LECTURE 1 What Is This Controversy About?



By Dr. Jonathan Wells





will NOT try to RESOLVE the CONTROVERSY





provide a **SKETCH** of the major **ISSUES**.



We 1 St need to ASK

what we MEAN

by "SCIENCE" and "FAITH"









SCIENCE = scientific CONSENSUS?

scientific **CONSENSUS**

MAJORITY opinion

of professional scientists.



how RELIABLE

is the scientific

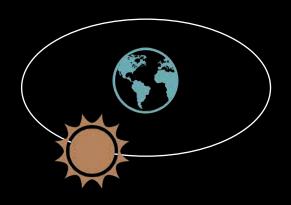
CONSENSUS?

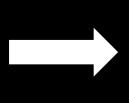


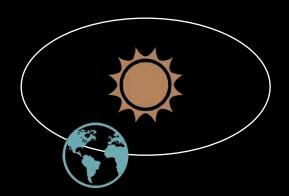


1.500 **EARTHcentric** HELIOcentric

1.700











1.700 burn by giving off PHLOGISTON



1.800 burn by combining with OXYGEN









1.800
SPONTANEOUS
generation of life



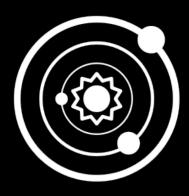
1.900
Generation of life from LIVING THINGS











ATOMS = mini SOLAR SYSTEMS







ATOME - MINI COLAR CYCTEMS

1.900







FIXED CONTINENTS











CIVED CONTINENTS

1.960



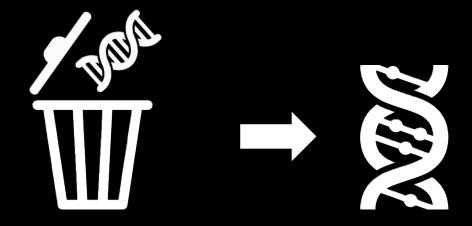




JUNK DNA







JUNIU DNA

2.012





Scientific CONSENSUS is NOT RELIABLE



SCIENCE

SCIENCE =

knowledge & techniques

MODERN TECHNOLOGY and MEDICINE?















But how do scientists get their

KNOWLEDGE?

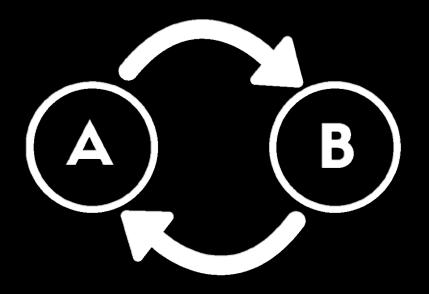


how does science

WORK?







