

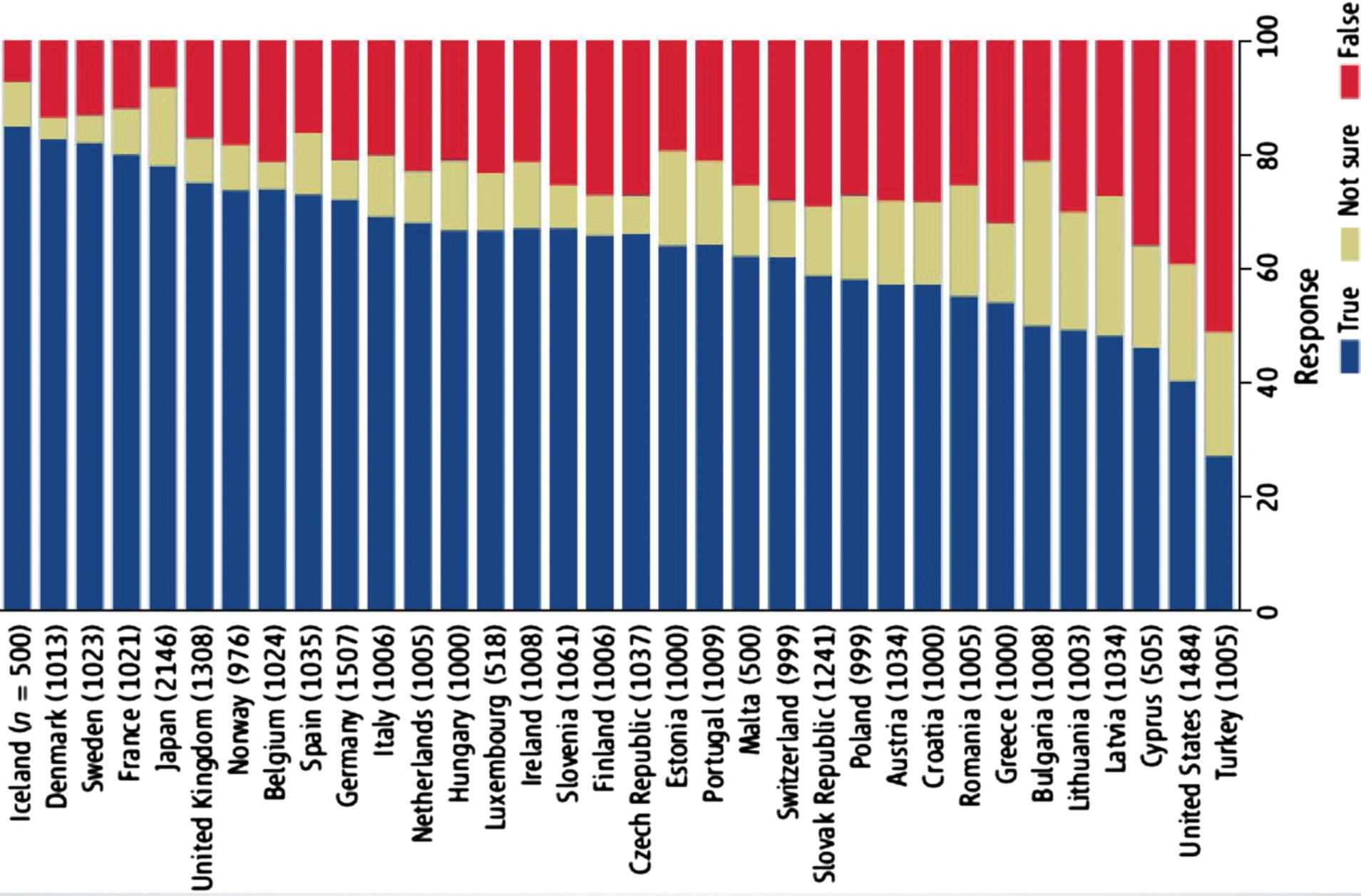
Intelligent Design Ideology



Should We Care?

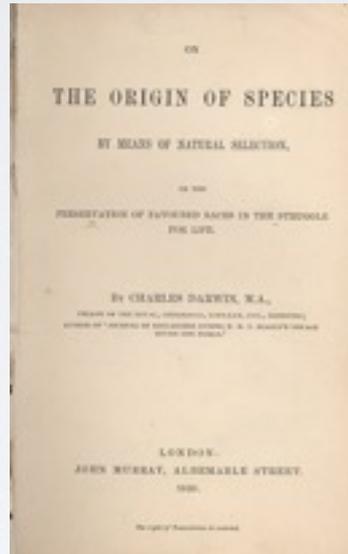
HUMAN BEINGS,
AS WE KNOW THEM,
DEVELOPED FROM EARLIER
SPECIES OF ANIMALS

true or false

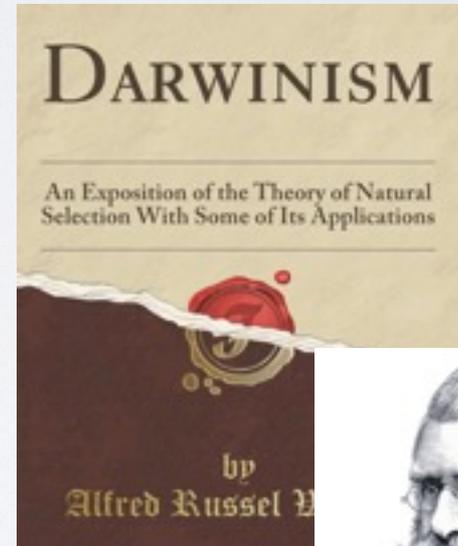


Charles Darwin (1809 - 1882)

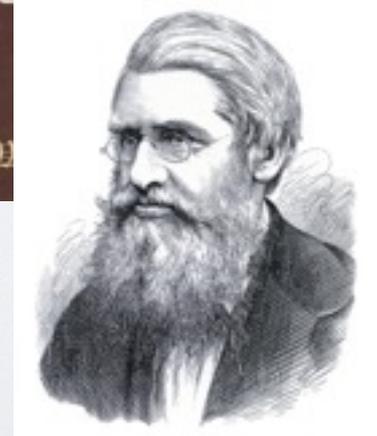
Alfred R. Wallace (1823 - 1913)



Selection alone could not do the job,
because we humans are fundamentally
different from all other organisms.
M. Ruse. The Evolution Wars

