

CSE-103 Class 1 Notes

Lies in the textbooks
Molecular biology
tiny life-study of

If a grain/cube of salt was expanded to the size of the sears tower 1200ft a molecule of that cube would be the size of the original cube of salt

DNA offers evidence of evolution
Greater the sequence the greater the similarity

"Darwin guessed and now we know its true"
2 ford cars - lots of similar parts
common designer not common ancestor

ladder 1200 miles long twisted in a spiral
gene's were the runs of the ladder
50 trillion cells in the body
women's egg is the only visible cell
inside a cell is the nucleus
inside the nucleus is the DNA

James Watson & Francis Crick 1959 discovered DNA
unwrap one length of DNA it would be 6 ft long
1 chromosome = 1 DNA molecule
46 chromosomes in each cell
gametes (sperm, egg) have 23 chromosomes
take all of the DNA out of each of the 50 trillion cells it would fill 2 tablespoons
1 strand from each person in the world - 6 billion chromosomes
enough to reproduce every person in the world
size of an aspirin
 $6\text{-}7\text{ft} \times 45 \times 50,000,000,000 = 5$ million times around the moon

cut ladder in half while twisted up
join with other half of ladder from spouse and twist back up

DNA contains more information than every computer program ever written

Take a windows disk, copy it, make a copy of a copy, then a copy of that copy, and on and on
how long till the disk does not work?
We are a copy of a copy of a copy of a copy of Adam
The original code must have been pretty good

DNA has 4 base pairs
A is for adenine
G is for guanine
C is for cytosine
T is for thymine
take a cluster of molecules and assign it a base pair

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there are 4 kinds of cars - truck, van, car, bus
each pair is still very complicated
how many ways can you cause a car to not run - thousands
one bad O ring caused a space shuttle to blow up
how much information is needed to grow 1 hair
arm hair short, head hair keeps growing

each cell has 48 chromosomes - each split - copy its self - re-wrap up - cell divides
makes 15,000 new cells per minute for 9 months
each cell is more complicated than a space shuttle
how would you like to work in a factory that produces 15,000 space shuttles each minute
assembly line can create 250 cars per one 8 hour day
thats a new truck every 1 min 45 seconds

odds that DNA would occur by chance 1×10^{119000}
observable universe is 15 to 20 billion light years across
1 light year = 5.87849981 Å— 10¹² miles
universe is 1028 inches across

fill the entire solar system with Penney's
paint one red
give a blind person one chance to pick out that one red penny

doubling of chromosomes does not produce better product
just a replication of the existing code not anything new

Scientists line up DNA strands and look for similar segments
take an English sentence
change a few letters - sentence gets different meaning
all books are written with the same 26 letters
everything has to have the same code for the body to process other substances
green grass eaten by the brown cow turned into white milk churned to orange cheese eaten and
broken down to make proteins your body needs.

If you understand how a machine works that does not mean it did not have a designer
cars, pens
you learn by studying systems
fuel system, electrical system, break system,
circulatory system, nervous system,
1 small thing can break the entire system - one small disconnection in spine causes entire nervous
system to not work

Darwin said there would need to be unlimited number of intermediate stages
bones in the dirt don't prove anything. You don't even know where it died only where it was buried.
New variation has to live each time and be better than the original
reason for the change is a change in environment
billions of stages - billions of changes to environment

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dogs only produce dogs through out all human history
why would they be doing something in the past that they can not do today
give a dog breeder 50 muts and they can reproduce every dog in the world in 100 years

Colin Patterson, British Museum National History - largest collection of fossils in world
wrote book on evolution and missing links but did not name any
when asked why not he wrote back

"I fully agree with your comments on the lack of direct illustration of evolutionary transitions in my book. If I knew of any, fossil or living, I would certainly have included them. . . I will lay it on the line, There is not one such fossil for which one might make a watertight argument."

evolution does not need to hold up in court it just needs to convince children

THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG

if someone knows nothing about English will look at this sentence and assign a code to it
there are square letters H

there are round letters Q

there are letters round on top and square on bottom R

there are letters square on top and round on bottom U

they can assign the following code to the sentence

HHHQUHQRQHHRHHQHUUHRQQHRRHHHHHHHQQQ

how many other sentences can fit that same code yet have nothing to do with the sentence

each department of science thinks the other department has the evidence for evolution

Romans 1:28

And even as they did not like to retain God in their knowledge, God gave them over to a reprobate mind, to do those things which are not convenient;

the watch is proof of the watch maker, painting proof of a painter, creation proof of a creator
you will never meet the watch maker you have to believe they exist.