ASSUME Cause & Effect in nature





1.0BSERVE

CAUSAL relations







2. FORM HYPOTHESIS

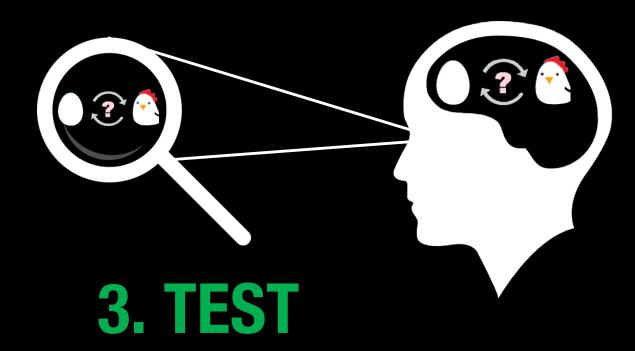
LOGICAL relations

CAUSAL relations







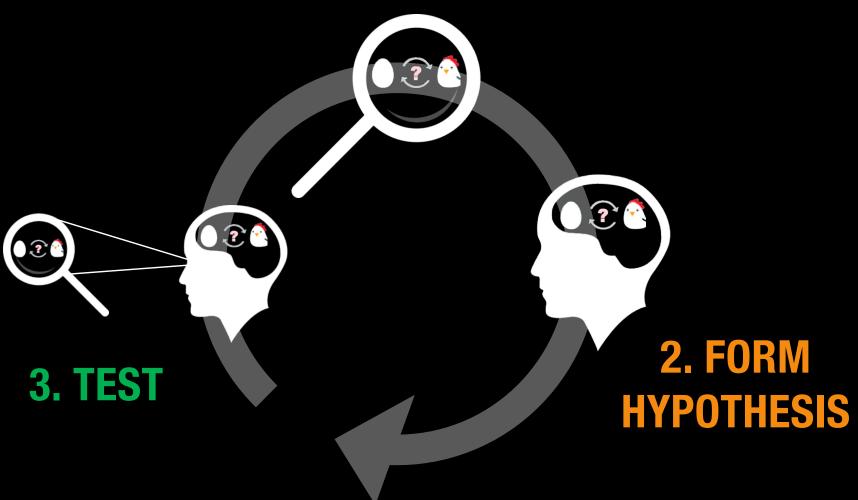


C O M P A R E HYPOTHESIS vs NATURE





1. OBSERVE









"Science is the SEARCH for the TRUTH."

Linus Pauling

Nobel Laureate (Chemistry & Peace)



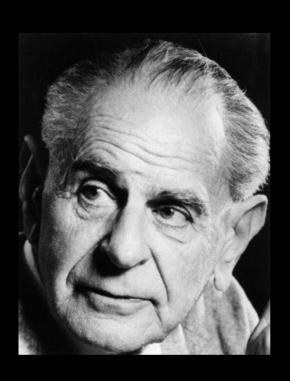


PROCEDURE

of science

is to operate with

CONJECTURES



Karl Popper
Philosopher of Science





OBSERVATIONS
and
EXPERIMENTS

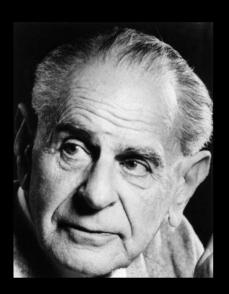
function in science as

TESTS

of our

conjectures

hypotheses



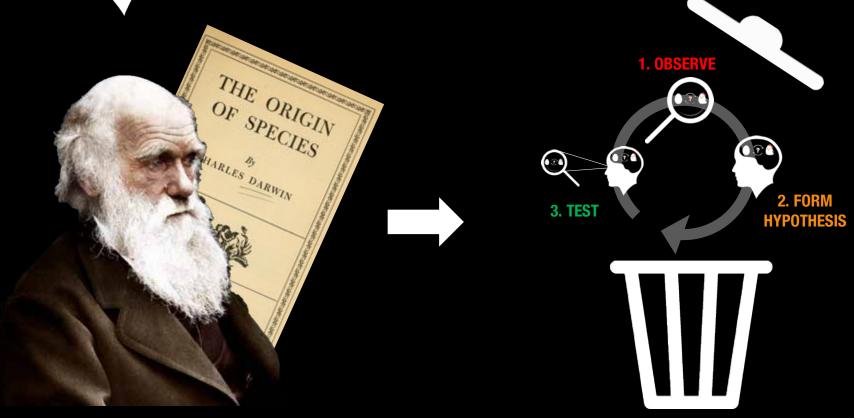
Karl Popper

Philosopher of Science

that is, as attempted REFUTATIONS







BUT ever since Charles Darwin's *Origin of Species* (1859)

ANOTHER KIND of science?? has become

INCREASINGLY COMMON





1. TRADITIONAL scientists: before Darwin

SCIENCE = SEARCH for TRUTH

2. many MODERN scientists: since Darwin

SCIENCE = SEARCH for NATURAL EXPLANATIONS







SCIENCE = SEARCH for NATURAL

EXPLANATIONS



explaining **EVERYTHING**

in **TERMS** of

MATERIAL objects



the **FORCES** among them.





METHODOLOGICAL NATURALISM

science is **LIMITED** to **NATURAL** explanations

are the **ONLY** ones we can **TEST**

METAPHYSICAL NATURALISM

REALITY =

MATERIAL objects



the **FORCES** among them.