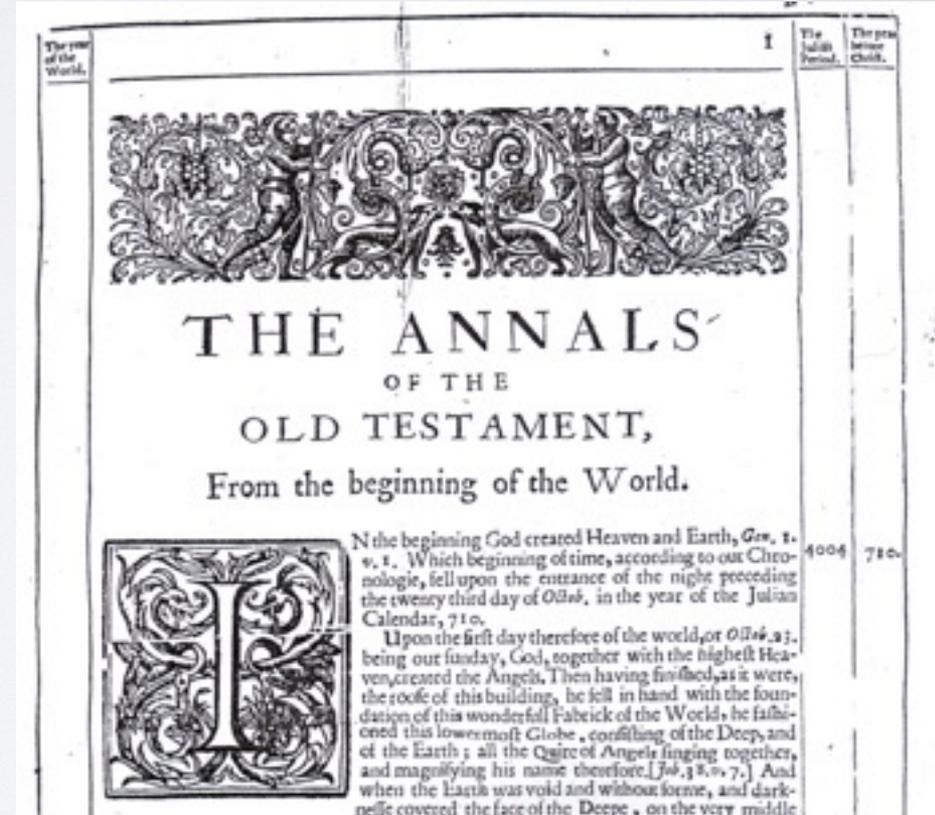


1889



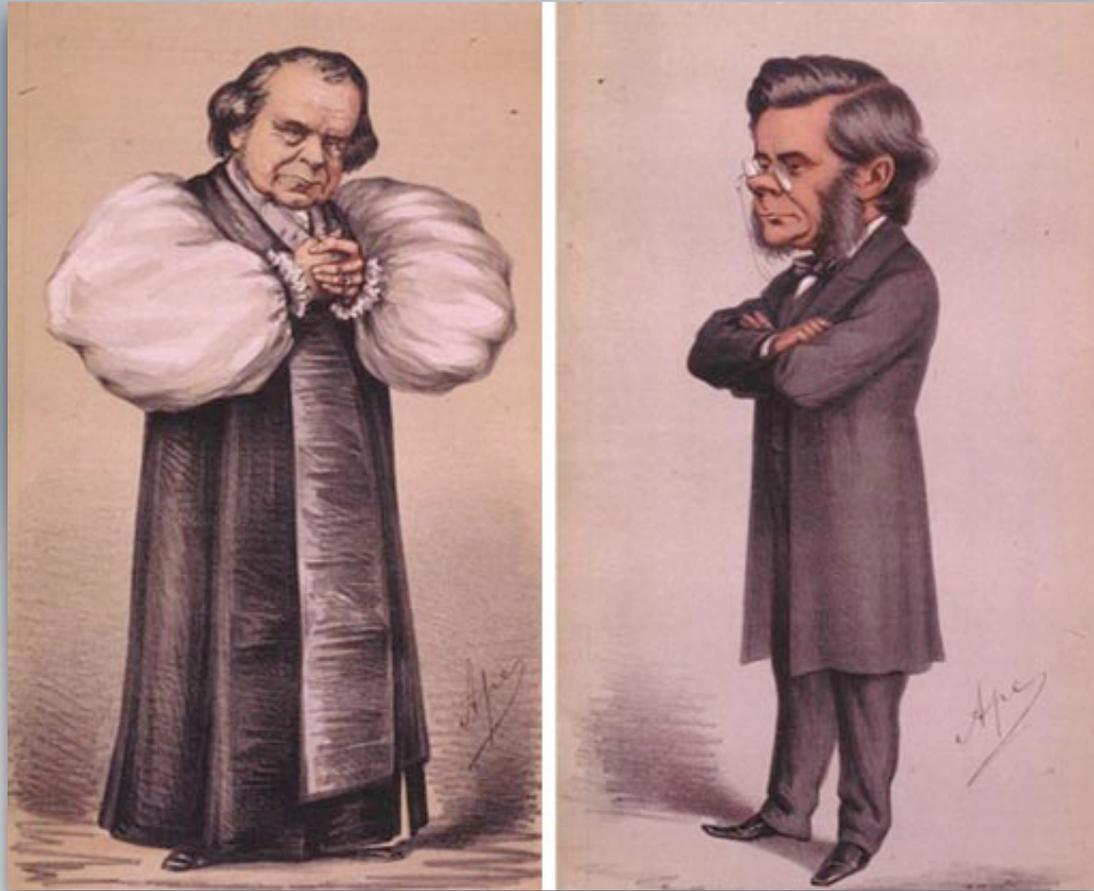
THE BACKGROUND BEFORE DARWIN

- William Paley (1802, *Natural Theology*) formulates the watchmaker analogy for God's existence.
- Archbishop Ussher calculated that the Earth was created on October 23, 4004 B.C.



Wilberforce-Huxley Debate

It took place at the Oxford University Museum on 30 June 1860

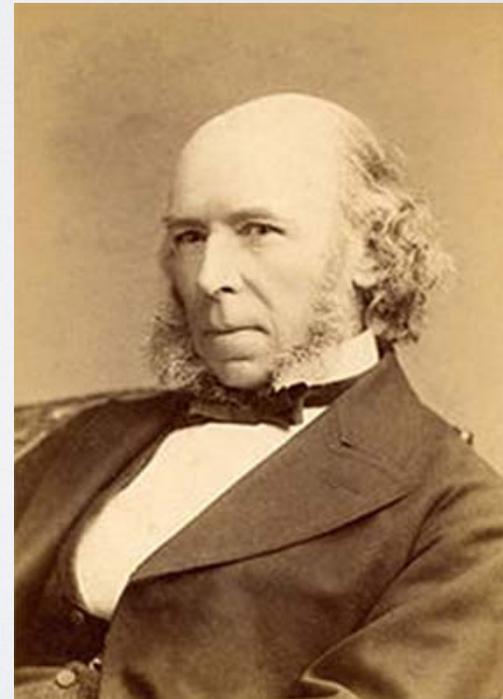


<https://www.youtube.com/watch?v=cXq8LZ3b2YQ>

Those who cavalierly reject the Theory of Evolution, as not adequately supported by facts, seem quite to forget that their own theory is supported by no facts at all.

Herbert Spencer

Essays Scientific, Political and Speculative, 1891



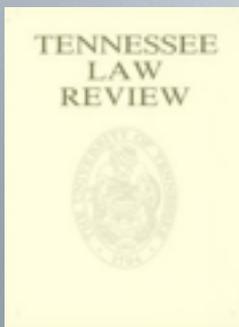
THE MONKEY (SCOPES) TRIAL



Documentary: <https://www.youtube.com/watch?v=2m0e00NNy5I>

Fiction: <https://www.youtube.com/watch?v=-Cv9kRlnjdE> (*Inherit the Wind*, 1960)





THE SCOPES TRIAL

A little background - Butler Act

The law, "AN ACT prohibiting the teaching of the Evolution Theory in all the Universities, and all other public schools of Tennessee, which are supported in whole or in part by the public school funds of the State, and to provide penalties for the violations thereof" (Tenn. HB 185, 1925)

American Civil Liberties Union decided to challenge this act. It persuaded John T. Scopes to defy Tennessee's anti-evolution law in a court test.

The law remained on the books until 1967, when teacher Gary L. Scott of Jacksboro TN, dismissed for violation of the act, sued for reinstatement, citing his First Amendment right to free speech.



THE MONKEY (SCOPES) TRIAL

The State of Tennessee versus Scopes

Prosecution

William J. Bryan



Defense

Clarence Darrow



Place: Dayton, Tennessee
Defendant: John T. Scopes
Judge: John T. Raulston
Time: July 10 to 21, 1925
Verdict: Guilty of breaking the Butler Act
Sentence: \$100
Verdict appealed and never brought
back to court



OTHER (IN)FAMOUS CASES

- *Epperson v. Arkansas* - 1968
- *Willoughby v. Stever* - 1973 (NSF and Colorado)
- *Daniel v. Waters* - 1975 (Tennessee)
- *Hendren v. Campbell* - 1977 (Indiana)
- *McLean v. Arkansas* - 1981
- *Edwards v. Aguillard* - 1987 (Louisiana)
- *Kitzmiller v. Dover Area School District* - 2005

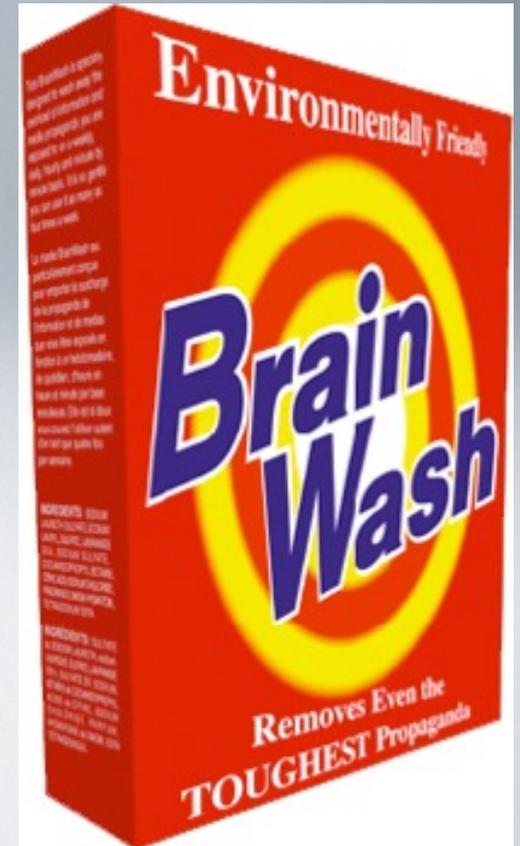
IS IT REALLY OUR PROBLEM?

Creationism in Germany and its Possible Cause

Kutschera, U. *Evo Edu Outreach* (2008) 1: 84.

Abstract

In a widely cited essay published in the journal *Science* (Aug. 2006), it was stated that in Germany a large majority of adults are convinced of evolution. Based on a new poll, I document that this conclusion is questionable. In Sept. 2005, 60.9% of the German population accepted naturalistic evolution, whereas 37.7% were creationists or adherents of intelligent design. Because among Christians of both confessions the percentage of anti-evolutionists is much larger than among atheists, I suggest that religious indoctrination of children may in part be responsible for the rejection of the concept of evolution, notably in the western part of Germany.



