

Information Theory, DNA and the Case for Intelligent Evolution

Why Everything we know about Digital
Communication and Software Architecture
points to *Design* in Living Things

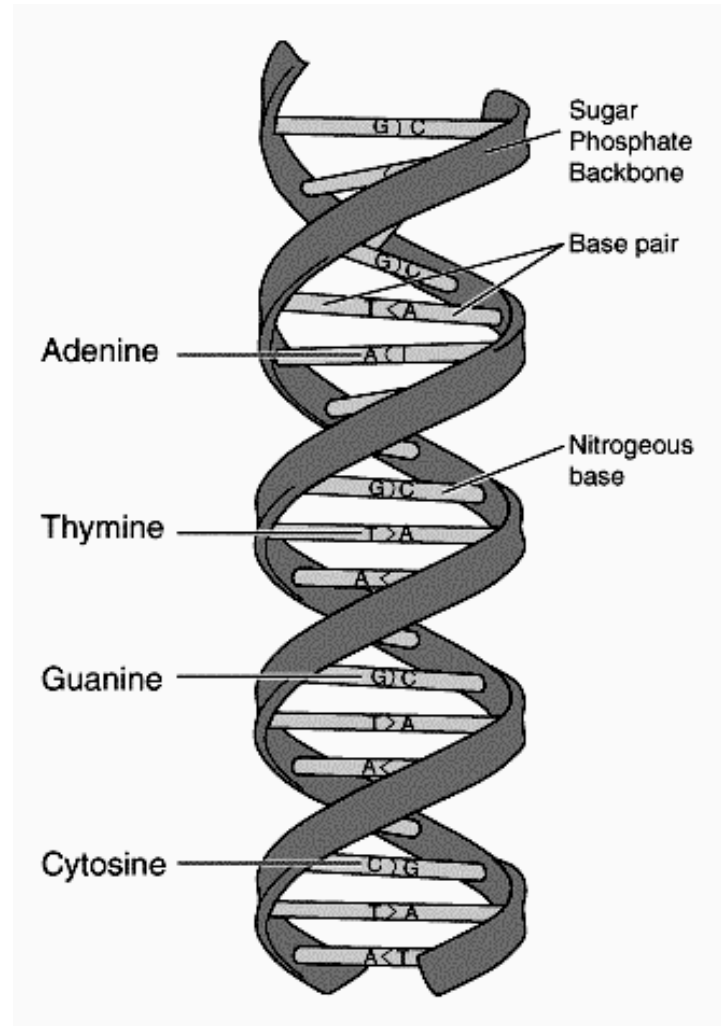
By Perry Marshall

Author, *Industrial Ethernet* (2nd ed.)

www.CosmicFingerprints.com

How Does DNA Work?

- Double Helix – Divides and bases attach
- **A**denine, **T**hymine, **C**ytosine, **G**uanine
- Encodes all information necessary for life
- 500,000 to 3 Billion Letters



The Language of DNA

- 4-Character Alphabet - A,T,C,G (comparable to binary 1 and 0 in computers)
- DNA is an Encoding / Decoding Mechanism
- Linguistics Analysis

DNA	Language
Nucleotide	Character
Codon	Letter
Gene	Word
Operon	Sentence
Regulon	Paragraph
Chromosome	Chapter

DNA and the OSI 7-Layer Model

DNA
Chromosome
Regulon
Operon
Gene
Codon
Nucleotide
Helical Structure

Computer Network
Application Layer
Presentation Layer
Session Layer
Transport Layer
Network Layer
Data Link Layer
Physical Layer

DNA: Pattern or a Language?

- DNA is a code (“The Genetic Code”)
- A DNA molecule symbolically represents something other than itself
- So which is it more like?
 - *Stalactites, Tornados, Snowflakes and Fractals*
 - *Music, Maps, Computer Programs and Chinese*