METHODOLOGICAL NATURALISM



IETAPHYSICAL NATURALISM

...but MOST scientists BELIEVE



that if they **SEARCH** LONG ENOUGH



they will FIND eventually

EXPLANATIONS

EVERYTHING





METHODOLOGICAL NATURALISM



METAPHYSICAL NATURALISM

- MIND
- SPIRIT
- FREE WILL
- GOD





are MERELY ILLUSIONS





METHODOLOGICAL NATURALISM



METAPHYSICAL NATURALISM

SCIENCE - NATURALISTIC SCIENCE







Richard Lewontin
Harvard biologist

"... we are FORCED
by our A PRIORI adherence
TO MATERIAL CAUSES
to CREATE

an apparatus of investigation and a set of concepts

that PRODUCE

MATERIAL EXPLANATIONS..."







Richard Lewontin

Harvard biologist

"...no matter

HOW COUNTER-INTUITIVE,

no matter

HOW MYSTIFYING to the uninitiated.

Moreover, that MATERIALISM
IS ABSOLUTE,
for WE CANNOT ALLOW
a DIVINE FOOT in the DOOR."





For some:

FAITH =

belief in things with NO EVIDENCE

You could say:



belief that **EVERYTHING** has a **NATURAL EXPLANATION**





According to the BIBLE: Hebrew 11:1

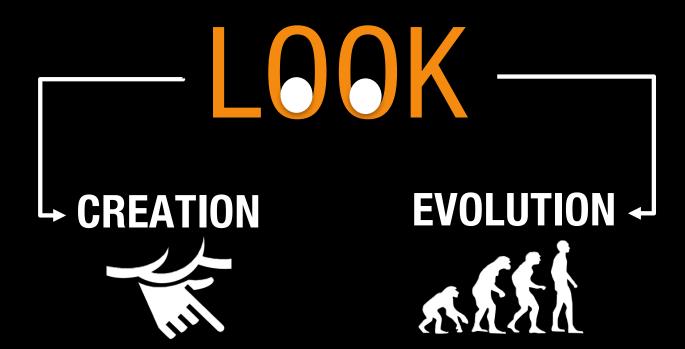
FAITH =

"...SUBSTANCE of things hoped for the EVIDENCE of things not seen"



To UNDERSTAND the controversy









BELIEF that: GOD



CREATED

THE UNIVERSE

including all things

seen and unseen.





YOUNG EARTH OLD EARTH

CREATION

6 DAYS

Of

24 HOURS

CREATION

LONG

periods of

time





at beginning

FINISHED INTERMITTENTLY or continuously to the present





KNOW some GOD things of

WITHOUT BIBLICAL REVELATION





"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."

Romans 1:20





NATURAL — KNOWLEDGE of GOD through natural reason





There is a

TWOFOLD MODE OF TRUTH

in what we profess about God.

St. Thomas Aquinas
Summa Contra Gentiles 1:3:2





Some truths about God **EXCEED** all the

ability of the HUMAN REASON.

Such is the truth that God is triune.

St. Thomas Aquinas

Summa Contra Gentiles 1:3:2





2

"

But there are some truths which the NATURAL

REASON also is ABLE TO REACH.

Such are that God exists, that He is one, and the like. In

fact, such truths about God have **BEEN PROVED**

DEMONSTRATIVELY by the philosophers,

guided by the light of natural reason





THEOLOGY

NATURAL _ KNOWLEDGE of GOD through observing natural world





CREATION

NATURAL THEOLOGY

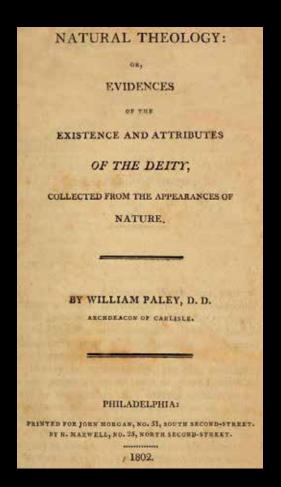
1

John Ray (1691)

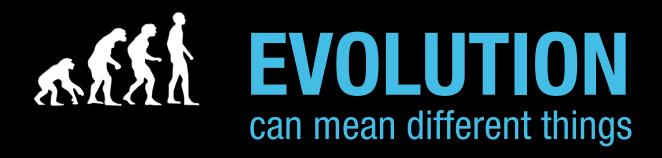
THE Wildom of God Manifested in the CREATION: In TWO PARTS; VIZ. The Heavenly Bodies, Elements, Meteors, Foffils, Vegetables, Animals, (Beafts, Birds, Fishes, and Infects); more particularly in the Body of the Earth, its Figure, Motion, and Confiftency; and in the admirable Structure of the Bodies of Man, and other Animals; as also in their Generation, &c. With Answers to some Objections. By JOHN RAT, late Fellow of the Royal Society. The Seventh Coition, Corrected. LONDON: Printed by R. HARBIN, for WILLIAM INNYS, at the Prince's-Arms in St. Paul's Church Yard. 1717.

