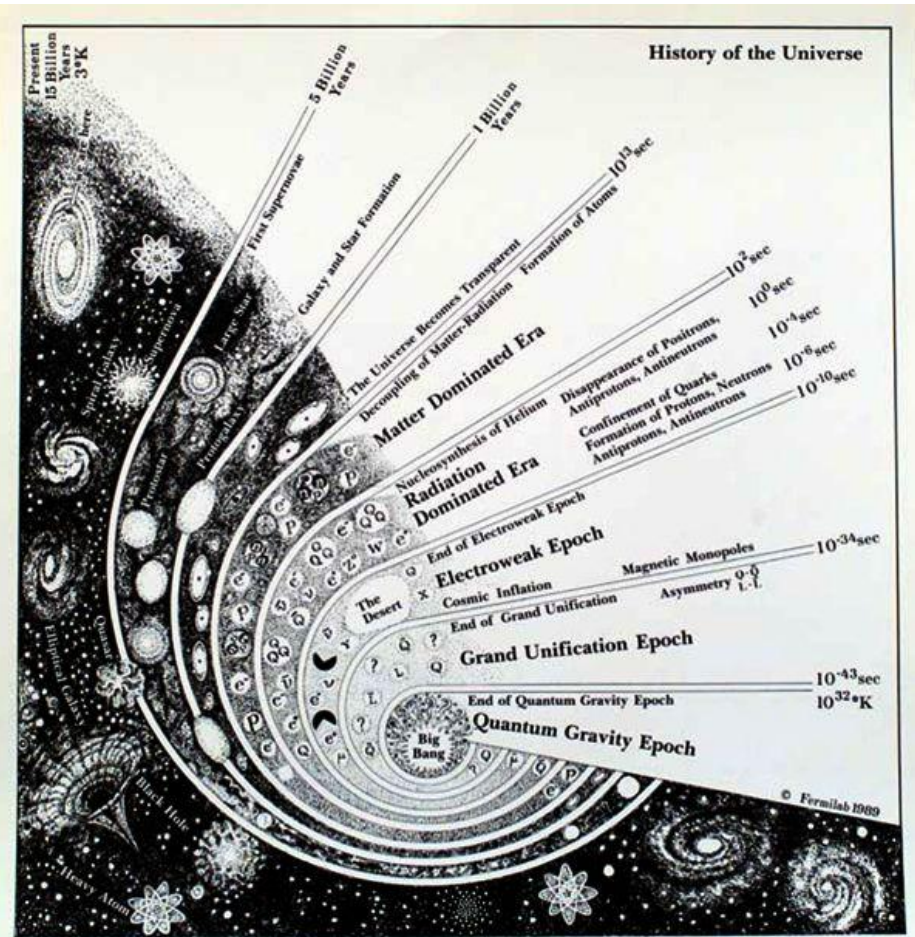
- Dawkins, *The God Delusion*, 2008
- Dawkins, *The Greatest Show on Earth*, 2009
- Hawking, *The Grand Design*, 2010
- Mazur, *the Altenberg 16: An Expose of The Evolution Industry*, 2010
- Stenger, *The Fallacy of Fine Tuning*, 2011
- Krauss, *A Universe From Nothing*, 2012





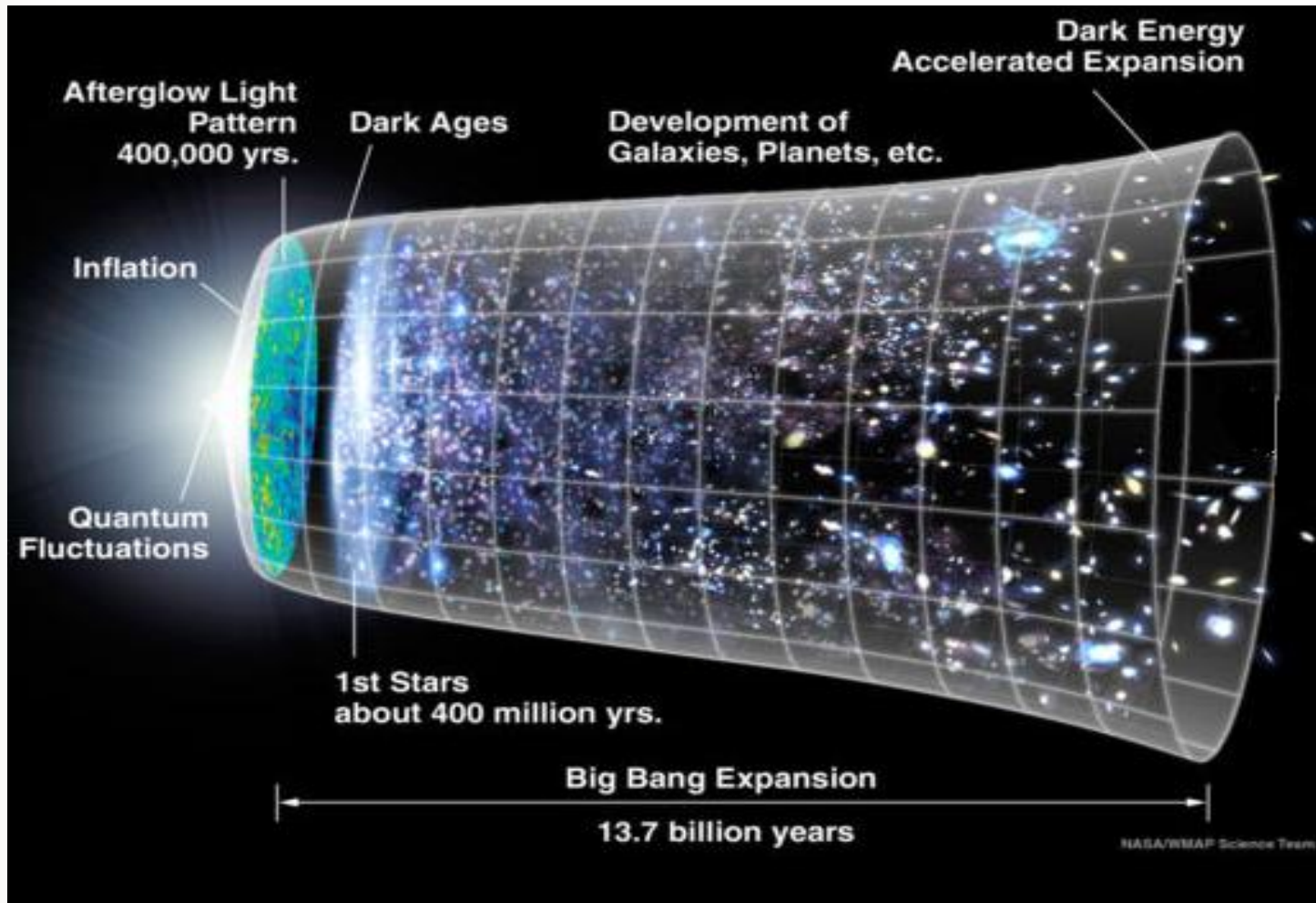
# 5a. Origin of the Universe

- The Big Bang (BB)
- Cosmic Inflation?
- Universe from nothing?
  - Singularity
  - Quantum fluctuations
  - Law of gravity
- Fine tuning
- The multiverse
- String theory
- In conclusion





