

INTELLIGENT DESIGN & IRREDUCIBLE COMPLEXITY NUGGETS FROM UNIVERSE, BIOLOGY, & PLANTS

*MATHEMATICAL MODELS SHOW TIME, MATTER, & SPACE HAD A BEGINNING. A TRANSCENDENT AGENT IS A
MUST TO START & CONDUCT ANY CHANGE. QUANTUM MECHANICS AND STRING THEORY CAN NOT CUT IT.
EVERYTHING IS DESIGNED INTELLIGENTLY, THAT'S A FACT.*

MIKE AZER, PH.D.



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DID SCIENCE KILL GOD?

DID SCIENCE KILL GOD? *EVOLUTION OR DELUSION?*

Publishing NEW addition EVERY

MONDAY

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*THOU SHALT LEARN
“APOLOGETICS”
1 PETER 3:15 (REPHRASED)*

4

*CLICK HERE TO
GET EQUIPPED TO SURVIVE NIHILISTIC
CULTURE*

DID SCIENCE KILL GOD?

5

This series contains at moment the following researches.

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2. [Where Are We Heading?](#)
3. [Big Bang Or Just Smoke Screen?](#)
4. [Creation Antagonistic Witnesses](#)
5. [Evolution Or Delusion](#)
6. [Evolutionists Plight](#)
7. [It Is A Young World After All](#)
8. [Lies Into Facts!](#)
9. [Reclaiming The Culture](#)
10. [Reserved For Future Article](#)
11. [Scientific Facts In The Bible](#)
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15. [Humanoid Myth Or Truth](#)
 - A. [A-humanoid Myth Or Truth](#)
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16. [A-the Incredible Design](#)
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17. [The Amazing Brain](#)
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21. [The Amazing Living Cell](#)
22. [The Amazing Human Ear](#)
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24. [Fearfully And Wonderfully Made](#)
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A. [Nuggets From The Oceans 1](#)

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26. [Scientific Dissent From Darwin's Evolution](#)
27. [The metamorphosis: Design, purpose, Synergy and Irreducible Complexity.\).](#)
28. [Design, purpose, Synergy and Irreducible Complexity: Nuggets](#)
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30. [Design, purpose, Synergy and Irreducible Complexity: Biomimicry is the Name of the Game](#)
31. [31_Platypus design and the irreducible complexity](#)
32. [Intelligent Design Nuggets \(current one\).](#)



Fibonacci Sequence, is it The numbers of nature or The numbers of designer?

List & Links of Currently Posted Researches

WHY THIS SERIES?

The purpose of this series is to discuss several evolution and creation aspects scientifically to encourage the blind believer to think and the skeptic thinker to believe. It is very important that we equip our self by the right information to investigate the existence of God & the authenticity and infallibility of His book all with evidences from science. This kind of education has never been so badly needed as it is now for our kids and youth to meet the challenges against the Bible and existence God in all walks of life, be it school systems, media, press, books, museums, colleges, social media, entertainment, ...etc. These challenges, although as old as the existence of man¹, it increased during the enlightenment age, 1685 – 1815, and sky-rocketed since the 1970's. The root cause of all this criticism unquestionably is the evolution theory which replaced the ages old creation belief by natural one and therefor there is no need for God with all the moral and legal responsibilities to submit to His authority and commands and not living sinful life.

This series have sections discussing evolution be it cosmic, chemical, astronomical, organic, and biological. Other sections discussing all-or-nothing complex systems and the possibility of evolving them bit-by-bit randomly as per the evolutionary process and see if they support evolution or creation.

¹)”Now the serpent was more subtle than any beast of the field which the Lord God had made. And he said unto the woman, Yea, hath God said, Ye shall not eat of every tree of the garden?” Genesis 3:1

WHY THIS ONE

Mathematical models show the universe, the solar system, the earth, the atmosphere, the water cycle, the physics laws, and a lot more other systems and natural processes are razor-sharp fine-tuned to support life. As an example, the universe is fine-tuned by some three dozen parameters and initial conditions. These parameters are so critical to life that a minute change in any of them would avert existence of life even forbend forming galaxies and stars and planets. As an example, if the cosmological constant (the acceleration rate of expansion of the universe the first Pico Second (0.000,000,000,001 Second) decreased by 10^{-120} after the big bang the universe would collapse and if it increased by the same amount the universe would dissolve in heat death. This incredible fine-tuning can't be the result of haphazard accident but INTELLIGENT DESIGN (ID).

In biology it is not less astounding. For example, science discovered in each cell of the trillions of the microscopic cells of the human body, or any living creature for that matter, there are plethora of molecular machines acting as rotary engines, turbines, sliding clamps, little robotic motor proteins that tow vesicles of material along what are actually railroad tracks, .. the whole is like a gigantic miniature automated factory. This factory operated by the DNA (deoxyribonucleic acid); a large biomolecule comprises a very high-density information storage (more than 3 Encyclopedia Britannica for human), processing and transmission system. This too can't be the result of haphazard accident but another INTELLIGENT DESIGN (ID).

In these two ID examples, the universe or the living creature can't exist if any of their components is missing or dysfunctional meanwhile none of these components is useful alone which means that such components not only display super ingenious design (ID) but also Irreducible Complexity (IC). Likewise, any natural process or creature.

And without any argument, Intelligent Design requires DESIGNER and Irreducible Complexity defies evolution per Charles Darwin's On the Origin of Species (1859).

In this research we will touch on ID and see some nuggets displayed this principle. We will see that the structures and processes of living organisms or natural phenomena or body appear highly organized, efficient, and purposeful—suggesting. INTENTIONAL DESIGN AND IRREDUCIBLE COMPLEXITY (ID & IC).

MAJOR 20TH CENTURY DISCOVERIES, QUICK REVIEW

The Twentieth Century ushered many scientific discoveries. Below are four of these discoveries which shed bright light on the intricate super ingenious design in the Universe as well as the living beings. These discoveries are achieved by vast advancement in building both very strong Telescopes and microscopes. The strong 100-inch reflector telescope at Mount Wilson enabled Edwin Hubble in the 1920's to see clear and deep into the Universe and thus learned too many things about it. Meantime the very strong electron microscopes and its derivatives enabled James Watson and Francis Crick in 1953 to see clear and deep inside the living cell to discover the DNA structure. Countless advancement in science & observations lead scientists like the cosmologist Fred Hoyle in the 1970's to stumble across one of the first strings of the Anthropic Principles, namely the cosmological constant. He was researching how the Carbon, the most prevalent element in the living tissue proteins for its amazing chemical characteristics was formed in the stars' plasma by fusing Beryllium Be_4^9 atom and Helium He_2^4 Carbon C_6^{12} . He found Cosmological Constant value must be $1.1 \times 10^{-52} \text{ m}^{-2}$ and its tolerance is 10^{-120} . This discovery changed Hoyle from staunch atheism to theist.

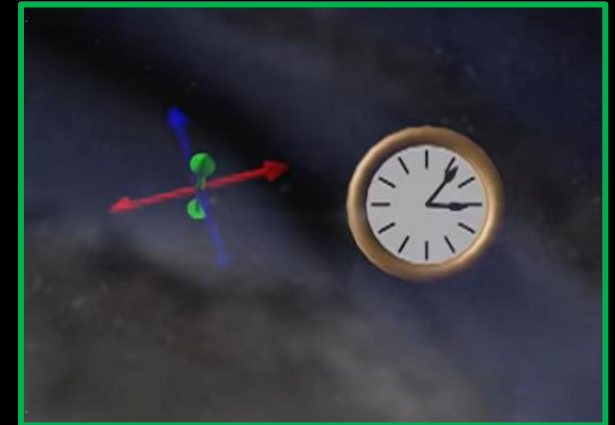
1. The Universe had a beginning, and it did not exist from eternity past. Because it has a beginning there must be a transcendental beginner .
2. Space, matter and Time had a beginning before which none was existing. This means the beginner must be outside space, time, and matter.
3. Many (3 dozens +) of the physical constants and rules are razor sharp fine tuned not only to enable & thrive life on the earth BUT also to enable scientific discoveries (The Privileged Planet.) to the rest of the universe.
4. Each living cell of a living organism contains vast amount of digital data coded in the DNA in virtually all cell. This data prescribes exhaustively the minute specifications of this specific organism and presented in each cell in a way to make data required for cell's role easy to be accessed. This cell's data conducts army of numerous molecular machines to perform the cell's role within one of the 11 body organs, meanwhile these trillions of roles are remotely controlled by the nervous system, which is itself one of the 11 organs.

MAJOR 20TH CENTURY DISCOVERIES

The Universe
has a
beginning.



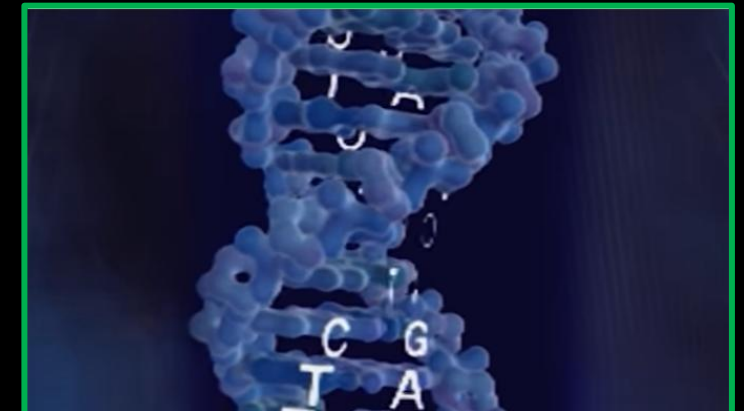
Space, matter
& Time have
a beginning

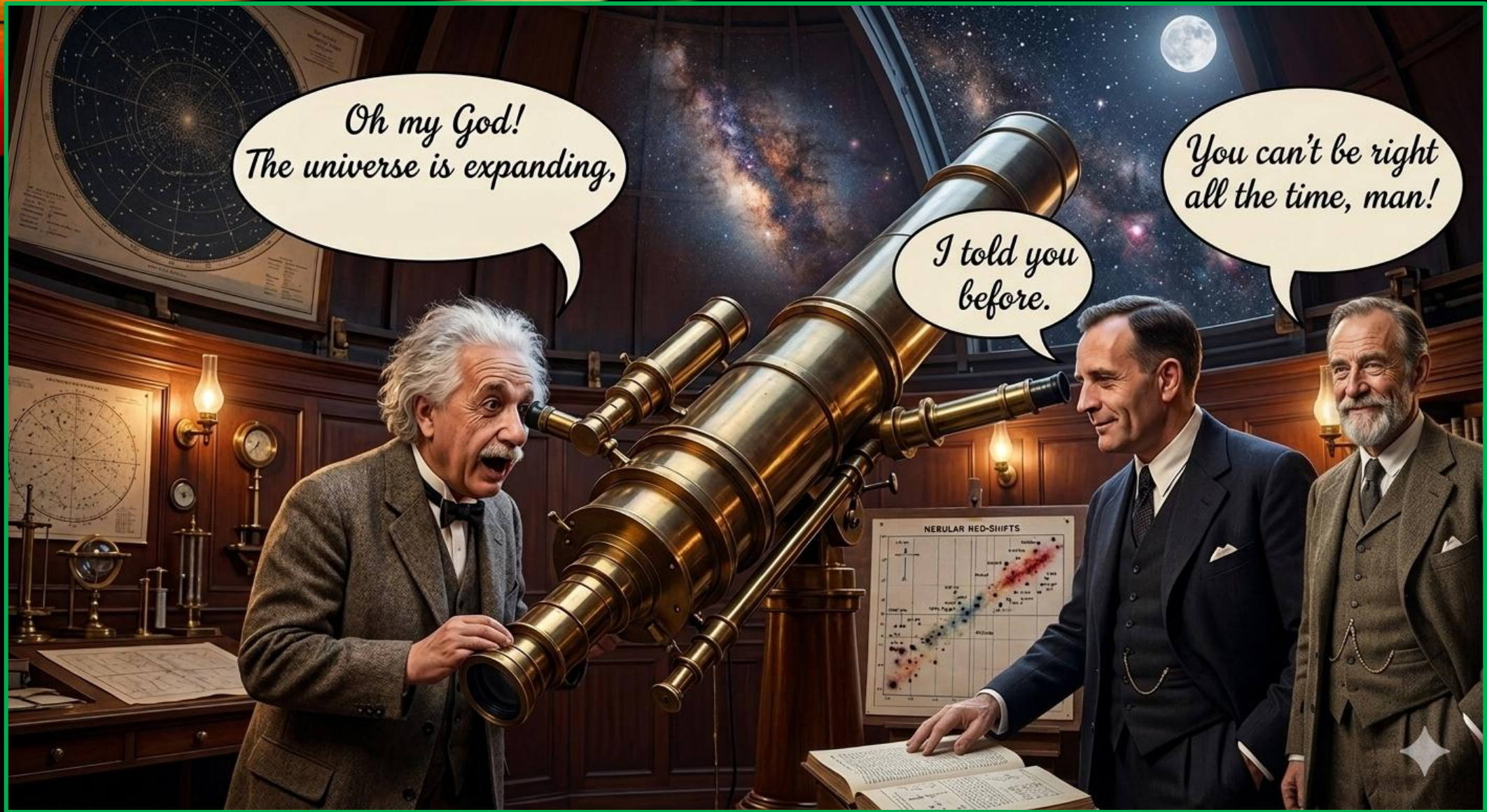


Physical
Constants are
razor-sharp
fine tuned to
support life.

ELECTRON MASS
PROTON MASS
STRONG NUCLEAR FORCE
ATOMIC MASS
...ETC.

Our body's full
detailed
specifications
are recorded in
each of our
trillions' cells
in the DNA
molecule.





Einstein believed that the universe has no beginning and in Steady State like most scientists believed at that time. He even put a fudge factor in his equation to comply with this belief. Edwin Hubble provided him the observational evidence of universe expansion in 1929. Thereafter Einstein stated his biggest scientific plunder was the fudge factor.

DENYING EVIDENCE

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Romans 1:20 "For the invisible things of him from the creation of the world are clearly seen, being understood by the things that are made, even his eternal power and Godhead; so that they are without excuse:"



But unfortunately, in the last 150+ years many, led by scientists and philosophers, are hiding their heads in the sand to comfort their consciousness. I think this is why they believe they and the ostrich have common ancestor: primordial soup.



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Could monkeys ever type out Shakespeare?

SAMPLES OF PROBABILITY OF SPONTANEOUS LIFE'S COMPONENTS

Law of Probability allows a maximum probability (best conditions) of forming spontaneously:

- A typical functional protein ^a:
 $A = 1 \text{ part in } 10^{175}$
- The required enzymes for life ^b:
 $B = 1 \text{ part in } 10^{40,000}$
- A living, self-replicating cell ^c:
 $C = 1 \text{ part in } 10^{340,000,000}$

References:

- Thaxton, Bradley, & Olsen, The Mystery of Life's Origin, 1992.
- Fred Hoyle, The Intelligent Universe pp. 16-17, 1992
- Harold Morowitz, Energy Flow in Biology, pp. 99, 1968.

To compare consider chance to win CA Super lotto is $L = \text{one part in } 4 \times 10^7$.