2

William Paley (1802)







CHANGE OVER TIME

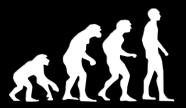




CUMULATIVE CHANGE OVER TIME

LATER stages build upon EARLIER ones.





* SEVOLUTION

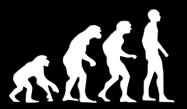
History of the cosmos

EVOLUTION –

History of → technological invention

development of a person's thinking



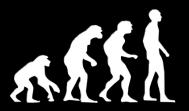


ASS EVOLUTION

MINOR changes WITHIN existing species.

BIOLOGICAL EVOLUTION —





* EVOLUTION

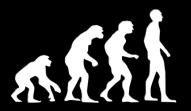
MINOR changes WITHIN existing species.

BIOLOGICAL **EVOLUTION** -



present things that lived in the past



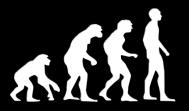


** EVOLUTION

MINOR changes WITHIN existing species.

BIOLOGICAL EVOLUTION descent with _ TRANSFORMISM modification = TRANSMUTATION **TRANSMUTATION**





** EVOLUTION

MINOR changes WITHIN existing species.

BIOLOGICAL EVOLUTION

living things

present things lived in the past

descent with modification = TRANSFORMISM TRANSMUTATION TRANSMUTATION

universal COMMON ancestry





BIOLOGICAL EVOLUTION



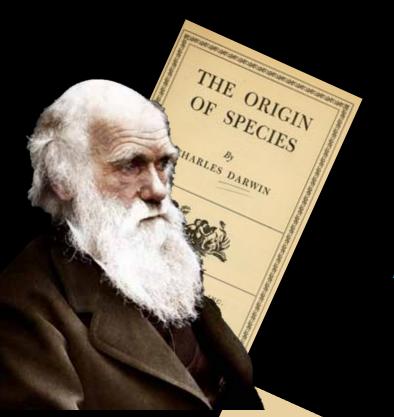
DARWIN'S THEORY

descent with modification solely by

UNGUIDED NATURAL PROCESSES



EVOLUTION DARWINISM



all living things are

MODIFIED DESCENDANTS

of one or a few **COMMON ANCESTORS** that lived **LONG AGO**.

The MAIN CAUSE of modification has

been **NATURAL SELECTION**

(survival of the fittest) acting on

SMALL VARIATIONS.

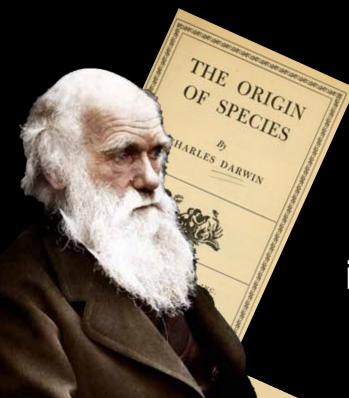
Charles Darwin

Origin of Species (1859)



1ER CONGRESO CIENCIA Y FE

EVOLUTION DARWINISM



THE PROCESS IS UNGUIDED

"There seems to be NO MORE DESIGN

in the variability of organic beings, and in the action of natural selection,

THAN IN THE COURSE WHICH THE WIND BLOWS."

Charles Darwin



EVOLUTION DARWINISM

Darwin actually had no evidence for natural selection, and he did not know the origin of variations, but his exclusion of design fit the spirit of the times. Historian Neal Gillespie wrote, "It is sometimes said that Darwin converted the scientific world to evolution by showing them the process by which it had occurred

BUT IT WAS MORE DARWIN'S

INSISTENCE ON TOTALLY NATURAL EXPLANATIONS

THAN ON NATURAL SELECTION

THAT WON THEIR ADHERENCE."