# Big Bang Model



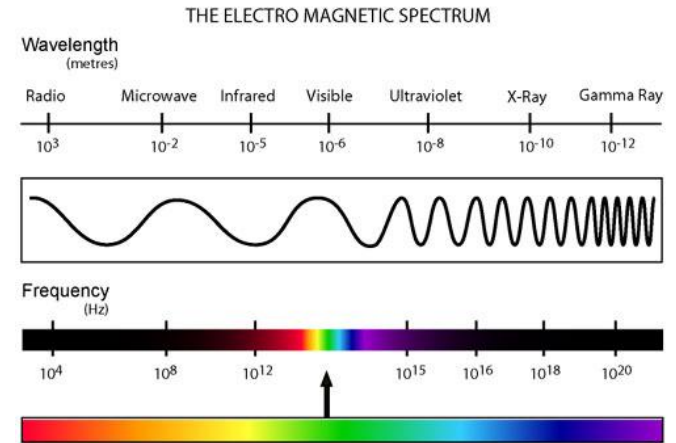
# “Evidence” for/con the Big Bang

## ■ “Evidence” for the BB

- Red shift of starlight
- Cosmic microwave background radiation (CMBR)
- Element abundances

## ■ Evidence against BB

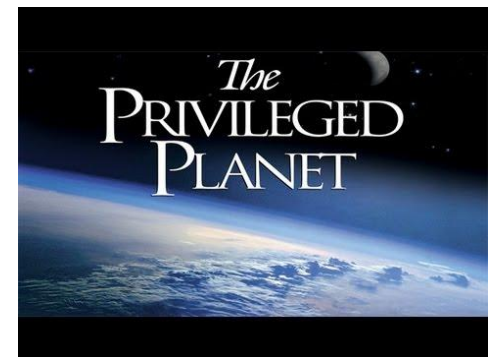
- Quantized red shifts
- Cosmological principle falsified
  - Milky Way galaxy close to center
  - Universe has an edge
- BB requires too many “fudge” factors



Towards us  
(blue shift)



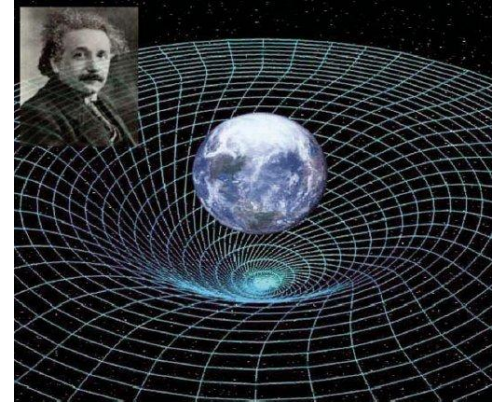
Away from us  
(red shift)





# Unprovable Fudge Factors

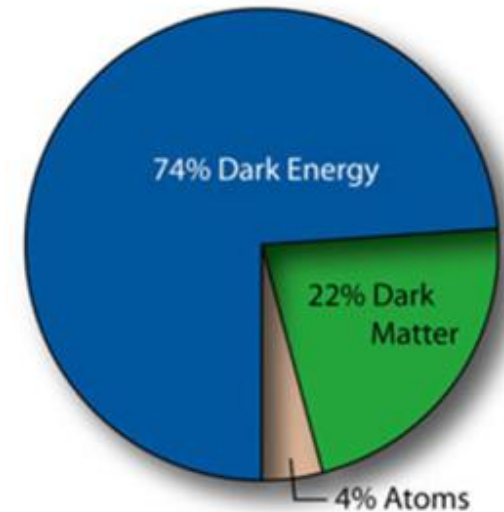
- General theory of relativity
  - Einstein's cosmological constant
  - Introduced to keep universe static and stable
  - Einstein's "biggest blunder of my life"
  - Later found to be necessary (0 – 99.7% certain)
- Dr. Richard Lieu (Astrophysicist) quotes:
  - "Cosmology is not even astrophysics: all the principal assumptions in this field are unverified (or unverifiable) in the laboratory ... because the universe offers no control experiment, i.e. with no independent checks, it is bound to be highly ambiguous and degenerate."
  - Cosmologists have become "comfortable with inventing unknowns to explain the unknown"





# Using Unknowns to Explain Unknowns

1. Redshift of light from galaxies, explained by **expansion of space**
2. CMBR, explained as **the afterglow** of the Big Bang
3. Perceived motion of stars and gases in the disks of spiral galaxies, explained by **dark matter**
4. Dim distant supernovae (accelerating universe), explained by **dark energy**
5. Flatness and isotropy, explained by **inflation**

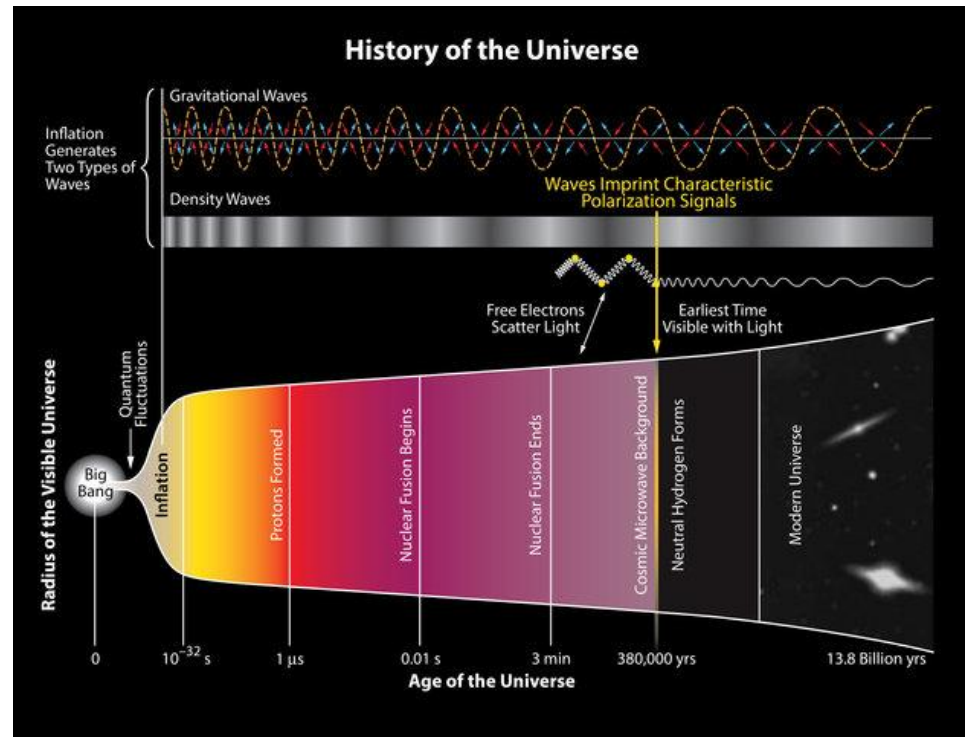


*Dr. Richard Lieu (Astrophysicist)*

# More on the Big Bang Model

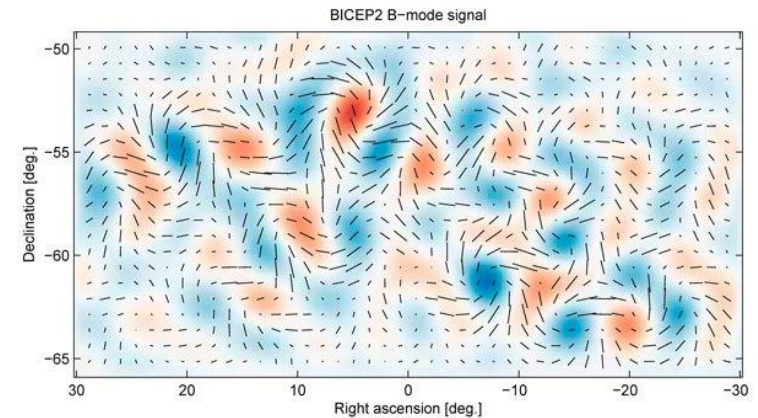
- Singularity exploded
- Quantum fluctuations
- CMBR issues
  - Horizon problem
  - Flatness problem
  - Monopole problem
- Cosmic inflation (?)
  - Gravitational waves
  - Density waves
- Expansion