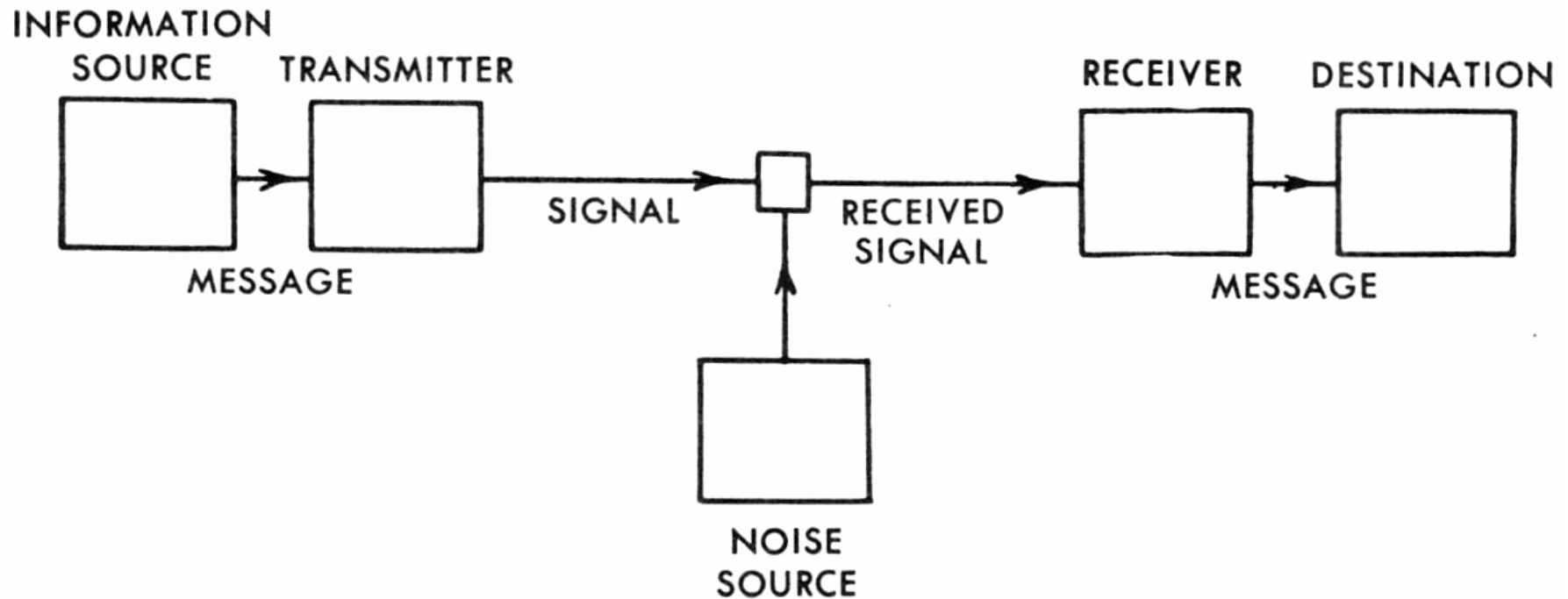


Fig. 1. — Schematic diagram of a general communication system.

Source: Claude Shannon and Warren Weaver, "The Mathematical Theory of Communication," Bell Labs, 1948, U. of Illinois Press 1998