Neal C. Gillespie

Charles Darwin and the Problem of Creation (1979)



THEN, what is CONTROVERSY about?



CHRISTIAN FAITH



NATURALISTIC SCIENCE

Are we **CREATED** in the image of God for a purpose?

Are we **ACCIDENTAL**

by-products of unguided natural processes?





WARFARE THESIS

Before Darwin:

CHRISTIANITY

got along quite well with

SCIENCE

FOUNDERS

of most modern science disciplines

- BIOLOGY
- CHEMISTRY
- PHYSICS





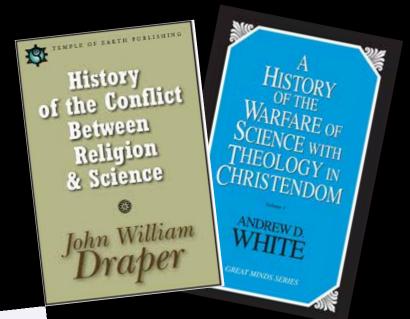
WARFARE THESIS

RELIGION



SCIENCE

PROMOTED WARFARE

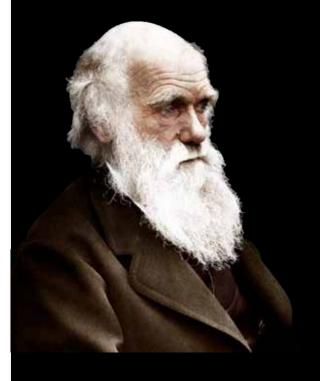




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DARWINISM





TRAITS from body parts = "PANGENES"

BLENDED in the **GERM CELLS** (sperm)

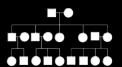
Charles Darwin

The Variation of Animals and Plants Under Domestication (1868)

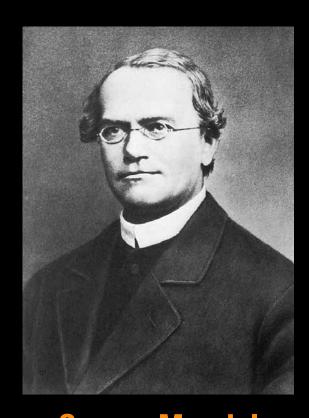
to be TRANSMITTED to the NEXT GENERATION

"PANGENESIS"





MENDELISM

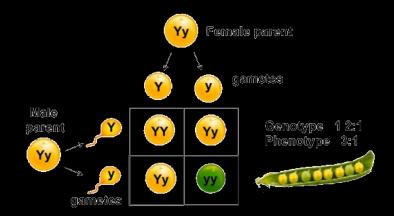


Gregor Mendel Augustinian friar and botanist (1865)

Alternative **THEORY** of **INHERITANCE**

IGNORED for decades by Darwin's followers

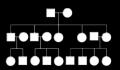
FACTORS = DISCRETE and for TRAITS inherited **SEPARATELY**



FACTORS for TRAITS







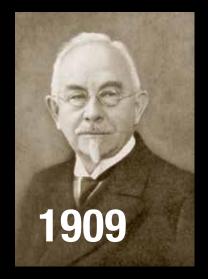
MENDELISM

William Bateson



STUDY of GENETICS INHERITANCE

Wilhelm Johannsen

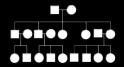


PHENOTYPE

GENOTYPE

PANGENE GENE





MENDELISM

William Bateson



Wilhelm Johannsen



HEREDITARY FACTORS (genes) are IMMATERIAL.