Probability of winning the lotto better than A, B, & C
 $= A/L, B/L, \text{ \& } C/L = 2.5 \times 10^{167} \text{ times, } 2.5 \times 10^{39,993} \text{ times, } 2.5 \times 10^{339,993} \text{ times. Go figure 😊.$

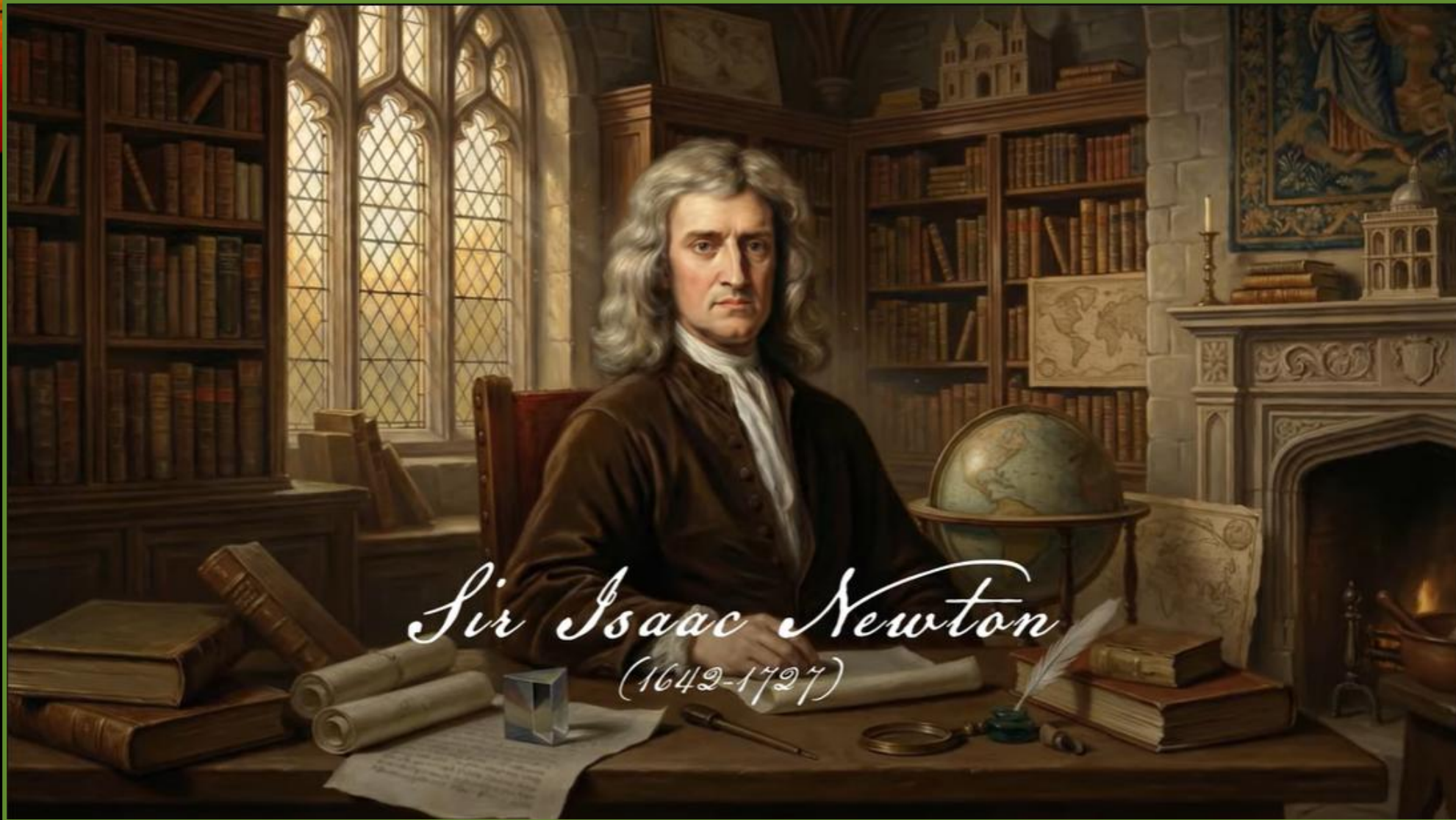


IT IS ABSURD FOR THE
EVOLUTIONIST TO COMPLAIN
THAT IT IS UNTHINKABLE FOR
AN ADMITTEDLY
UNTHINKABLE GOD TO MAKE
EVERYTHING OUT OF
NOTHING, AND THEN
PRETEND THAT IT IS MORE
THINKABLE THAT NOTHING
SHOULD TURN ITSELF INTO
EVERYTHING

GILBERT KEITH CHESTERTON KC¹SG (29
MAY 1874 - 14 JUNE 1936) WAS AN ENGLISH
WRITER, PHILOSOPHER, LAY THEOLOGIAN, AND
LITERARY AND ART CRITIC.

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AMERICA'S FOUNDERS AND INTELLIGENT DESIGN

WHEN WRONG IS RIGHT & RIGHT IS WRONG

Here is a testimony of how the universities indoctrinate our young people erroneously claiming that science proved “no need for design & designer.” This testimony came from a young professional who studied biology, the science which studies the design in us more than any other science.

The Return
of God
Hypothesis



“....Throughout my college career, professors would constantly lecture that based on the evidence they had provided ..there should be no way that anyone in the class could believe in God. They’d argue that the science was proven...and God was hence a myth. I was not equipped to present a valid opposition in a debate. I was desperate to find a commonality between my belief and my [science] education.”

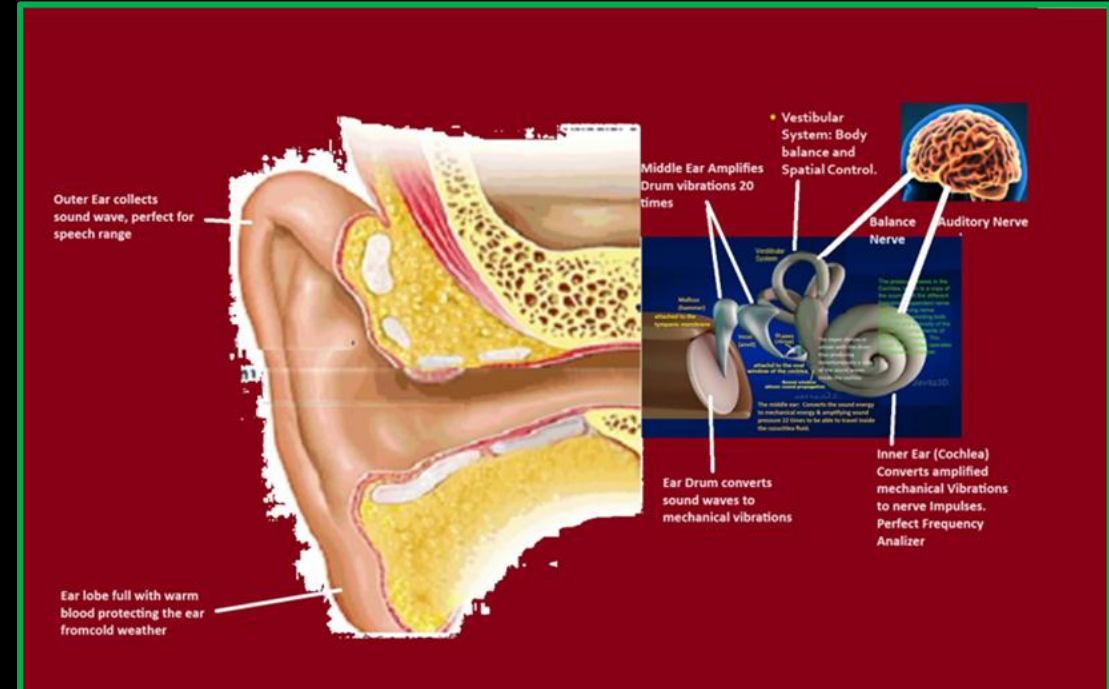
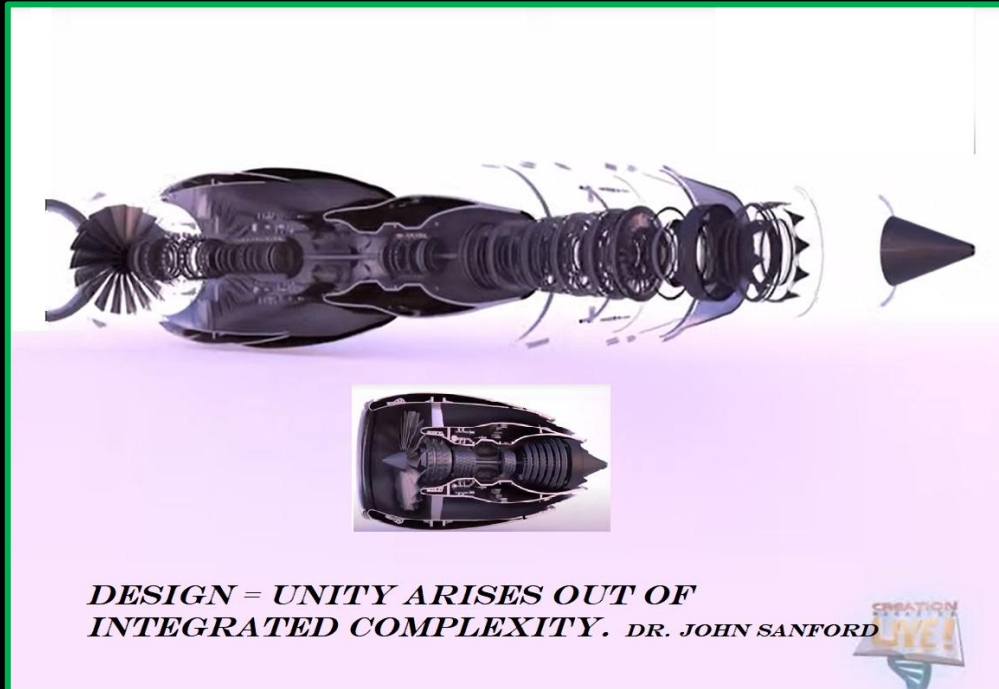


WHAT IS INTELLIGENT DESIGN (ID)?

“A fighter jet is made up of thousands of component parts and countless atoms. This is what makes it readily recognizable as a product of design ... A human being contains over 100 trillion cells. But we are not 100 trillion cells. I repeat – that is not what we are. We are each truly a singular entity, united in form and function and being ... the separateness of our existence as people – apart from our molecules – is both wonderfully profound, yet childishly obvious. Only a deep spiritual sleep could blind us to this reality.

Sanford, j. genetic entropy, 4th edition, fms publications, pp 219.220

4-DEFINITELY INTELLIGENT DESIGNS



We see a Jet and without any doubt we recognize it is INTELLIGENT DESIGN because it consists of many parts which were precalculated carefully and accurately to be manufactured then assembled and all the parts fit together perfectly to provide propulsion for airplanes. The human ear likewise consists of several parts which fit perfectly together to provide the hearing sense and was manufactured during fetus developing inside mother's womb. The ear must be seen as INTELLIGENT

DESIGN too.

DNA IS DEFINITELY INTELLIGENT DESIGN



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Ref.: [Steven Meyer Unmasks The Coding of Human DNA \[6 Min\]](#)

THE AMAZING DNA & MOLECULAR MACHINES

20



Delving into DNA's mind-blowing: It is read in both forward & backward directions, by several language set of rules, by equidistance letter skipping, yielding different instructions for different start point, Each cell uses different sections only.



Ref.: [THE MYSTERIOUS ALIEN TABLET](#)

The DNA is the databank and instructions manual for all biological processes and productions and distributions and shipping of proteins in unison with numerous molecular machines. See video below.

Can such super ingenious all-or-none design of such Information System be the result of billions of years of accumulation of errors, killings, competitions, and sufferings preached by evolution or by omniscient, omnipotent, Holy super ingenious God ?.

THE AMAZING DNA & MOLECULAR MACHINES

21

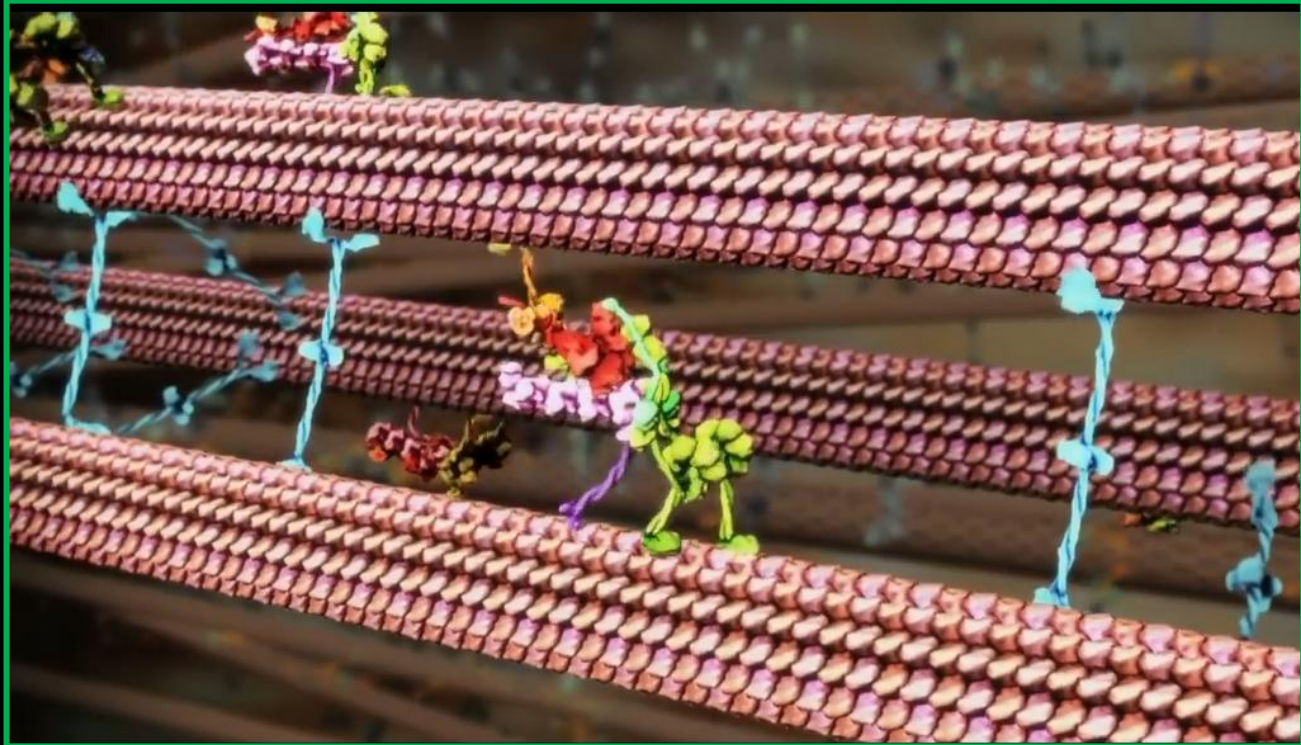
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In nutshell:

- All the DNA in a human body stretch earth-son & back 600-700 times,
- we are 99.9% alike, 0.1% specifies shape, color, and size,
- only ~3% of the DNA codes genes and rest controls their activity,
- Contains 3.1 Billion bits of information.

For more details: [The Amazing Living Cell](#)



Ref. : [Amazing Molecular Machines in Your Body \[6:20 min\]](#)

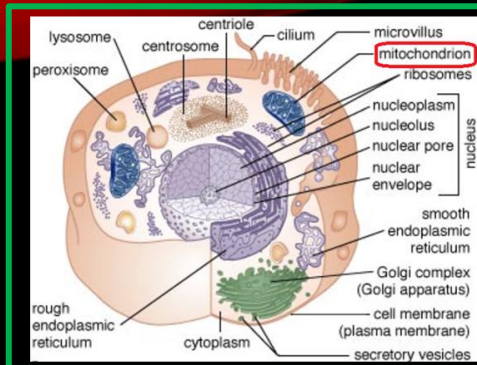
Example of the molecular machines: Kinesis & their reformattable railroad networks, the Freight Logistics of the living cell.