IS IT REALLY OUR PROBLEM?



<http://www.wort-und-wissen.de/>

DOES IT MATTER TO ME?



makalowski and intelligent design

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FAQ: Wouldn't intelligent design theory be the end of ...

www.ideacenter.org/contentmgr/showdetails.php/id/1181 ▾

Some have claimed that **intelligent design** would mean the end of science because research (Sternberg, 2002; Wells, 2004; **Makalowski**, 2003; Gibbs, 2003);

"Find a Fact" That Supports Intelligent Design - Evolution ...

www.evolutionnews.org/.../helping_students_a... ▾ Evolution News & Views ▾

by C Luskin - [Related articles](#)

Apr 22, 2009 - These students wanted to find facts supporting **intelligent design**, ... research (Sternberg, 2002; Wells, 2004; **Makalowski**, 2003; Gibbs, 2003);.

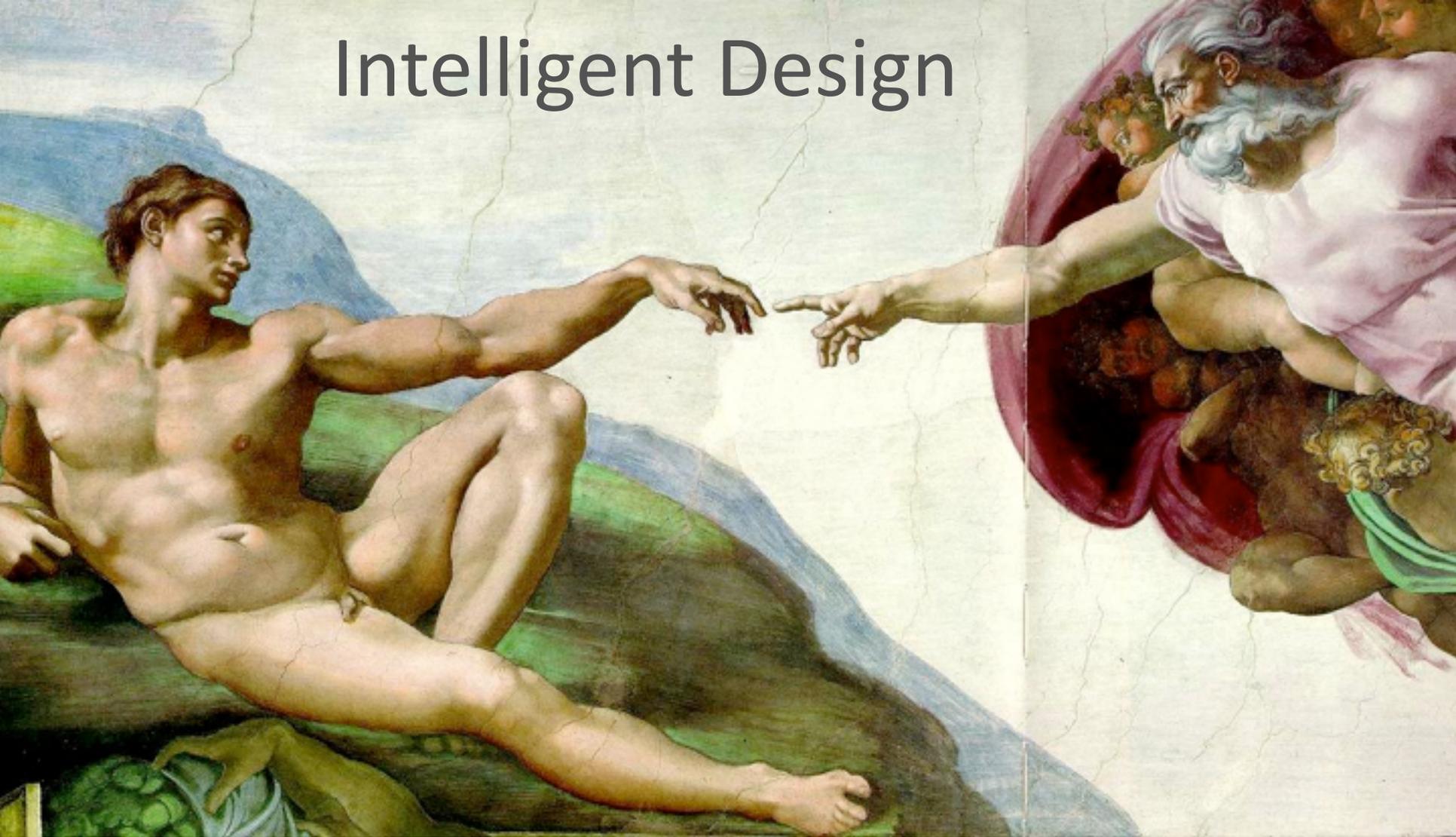
Junk DNA RoundUp (and Rebuttal): How Neo-Darwinism ...

www.evolutionnews.org/.../junk_dna_roundup... ▾ Evolution News & Views ▾

Jun 5, 2009 - WHAT IS **INTELLIGENT DESIGN**? SUBSCRIBE DONATE ... (Wojciech **Makalowski**, "Not Junk After All," Science, Vol. 300(5623):1246-1247 ...



Intelligent Design



Intelligent Design (ID) holds that certain features of the universe and of living things are best explained by an intelligent cause, not an undirected process such as natural selection.

EVOLUTION SHOULD NOT BE
TAUGHT IN OUR SCHOOLS!



BECAUSE IT'S JUST
A THEORY!



BUT ISN'T ALL OF SCIENCE
"JUST A THEORY"?



WELL... THAT WILL LEAVE A
LOT MORE TIME FOR GYM



Evolution is just a scientific theory

In 1980 during his presidential campaign Ronald Reagan referred to evolution: "Well, it is a theory, a scientific theory only ..."

Reagan was right, theory of evolution is a scientific theory with all its consequences

Is the Earth round?

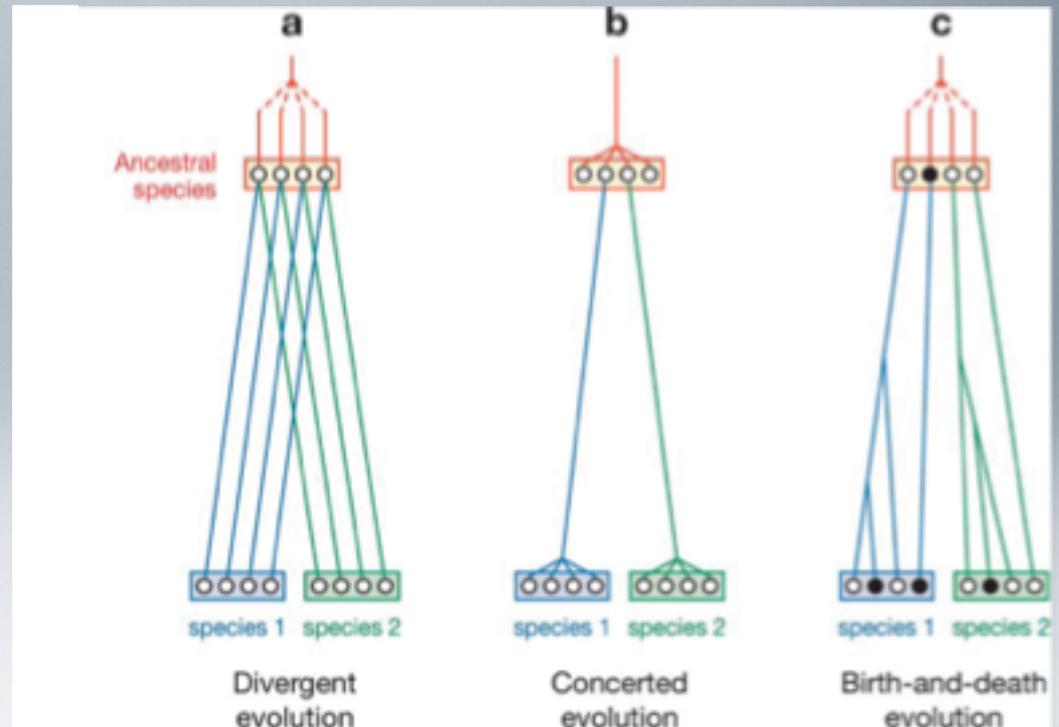
- Why we all agree with the proposition that Earth is spheroid? We accept this fact despite that most of us didn't go that high to see the whole Earth from space.
- Around 240 BC Eratosthenes proved that fact and calculated Earth's circumference with 1% error precision!
- Flat Earth Society <http://theflatearthsociety.org/>

"The society is dedicated to unraveling the true mysteries of the universe and demonstrating that the Earth is flat and that Round Earth doctrine is little more than an elaborate hoax."