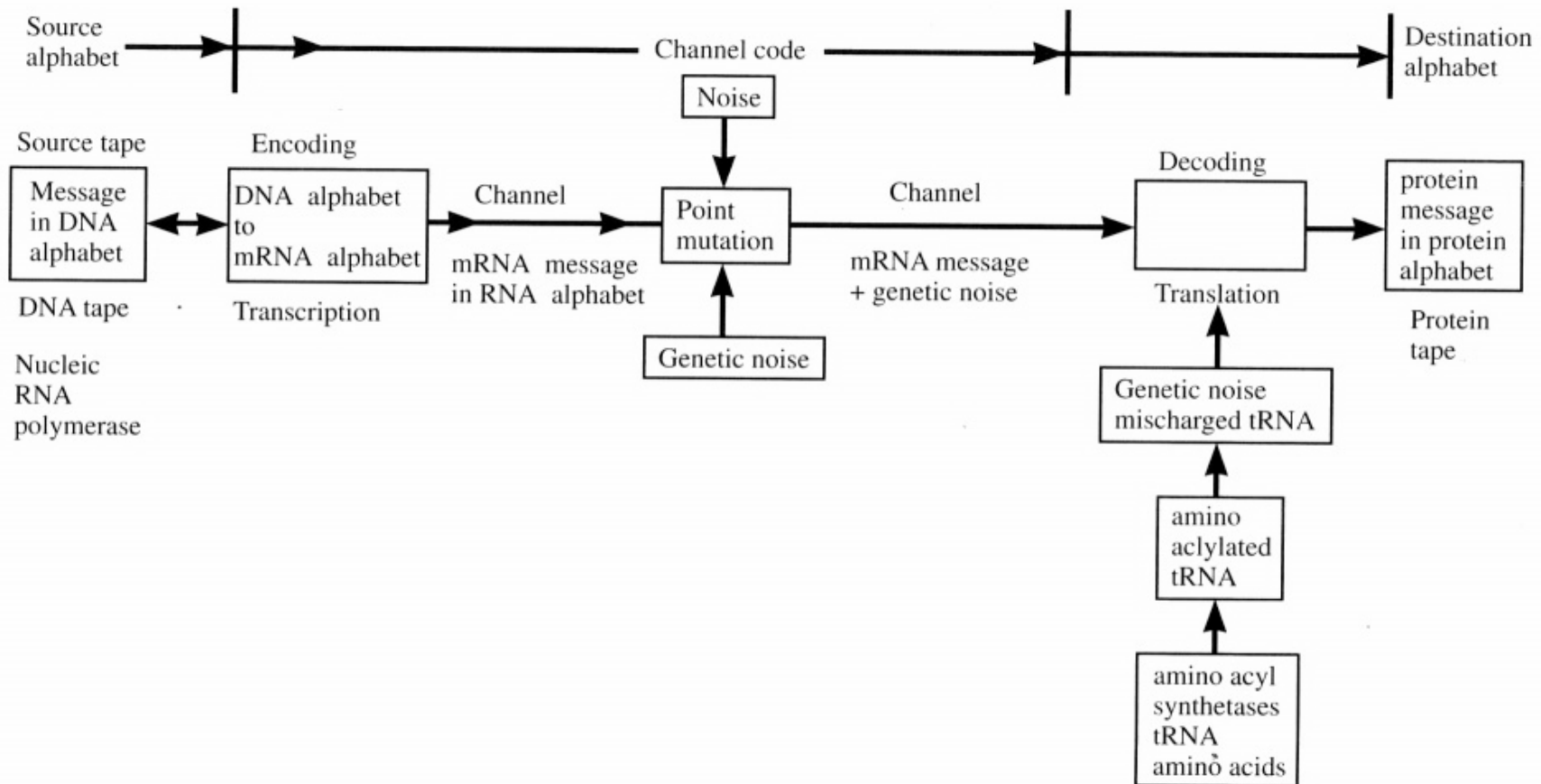


Figure 5.2. The transmission of genetic messages from the DNA tape to the protein tape as conceived in molecular biology. Genetic noise occurs in all stages but is lumped in the figure to fix the idea.

Source: Hubert Yockey, "Information Theory, Evolution and the Origin of Life"
Cambridge University Press, 2005