Can such super ingenious all-or-none design of such Information & Operating System be the result of millions of years of try & error or it is pinnacle of Ingenious Design and Irreducible Complexity?

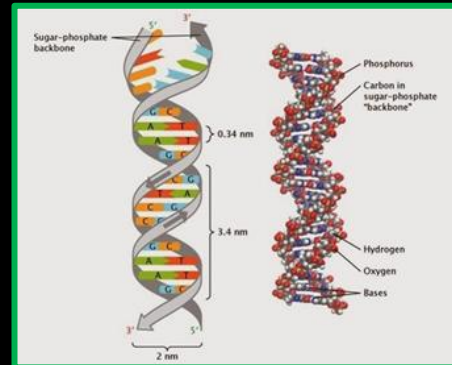
[Q&A](#)

A-SAMPLES OF MOLECULAR MACHINES, DEFINITELY INTELLIGENT DESIGN

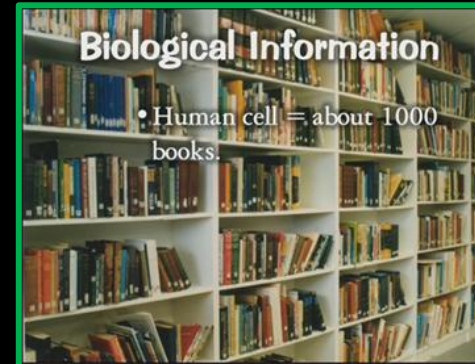
22



The living cell, 0.004 mm fully automated self-maintaining and replicating biggest biochemical factory ever seen.



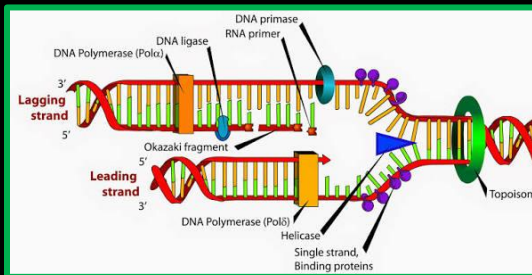
The DNA, super high density ~ 3.1 GB of information coded by sets of 4 amino acid molecules.



The human DNA contains 3.1 Billion bits fills 1000 encyclopedia volumes each page 550 words.



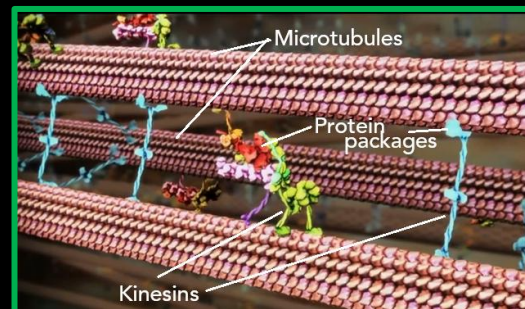
The Helicase, molecular machine which splits the 7.87402e-8 inch by 6.5 feet (2 nm by 2 m) to prepare for DNA copying.



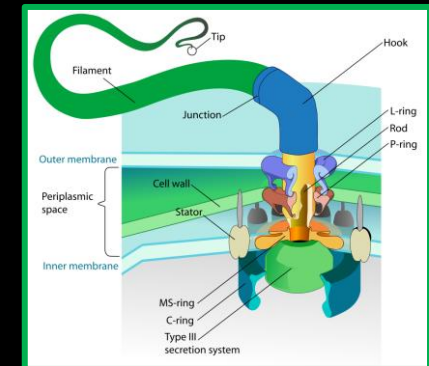
The Topoisomerase, molecular machine which untangles the DNA after it's split to be copied.



The ribosome is a very clever machine that reads one language and operates in another building 1000s proteins.



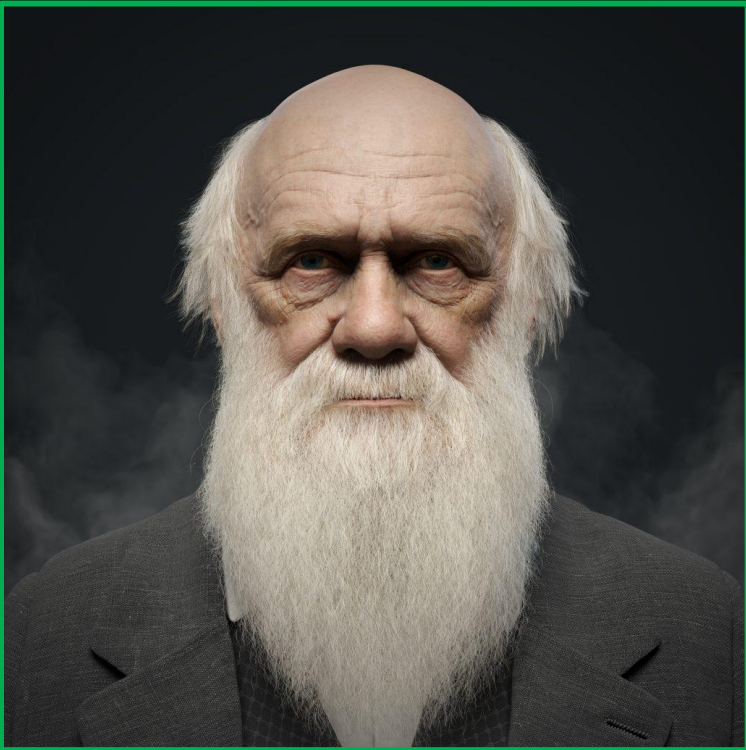
The Logistic system which moves the protein packages from where they were produced to where they are needed.



The Flagellum, the 20 nm by 15μm outboard motor which moves bacteria to find food and creates energy in living cells.

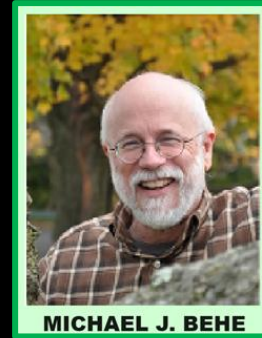
The building block of any living organism is the living cell, and the cell's building blocks, amongst others, are the DNA, the molecular machines like these in pictures, ..etc. The division of the cell or making proteins, hormones, enzymes, even the molecular machines themselves ..etc. are the crux of living. These actions are conducted by the DNA using the molecular machines (chicken & egg). In other words, to make the molecular machines you need molecular machines! This means no life unless the DNA & the molecular machines are present, working, & sound. Undoubtedly, these living cell and the molecular machines are INTELLIGENT DESIGN & because nothing can be missing and anything is useless alone the living cell and molecular machines are also IRREDUCIBLE COMPLEXITY.

THE CHALLENGE



**"IF IT COULD BE
DEMONSTRATED
THAT ANY COMPLEX
ORGAN EXISTED,
WHICH COULD NOT
POSSIBLY HAVE BEEN
FORMED BY
NUMEROUS,
SUCCESSIVE, SLIGHT
MODIFICATIONS, MY
THEORY WOULD
ABSOLUTELY BREAK
DOWN,"**

**COMES FROM CHAPTER 6 OF
CHARLES DARWIN'S ON THE
ORIGIN OF SPECIES (1859).**



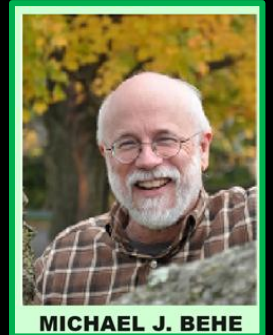
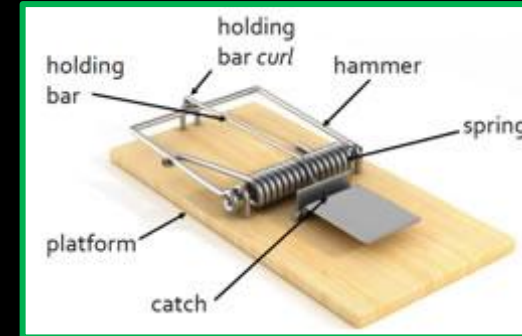
Michael Behe can't agree with you more Darwin! I will show you several cases out of trillions. As a matter of fact, virtually all living organisms' organs "ABSOLUTELY BREAK YOUR THEORY DOWN" but also the living organisms themselves do too.

A- WHAT IS IRREDUCIBLE COMPLEXITY (IC)?²⁴

(IN NUTSHELL: ALL-OR-NONE)

In the following slides we will have a quick glance at some of the biological and natural systems as examples of ingenious purposeful irreducible designs.

- Although we will barely scratch the surface of any one of them, we will see clearly that every one of them consists of basic components which must exist, fit together, all provisioned to produce certain job(s) to function properly right from the beginning, or the system won't function. Any of these parts has certain job in towards the purpose of the system and outside the system it has no value alone.
- Some of the components may have more than one job like the skeleton's bones supports the body infra structure meantime many of them produce RBC's too and may be even more jobs, however without these jobs there is no reason for such component to exist.
- It goes without saying that the living body won't perform regular biological activities properly or even may not survive if any of it systems didn't exist right from the beginning and in good working condition.
- The concept of "Irreducible Complexity" or "All-Or-None" can be explained by a simple mousetrap. A mousetrap can catch mice only if at least its basic 7 parts (see illustration) are provisioned properly to fit together and installed properly. Until the last piece is installed there is no mousetrap, and no mice can be caught. The same applies to living body as aggregate of numerous interworking biological systems and each system separately can't perform its job unless all its components are in place, fit together and operational. None of these components has value to the living body likewise none of the biological system has value alone but as a part of the whole body. In other words, all the biological system must be ready and operational for the body to operate properly likewise none of the components have value separately but only as integrated with the other components to form operating system. The same applies to natural phenomena or systems. Bottom line is every part / system must be in place and operational tight from the beginning and no survival value for any operatable incomplete system for the natural selection to select upon. Every part of a system has no value standing alone.



Irreducible Complexity:

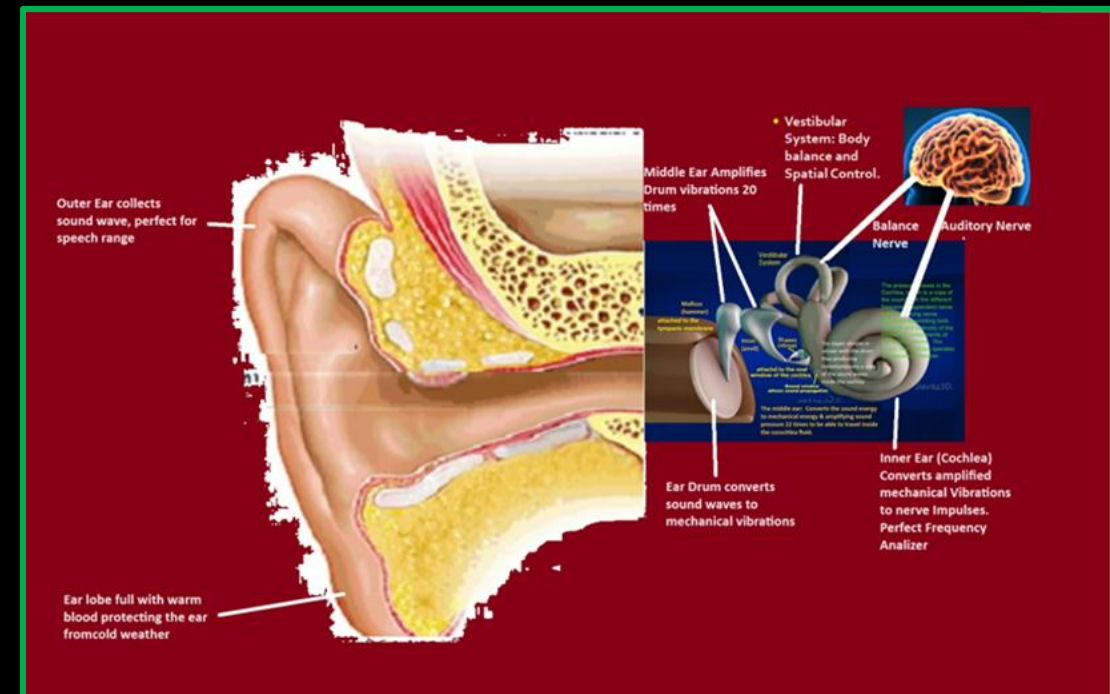
"An Irreducibly Complex System Cannot Be Produced Directly By Numerous, Successive, Slight Modifications Of A Precursor System, Because Any Precursor To An Irreducibly Complex System That Is Missing A Part Is By Definition Nonfunctional.Since Natural Selection Can Only Choose Systems That Are Already Working, Then If A Biological System Cannot Be Produced Gradually It Would Have To Arise As An Integrated Unit, In One Fell Swoop, For Natural Selection To Have Anything To Act On".

THESE ARE ID & IC ALSO



DESIGN = UNIT ARISES OUT OF INTEGRATED COMPONENTS. DR.

JOHN STANFORD



The ear is a perfect ID & IC in itself; its purpose is to convert sound waves into nerve impulses at high fidelity via three integrated parts: Outer ear collects sound waves vibrating the eardrum. Middle ear amplifies these vibrations and passes them faithfully to the inner ear meanwhile protects it from loud sound. The inner ear acts as accurate frequency analyzer producing brain impulses whose heights (amplitude) represent sound loudness (intensity), and the frequency of the impulses (rate of neuron firing) represents the sound tone (pitch). An intricate arrangement of fine-tuned parts of different roles to achieve together the hearing is another INTELLIGENT DESIGN, meanwhile missing of any of these different parts is show-stopper and useless alone. This is the academic definition of IRREDUCIBLE COMPLEXITY.

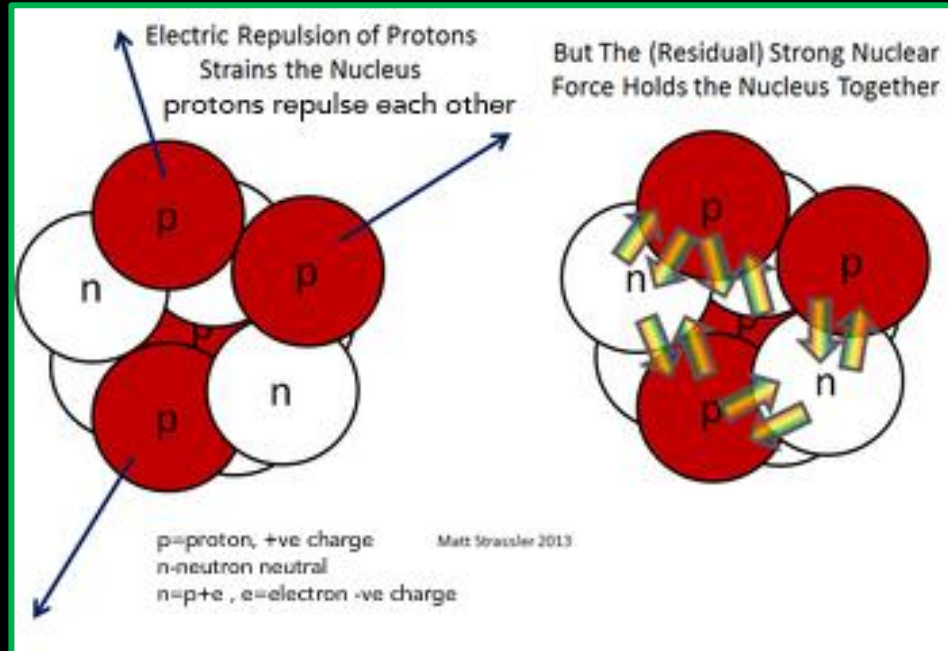
A-ID & IC IN THE FINE- TUNING OF THE UNIVERSE TO SUPPORT LIFE

Our Universe permits physical, interactive, intelligent life because these and many other parameters (all About 3 dozen **The Anthropic Principle**) have been independently and exclusively balanced on a razor's edge. The value of these parameters fall in very narrow ranges that permit matter, stars, and life although they can assume wide range of none-life conducting universe, if any. See some examples on the next slide. For these parameters to assume these very sharp fine-tuned values points clearly to a very potent omniscient fine-tuner. And if any of these parameter's assumed value out of its tolerance the result would be a universe not conducting for life, if any. It follows that these parameters are Irreducible Complexity: They all must exist right from the first moment with the right values to have the right inhabitable universe.