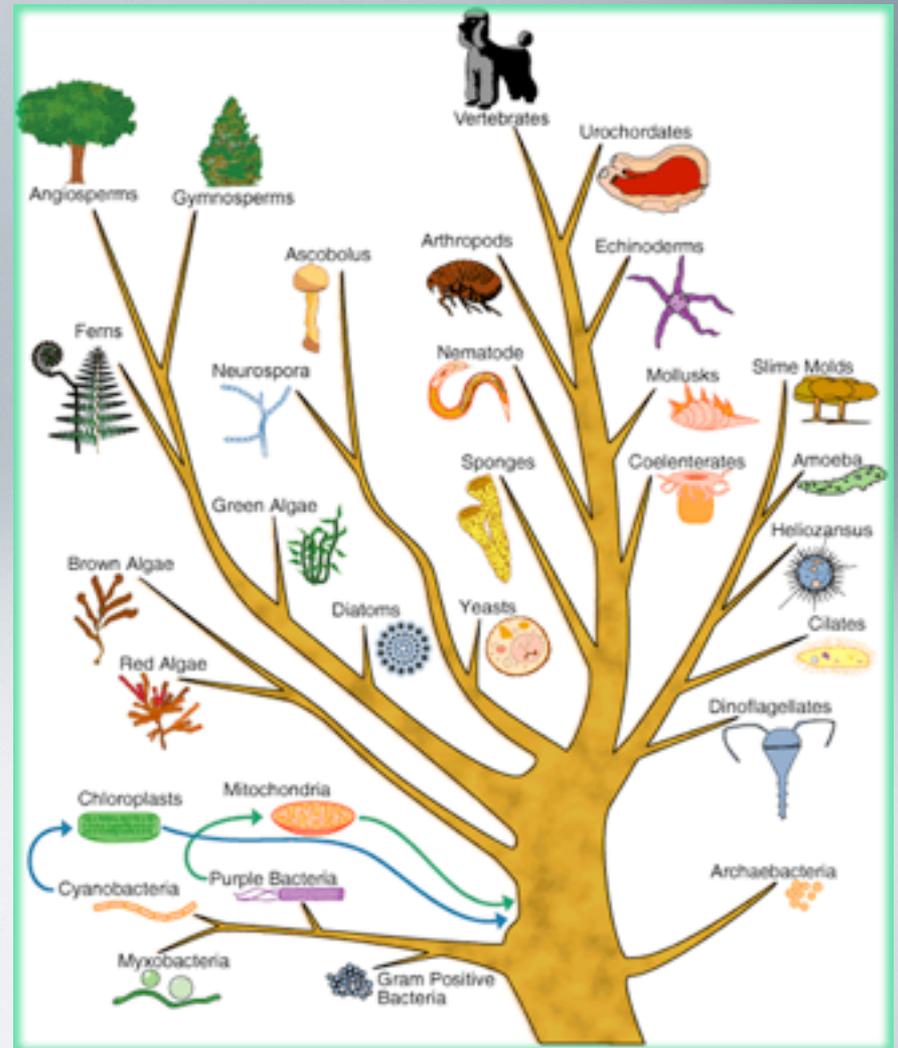
Two aspects of theory of evolution

- Descent of all living organisms from a common ancestor
- Mechanisms of evolution



Common Ancestry

ID supporters argue that what happened in the past is not verifiable and cannot be observed. In short *nobody has seen an evolution!*



SPECIATION “AS WE SPEAK”

- The mosquito was introduced to the London Underground during its construction around 1900.
- It became infamous in the War for attacking people sheltering from the Blitz.
- Studies indicate several genetic differences from its above-ground ancestors. Interbreeding between populations is difficult suggesting that speciation may be occurring.