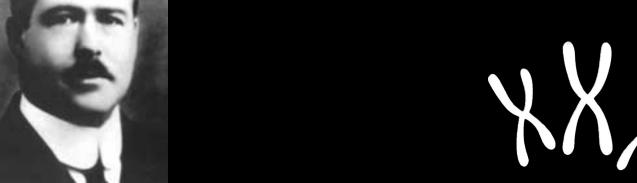


Theodor Boveri





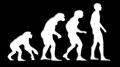




the **BEHAVIOR** of **CHROMOSOMES**



Walter Sutton





Mendel's factors

RESIDE PHYSICALLY ON

chromosomes



Thomas Hunt Morgan



DARWIN'S THEORY



CHROMOSOMAL THEORY OF

MODERN SYNTHESIS OR NEO-DARWINISM



POPULATION GENETICS

MATHEMATICALLY MODELED **CHANGES** in **FREQUENCIES** of **GENES** over **SPACE** and **TIME**

SIMPLIFICATION

EVOLUTION = CHANGE in GENE **FREQUENCIES**

this doesn't tell us HOW NEW SPECIES ORIGINATE!





James Watson



SOLVED the molecular structure of **DNA**

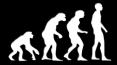
EXPLAINED how it could be **DUPLICATED** in **INHERITANCE**.



Francis Crick

"We have **DISCOVERED** the **SECRET** of **LIFE**"





1958

SEQUENCE of subunits in **DNA**

specifies

SEQUENCE of **RNA**

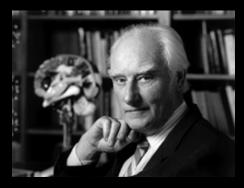
specifies

AMINO ACID sequence of a **PROTEIN**

1962 awarded the Nobel Prize for their achievement



James Watson



Francis Crick





François Jacob



Jacques Monod

1965

RECEIVED the NOBEL PRIZE

Discovered a **MECHANISM** bacteria use

DNA TRANSCRIPTION RNA

1970

DNA = GENETIC PROGRAM controls embryo development

MAKES RNA MAKES PROTEIN MAKES



MEO DARWINISM



François Jacob



RANDOM MUTATION



MECHANISM OF DARWINISM

"the mechanism of Darwinism is at last **SECURELY FOUNDED**"



Jacques Monod

"man has to understand that he is a MERE ACCIDENT"





ALL living things are DESCENDED from one or a few COMMON ANCESTORS.





All features of living things are DUE TO UNGUIDED NATURAL PROCESSES such as RANDOM VARIATION and NATURAL SELECTION.





GENES

understood materially as DNA sequences

carry all HEREDITARY
INFORMATION and

CONTROL EMBRYO DEVELOPMENT.





ACCIDENTAL MUTATIONS in DNA are the SOURCE

of the **NEW VARIATIONS** that provide the **RAW MATERIALS** for evolution.





Although living things

MAY APPEAR to be

DESIGNED,

this is just an

ILLUSION.





IDEA OF DESIGN is ANCIENT

1980s -1990s

MODERN SCIENTISTS & PHILOSOPHERS REVIVED the idea of DESIGN







INTELLIGENT D E S I G N

INFER from **NATURE**

SOME THINGS

are **BEST EXPLAINED**

by an INTELLIGENT CAUSE

not by undirected natural processes





designed ≠ perfection

Intelligent design = creationism

Intelligent design BASED ON evidence + logic

Intelligent design = natural theology







Scientists





Philosophers

have recently proposed several **WAYS** to



INFER DESIGN



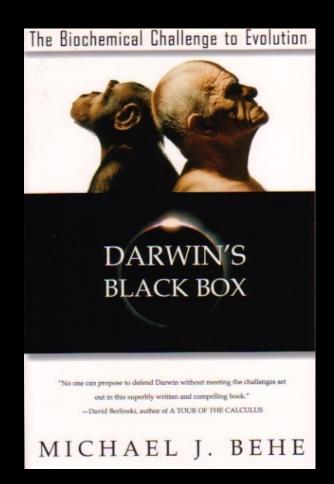




1. Irreducible Complexity



Michael Behe Ph.D., Biochemistry









"By irreducibly complex I mean a SINGLE system compose

of several WELL-MATCHED INTERACTING parts

that contribute to the **BASIC FUNCTION**,

wherein the **removal** of any one of the parts

causes the system to effectively **CEASE FUNCTIONING**."