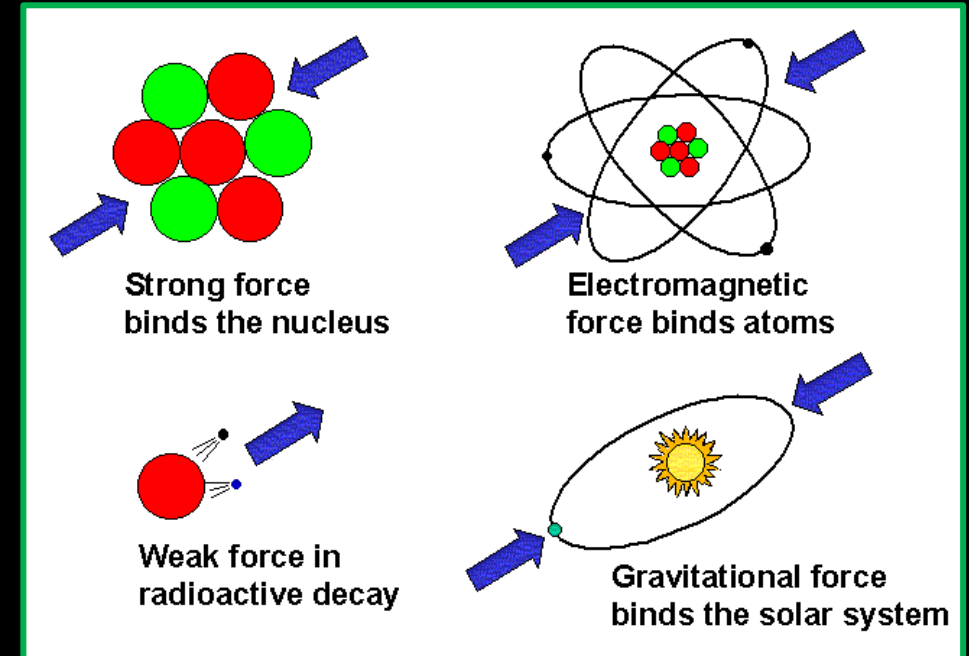


Ref.: [The Fine-Tuning of the Universe \[6:22 Min\]](#)

BASE OF THE NATURE'S LAWS



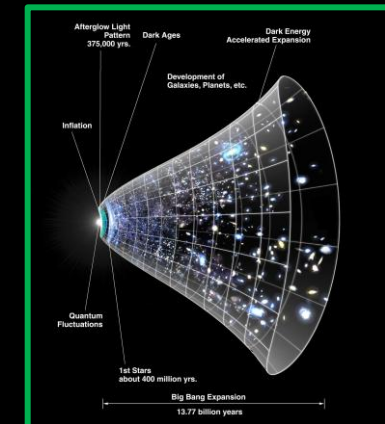
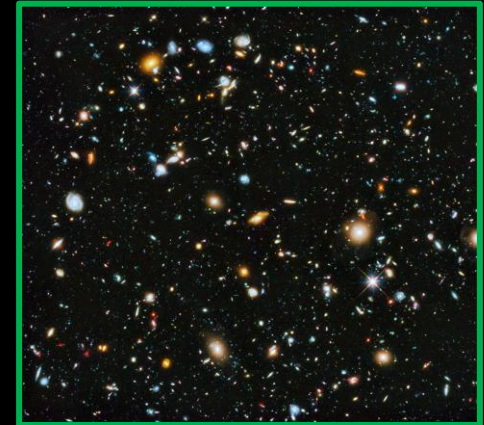
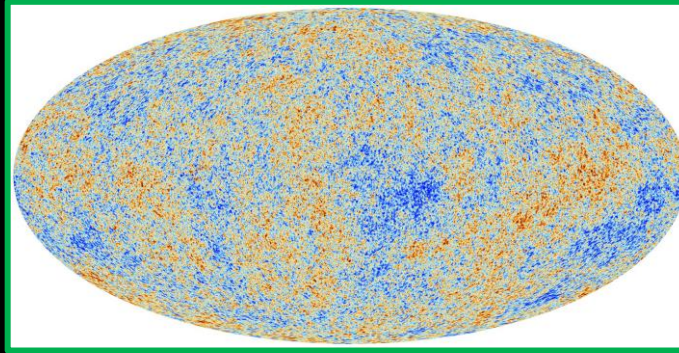
Forces Acting On The Nucleus Particles. These Force Combined With The Electromagnetic And Gravitational Forces (Picture To The Right) Form Stable Protons, Neutrons, Atomic Nuclei, Atomic Atoms, Atomic Molecules, Elements, And Celestial Bodies.



Combination Of The Strong Force (Nucleus) And The Electromagnetic Force (Holds Electrons) Build Elements' Atoms. Elements' Molecule Is Combination Of Atoms Keeping Each Atom's Outer Electronic Orbit Share Electrons With Neighboring Atoms In Balance. Gravitational Force Coalesce Material To Form Celestial Bodies.

ID & IC IN THE FINE TUNING OF THE UNIVERSE

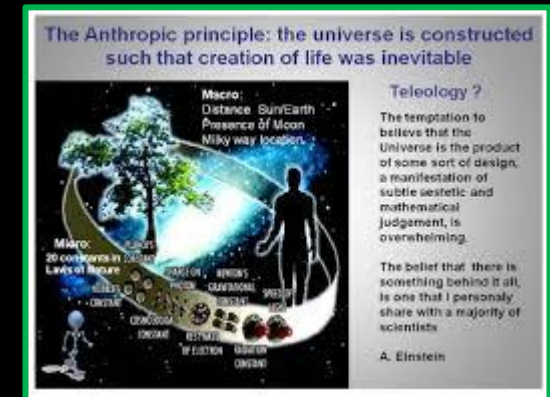
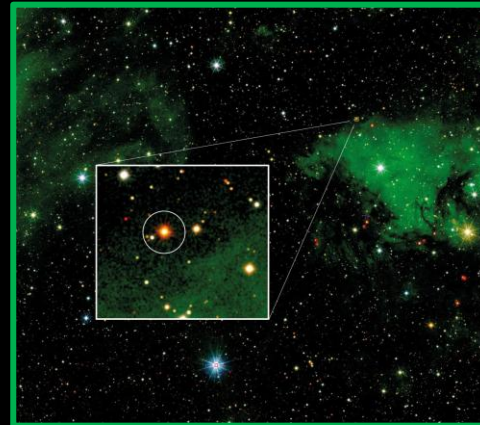
Although the Big Bang Theory is debatable, it sheds light on the fact that many features of our universe fall within very narrow ranges that permit structure, chemistry, and life. These are called The Anthropic Principle. Another conclusion from the Big Bang is showing as the equations approach the moment of the big bang the equation puts the three dimensions: Material and Space of the whole universe into a point of zero dimensions because there is no space or energy or material or time yet which the beginning is JUST Conceptual Mathematical Perception (CMP). And the best habitual understanding these three items CMP come only from MIND.



ID & IC IN THE FINE TUNING OF THE UNIVERSE IS IRREDUCIBLE COMPLEXITY

The Fine Tuning of the Universe points strongly to Intelligent Design to accommodate intelligent life:

- The narrow life-permitting range of some three dozen parameters must have been meticulously, ingeniously designed by omniscience mind.
- It's not just one or two parameters but whole package of parameters and laws which make it extremely inconceivably to be at random, it is some 36 (3 dozen parameters) order of magnitude improbable to be haphazard.
- The Universe is set up to allow complexity and observers (us).





“common sense interpretation of the facts suggests that a super intellect has monkeyed with physics ...and that there are no blind forces worth speaking about in nature. The number one calculates from the facts seem to me overwhelming as to put this conclusion almost beyond question.”

Fred Hoyle
Astrophysicist and Cosmologist
Plumian Professor of Astronomy and
Experimental Philosophy at Cambridge

Hoyle searched how Carbon may have been formed in the stars' plasma for its abundancy and importance for life biochemistry. He came to the idea if the plasma heat and pressure combine Beryllium Be_4^9 atom and Helium He_2^4 Carbon C_6^{12} can be produced. The hurdle was such atom energy level resonance would be higher than normal carbon. He wondered if that energy exists. He went to Caltech, ran experiments, he found the energy level he predicted on purely theoretical cosmological grounds turns out to be valid. This was the tip of a whole series of other fine-tuning iceberg parameters.

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References.: Anthropic Principle: The Design Is In The Details

References.: The Fine-Tuning of the Universe [6:22 Min],

ID & IC OF CUSTOM-DESIGNED PLANET EARTH



Reference: Amazing Planet Earth & Moon

A Logical Conclusion

The Universe Is Fine-tuned So That
Environments Habitable To Observers Will Provide The Best
Overall Conditions For Observation And Discovery On Planet Earth.

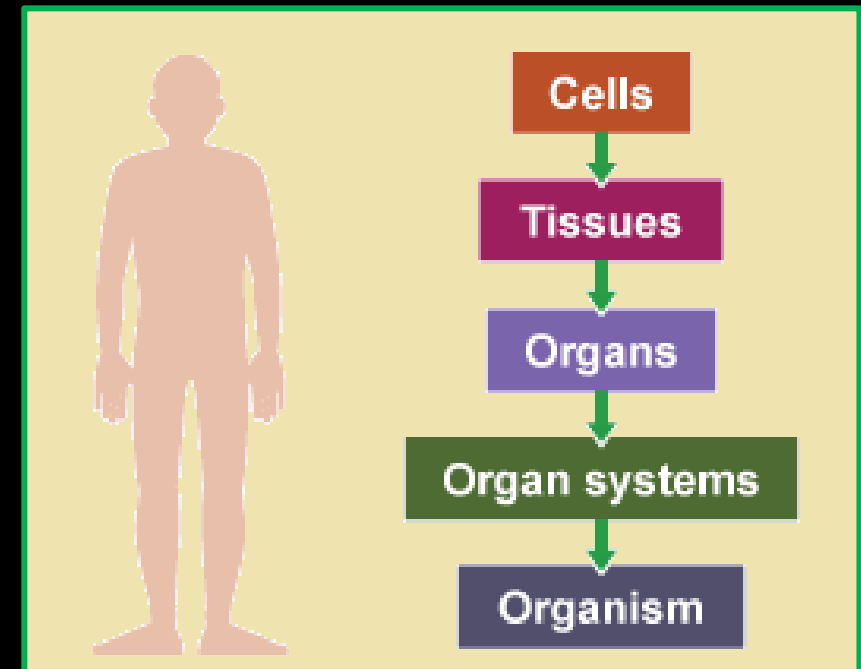
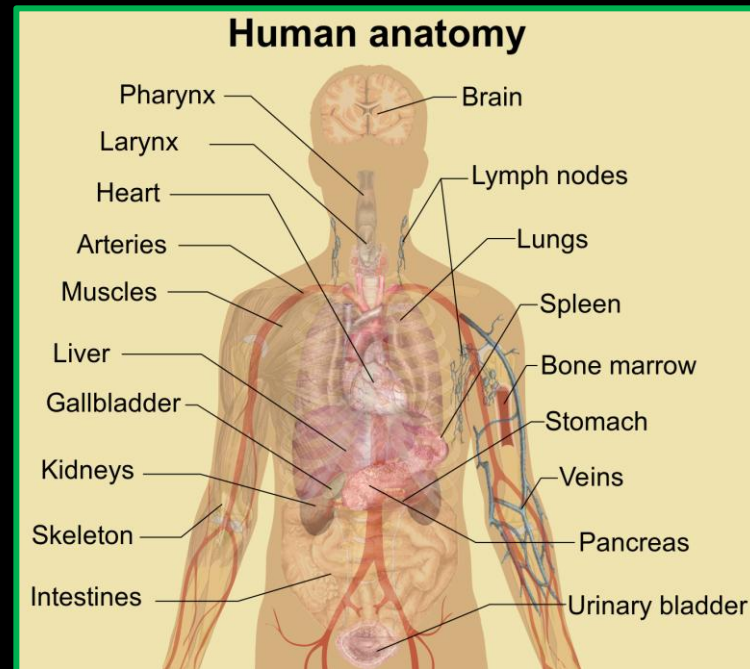
Amongst Many Other Carefully Engineered Factors: Safe
Uncrowded Position In Our Milky Way Galaxy, Relatively Quiet
Sun, Goldie Luck Orbit, Shielded From Frequent Asteroids And
Comets, Beneficiary Moon, Perfect Tilt Angle, Protecting
Magnetic Field, Perfect Atmosphere For Breezing And Filtering
Damaging Electromagnetic Bands, Water Cycle And Winds And
Ocean Currents Tempering Heat, ...Etc.

Reference: Anthropic Principle [3 Min]

Reference: "Designed for Life, Designed for Discovery" David Klinghoffer [42 Min]

ID & IC IN ANATOMY AND PHYSIOLOGY

Wherever we look we find remarkable congruence between structure (Anatomy) and Function (Physiology) of living organism appearing so complex, ordered, and purposeful pointing strongly to Intelligent Design. We observe this in all living organism from microscopic bacteria to human being. Each organism equipped with the right organs to sustain, protect, ..., and reproduce itself and in our human race to think, interact, observe, imagine, love and worship. We will touch upon some of the aspects of the congruence in the following slide or two as applied to human.



*ID & IC IN ANATOMY AND PHYSIOLOGY*³³

ANATOMY

The body is built by several organs and systems to support its physiology:

- All the organs: Brain, Heart, Lungs, Kidneys, ..etc. have perfect structures fitting each organs' function.
- Systems: Nervous, Circulatory, Digestive, ..etc. are fully integrated and interdependent to provide the organs with the energy and material necessary to their individual functions.
- Structures are always highly optimized; e.g., Bone strength versus weight, efficient Durable heart, very fast autonomous Nervous, efficient Digestive System, ..etc.

PHYSIOLOGY

- The heart pumps the blood continuously providing the organs and systems with adequate energy, Oxygen, enzymes, ..etc. and removing waste like CO₂ away.
- Lungs constantly oxygenate the blood and remove the CO₂.
- Nervous system provide the muscles control both voluntary like moving arm or talking or involuntary like heartbeat.
- Kidneys rid the blood from all the waste.
- Reproductive system which is unique for the gender and matches perfectly to the opposite gender to recreate next generation.
- The coordination and efficiency of all these are optimal. ...etc.

INTERDEPENDANCE

- As an example of Interdependence consider the Urinary System which rid whole-body cells of waste products.
- The Circulatory System, beside providing essential material to all body cells it flushes out all cells' waste carrying it in the water content of the Circulatory System.
- The circulatory System pumps the blood through the Urinary Systems' Kidneys which extract the waste from the blood by transferring the water carrying the waste purifying the blood for new cycle. The cycle runs continuously removing the waste from the blood meanwhile it carries the nutrients from the liver and the hormones from the endocrine system to all the body cells.
- The Urinary System drains the kidneys constantly to passing the water with the waste to the Urine Bladder to be removed controllably by urinating.
- The coordination, dependency, and efficiency of all these are optimal.