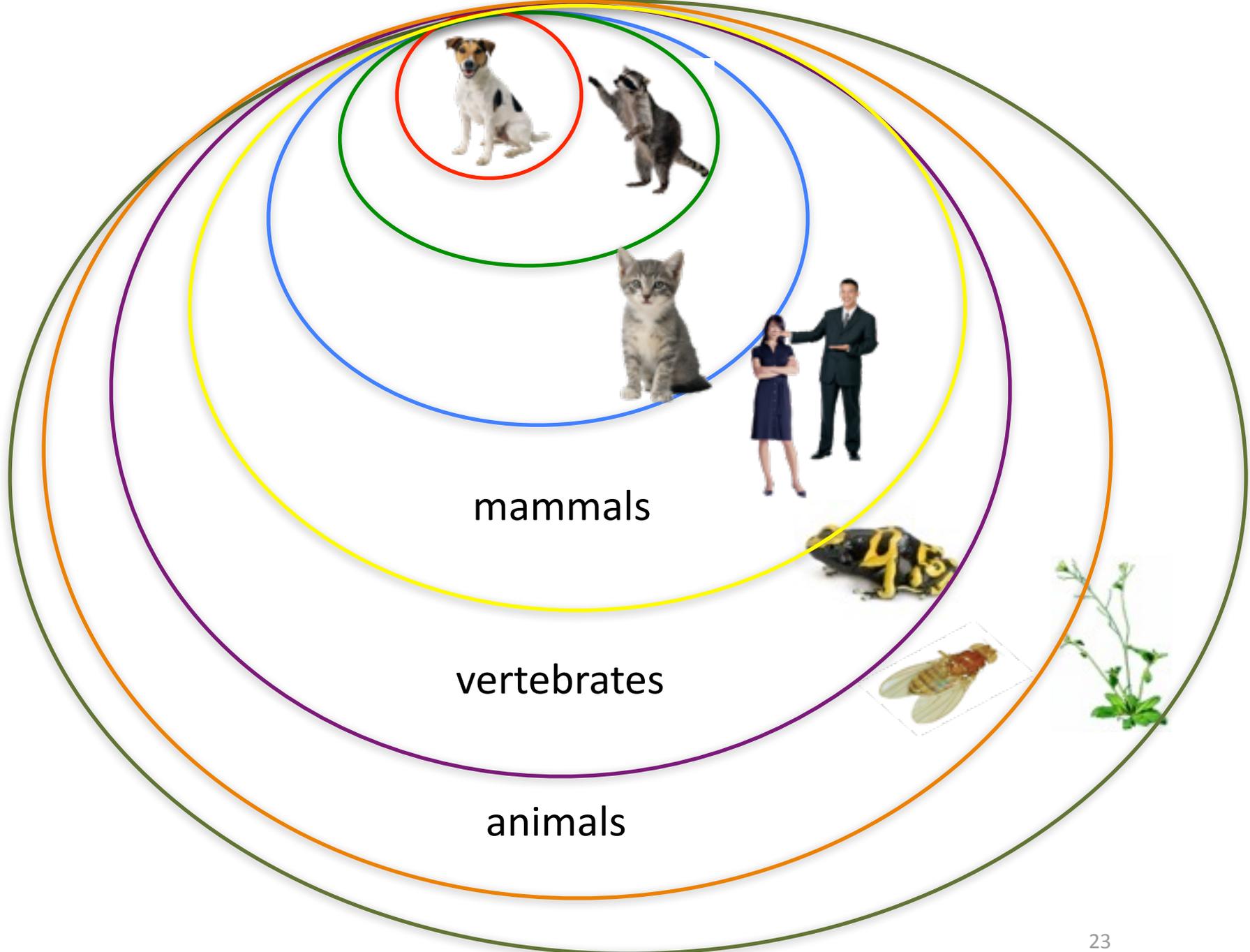


London Underground Mosquito

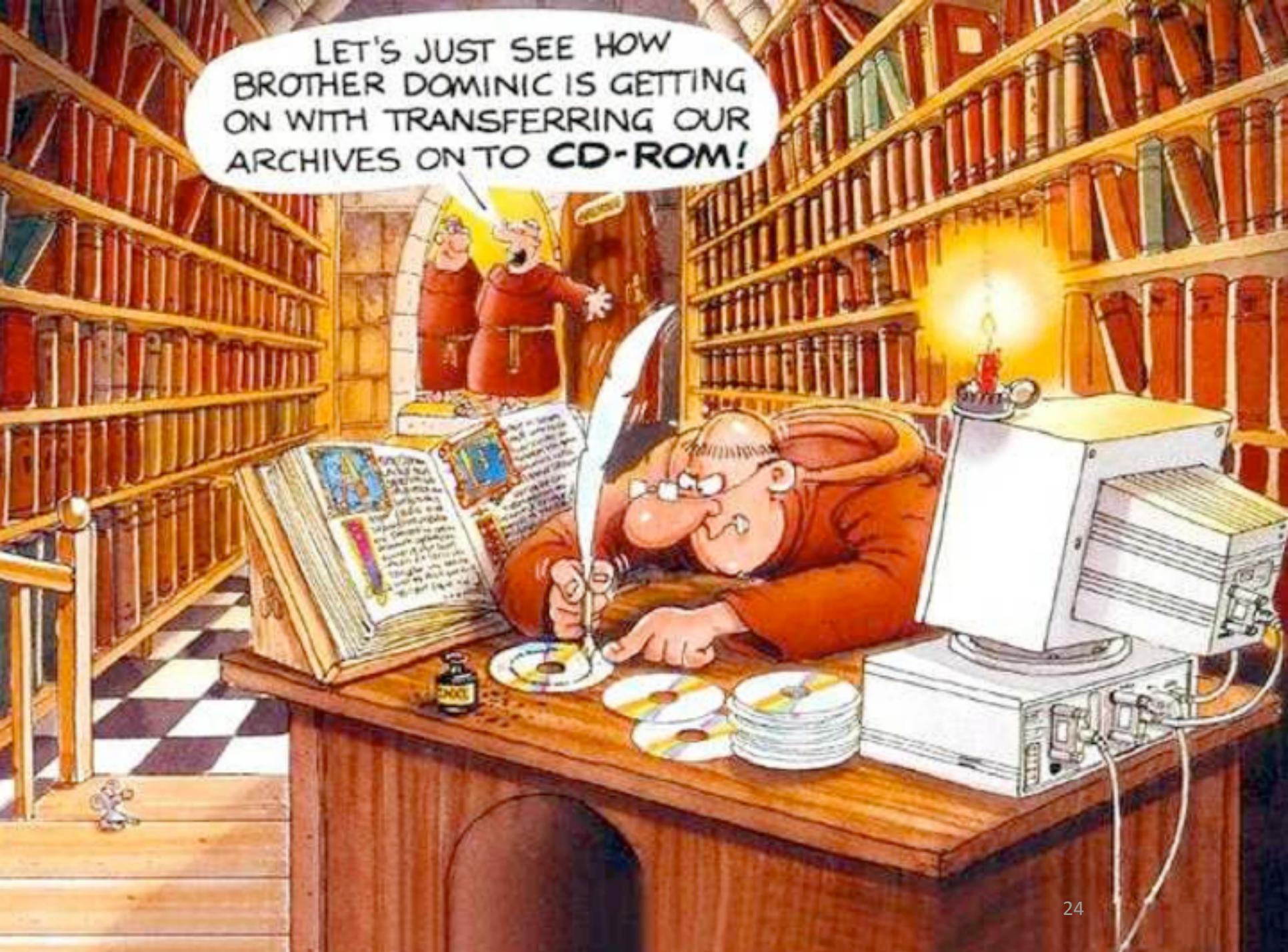


SCIENTIFIC THEORY MUST HAVE PREDICTIVE POWER

Prediction number one:
All living organisms can be hierarchically
assembled based on similarity



LET'S JUST SEE HOW
BROTHER DOMINIC IS GETTING
ON WITH TRANSFERRING OUR
ARCHIVES ON TO **CD-ROM**!



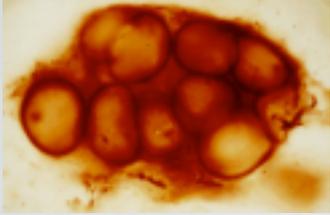
SCIENTIFIC THEORY MUST HAVE PREDICTIVE POWER

Prediction number two:

Life evolved from simple forms to more complex ones. This should be reflected in fossil records



Time scale of some oldest fossils



Cyanobacteria
3 500 Myo



Sponge
1 800 Myo



Insect
400 Myo



Vertebrate
560 Myo



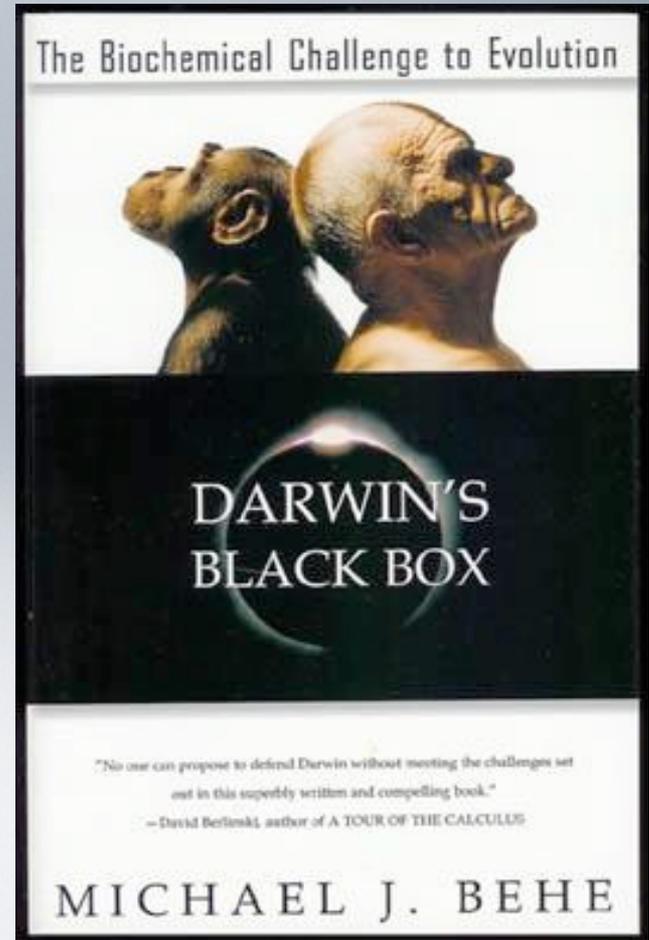
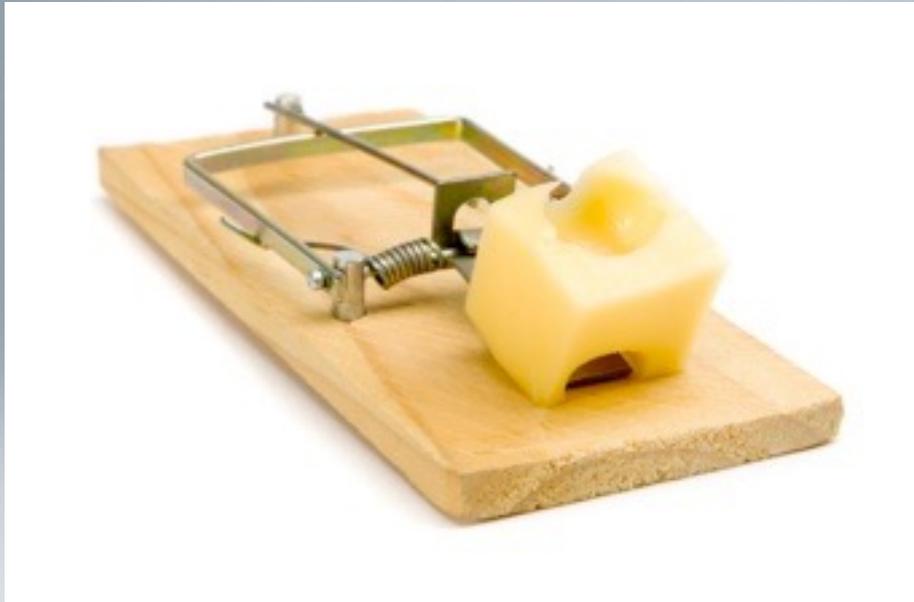
Placental Mammal
125 Myo

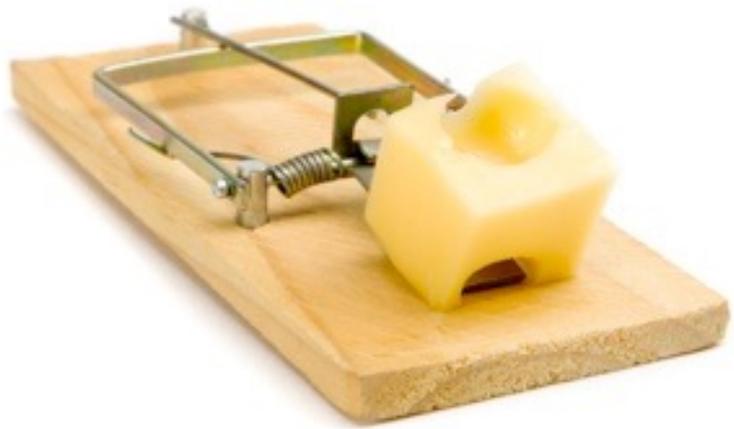
Main arguments of Intelligent Design

- Irreducible complexity
- Specified complexity
- Fine-tuned Universe
- Intelligent designer