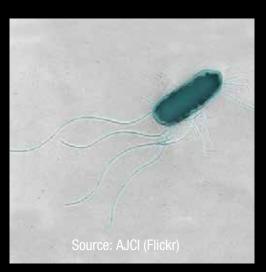
Michael Behe, Darwin's Black Box (1996)

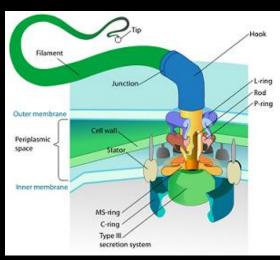
1ER CONGRESO CIENCIA Y FE





1. Irreducible Complexity





The BACTERIAL FLAGELLUM MOTOR

S

IRREDUCIBLY COMPLEX.







"Design is **evident** when

a number of **separate**, **interacting** parts are **ordered** in such a way as to

accomplish a function

BEYOND THE INDIVIDUAL COMPONENTS."

Michael Behe, Darwin's Black Box (1996)



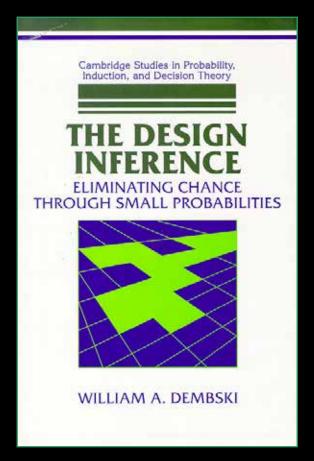




2. Specified Complexity



William Dembski
Ph.D., Mathematics
Ph.D., Philosophy









2. Specified Complexity

1 NOT COMPLEX (simple repetition of "wlt"):

Witwitwitwitwitwitwit.







2. Specified Complexity

NOT COMPLEX (simple repetition of "wlt"):

Witwitwitwitwitwitwitwitwit.

2 COMPLEX BUT (does not correspond to an **NOT SPECIFIED** independent pattern):

Wdlmnlt dt jbkwirzrezlmqco p.







2. Specified Complexity

1 NOT COMPLEX (simple repetition of "wlt"):

Witwitwitwitwitwitwit.

2 COMPLEX BUT (does not correspond to an NOT SPECIFIED independent pattern):

Wdlmnlt dt jbkwirzrezlmqco p.

3 COMPLEX (corresponds to a sentence in "Hamlet"):

Methinks it is like a weasel.







2. Specified Complexity

COMPLEX Specified information can be produced ONLY by intelligence and justifies an INFERENCE to design.

William Dembski



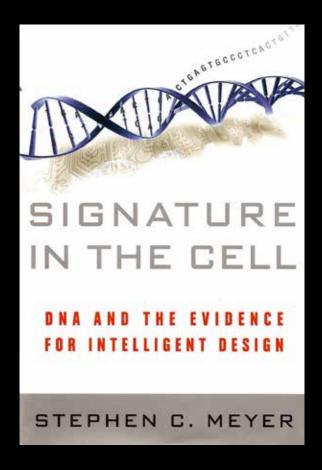




3. Inference to the Best Explanation



Stephen Meyer Ph.D., Philosophy of Science









3. Inference to the Best Explanation

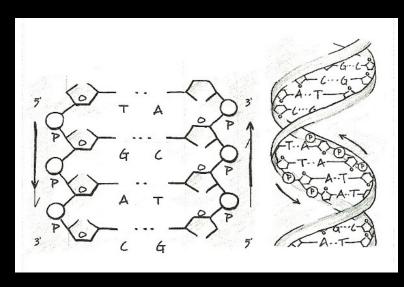


Illustration by Ray Braun © 2009

DNA > T, A, G, C consists of 4 subunits





contains over **3.000.000.000** subunits.







3. Inference to the Best Explanation

"DNA is like a **COMPUTET** program but far, far **MORE advanced** than any software ever created."

Bill Gates, The Road Ahead (1995)







3. Inference to the Best Explanation

"Since we know that **intelligent agents**do **produce** large amounts of **information**,
and since all known **natural processes DO NOT** (or cannot),
we can **infer design** as the **best explanation** of
the origin of information in the cell."

Stephen Meyer, Signature in the Cell (2009)





1 Critics objected

to all 3 approaches

Neo-Darwinism
PROVES that design is an

ILLUSION

explainable by

unguided NATURAL processes





2 Critics **objected**

to all 3 approaches

by referring to a NON-human intelligent cause

ID VIOLATES the cardinal rule of (naturalistic) science:

that "materialism is ABSOLUTE

for we **CANNOT ALLOW** a **DIVINE FOOT** in the door."