Today [3/17/14] it seems that evidence for inflation may have been found



# Proof of Cosmic Inflation?

- Polarization in the CMBR?
  - Wave phenomenon, vibrating in all directions
  - Electromagnetic waves can be polarized different ways
  - Only one experiment today
  - Evidence can fit static or expanding universe
- Cosmic inflation not a single theory
- If model changes, predictions change
- Inflation is just one of many free parameters
- Other mechanisms could mimic signal claimed
  - e.g. incorrect subtraction of foreground microwaves
  - Some other physical mechanism may be at play



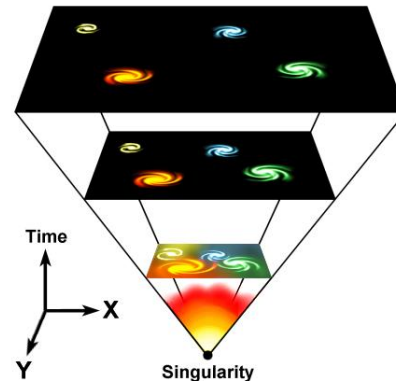
3/17/14

5/12/14



# Universe From Nothing?

- Implies existence apart from universe
- Singularity
  - Infinite density
  - Modeling of origins
- Laws of nature
  - Universe has many histories
  - The universe will create itself
  - Quantum fluctuations
  - Law of gravity
  - Reject God, no Creator



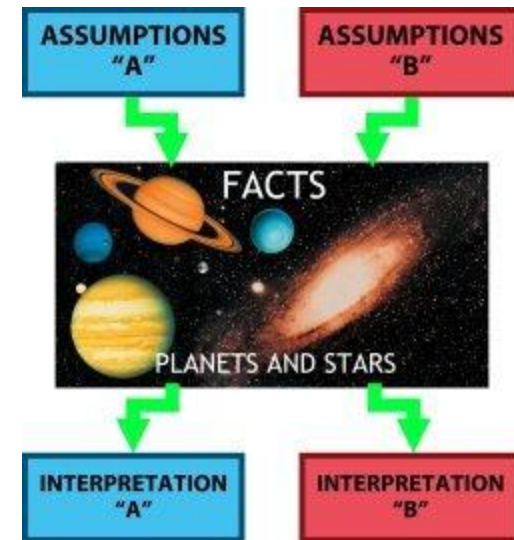
"Because there is a law such as gravity, the universe can and will create itself from nothing."  
—Hawking

# Something From Nothing?

## QUOTABLE QUOTE: The Origin of the Universe

*'What is a big deal — the biggest deal of all — is how you get something out of nothing.*

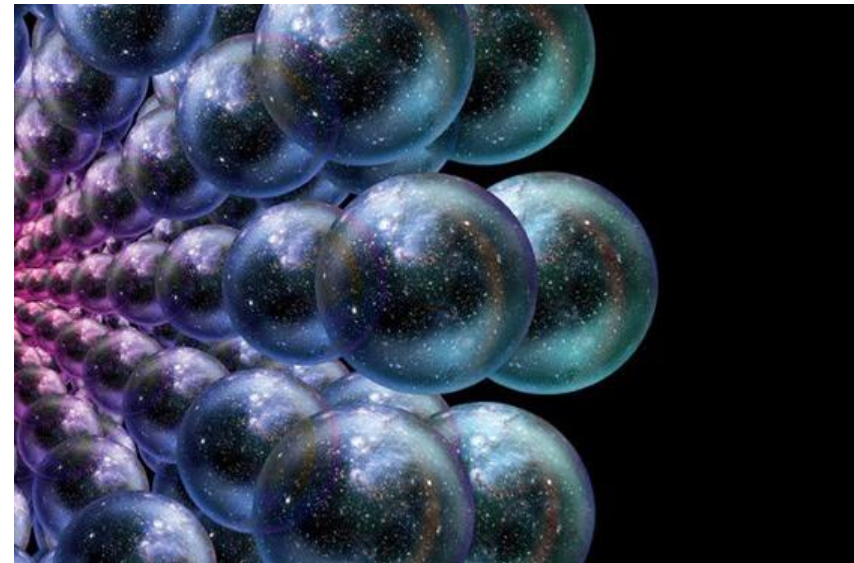
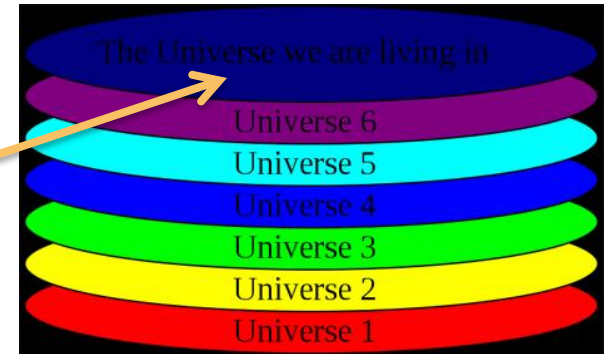
*Don't let the cosmologists try to kid you on this one. They have not got a clue either — despite the fact that they are doing a pretty good job of convincing themselves and others that this is really not a problem. "In the beginning," they will say, "there was nothing — no time, space, matter or energy. Then there was a quantum fluctuation from which . . ." Whoa! Stop right there. You see what I mean? First there is nothing, then there is something. And the cosmologists try to bridge the two with a quantum flutter, a tremor of uncertainty that sparks it all off. Then they are away and before you know it, they have pulled a hundred billion galaxies out of their quantum hats.'*



Darling, David, 1996. On creating something from nothing. *New Scientist*, 151(2047):49.

# The Multiverse

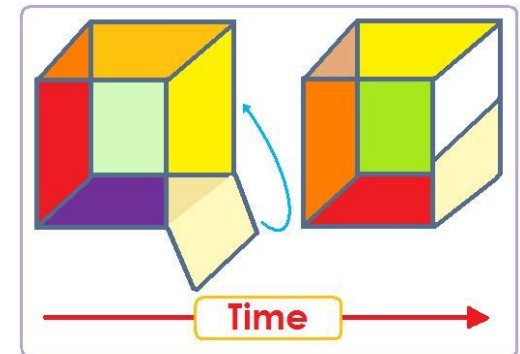
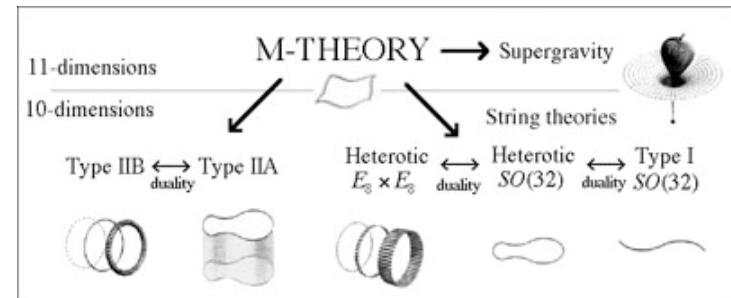
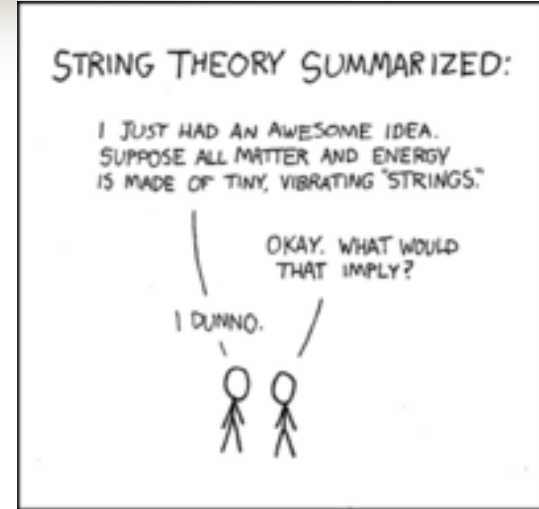
- Fine tuning probability
  - $10^{500}$  universes possible
  - No need for Anthropic Principle
- Only our universe is observable/measurable
  - Exists by chance/luck?
  - Fine tuned for life
- Pseudoscience
  - Speculation
  - Not verifiable/falsifiable