Another Amazing Capabilities Underlying These Anatomy And Physiology Sample Faculties Are Being Lately Under Study In The Scientific Community Under The Umbrella “[THEORY OF BIOLOGICAL DESIGN \(TOBD\)](#)” and “[Continuous Environment Tracking \(CET\)](#).. “. The TOBD Studies The Biological Systems, Functions, And Adaptations Are Best Explained By, And In Fact Operate Through, Mechanisms Used By Human Engineers. The CET Studies Biology As Engineering-based, DNA-Focused Model Of Adaptation Of The Organism By Monitoring Environment And Responding Accordingly By Limited Fine-tuning Of The DNA Protein Codes Controlled By The DNA None Protein Coding Areas In The DNA Itself. These Two Biological Faculties Are, In My Opinion, The Intelligent Design Crown Jewelry of Biology & Physiology.

ID & IC IN ANATOMY AND PHYSIOLOGY

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BALANCE

- The body maintains stable internal temperature, pH, hydration, ..etc.
- The body maintains upright stature by the inner ears.
- The body provide 5 senses to interact with environment and with each other.
- The body fights and mostly gets rid of pathogens and microbes.
- The body continuously rejuvenate the cells and replaces the old ones. It is estimated that the whole body is replaced once every 10 years.
- The body uses feedback loops to regulate its conditions.
- ..etc. Self-regulation and body autonomy one of the Intelligent Design strong trademarks.

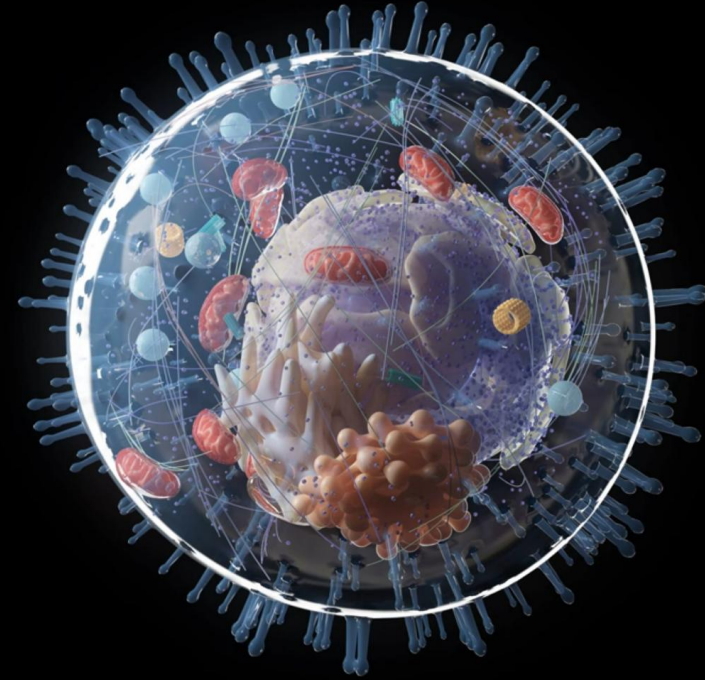
DNA AND CELLULAR MACHINERY

- This is one of the organisms' pinnacle of INTELLIGANT DESIGN. It specifies every minute detail blue-print of all the organism from A to Z coded in a long molecule in each of any organisms' trillions of microscopic cells.
- Stunning very high-density data storage, processing, maintenance, and operating system LIGHTYEARS apart from what we even imagine.
- The DNA conducts all life functions in the cell such as building thousands of proteins, moving proteins from producer to user, dividing the cell, and a lot more. The DNA does these functions using hundreds of molecular machines which are different protein molecules each performs certain job and these molecular machines are produced by the DNA.
- It can't be recognized enough that the DNA must be ingenious Intelligent Design.

SEASONAL MIGRATION

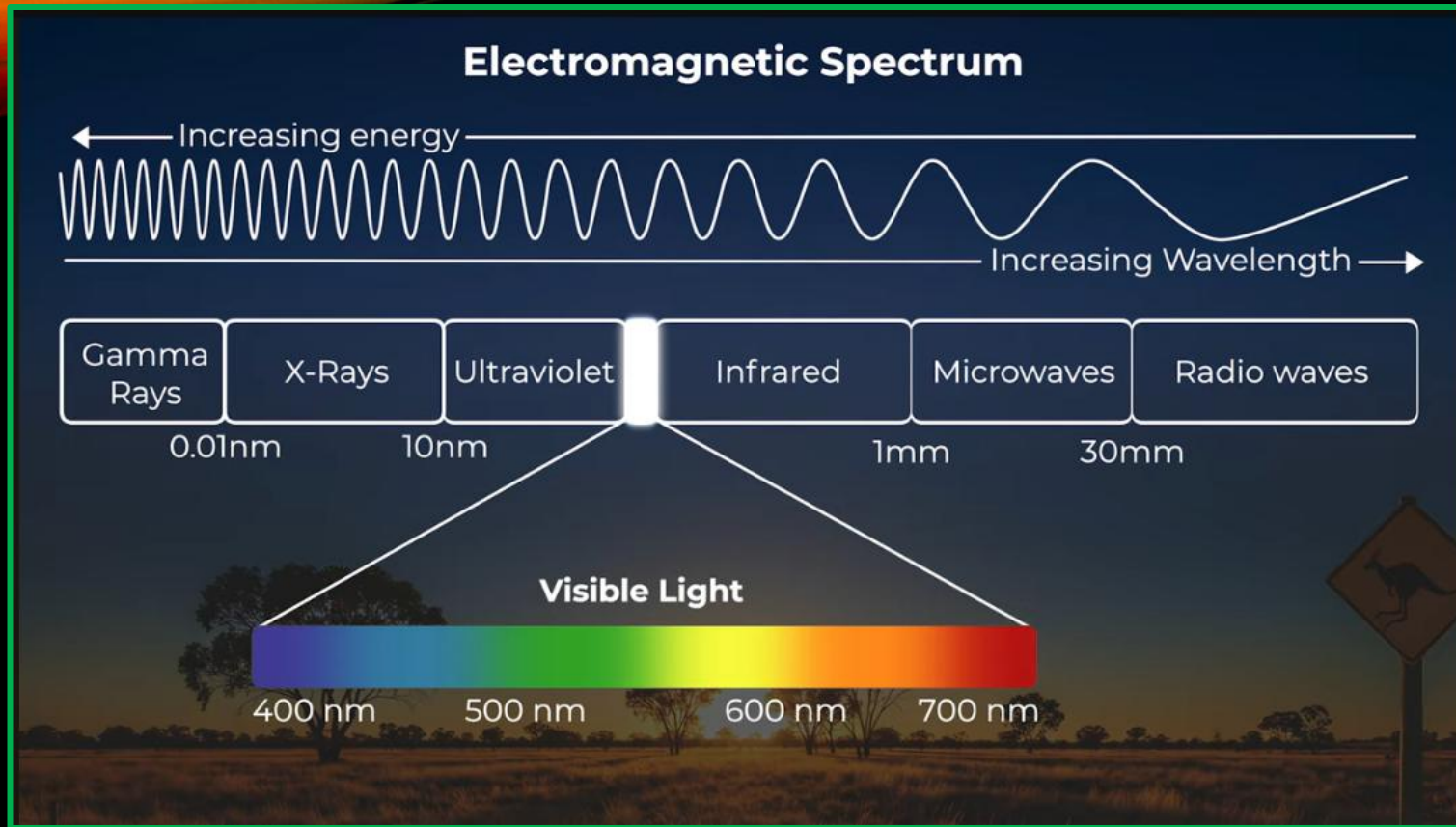
- Many birds, fishes, and animals migrate yearly to avoid harsh weathers.
- Such creatures migrate sometimes thousand of miles to the same place even if the first time without previous knowledge.
- These creatures use several ways for guidance as the sun, the stars, the earth magnetic field, the sense of smelling, landmarks, continent contours, and other signs.
- Migration trip can be thousands of Miles, e.g.; Arctic tern migrates from the North Pole to the South Pole back & forth taking advantage of the relatively warm season of the Poles. The trip is 44-59 thousand Miles each way.
- For a creature to possess the sense to track such migrations trips must have the Intelligent Designed faculties to find its way.

These are just few highlights to show the intricate biology of the living organism provide a full set of faculties for the creature to live and thrive. Such faculties can't be evolved by try and errors but by INTELLIGENT DESIGN. And because a creature MUST have these faculties as well as numerous more right from the first moment the creature exists and otherwise the creature would be dead on arrival these faculties are IRREDUCIBLE COMPLEXITY too.



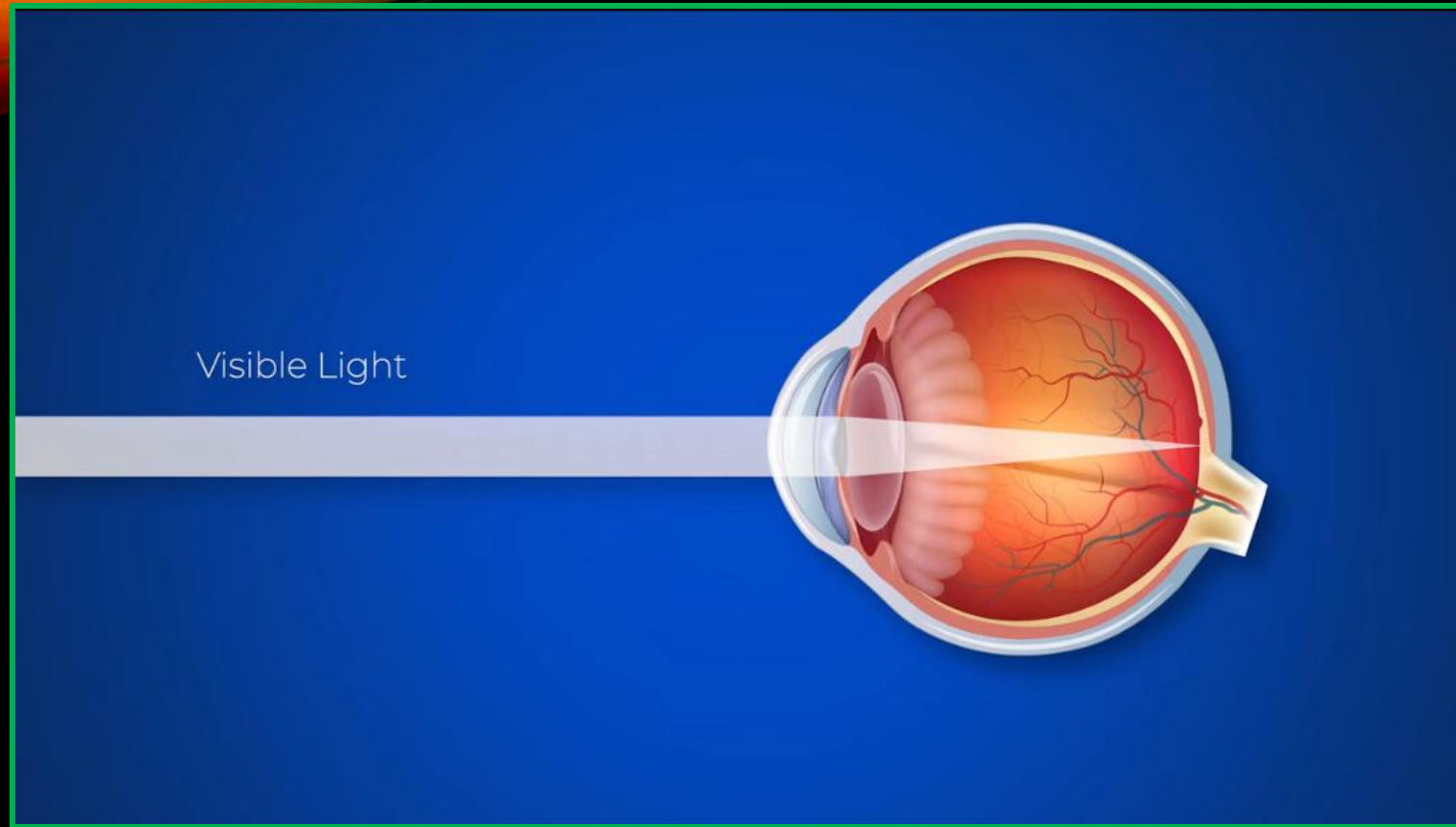
THE MIRACLE OF THE CELL SHOWS THERE IS A FANTASTIC FINETUNING IN THE PROPERTIES OF MATTER WHICH MAKES ITS LIFE POSSIBLE.

DR. MICHAEL DENTON



The Visible Part Of The Sunlight The Least Absorbed Band By The Atmosphere And The Water At The Mean Time Is The Band Needed For Vision And Photosynthesis Both Essential For Life. Could It Be This Perfect Match Made In Heaven?

DR. MICHAEL DENTON

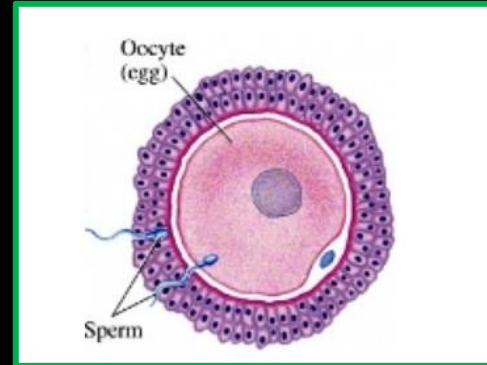


The Dimensions Of The Eye Provide The Best Acuity At The Visible Sunlight Band. A Slight Change Of The Band Either Side Would Necessitate Unrealistic Increase Or Decrease Of The Eye As Well As Different Retina cells. Is This A Fluke Or Intelligent Design?

DR. MICHAEL DENTON

ID & IC IN REPRODUCTIVE SYSTEM & PROCESS

Without doubt Reproduction is what differentiate living organism from anything else. Reproductive system is the pinnacle of ID & IC. This system combines the male sperm, smallest cell in the male body, with the female ovum/egg, largest cell in the female body, under very hostile conditions which protects the female from any possible pathogens. It compares easily to David & Goliath. After the very exhaustive and meticulous stage of combining the 2 cells the system enables this single cell to nest safely inside the female uterus for the new combined cell to start on autopilot mode to establish supply & communication line with the mother's circular system for fresh nourishment and removing refuse & immunity to grow into a perfect new baby of trillions of cells either female or male, depending on the sperm's sex, to produce a member of the next generation. This system is given in some more details in the link above. We will handle it from the ID & IC point of view.