3 Critics **objected**

to all 3 approaches

ID treats living things as though they were designed from the



when they actually seem to design themselves from

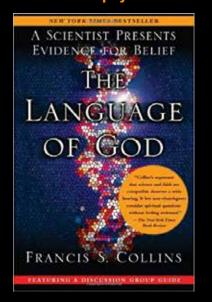








Francis Collins
American physician



"THEISTIC EVOLUTION is the dominant position of serious biologists who are also serious believers."

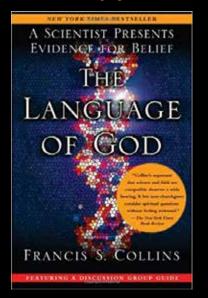
"Once evolution got under way, no special supernatural intervention was required."







Francis Collins
American physician



But Collins found the terminology to be confusing, so he proposed the term

"BioLogos"

to replace "theistic evolution."

In 2007, he founded the

BioLogos Foundation

to promote the idea, but he resigned in 2009 to become director of the U.S. National Institutes of Health.



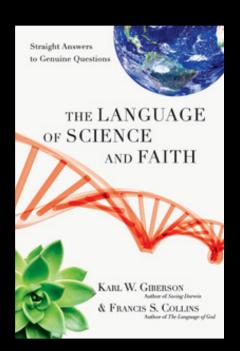






Karl Giberson

Francis Collins



"The model for divinely guided evolution that we are proposing here

requires no 'intrusions from outside

for its account of God's creative process, except for

the origins of the NATURAL LAWS guiding the process."





FOREWORD BY STEVE FULLER

THEISTIC EVOLUTION

A Scientific, Philosophical, and Theological Critique



Edited by J. P. Moreland, Stephen C. Meyer, Christopher Shaw, Ann K. Gauger, and Wayne Grudem In 2017,

two dozen

scientists,
philosophers and
theologians
published a 972-page

critique of theistic evolution





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THEISTIC EVOLUTION

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Edited by
J. P. Moreland, Stephen C. Meyer,
Christopher Shaw, Ann K. Gauger,
and Wayne Grudem

Books definition

"God created matter and after that did not guide or intervene or act directly or cause any empirically detectable change in the natural behavior of matter

until all living things had evolved by purely natural processes."





The BioLogos Foundation

"theistic evolution"



"evolutionary creation"

"We believe that the diversity and interrelation of all life on earth are best explained by the

GOD-ORDAINED PROCESS OF EVOLUTION WITH COMMON DESCENT"





The BioLogos **Foundation**

"theistic evolution"



"evolutionary creation"

People affiliated with BioLogos reject the idea

that this process is purposeless,

but they also reject the idea that design can be empirically detected.



CONCLUSIONS?

Speakers over the next few days

will address

many of the issues in this controversy



CONCLUSIONS?

list of important CONCEPTS and some important QUESTIONS for you to consider



CONCEPTS

- Science
- Faith
- Creation
- Natural Theology
- Evolution
- Darwinism
- Mendelism
- Neo-Darwinism
- Intelligent Design
- Theistic Evolution



QUESTIONS

Science

- Is science a search for truth by comparing hypotheses with evidence?
- Or is it a search for natural explanations that "cannot let a Divine Foot in the door"?

Creation

- How should we interpret Genesis?
- Is creation compatible with an exclusion of design?
- Is natural theology possible?



QUESTIONS

- Biological Evolution
 - Is it simply minor changes within existing species (microevolution)?
 - Or is it the origin of new species, organs, and body plans (macroevolution)?
 - Most importantly, is it <u>unguided</u> macroevolution (Darwinism and Neo-Darwinism)?
 - What does the evidence show about universal common ancestry? About the power of natural selection and mutations?



QUESTIONS

- Intelligent Design (ID)
 - Can we infer design from evidence in nature?
 - Is ID science, or is it religion in disguise?
- Theistic Evolution (TE)
 - In what sense(s) can theism and evolution be considered compatible?



For more information:





https://www.discovery.org/id/