IRREDUCIBLE COMPLEXITY





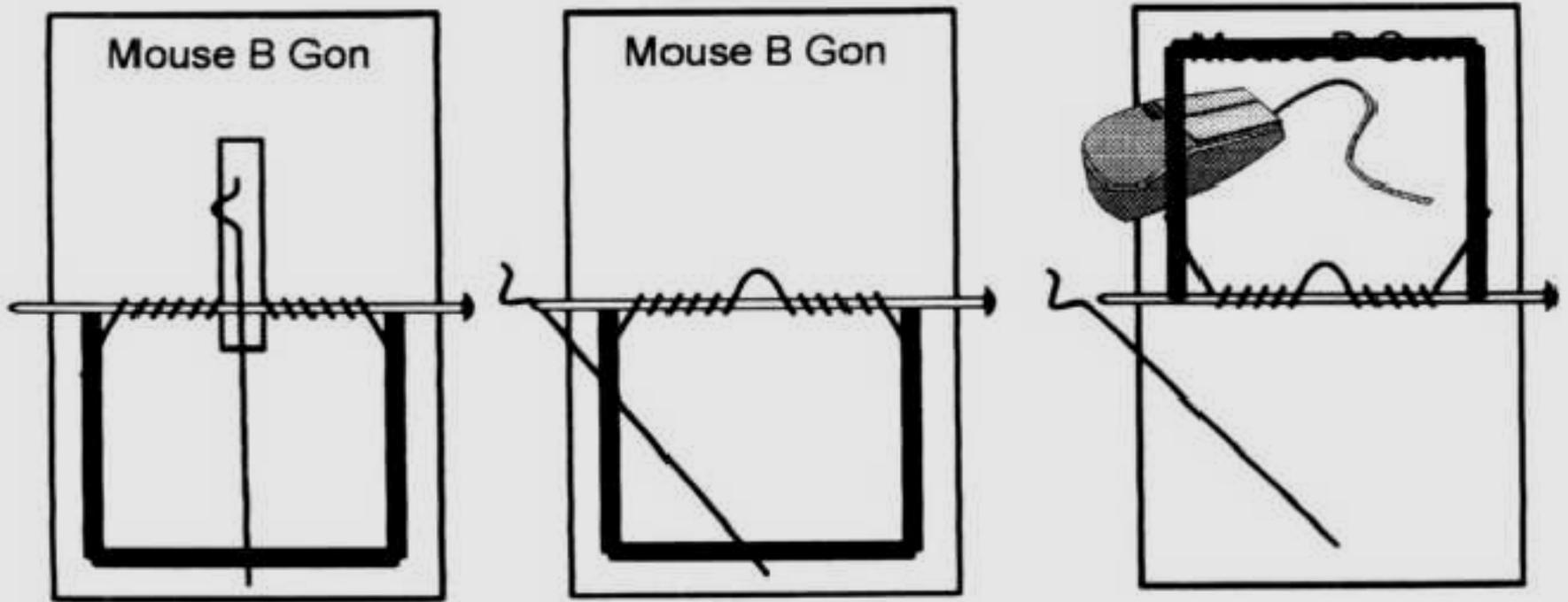
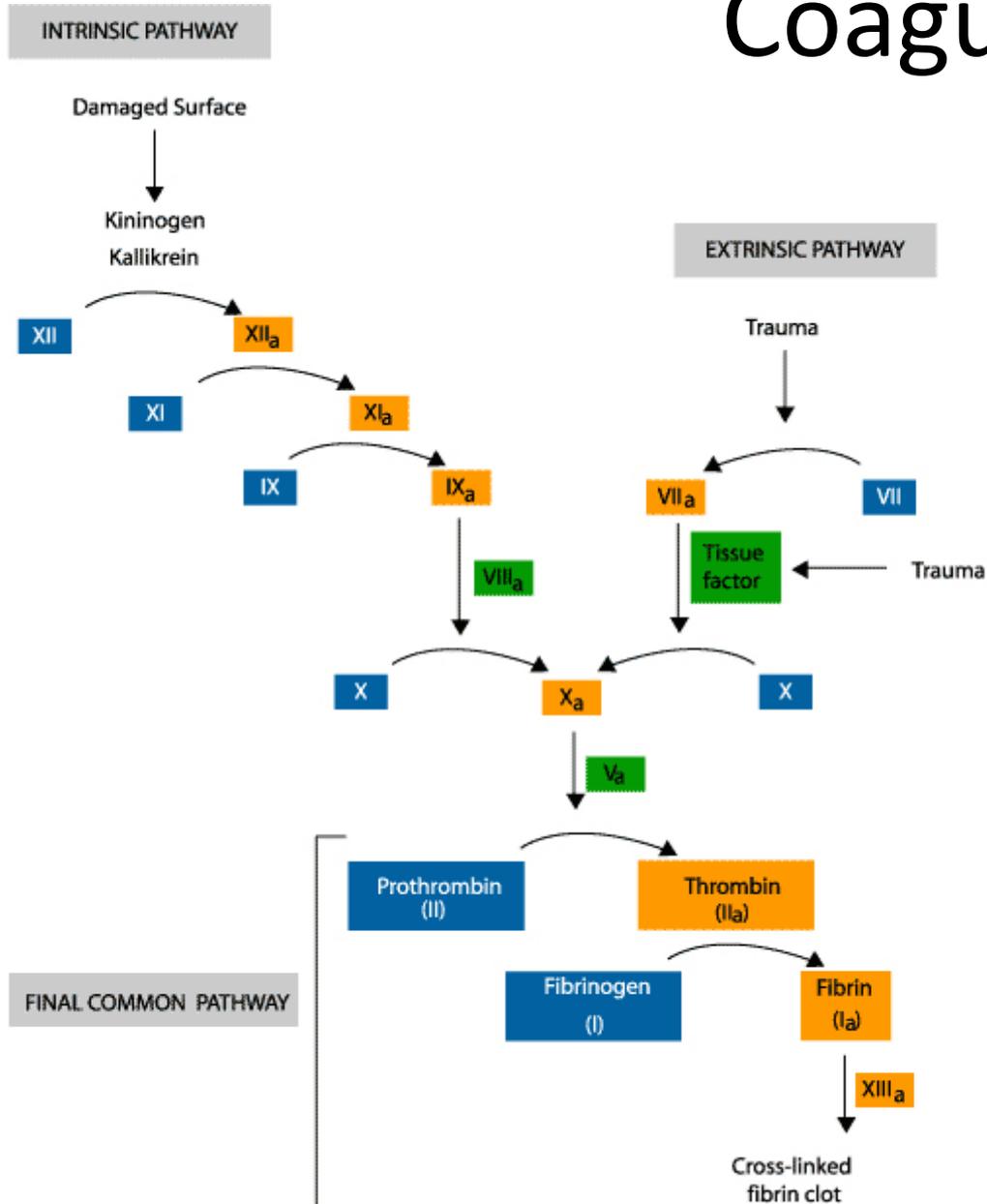


Figure 2.1. Left, a mousetrap with the conventional latching mechanism. Center, with the latch removed. Right, the mousetrap still functions.