# String Theory

- Universe made up of ten dimensions
  - Strings vibrate in multiple dimensions
  - Cannot detect all dimensions directly
  - Later increased to eleven dimensions
  
- Now 5 major string theories
  - Appear to describe same thing from different perspectives
  - **M-Theory** – a Theory of Everything?
  - Speculation only
  
- We live in a 4-dimensional world
  - Height, length, width, time



# Cosmology & Philosophy



“I describe the history of the development of the standard big bang cosmology and how it is understood in terms of its philosophical underpinnings. The **Cosmological Principle** is explained as the major and essential assumption upon which it all depends. Due to this it has been required to invent unknown stuff, expansion of space, Dark Energy, Dark Matter, CMB radiation as afterglow of Big Bang, and Inflation. None of these are experimental observed in the lab.”

*Dr. John Hartnett, Australian Creation Cosmologist*



“That barrier to knowledge, some argue, is cosmology’s Achilles’ heel. ‘Cosmology may look like a science, but it isn’t a science,’ says James Gunn of Princeton University, co-founder of the Sloan survey. ‘A basic tenet of science is that you can do repeatable experiments, and *you can’t do that in cosmology.*’”

*Dr. James Gunn, Princeton University, Astrophysicist*

# In Conclusion – Origin of Universe

- Big Bang “fudge” factors explained by Inflation?
  - Dark matter, dark energy, red shift quanta
  - Horizon, Flatness, Monopole problems
- Cosmic Inflation is unobserved
  - ‘Smoking gun’ is model dependent
- Universe from nothing – NO
- Fine tuning is real
- Multiverse is speculation
- String Theory/M-Theory is not science
- Cosmology depends on unverifiable assumptions





## 5b. Origin of First Life

- The Latest News
- Ingredients For Life
- Abiogenesis Possible?
- How Did Life Begin?
  - Darwin's Little Pond
  - Warm Little Ponds?
  - Ocean Vents
- Panspermia
- Life From Mars?
- Self-assembly
- In Conclusion

"The origin of life ... abounds with ... exotic theories, which are never entirely abandoned or accepted, but merely go in and out of fashion."

*J. Horgan*



# The Latest News

- New Scientist, 4/25/14
  - Spark of life: Metabolism appears in lab without cells – occurred spontaneously
- Science Daily, 1/24/14
  - Mars could have supported life: ten years on Mars leads to livable mud
- Science Daily, 3/21/13
  - Enzymes allow DNA to swap information with exotic molecules
- Science Daily, 4/4/13
  - Power behind primordial soup discovered
  - Phosphorus found on Mars

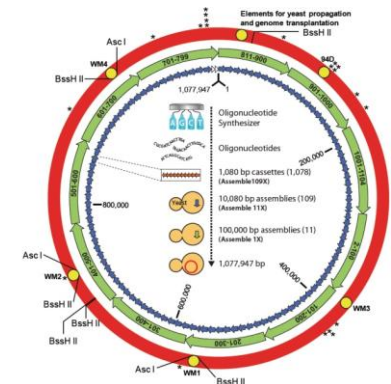


# More Recent News

- US News & World Report, 5/7/14
  - Scientists create 1<sup>st</sup> living organism from artificial DNA
- Scientific American, 6/1/14
  - How to Search for Life on Mars
  - We know that liquid water once flowed across its surface
- DNA Blog, 10/10/13
  - How Craig Venter Created Life
  - Craig Venter & team have built the genome of a bacterium from scratch & incorporated it into a cell to make “so-called” world’s first synthetic life form
- Scientific American, 6/1/14
  - Students build first eukaryotic chromosome from scratch



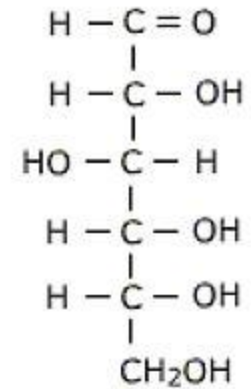
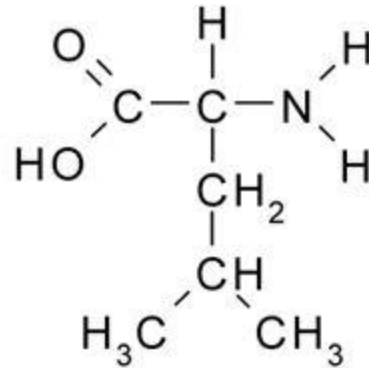
The assembly of a synthetic *M. mycoides* genome in yeast



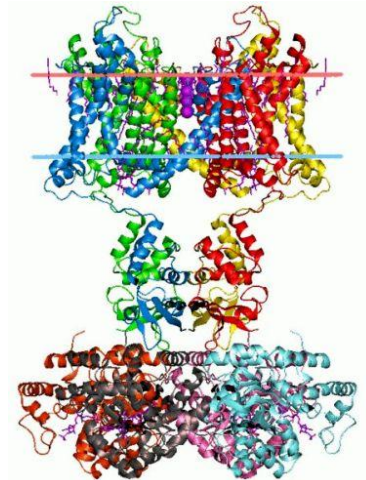
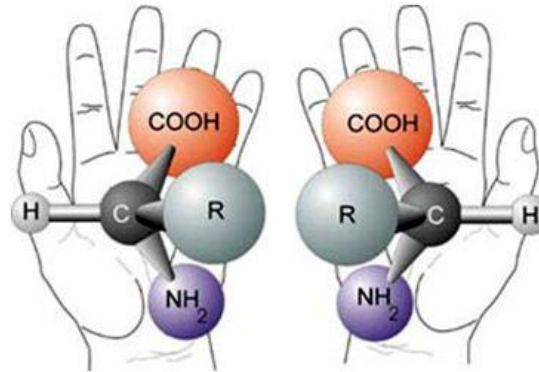
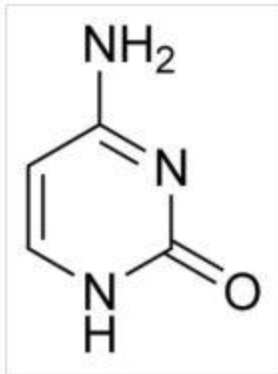


# Ingredients For Life

- Amino acids (proteins)
- Handedness (chirality)
- DNA/RNA components
- Sugars (backbone)
- Lipids (cell membrane)

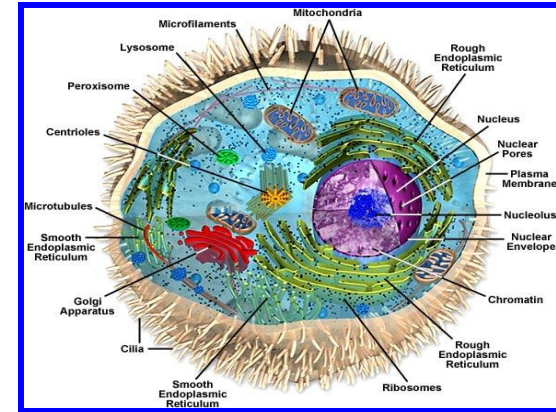


Chicken & egg problem – DNA? RNA? Protein?