Fertilization



Sixteen-Week-Old Fetus in Utero



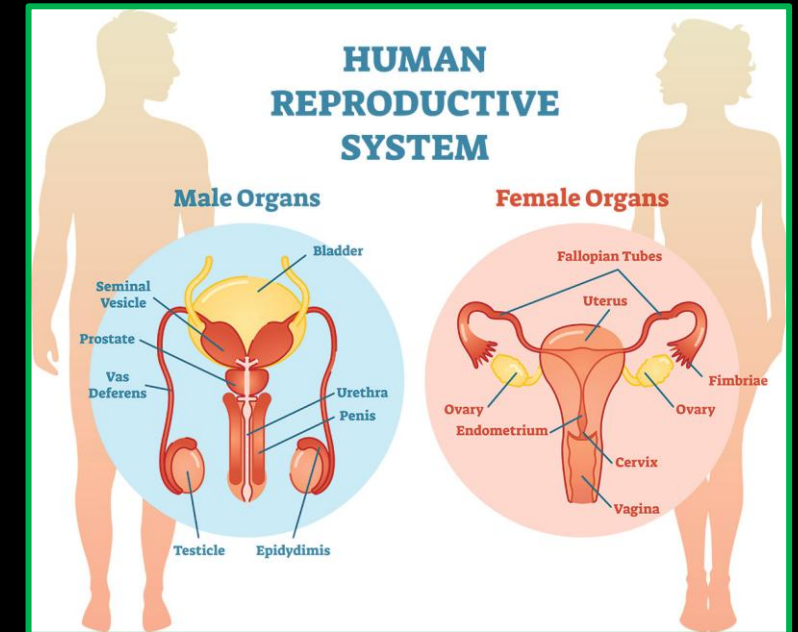
Twenty-four-Week-Old Fetus in Utero



Twenty-Eight-Week-Old Fetus in Utero

ID & IC IN REPRODUCTIVE SYSTEM: EXTREME BIOLOGICAL PRECISION

- Between the female and male anatomy none of the body systems is so diagonally different more than the Reproductive system.
- Each gender's system is morphology to fit perfectly & precisely each gender physiology. We will touch upon few out of hundreds design ingenuity properties.
- Because the vagina is protected against pathogens by acid, the sperms come swimming in alkaline fluid to neutralize the acid.
- some 200 million sperms are ejaculated to make sure at least handful strong sperms can survive the arduous trip to the female egg.
- The womb's cervix is plugged by this mucus for protection, the sperm fluid loosens it for sperms to pass.
- The womb lining is always in flushing rhythmic contraction outwards of the womb; the sperm fluid triggers its reverse helping the few thousands survived sperms towards their goal.
- Because most mutations happen during cell division, a baby female is born with some million eggs prepared already while she was still protected in her mother's womb.



A-ID & IC IN REPRODUCTIVE SYSTEM: FROM A SINGLE CELL TO TRILLIONS-CELL BABY IN JUST ~40 WEEKS

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WEEK 1: Fertilization, Embryo., The union of a sperm and an egg. Several egg divisions take place, egg hatches.



WEEK 8: Fetus, 1 ¼", all key parts begin, eyes, ears, arms are identifiable, eyelid begin to close.



WEEK 14: 4 ¾", 4 OZ., limbs developed, eyes move, ears almost developed, may suck fingers.



WEEK 22: 8 ¼", 1 ¼ Lb., more Lungs development, sleeps & wakes regularly, real hair is growing.



WEEK 32; 11 ¾", 4 ¼ Lb., pink skin, almost all can be born now.



WEEKS 38-41: 20+", 6 ½ -10 Lbs. Ready to Came out, Halleluiah!



LIFE IS GOOD

During the gestation period for the fetus to go through these humongous growth and morphological changes there are billions of very decisive decisions each is taken on very precise schedule. The ISSUER and EXECUTER of these decisions is primarily the fetus DNA augmented/supported/executed by hormones produced by the mother as well as the fetus placenta. Reproduction is an amazing and ingenious ID & IC process without a shred of doubt.

ID & IC IN REPRODUCTIVE SYSTEM: EXTREME BIOLOGICAL PRECISION

- The ovum has three barriers of protection enable only the best sperm to penetrate it: The Corona Radiata overcome by sperm release of its acrosomal content, within the Corona Radiata the sperm binds with species-specific receptor, this binding produces specific enzyme help the sperm to drill through the egg-membrane Zona Pellucida
- Female hips are generally broader with a wider, shallower pelvic structure, designed for childbirth.
- Female pelvis bones have bigger opening and have some flexibility both to enable babies passing through at birth.
- Female pelvis has stronger muscles to support pregnancy.
- DNA replication and embryonic development with extreme remarkable accuracy.
- There are hundreds of such properties, these mentioned few give you the idea.



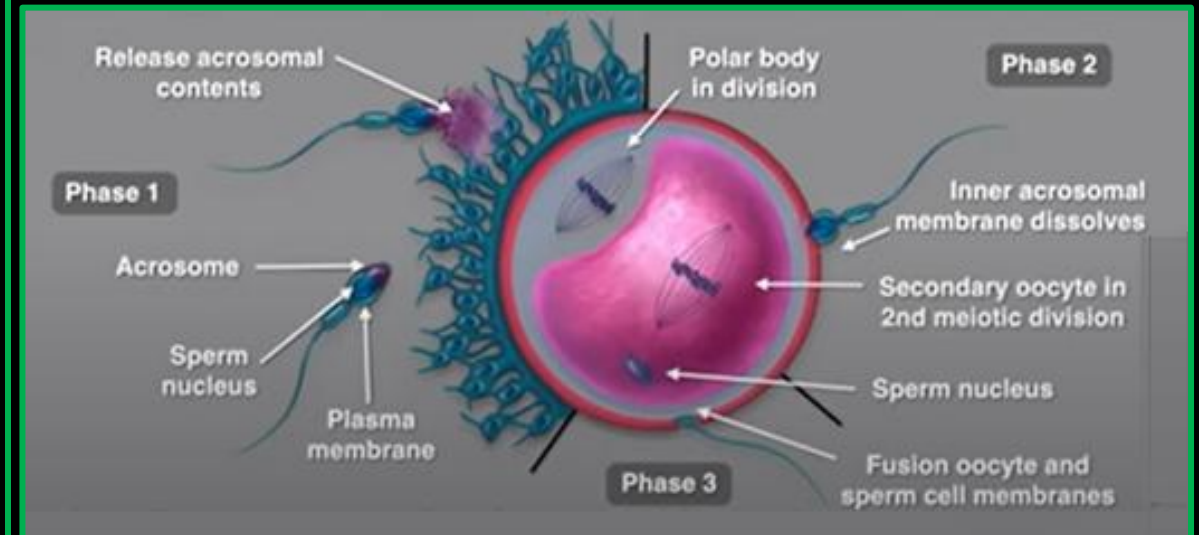
ID & IC IN THE REPRODUCTIVE SYSTEM: EXTREME BIOLOGICAL PRECISION

When the sperm tip touches the egg membrane three crucial checks are made:

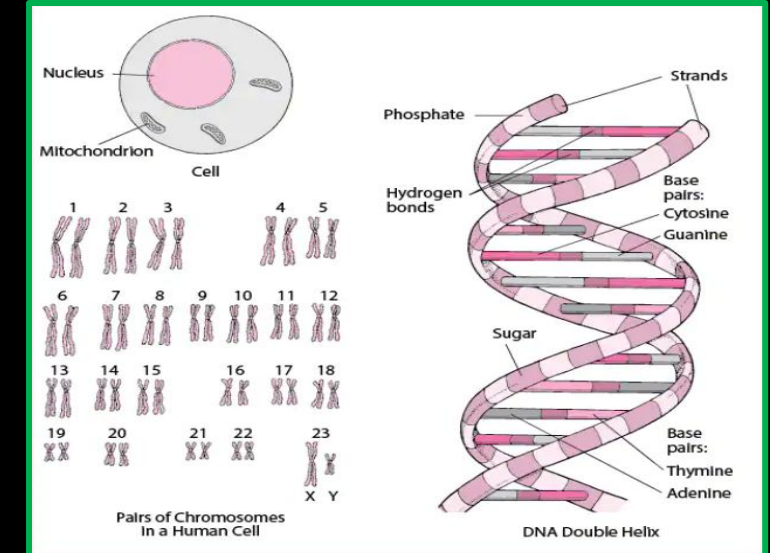
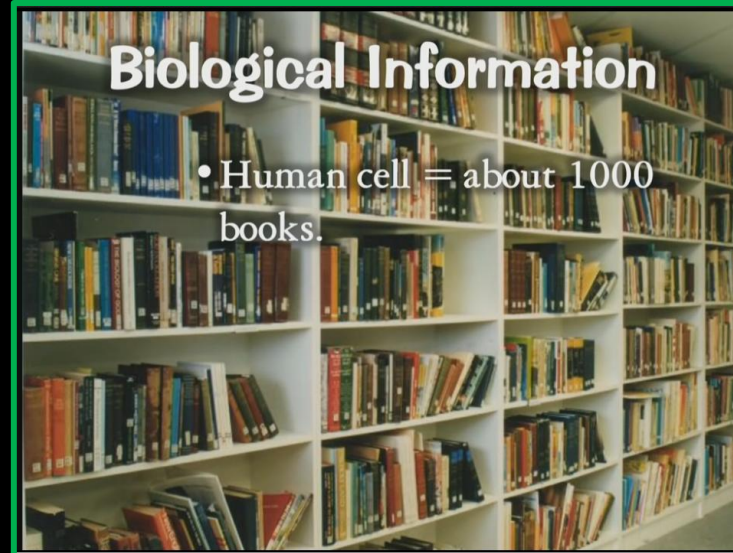
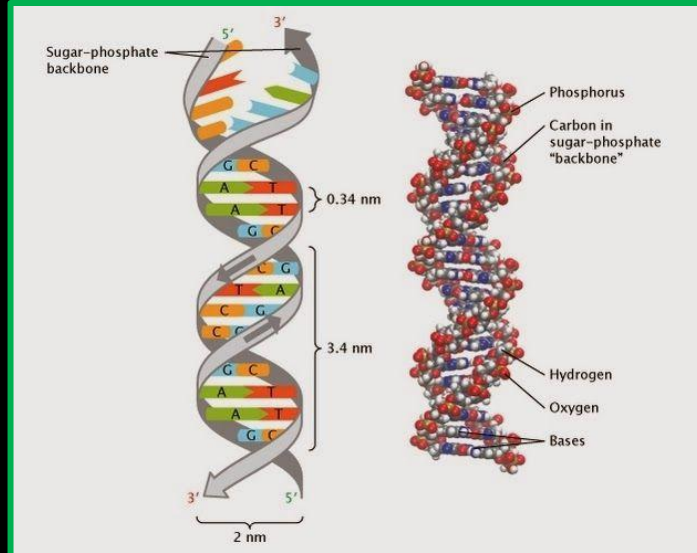
1. Are you a male sperm cell?
2. Are you the same species verified by unique species-specific code verified by lock & key mechanism?
3. Have you been capacitated?

The moment the sperm touches the egg membrane granules between the egg-shell and membrane explode producing enzyme which hardens the egg-shell thus no other sperms can enter.

This highlight summary of the reproductive system though skin depth it show beyond shred of doubt that all its components are fitting together perfectly and working like well lubricated machine towards one purpose: reproduction. This is Intelligent Design. Add to this that all the component, though in two different bodies, must be complete and working properly and none can be missing and none of them has value independent of the rest, this is Irreducible Complexity.



A-ID & IC IN REPRODUCTIVE SYSTEM: INFORMATION IN DNA



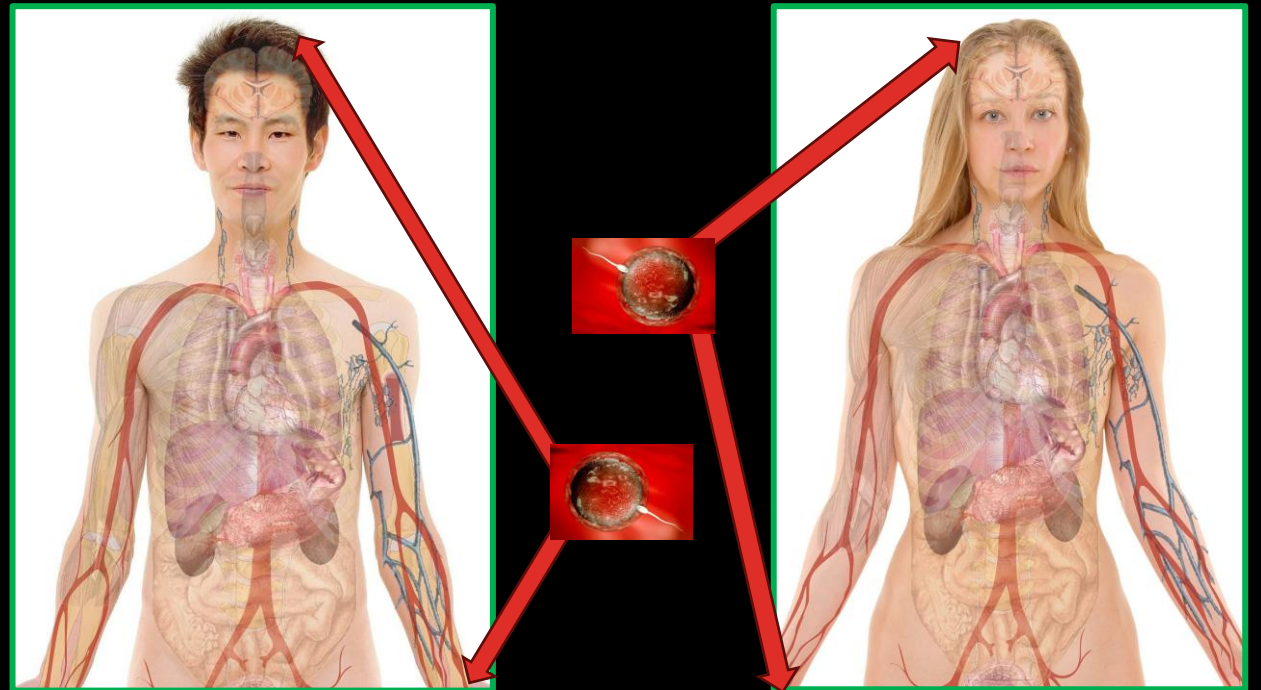
A-A molecule in most cells, 4.6×10^{-12} Gram, $7' \times 0.8 \times 10^{-9}$ Inch, complete instructions of all minute details of all the body for every life stage embryo to last life minutes. It has the formula for thousands of different proteins, which are what builds the body, each is composed of combinations from 20 different amino acids. It defines and conducts actualization, from conception to the last breath, of every single part morphologically & physiologically of the body from the scalp to the smallest toe in cooperation with hundreds of molecular machines.

A-It contains 3×10^9 bits = 1,000 books, It is the instructions, data bank, hard disk, & processor for manufacturing, distributing, auditing, shipping, transporting, ..etc. of millions of biological processes and biochemicals in working with numerous molecular machines. Human body contains in its cells enough data to fill the 170,000,000+ books in the library of the congress.

A-DNA is a double helix. Two strands of sugar and phosphate molecules, are connected by pairs of molecules called bases. A gene consists of a sequence of bases. Sequences of three bases code for an amino acid or other information. The DNA consists of 24 pairs of chromosomes each contains many genes. Ref.: [Genes and Chromosomes](#)

A-ID & IC IN REPRODUCTIVE SYSTEM: INFORMATION IN DNA

A-A human body, or any living body for that matter, consists of distinct 11 organ systems each performs different job and all together maintain life and homeostasis harmoniously. Each of these organs consists of variety of tissues which in turn consists of billions of cells. Each of these billions of cells is shaped morphologically and physiologically to work with all other cells to perform a job of orders of magnitudes of a space shuttle. As a matter of fact, the gap is lightyears apart. However, the blueprint of the whole body down to the cell's level is coded precisely inside each of these trillions of cells themselves by a 6.5 picogram (6.5×10^{-12} gram) molecule. In comparison, space shuttle performs a miniscule fraction of one of these trillions' cells and it, the space shuttle, has its blueprints filling big halls and weighs dozens of tons.