Proof of an Intelligent Designer

1. DNA is a code
2. All codes we know the origin of are designed
3. Therefore DNA is designed.

Where Did The Information in DNA Come From? 5 Possibilities

1. Designed by Humans
2. Designed by Aliens
3. A Product of Chance
4. Undiscovered Law of Physics
5. Designed by God

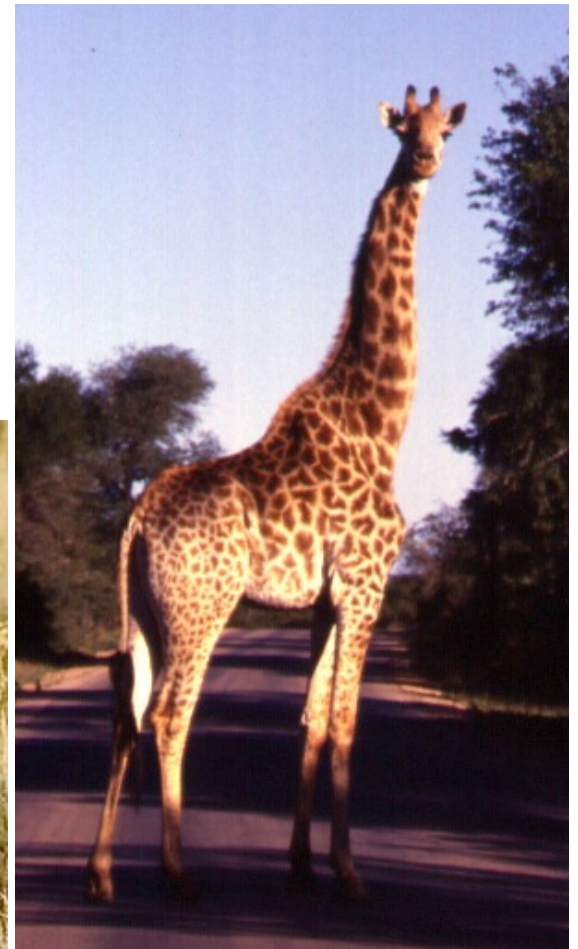
The Atheist's Riddle

*“Show me a message that does
not come from a mind.”*

**So simple, any child can understand
So complex, no atheist can solve**

A Christian and an Atheist Go to the Zoo

- Did the Antelope evolve into the Giraffe?
- Anecdotal Evidence
- Must reduce the question to first principles



The Darwinian Orthodoxy:

Random Mutation

+

Natural Selection

+

Time

=

Design

The Ultimate Darwinian machine: Google Advertising



Web

Results 1 - 10 of about 2,820,000 for [red wagon](#). (0.15 seconds)

[Product search results for red wagon](#)



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[Classic Red Wagon](#) - \$54.99 - [Buy.com](#)

[Radio Flyer 18 Classic Red Wagon - By The Makers Of The Red Wagon](#) - \$59.95 - [SHOP.COM](#)

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Response: 0.8%	Response: 1.3%
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Random Mutation Program

www.RandomMutation.com

Random Mutation Generator

Automatically adds random mutations to any text you paste into the box below!

Enter text in the box below, up to a maximum of 500 words:

The quick brown fox jumped over the lazy dog

Number of mutations:

☒ 1 ☐ 2 ☐ 5 ☐ 10

Type of mutation:

☒ Text ☐ Binary

Mutate!

Reset

Can Random Mutation Write a Better Ad?

Simple Self Defense

For Ordinary People

Easy Personal Protection Training

www.tftgroup.com

Can Random Mutation Write a Better Ad?

After 1 mutation:

Simple Self Defense

For Ordinary People

Easy Personal Protection Training

www.tftgroup.com

Can Random Mutation Write a Better Ad?

After 5 mutations:

Simple Self Def4nse

For Ordinary Peopla

Easy Personal Protect0ov Traininf

www.tftgroup.com

Can Random Mutation Write a Better Ad?

After 10 mutations:

Simple SPIf Def4nse

For Ordinary Geopla

Emsy Personal Protect0ov Traininf

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Can Random Mutation Write a Better Ad?

After 50 mutations:

3iCpBxgfelf dezensqo

a3r OrdinausRmeopRe

BbsyM7ersonel NjiLeStBon0Tnaaning

wwwJEdtgroup63Om 5

Can Random Mutation Evolve The Gettysburg Address?

“Four score and seven years ago our fathers brought forth on this continent a new nation, conceived in Liberty, and dedicated to the proposition that all men are created equal.”

The Gettysburg Address Test

Take the text of Abraham Lincoln's Gettysburg Address and run it through an automated mutation / natural selection process involving only random manipulation of individual letters.