# Abiogenesis Possible?

- Miller/Urey experiment
- Earth? Sea? Mars?
- Show stoppers:
  - Information (DNA/RNA)
  - Complexity, redundancy
  - Mathematical probability



“There is enough information capacity in a single human cell to store the *Encyclopedia Britannica*, all 30 volumes of it, three or four times over.”

*Richard Dawkins*

Thus the code can not be translated except by using certain products of its translation. This constitutes a baffling circle; a really vicious circle, it seems, for any attempt to form a model or theory of the genesis of the genetic code.”

*Sir Karl Popper, Philosopher of Science*

# How Did Life Begin?

- Edge of an ancient tidal pool?
- Deep in the ocean?
  - Hydrothermal vent?
  - Volcanic pool?
- From outer space?
  - Meteorite, comet, asteroid?
- Possible steps (self-assembly?):
  - Spontaneous chemicals  
-> bubble-like structures
  - Complex molecules
  - Self-replicating molecule
  - Cellular metabolism

Over the last 50 years, “no empirical evidence supports the hypotheses of spontaneous appearance of life on earth from nothing but a molecular soup, and no significant advance in scientific knowledge leads in this direction.”

*Prof. of Biology Meinesz, 2008*







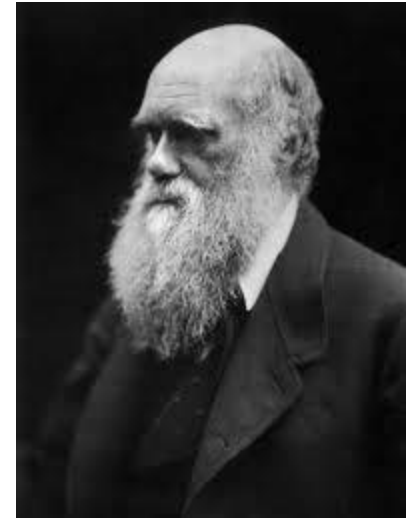
# Self-Replicating Molecule?

“In conclusion, molecular biology in recent years has revealed previously unimagined levels of sophistication in the details of sub-cellular organization and function. The available evidence from the field and the laboratory is not amicable to the theory that life began with the accidental assembly of a **self-replicating molecule**. It is now accepted with so many qualifications that its scientific integrity, even as a heuristic device, is questionable.”

*Creation Ministries International*

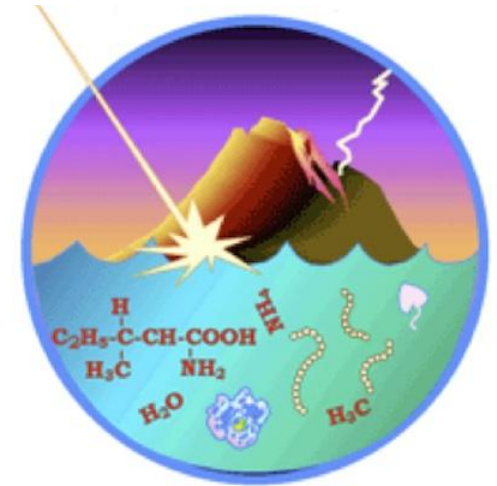
# Darwin's Little Pond (1871)

"It is often said that all the conditions for the first production of a living organism are now present, which could ever have been present. But if (and oh! what a big if!) we could conceive in some warm little pond, with all sorts of ammonia and phosphoric salts, light, heat, electricity, etc., present, that a proteine (*sic*) compound was chemically formed ready to undergo still more complex changes, at the present day such matter would be instantly absorbed, which would not have been the case before living creatures were found."



# Warm Little Ponds?

- Test of Darwin's idea
  - Hot little puddles associated with volcanoes
  - Volcanic pools do not provide the right conditions to spawn life
  - No evidence for existence of concentrated little ponds
- Hot acidic waters with clay
  - Organic compounds cling too tightly to the clay
  - No further chemical reactions possible





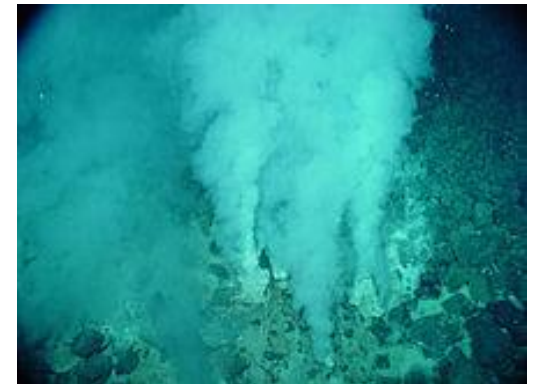
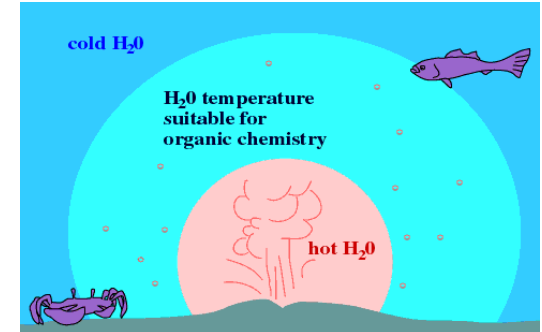
# Hydrothermal Vents

- Spontaneous generation - falsified
  - Volcanic pool?
  - Hydrothermal vent?
- Areas on the seafloor where water heated by volcanic activity under the seabed gushes out
  - Too hot for amino acid survival
- Experiment in Japan in 2012?
  - Simulated conditions in flow reactor
  - “Proof” based on evolutionary faith
  - Longest polymer 6 amino acids, not 100’s



# Ocean Vent Problems

- Ultraviolet rays kill amino acids
- Organic molecules unstable > 80F
- Source of organic building blocks?
- Proteins, DNA, RNA, lipids do not form in the ocean by themselves
- Proteins in ocean do not concentrate



“The idea of such a ‘soup’ containing all desired organic molecules in concentrated form in the ocean has been a misleading concept against which objections were raised early.”