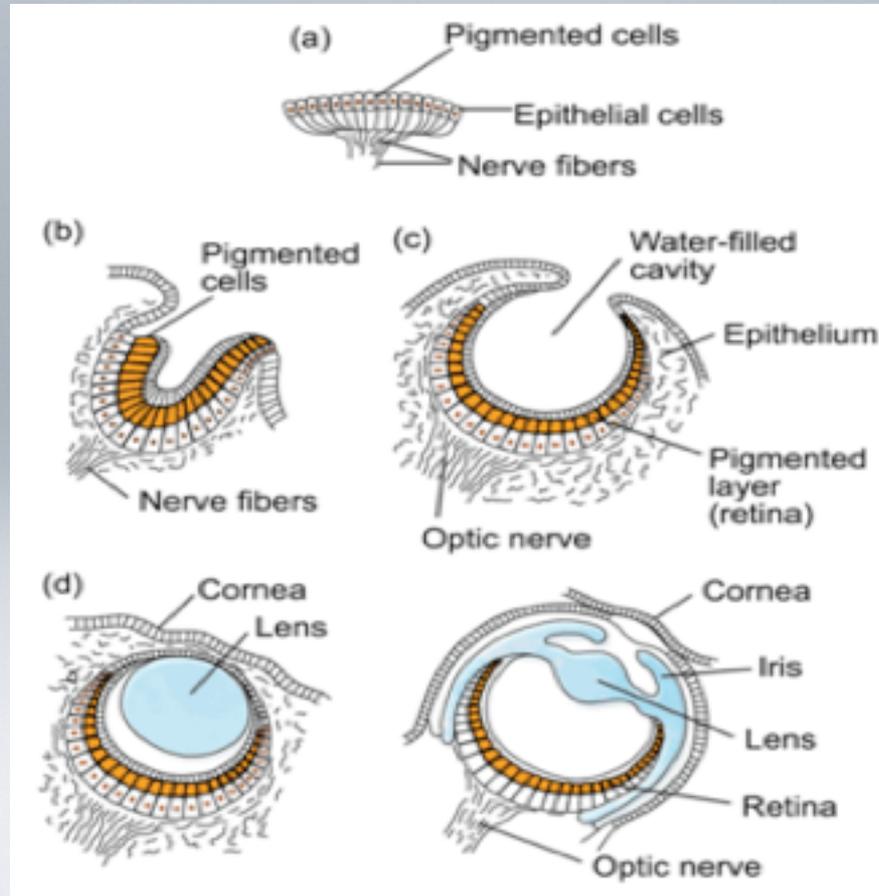
Coagulation



Eye evolution

Vertebrates

Octopus



SPECIFIED COMPLEXITY

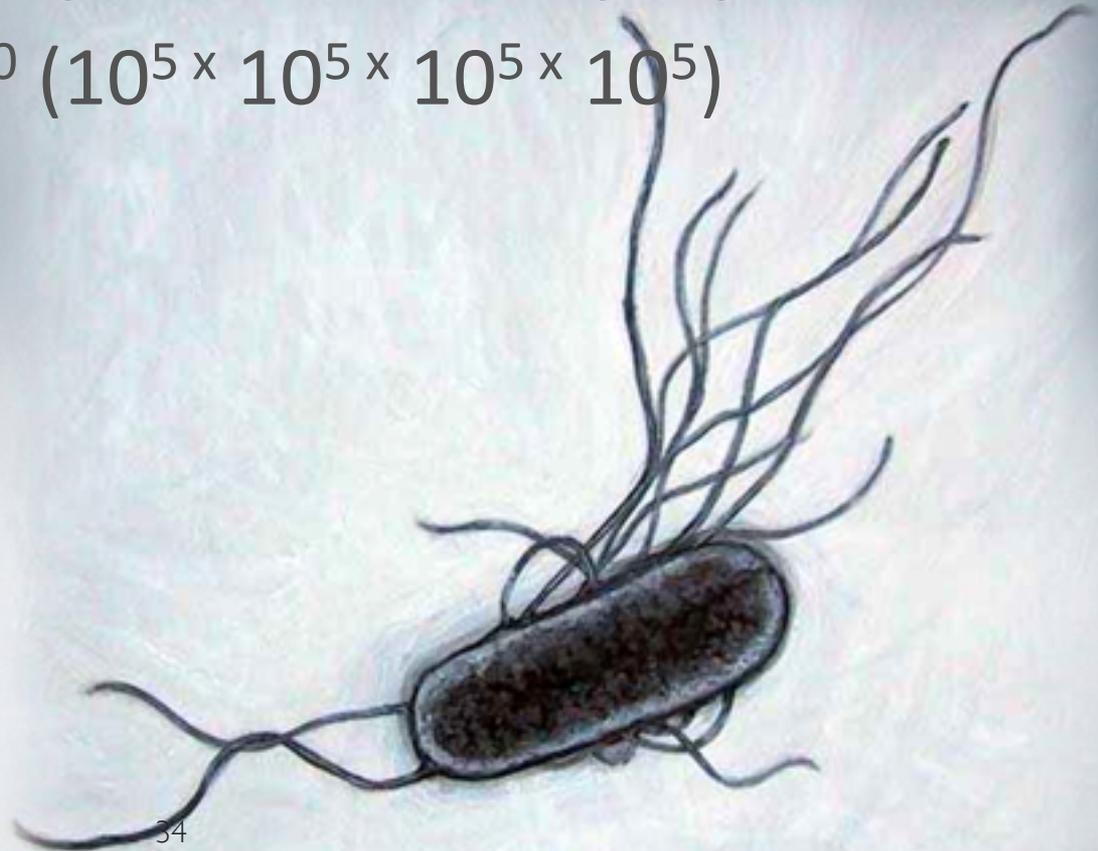
Complex specified information is
anything with a probability of
occurring by chance less than one
in 10^{150}

(About 500 bits of information)



Bacterial flagellum

- "bidirectional rotary motor-driven propeller"
- Upper bound 10^{20} ($10^5 \times 10^5 \times 10^5 \times 10^5$)