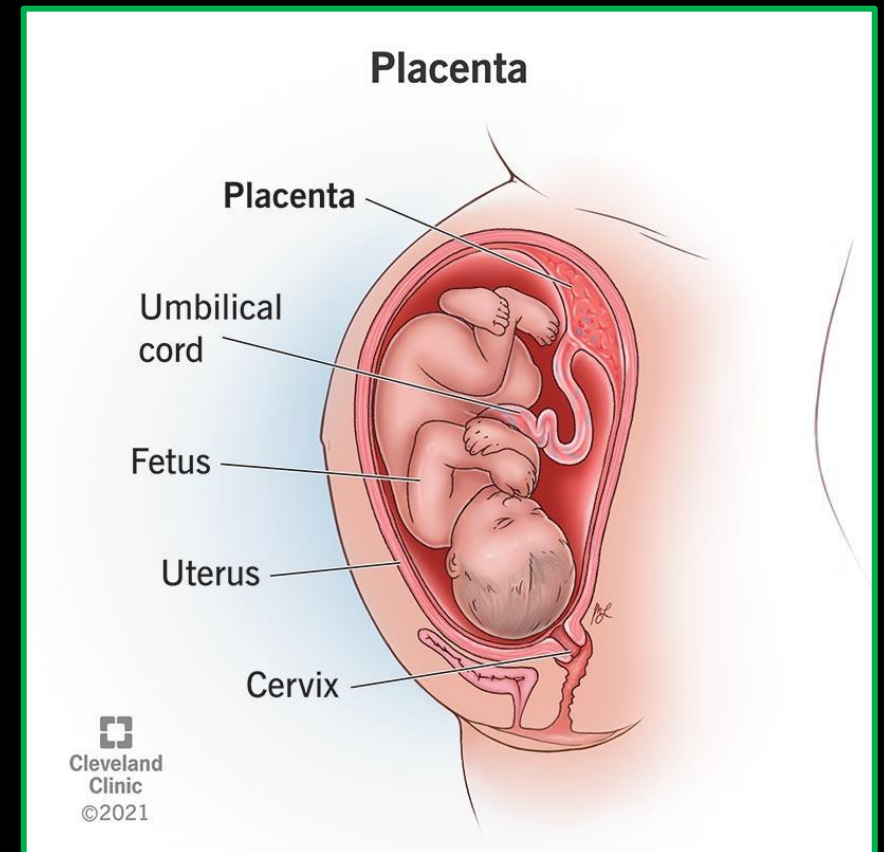


The Reproductive System starts by microscopic fertilized egg and by the end of the gestation period, ~ 40 weeks, a whole body of trillions of cells is formed systematically conducted by the DNA on an amazing precise highly coordinated and precisely purposed schedule for each cell of each tissue of the 11 organs which compose the body whether female or male. This system is beyond shred of doubt is ID & IC.

ID & IC IN THE REPRODUCTIVE SYSTEM: THE PLACENTA

The Placenta is an ingenious way to provide the growing fetus with all his/her needs: nutrition and Oxygen bank, disposal facility, communication, immune, signaling, and a lot more between the fetus and the mother via the circulatory system of both them without mixing their bloods. It is formed right from the beginning of pregnancy when the fertilized ovum attaches itself to the mother's uterus lining. It is a highly coordinated biological function. Amongst the amazing functions of this highly engineered organ, though it is temporary one:

1. Complex exchange system for Nutrients (glucose, amino acids, fats), Oxygen, & waste removal (Carbon dioxide, urea). This resembles engineered filter.
2. Immune function: a)Protects the fetus from many infections. b)Prevents the mother's immune system from attacking the fetus (genetically different). This is a highly specialized and purposeful function.



ID & IC IN THE REPRODUCTIVE SYSTEM: THE PLACENTA

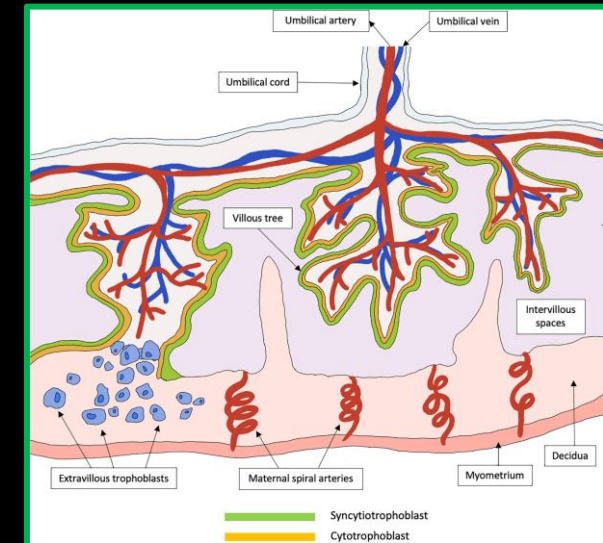
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3. Hormone Production & Regulation, it produces:
- a) hCG (Human Chorionic Gonadotropin) protecting pregnancy,
 - b) Progesterone supporting uterine lining,
 - c) Estrogen regulating growth development.

This precision regulation of hormones is intentional coordination.

4. Structural Adaptability:
- a) Grows with the fetus,
 - b) Adjusts nutrients and hormone transfer depending on needs.
 - c) Anchors securely to the uterine.

The ability to adapt to needs is responsive engineering.



5. Temporary Yet Essential:
- a) Forms during pregnancy,
 - b) Function intensively for ~9 months,
 - c) Is expelled after birth.

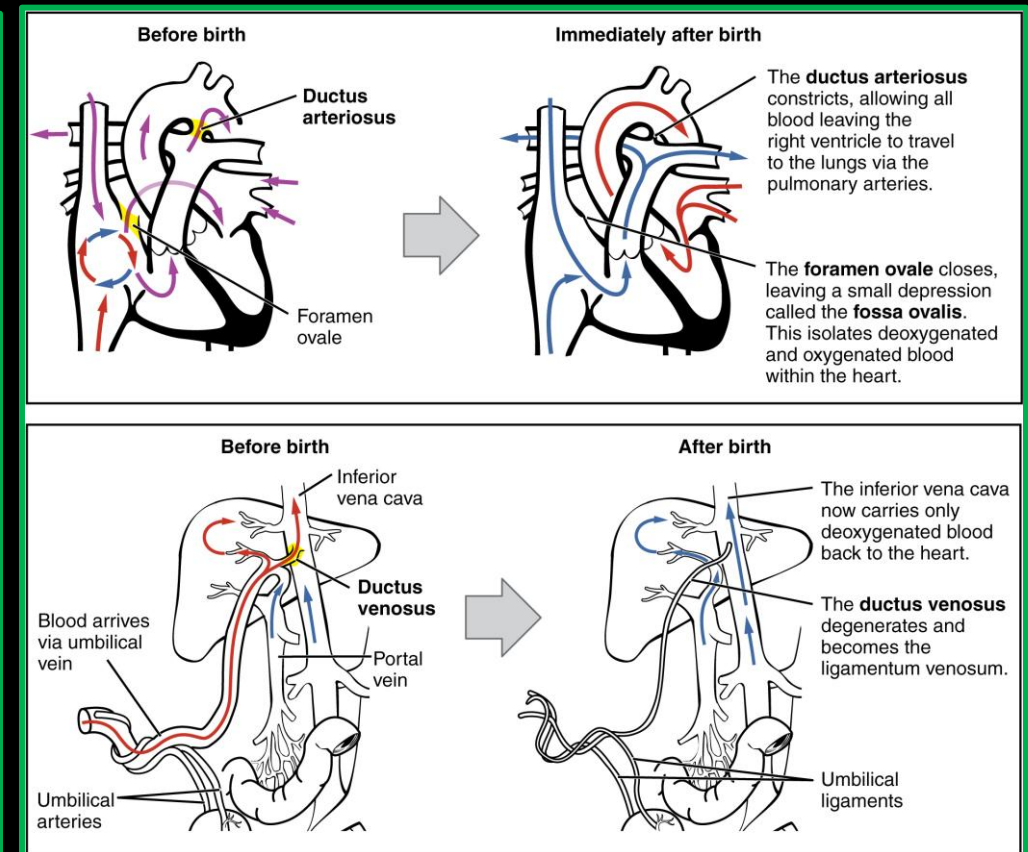
A functional, temporary organ appears “ON DEMAND” is evidence on design, like scuffles during building a structure or dry duck during building ships.

ID & IC IN THE REPRODUCTIVE SYSTEM: ANATOMY BEFORE & AFTER BIRTH

The embryo heart and circulatory system are different before birth than after birth:

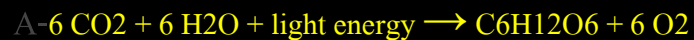
- Because the embryo doesn't breathe there is a shunt hole between the right and left atriums (Foramen Ovalle) and a shunt tube between the Aorta and the Pulmonary Artery (Ductus Arteriosus) to divert 90% of the blood from the lungs. The 10% is quite enough for the lungs' growth.
- Because the embryo gets all his/her nutrients from the mother the digestive tract doesn't supply the liver with any chemicals to regulate and manage, everything comes from the mother regulated already. Because of this the circulatory system contains a shunt across the liver called Ductus Venosus to divert 2/3 of the blood away from the Liver. The 1/3 is quite enough for the liver growth.
- Once the Baby is born the Foramen Ovalle gets closed, the Ductus Arteriosus and Ductus Venosus change to ligaments. All in just seconds. The Ductus Venosus converts to ligament within 2-18 days.

These are changes made autonomously on schedule, a blazing sign of Intelligent Design .

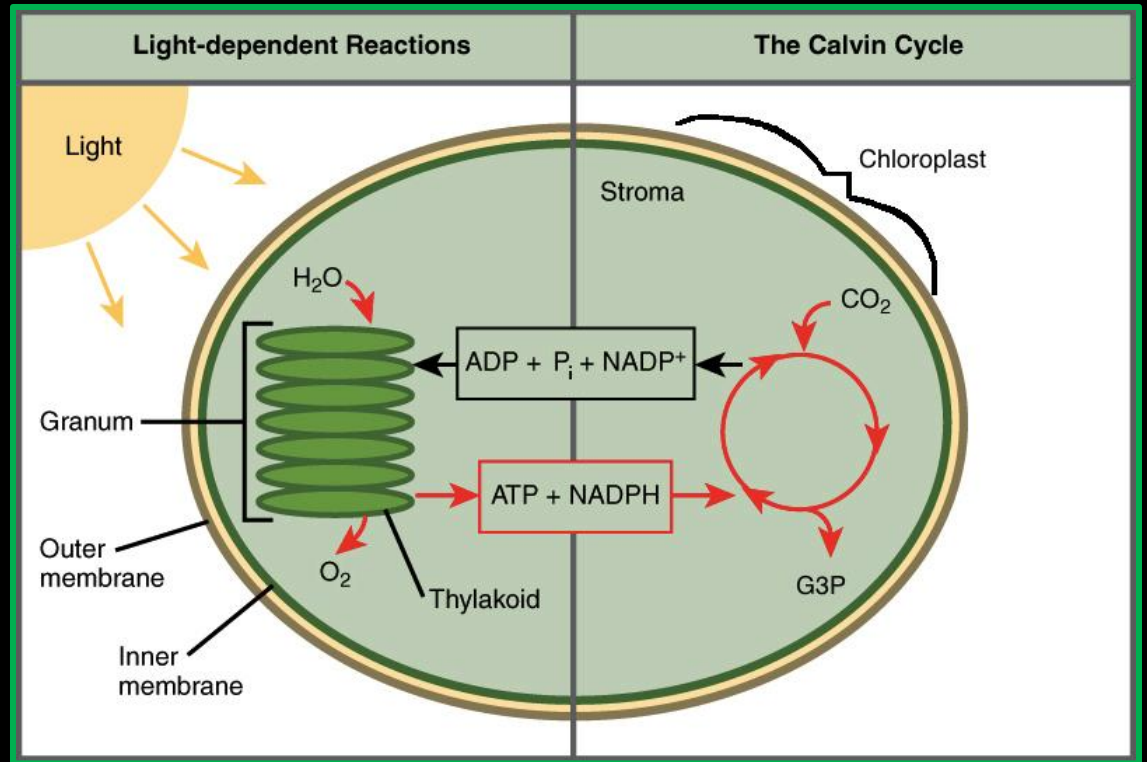


A-ID & IC IN PLANTS: PHOTOSYNTHESIS

A-The plants Photosynthesis is definitely a go/no go factor for life because they consume Carbon Dioxide, CO₂, and produces Oxygen, O₂, and Carbohydrates. On the contrary, animals consume Oxygen and Carbohydrates and produce Carbon Dioxide. This is an ingenious intelligent arrangement because without replenishing the inhaling Oxygen by the animals and exhaling Carbon Dioxide the amount of O₂ will decrease while the amount of CO₂ will increase continuously thus it is just a matter of time when the atmosphere becomes toxic for life. The plants, in contrast, consume CO₂ and produce O₂ and carbohydrates as a bonus. This means, the plants consume what the animal produces and vice versa, which is a perfect symbiotic life-supporting relation. This symbiotic relation is the result of one of the most important faculties of the plants, namely Photosynthesis. In this process the plant absorbs Carbon Dioxide CO₂ and produces Oxygen O₂ plus Glyceraldehyde-3-phosphate which is the Carbohydrates major animal nutrient staple. Photosynthesis is expressed chemically as follows:



A-The carbohydrates are major Nutricia staple and the Oxygen is what we breathe so that our body can produce energy from this carbohydrates to sustain life (breath of life). This process is highly organized, efficient, and purposeful can only be result of Intelligent Design and because it uses several necessary parts of the plants it is also Irreducible Complexity.



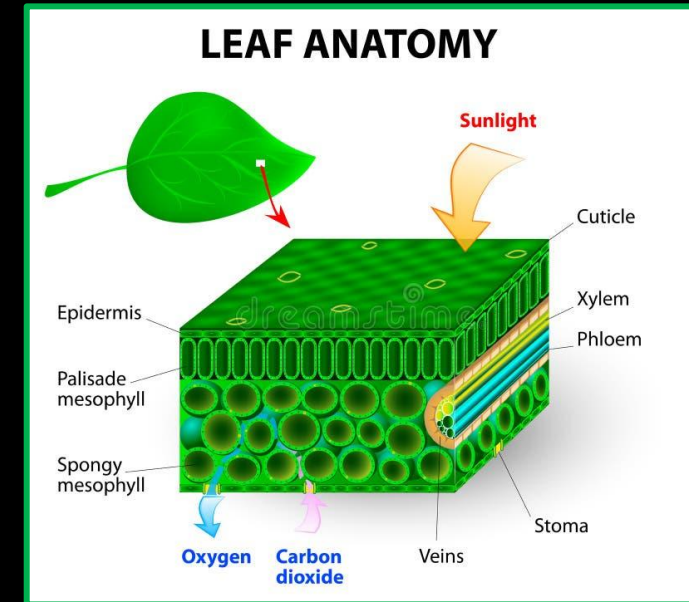
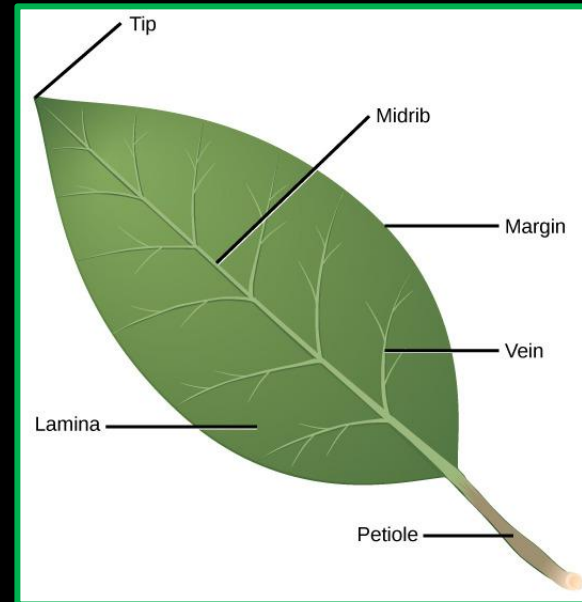
Reference: [The Light-Dependent Reactions of Photosynthesis](#)

ID & IC IN PLANTS: LEAF STRUCTURE AND FUNCTION

The plant leaves anatomy is very intricate to support the its physiology, mainly Photosynthesis:

- Shaped to maximize sunlight exposure by large area and capability to tilt to face it.
- Tiny opening to absorb CO₂ and discharge O₂ and plenty of chlorophyll and veins to deliver water & nutrients.
- The tree recaptures the mobilizable valuables from the leaf during fall and save them in the trunks, branches and root to have them ready in spring to relief itself.
- The plant enable falling of the drained leaves which disintegrate into fertilizer feeding the tree back.