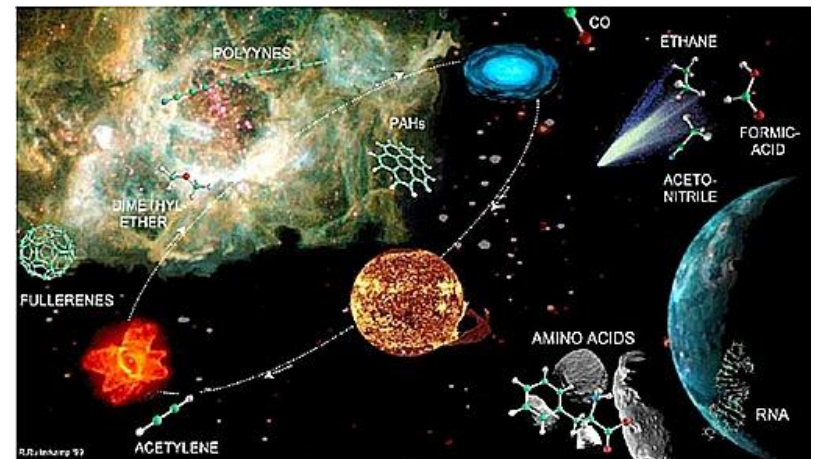
*Mojzsis, The RNA World*

# Panspermia?

- Interstellar dust
  - Comet or asteroid may be source of raw ingredients needed for life
  - Space rocks brought water and organic molecules to earth
  - Meteorite created geothermal vent
  - Ice melted in impact craters
- Two requirements:
  - Extraterrestrial life source
  - Transfer of life to earth

“Nothing illustrates clearly just how intractable a problem the origin of life has become than the fact that world authorities can seriously toy with the idea of panspermia.”

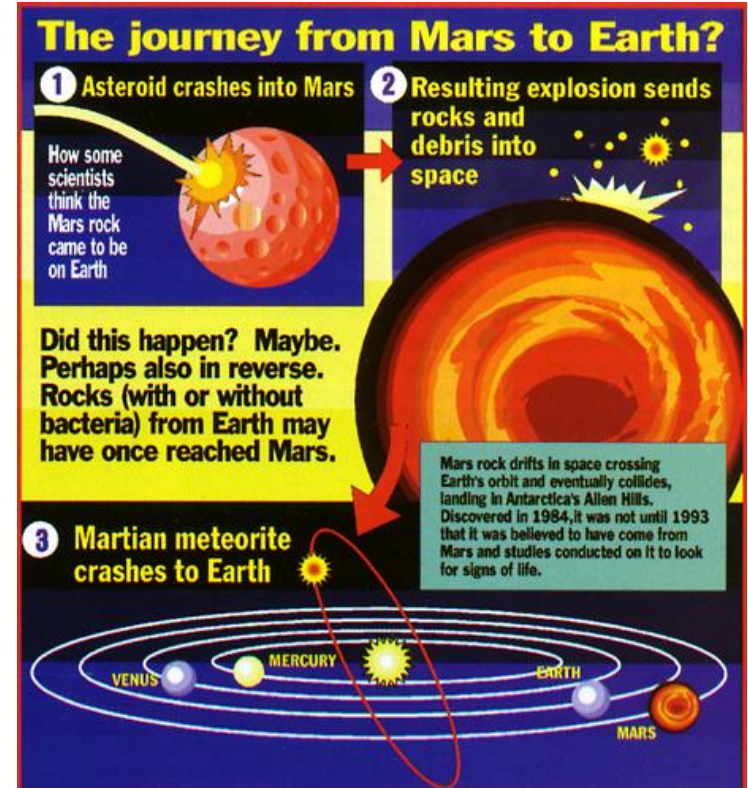
*Michael Denton,  
Evolution a Theory in Crisis*





# Life From Mars?

- Gases inside rock = AR & CO<sub>2</sub>
- Fossil microbial life?
- No sign of biological activity
- Contaminated by earth?
- Bacteria could not survive on meteorite – extreme heat
- Destructive cosmic rays
- Extreme cold of outer space
- **Directed panspermia** – seeds sent by aliens? (*Francis Crick*)



Life could spread from planet to planet or from stellar system to stellar system, carried on meteors.”

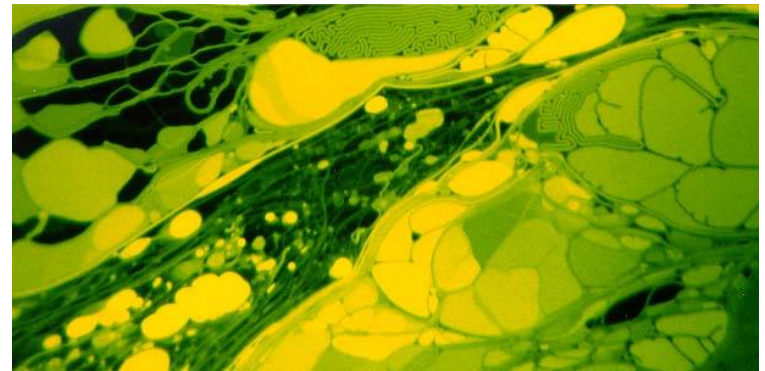
*Stephen Hawking, Origins Symposium, 2009*

# Self-Assembly/Organization

“Certain organic compounds have the capacity to react with each other to form more complex molecules such as hydrocarbons, amino acids and simple sugars. Some of these can spontaneously self-assemble into membrane structures, and others can polymerize into molecules similar to proteins and nucleic acids. These in turn form larger self-assembled structures such as the double helix of DNA. Because there were no genes or enzymes available on the prebiotic Earth to direct the metabolism and reproduction characteristic of living organisms, the first forms of life must have been produced through a spontaneous self-assembly process.”

*David Deamer, Evolution: Investigating the Evidence, 1999*

- Requirements
  - Self-replicating molecule
  - Catalysis mechanism
  - Synchronization
- Self-assembly conjecture!





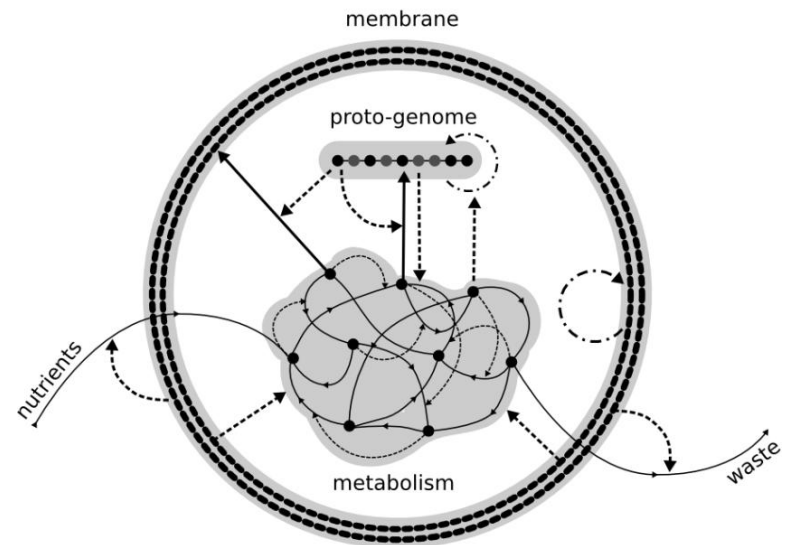




# In Conclusion – Origin of 1<sup>st</sup> Life

- Simplest life
  - 250K base pairs (3B in human genome)
- Can't happen here!
  - Primordial soup
  - Pond, vent, volcano
  - Earth, ocean, Mars
  - Panspermia
- Self-assembly is hype
  - No evidence
  - Not testable

Protocellular Organization



----->  
dashed lines indicate relations of control in the broadest sense:  
facilitation, catalysis, transport

----->  
continuous lines represent relations of production

----->  
dashed dotted indicates assembly (self or directed)

**Mathematical probability of non-life -> life = 0!**



## 5c. Origin of Complex Life Forms

1. Confusion of Terms Used
2. Transitional Fossils Missing
3. Life and Information
4. The Altenberg 16
5. Natural Selection in Question
6. The Myth of “Junk” DNA
7. Human & Chimp DNA Similarity?
8. In Conclusion