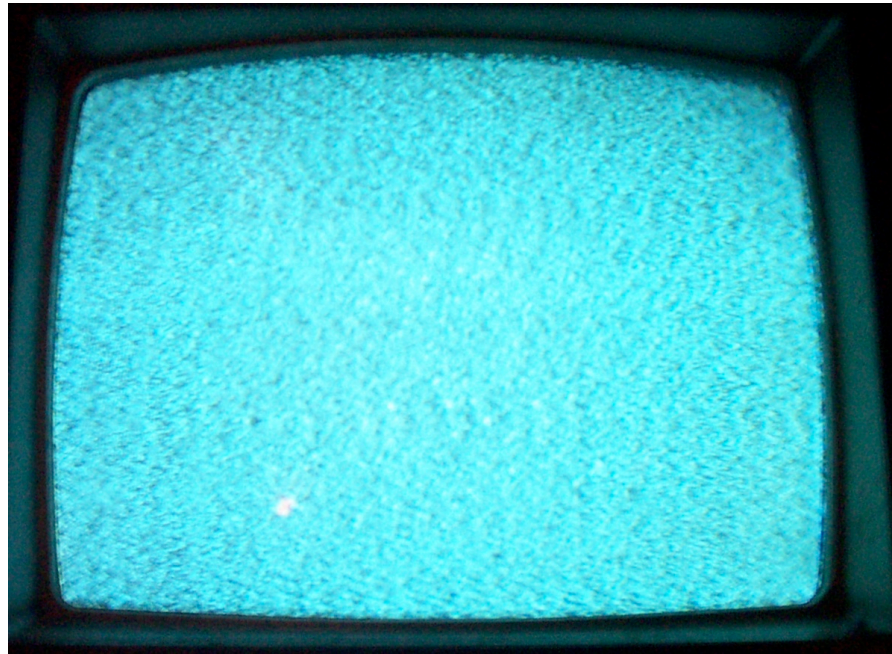
Intelligent Evolution

“87 years ago the founders formed a new nation on this continent, founded in freedom, based on the belief that all men are created equal.”

Evolution through Random Mutation

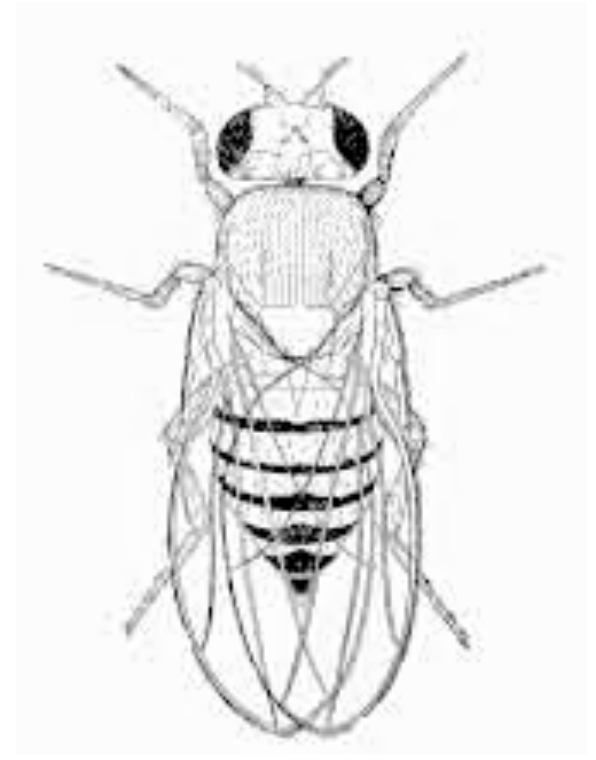
Four score and seven years ago our fathers brought forth on this continent a new nation, conceived in Liberty, and dedicated to the proposition that all men are created equal.

What Random Mutation Really Looks Like



Fruit Fly Radiation Experiments

- Decades of experimentation starting in 1906
- No new species
- Missing organs, deterioration, sterility, reduced wings & legs; feet growing out of mouth
- Not a single improved fruit fly



New Insight!

Random Mutation

+

Natural Selection

+

Time

= **Extinction**

How We Use The Word “Evolution”

- When we use the word evolution in reference to technology, knowledge, social progress, we are always referring to intelligent activity
- Naturalistic Evolution is the *only* instance where the word “Evolution” refers to a truly random, blind process
- Evolution = Chaos Resolved by Intent (Requires a mind)
- If Evolution happened, it was *Designed* to happen

So... how does evolution really happen?



**Barbara McClintock,
1902-1992**

**Woman's intuition at
Cornell**

Corn Maize Experiments, 1944



- Chromosome patterns appear in the corn
- Damaged chromosomes repair themselves
- “Transposition”
- “Genetic Recombination”

Mobile Genetic Elements and Controlling Elements go underground, 1950-1970

“Over the years I have found that it is difficult if not impossible to bring to consciousness of another person the nature of his tacit assumptions when, by some special experiences, I have been made aware of them. This became painfully evident to me in my attempts during the 1950s to convince geneticists that the action of genes had to be and was controlled.” –*Barbara McClintock, 1973*

Bryan Sez:

“In any institution of ‘free thought’, there are certain discoveries that you are not permitted to make.”