This is a bird's eye view of the plant leaf structure. This structure is organized, efficient, and purposeful can only be result of Intelligent Design and because it uses several necessary parts of the plants it is also Irreducible Complexity.



ID & IC IN PLANTS: ROOT SYSTEMS – ABSORPTION AND STABILITY

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- The roots anchor the plant in the soil and water and minerals to maintain and grow the plant.
- They go deep enough to reach water tables to survive rocky dry areas. Some thrive in wetlands like River Birch.
- Some trees' roots intertwine to provide better stability.
- Some trees like Oaks and Douglas firs communicate and warn neighbors of insects or fungus through fungal networks or airborne chemicals.

There are a lot more intricate faculties and functions the plant roots boost. These capabilities are highly organized, efficient, and purposeful can only be result of Intelligent Design and because it uses several necessary parts of the plants it is also Irreducible Complexity.

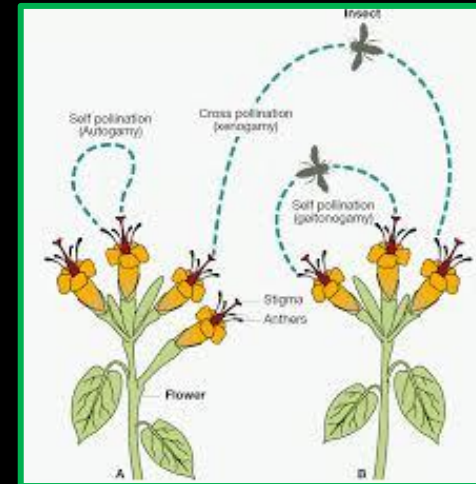


ID & IC IN PLANTS: REPRODUCTION AND POLLINATION

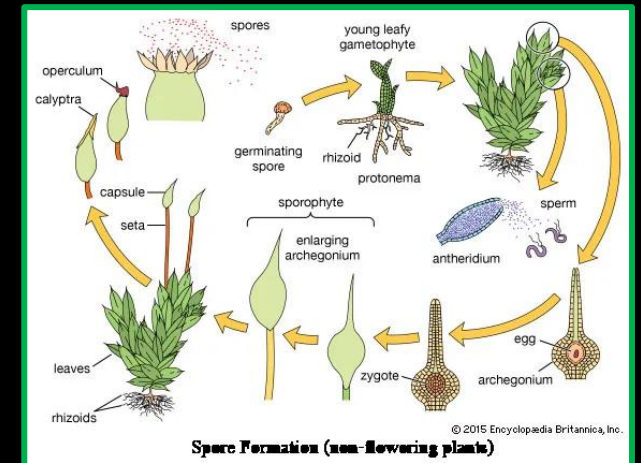
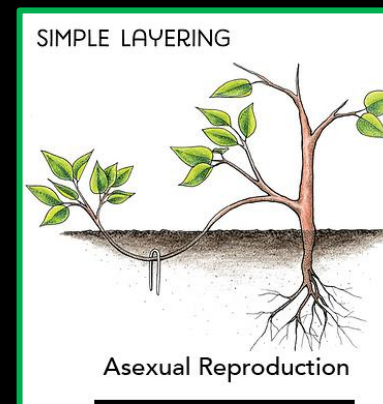
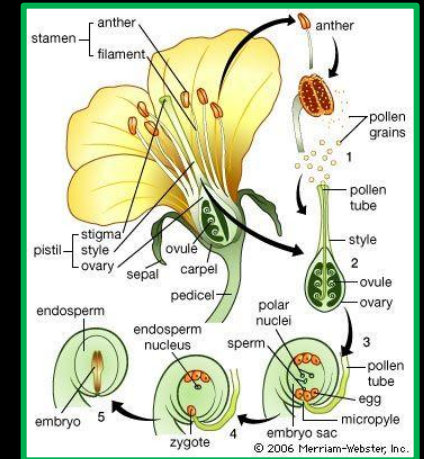
Reproductive system is undisputable one of the biggest differences between living organisms and inert matter.

- Sexual reproductions as in flowering plants: It produces a new organism by combining DNA from female and another from male, called pollination via bees, butterflies, & wind. Self pollination (same flower) or cross-pollination (different plants). Results in genetic variation helps plants to adapt. Produces seeds often inside fruits.
- Asexual/Vegetive reproduction. The plant colons itself as strawberry or potato.
- Spore Formation (non-flowering plants). The plant produce tiny, single-celled reproductive units produced by fungi, bacteria, algae, and non-flowering plants (like ferns).

There are quite different ways the different plants use for reproduction each one is very efficient, purposeful, and fits the plant structure and environment. Each plant Reproductive system anatomy is very intricate and reflects Intelligent Design with all the parts fit perfect together and must be existing to perform the reproduction therefore the Reproductive system anatomy is Irreducible Complexity too.



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ID & IC OF THE PLANTS GROWTH

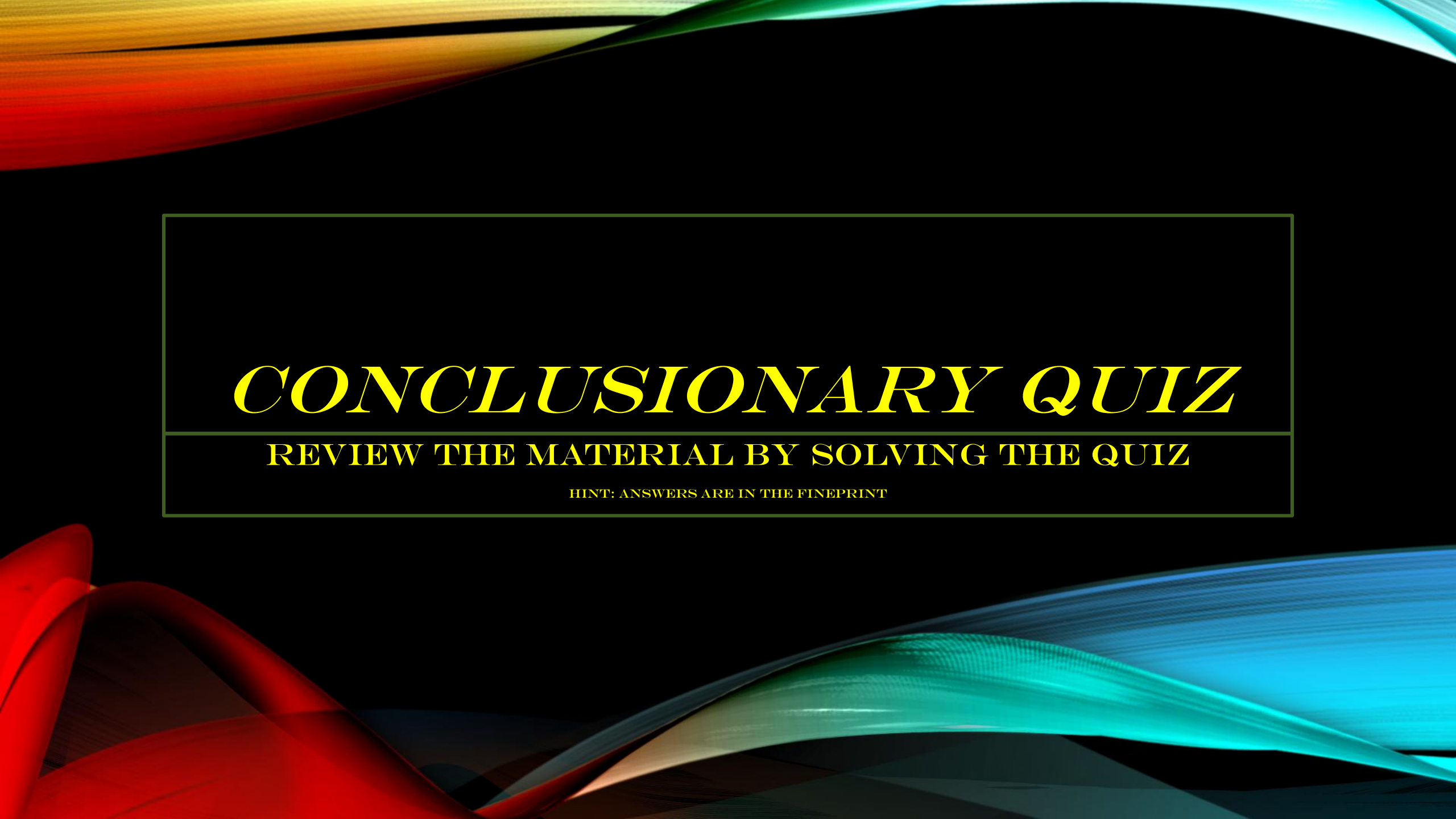
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This is just a simple example of one of countless Ingenious, Purposeful and Irreducibly Complex Design aspects of the Plant World. A seed no more than 10^{-5} LB when buried in mud and left alone it becomes some 300 feet tall and weighs many tons just from dust, water, air, and sunlight. The seed, as tiny as it is, has sensors for humidity, temperature, season,.. so, at the right conditions it germinates and starts roots downwards and stem upwards, otherwise it will stay put.

There are lot more amazing features in the plant world like the way they suck water from ground or use water and sunlight to convert our Exhaled Carbon Dioxide into Oxygen for us to Inhale and Carbohydrates to Eat. A FLUKE? OR HALLMARK OF INGENIOUS, PURPOSEFUL, AND IRREDUCIBLE COMPLEXITY DESIGN. DESIGN COMES ONLY FROM DESIGNER.



The Seed Is A Full Embryo. It Has Full Set Of Receptors For The Right Conditions To Germinate At The Right Temperature, Moisture, Oxygen, It Has Within The Right Nourishment For A Head On Germination. It Has The Complete Genome/DNA To Grow A Full Tree Of Billions/Trillions Of Living Cells. [Picture.](#)



CONCLUSIONARY QUIZ

REVIEW THE MATERIAL BY SOLVING THE QUIZ

HINT: ANSWERS ARE IN THE FINEPRINT

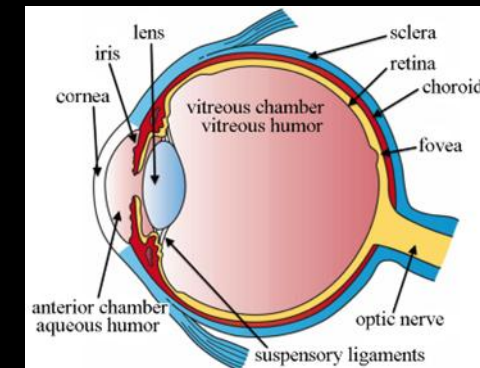
1. What are the major 20th Century scientific discoveries that caused 180 degrees shift in many scientists? and why?
2. What are the major 2 scientific instruments that ushered the new 20th discoveries?
3. Why the universe expansion shock Albert Einstein?
4. What are the probabilities of spontaneous creation of a)typical protein, b)enzymes, c)living cell?
5. Did America's founder believe in ID?
6. what causes young people to believe evolution?
7. Why is the ID important to Creationists? How do the evolutionists defend against it?
8. How is design identified/defined?
9. Why is the human ear (or any member in living creature) is ID?
10. Why is the living cell is ID?

11. Give couple examples of the molecular machines in the living cell and their role in living.
12. What is the DNA and its role in living?
13. What breaks down Darwin evolution per Darwin himself? And who took the challenge?
14. What is the IC? And why is it important to the Creationists? Why the IC disprove the evolution story?
15. Why is the human ear, or any member of living creature, is both ID & IC?
16. What is the Anthropic Principle and why it shows that the universe is both ID & IC? Give couple parameters.
17. How did Fred Hoyle stumble across Anthropic Principle, why Carbon C^{12}_6 is important to life?
18. Darwin wrote “If it could be demonstrated that any complex organ existed, which could not possibly have been formed bys, s....., s..... modifications, my theory would absolutely break down,” please fill in the blanks.
19. Why the DNA and the molecular machines can be considered like the (chicken & egg)?
20. Explain why the eye components resemble ID & IC.
21. Why the living cell is not only ID but also IC?

22. Discuss the advantages of our Solar System in the Milky Way Galaxy.
23. List some of the factors which are conducing to good intelligent observers, us.
24. Discuss why the Planet Earth is ID & IC for Observers (us).
25. Discuss why the Carbon C^{12}_6 importance of for Life Biochemistry.
26. Consider one of the human body's organ systems and discuss its ID & IC.
27. What caused living cell to live according to Michael Denton?
28. What is amazing about the Electromagnetic Spectrum of the atmosphere and the water?
29. Why is the Electromagnetic Spectrum of the atmosphere and the water being perfect for vision & what change on the eye size if the visible band was higher or lower on the curve?

30. Give 10 reasons why the Reproductive System of human is ID & IC.(30)
31. How does the Reproductive System ensure that the ovum can be penetrated only by one right strong and incapacitated male sperm?
32. what is the role of the DNA in pregnancy?
33. Explain briefly why the DNA is ID?
34. Why the organ systems in a creature are ID & IC and the creature itself is ID & IC?
35. What is amazing about the placenta and briefly list its functions.
36. What are the changes in the baby circulating system from pre-born
37. Why are the changes in the baby circulating system from pre-born to after born are ID?
38. Discuss the importance of the Plants Photosynthesis & why it is ID & IC?
39. What is amazing about the plant leaves? Why they are ID?
40. How do some trees talk?
41. List the different kinds of plant reproductive kinds.
42. Why are the plant seeds ID and their contents being IC?

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| 1. Slide #7 | 12. Slide #18, 29 | 24. 24 Slide 30 | 35. Slide #44,45 |
| 2. Slide #7 | 13. Slide #22 | 25. Slide #29 | 36. Slide #46 |
| 3. Slide #9 | 14. Slide 23 | 26. Slides 32,34
as guide. | 37. Slide #46 |
| 4. Slide #12 | 15. Slide #24 | 27. Slide #34 | 38. Slide #47 |
| 5. Slide #14 | 16. Slide #25 | 28. Slide #35 | 39. Slide #48 |
| 6. Slide #15 | 17. Slide 29, 7 | 29. Slide 36 | 40. Slide #49 |
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| 8. Slide #16 | 19. Slide #21 | 31. Slide #41 | 42. Slide #51 |
| 9. Slide #17 | 20. See picture & * | 32. Slide #32 | |
| 10. Slide #12, 18,
19, 20, 21 | 21. Slide #26 | 33. Slide #42 | |
| 11. 19, 20, 21 | 22. Slid #27, 28 | 34. Slide #43 | |
| | 23. Slide #30 | | |



*)See eye picture above. Cornea protects, aqueous humor deflects the light partially, vitreous humor supports the shape, sclera protects and anchors the muscles, choroid supplies blood, retina converts light to brain impulses, optic nerve transmits the brain impulses to the brain. Amazing ID and if one part is missing the eye won't see so it is also IC.