# 1. Confusion of Terms Used

- Definition of Evolution
  - Microevolution/Adaptation vs. Macroevolution
- Deceptive tactics
  - Strawman and bait-and-switch
- Evolution – a philosophy, not science
  - Not testable, verifiable or falsifiable
- Circular reasoning
  - Natural selection – the fittest are those who survive, and those who survive are the fittest
  - Age – geological layers with index fossils

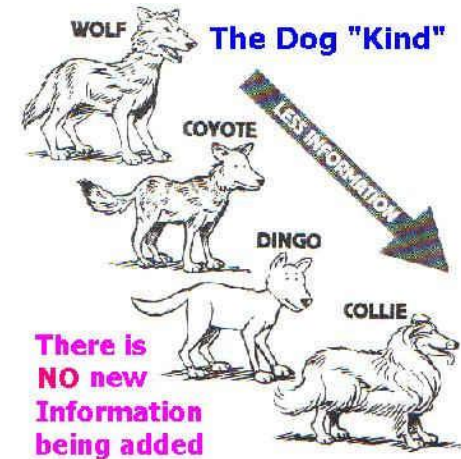


# Macro-Evolution?

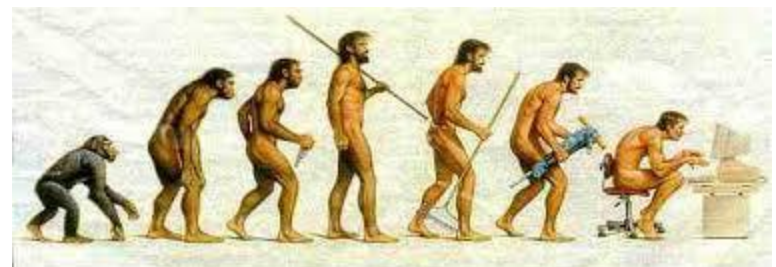
- A world-famous chemist tells the truth: there's *no* scientist alive today who understands macroevolution,

March 2014

Professor James M. Tour



the word  
**EVOLUTION**  
is used for observable changes and then  
used for unobservable changes  
such as molecules to man



# Dawkins' Deceptive Tactics

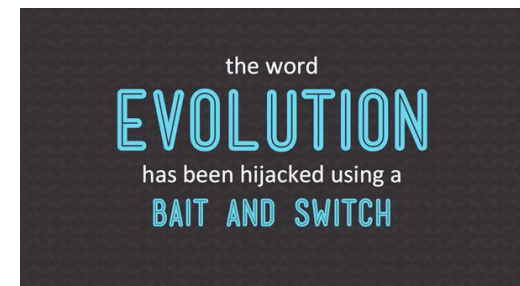
## ■ Knocking down strawman arguments

- Refuting a caricature of opponent's position
- Kind is broader than species
- Natural selection is not unique to Evolution














## ■ Equivocation (bait-and-switch)

- Meaning of Evolution
- Change in gene frequency with time
- Descent with modification
- Examples of alleged Evolution in action



## 2. Transitional Fossils Missing

- Cambrian layer contains fossils of most Phyla known to man
- Only soft-bodied organisms (e.g. worms) found in pre-Cambrian strata
- Number of species fossilized in higher layers decreases in each higher layer

THE GEOLOGIC COLUMN			Typical fossils
Eras	Periods	Millions of Years Ago	
CENOZOIC	QUATERNARY	2	
	TERTIARY	65	
MESOZOIC	CRETACEOUS	130	
	JURASSIC	180	
	TRIASSIC	225	
PALAEOZOIC	PERMIAN	275	
	CARBONIFEROUS	345	
	DEVONIAN	405	
	SILURIAN	435	
	ORDOVICIAN	480	
	CAMBRIAN	600	
	PRE-CAMBRIAN		



# “Living Fossils”

- Coelacanth fish
  - “Extinct” about “70 million years” ago
  - Live fish found in 1938
- “25-million-year-old” termite fossils in amber
  - Identical to termites living today
- Darwin predicted fossils would show changes in fossil record over the years



The “325 million year old” lobe-fin coelacanth is still very much alive.





# Fossil Record – Circular Reasoning

- Reformulated theory of Evolution in 1970's
  - Cladistic methods do not identify ancestors
  - Punctuated equilibrium explains away failure of Darwinian theory
- Evolutionists see patterns in fossil record:
  - Absence of change, i.e. stasis
  - Large morphological gaps between lifeforms
  - Absence of clear ancestors and lineages
- Lack of evidence + “fact” of Evolution = punctuated equilibrium



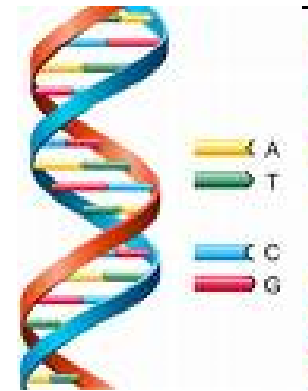
## 3. Life and Information

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



# Information in Biological Systems

- Code: 4 letters – adenine (A), cytosine (C), guanine (G), thymine (T)
  - Words (codons) composed of 3 letters
- Meaning: each 3-letter word represents 1 of the 20 amino acids necessary for protein formation
  - Sequence of codons in the DNA represents sequence of amino acids in a protein
- Action: proteins needed for construction, function, maintenance, reproduction of the organism and its cellular components
- Purpose: reproduction of life



## 4. The Altenberg 16

- An expose of the evolution industry
- Author: Suzan Mazur, journalist
- Meeting of 16 Evolution scientists
  - Austria, July 2008
  - Questions about Evolution mechanisms
  - Discover the elusive process of Evolution
  - Interviews with Lewontin, Dawkins, Margulis, etc.



“hundreds of other evolutionary scientists who contend that natural selection is politics, not science ...”

*Suzan Mazur, 2008*

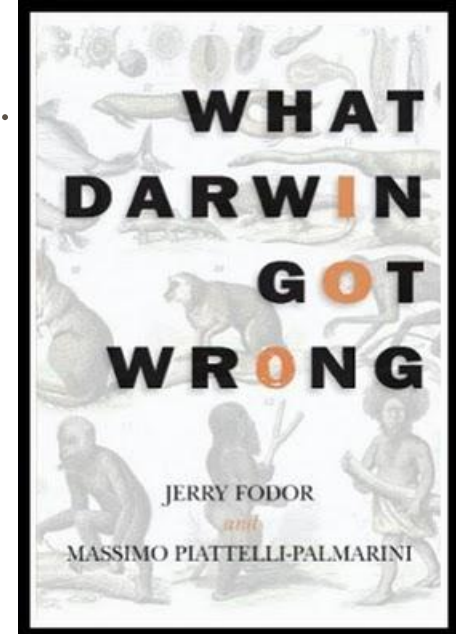
# Neo-Darwinian Mechanisms?

“We are grappling with the increasing feeling ... that we just don’t have the theoretical and analytical tools necessary to make sense of the bewildering diversity and complexity of living organisms”

*(from the invitation to attend the Altenberg conference, p. 31).*

“*Basically I don’t think anybody knows how evolution works [emphasis added]*” *(Jerry Fodor, p. 34).*

“She [Lynn Margulis] sees natural selection as ‘neither the source of heritable novelty nor the entire evolutionary process’ and has pronounced neo-Darwinism ‘dead’, since there’s no adequate evidence in the literature that random mutations result in new species” *(Mazur, p. 257).*





## 5. Natural Selection and Mutations

“Natural Selection does not explain the origin of new variants, only the process of changes in their frequency.”