Triumph Over Orthodoxy



- National Medal of Science
- MacArthur Foundation
- Wolf Prize in Medicine
- National Women's Hall Of Fame
- Nobel Prize for Physiology / Medicine, 1983
- US Postage Stamp, 2005

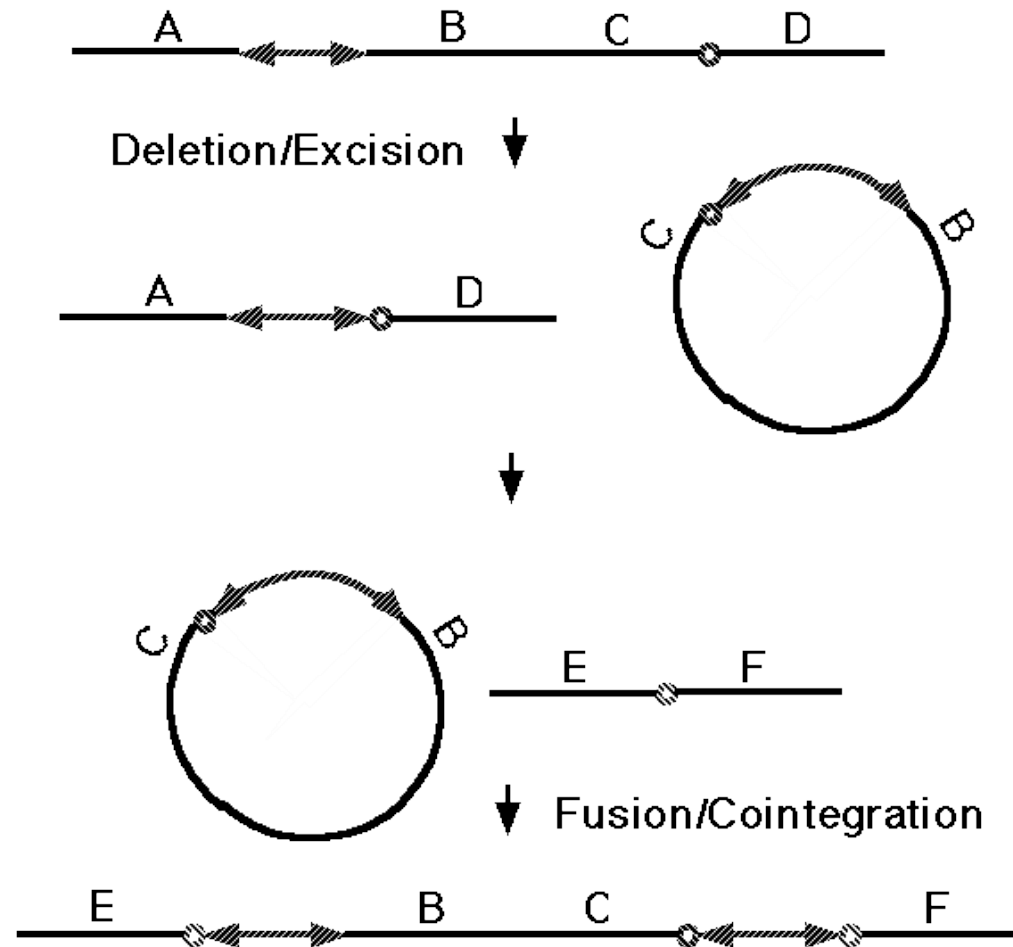
James A. Shapiro, U. of Chicago

“A 21st Century View of Evolution”



- Mobile Genetic Elements
- Protozoa: 100,000 Splices
- DNA is more than static data, like an Operating System
- “Evolution is an Engineered Process”

How Cells Do Their Own Genetic Engineering



Evolution: Living things are *designed* to evolve!

- **sci·ence** (sī'əns) *n.* The observation, identification, description, experimental investigation, and theoretical explanation of phenomena.
- Origin of life “by accident” -- *not scientific*
- Evolution by random process -- *not scientific*
- Evolution -- *not a random process*
- Evolution is an *engineered* process – and *that* is scientific!
- The study of evolution suddenly has practical application

Prescient Revelation

- 1500 BC: “And God said”
- 90 AD: “In the beginning was the WORD”

For More Information

Articles, lectures and downloads about DNA, information, the origin of life and the universe:

Visit www.CosmicFingerprints.com