“But Evolution is more than merely a change in trait distributions or allele frequencies; it also includes the origin of the variation.”

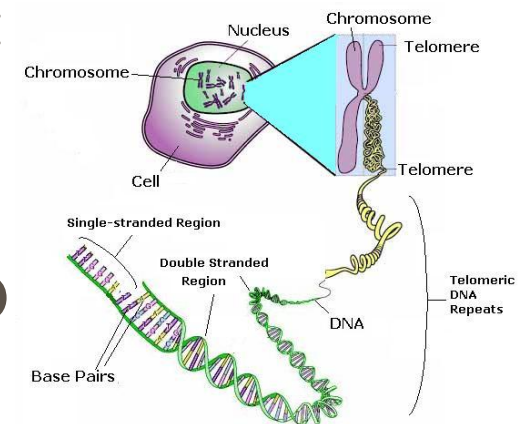
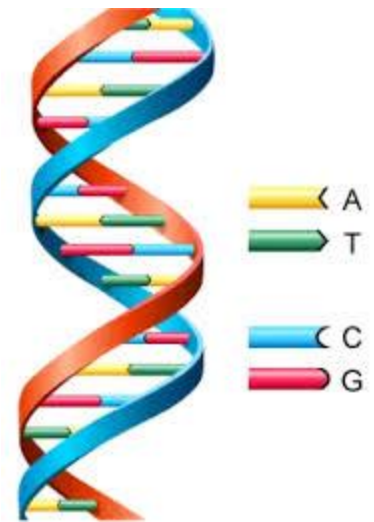
*John Endler (Evolutionist)*

- Evolution is **not the same** as Natural Selection
  - An old bait-and-switch tactic



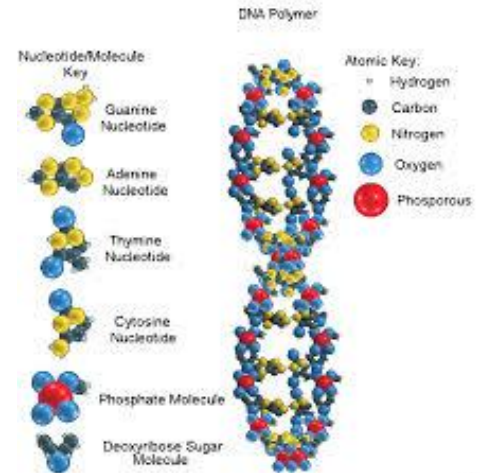
# 6. The Myth of “Junk” DNA

- “Junk DNA” term coined in 1972
  - Vast majority of the genome (~ 98%) that does not code for proteins
  - “Junk” DNA sequences serve no biological purpose, evolutionary remnants
- Argument used by (even in 2004):
  - Dawkins, Futuyma, Miller, Coyne, Avise, Kitcher, Shermer, Collins
- Claimed to be evidence against ID
  - Relies on theological speculations



# Some DNA History

- 1953: DNA double helix discovered
- 1970: some DNA doesn't encode proteins
- 1986: Denton – Theory in Crisis
- 2003: Human Genome project done
- 2006: Collins – evidence for Evol.
- 2009: Dawkins – evidence for Evol.
- 2012: ENCODE Project completed
  - Worldwide scientific research effort





# ENCODE Project Results

Encyclopedia of DNA Elements, non-protein-coding DNA

## ENCODE By the Numbers

- 147** cell types studied
- 80%** functional portion of human genome
- 20,687** protein-coding genes
- 18,400** RNA genes
- 1640** data sets
- 30** papers published this week
- 442** researchers
- \$288 million** funding for pilot, technology, model organism, and current project

When the Human Genome Project was finished, all scientists really had was a linear sequence of three billion DNA base pairs—in essence, just a set of boring letters consisting of As, Gs, Cs, and Ts. What was needed was something to ... better able to understand the roots of disease and generate treatments.

It happened on September 5, 2012.

# 7. Human & Chimp DNA Similarity?

- Chromosomes (human=23; chimp=24)
- Evolutionary assumptions
  - Genome sequence about 98.8% same
  - [Incomplete sequencing]
- Creation assumptions
  - Common designer
  - 95% same counting insertions/deletions
  - Shorter telomeres in humans
  - 10% larger chimp genome
- Anzai study 86.7% same



**Table 1.** Summary of human-chimpanzee genome comparison papers. Where possible, omitted data from the reported alignments is used to produce an actual percent DNA identity.

Reference	Total genomic bases analyzed	Aligned bases	Reported DNA identity	Actual DNA identity*
Britten 2002	846,016	779,132	95.2%	~ 87%
Ebersberger <i>et al.</i> 2002	3,000,286	1,944,162	98.8%	< 65%
Liu <i>et al.</i> 2003	10,600,000 (total for human, chimp, baboon, and marmoset)	4,968,069 (human-chimp)	98.9% no indels	?
Wildman <i>et al.</i> 2003	~90,000 (exons from 97 genes)	?	98.4–99.4%	?
Chimp. Chrom. 22 Consort.	32,799,845	?	98.5% excluding indels	80–85% including indels
Nielson <i>et al.</i> 2005	?	?	99.4% selected gene regions	?
Chimp. Seq. Consort. 2005	Whole genome (5X redundant coverage)	2.4 Gb	95.8%	81%**

\* Based on the amount of omitted DNA sequence in the alignments.

\*\* Compared to data from The International Human Genome Sequencing Consortium (2004)— $((.9577 \times 2.4 \text{ Gb}) / 2.85 \text{ Gb}) \times 100$

? Cannot calculate actual percent identity because data was not provided.





# Tomkins/Bergman (2012)

- Similarity re-evaluated using omitted data
  - Used prescreened samples/data
  - Dissimilar data omitted
  - Gap data often discarded
- Using highly selective data
  - Influenced by Darwinian dogma
  - Touted 98% similarity
- Using data from various publications
  - Include 2005 Chimp genome report
  - 87% identical, perhaps even 81%



## 8. In Conclusion – Complex Life


- Must use terms consistently
  - Avoid bait-and-switch & strawman arguments
- Transitional fossils still missing
  - Stasis, gaps between life forms, missing ancestors
- Life requires mass + energy + **information**
- Altenberg 16 expose fallacy of Evolution mechanism
- Natural Selection is not Evolution
- Most mutations are not beneficial (no new info)
- “Junk DNA” is a myth
  - Not result of Evolution, 98% -> 20% -
- Human & chimp DNA very different
  - 1.5% (Evolution bias) -> 20+% (include all differences)



## 6. The Verdict

- Science is possible because of the laws of nature
  - Fixed by God, **Jer. 33:25**
- Origin of the universe requires a Designer
  - Created + fine-tuned for life
- Origin of first life requires a Designer
  - Life = mass + energy + information (DNA)
- Origin of complex life forms requires a Designer
  - Life = material (mass + energy) + immaterial (info)
- “Evolution Gaps”
  - Just-so evolution stories
  - Failed in the past, fail now, will fail in the future





# New Atheists' "Science" is Largely Pseudoscience!

**Thank you  
for your  
attention!**

**Dr. Heinz Lycklama  
heinz@osta.com  
www.osta.com**

**[www.osta.com/messages](http://www.osta.com/messages)**

**“The Ethos of Science: 1) open questioning, 2) no authorities, 3) honesty, 4) transparency, 5) reliance on evidence, 6) understanding uncertainty, 7) peer review, and 8) testability – can make the world a better place by burying myth, superstition, and dogma and fanatical certainty.”**

*Dr. Lawrence Krauss*