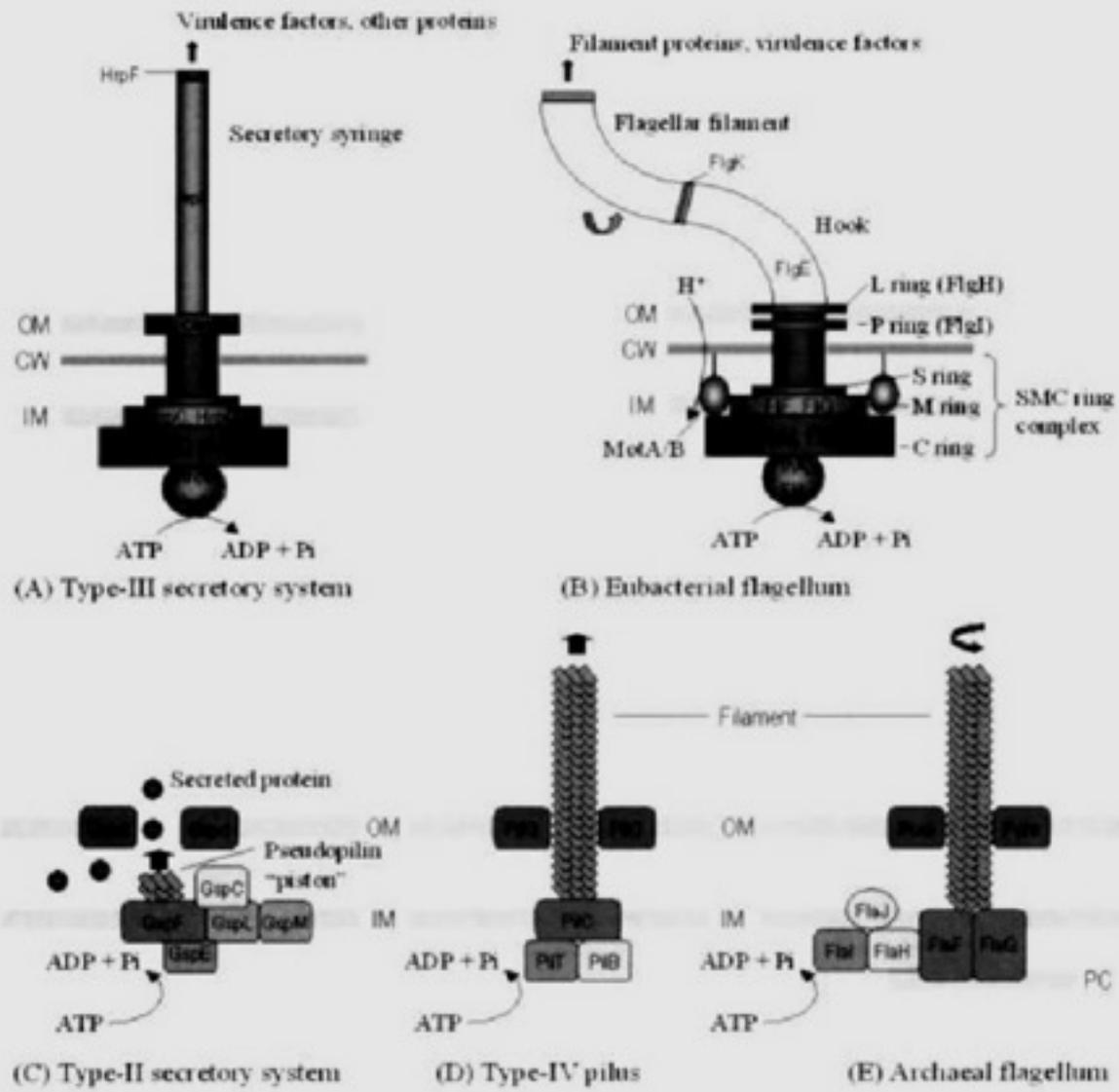
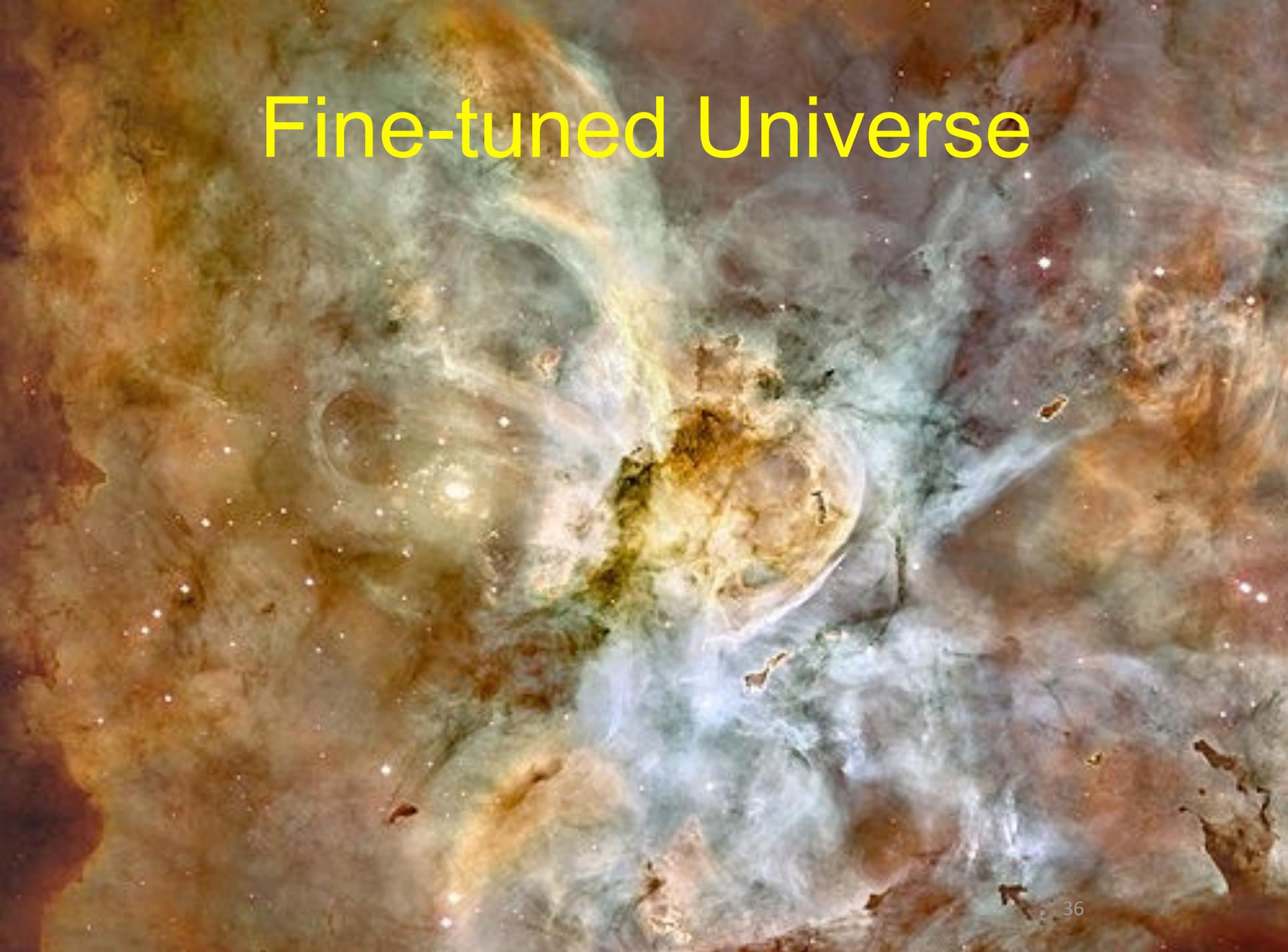
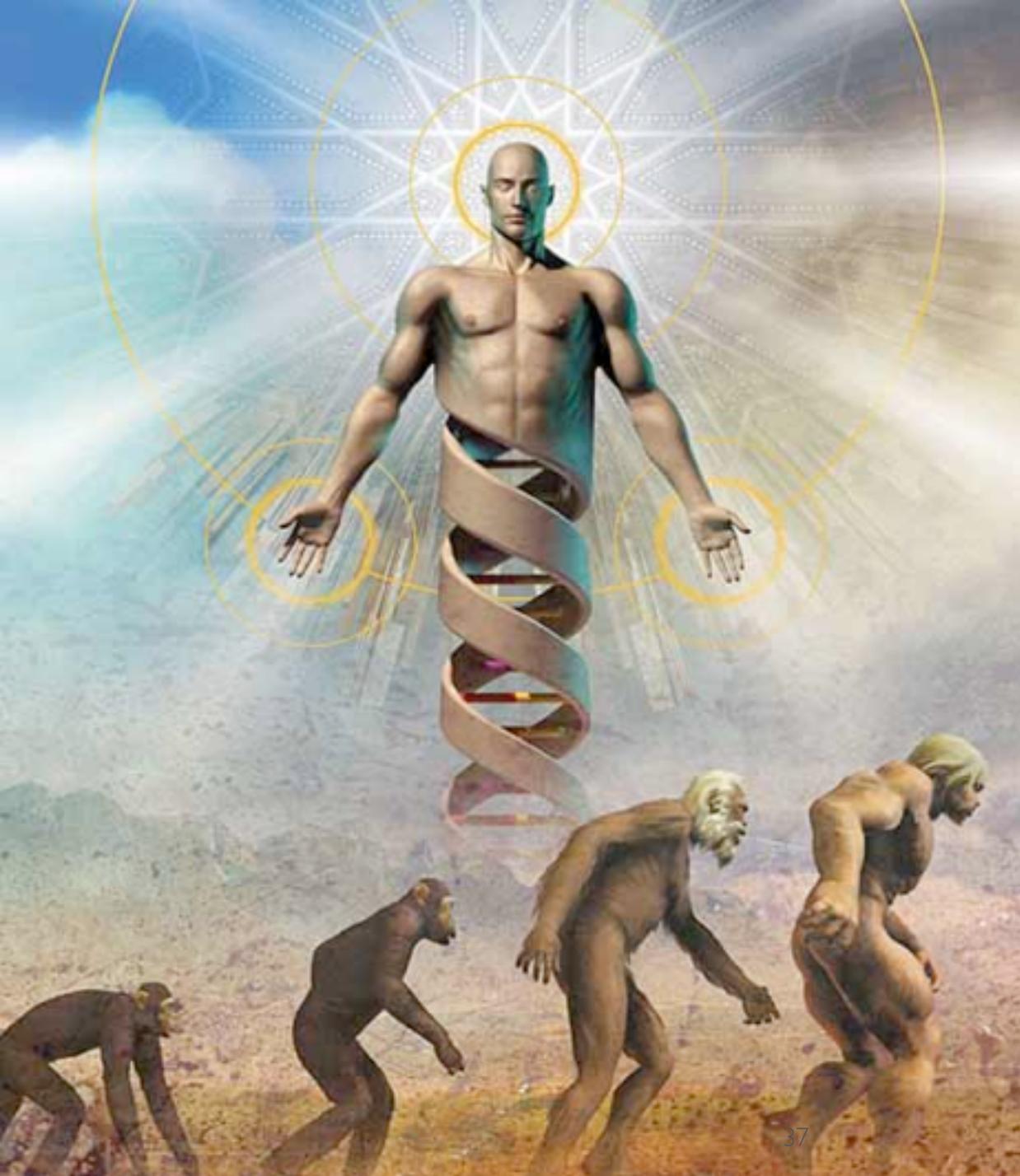


Figure 6.1. Secretory systems compared with eubacterial and archaeobacterial flagella. There is significant sequence homology and functional similarity between the type-III secretory system and the eubacterial flagellum (a, b), and between the type-II secretory system, the type-IV pilus, and the archaeobacterial flagellum (c, d, e).

Fine-tuned Universe





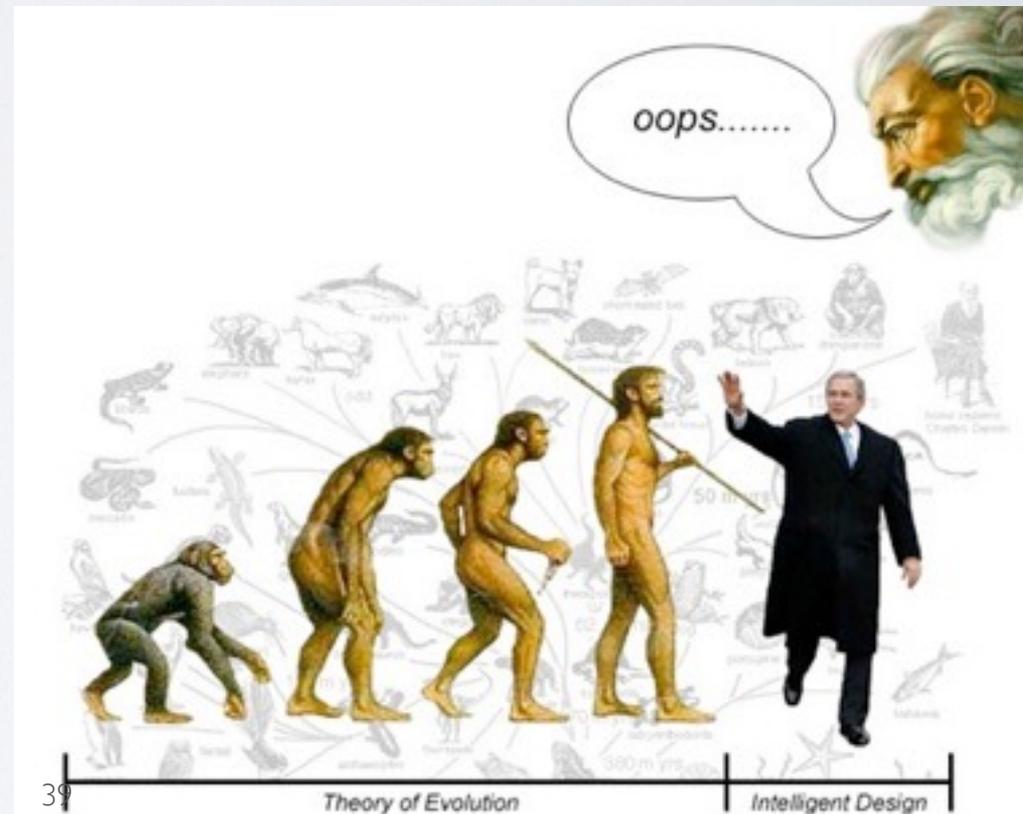
INTELLIGENT DESIGNER

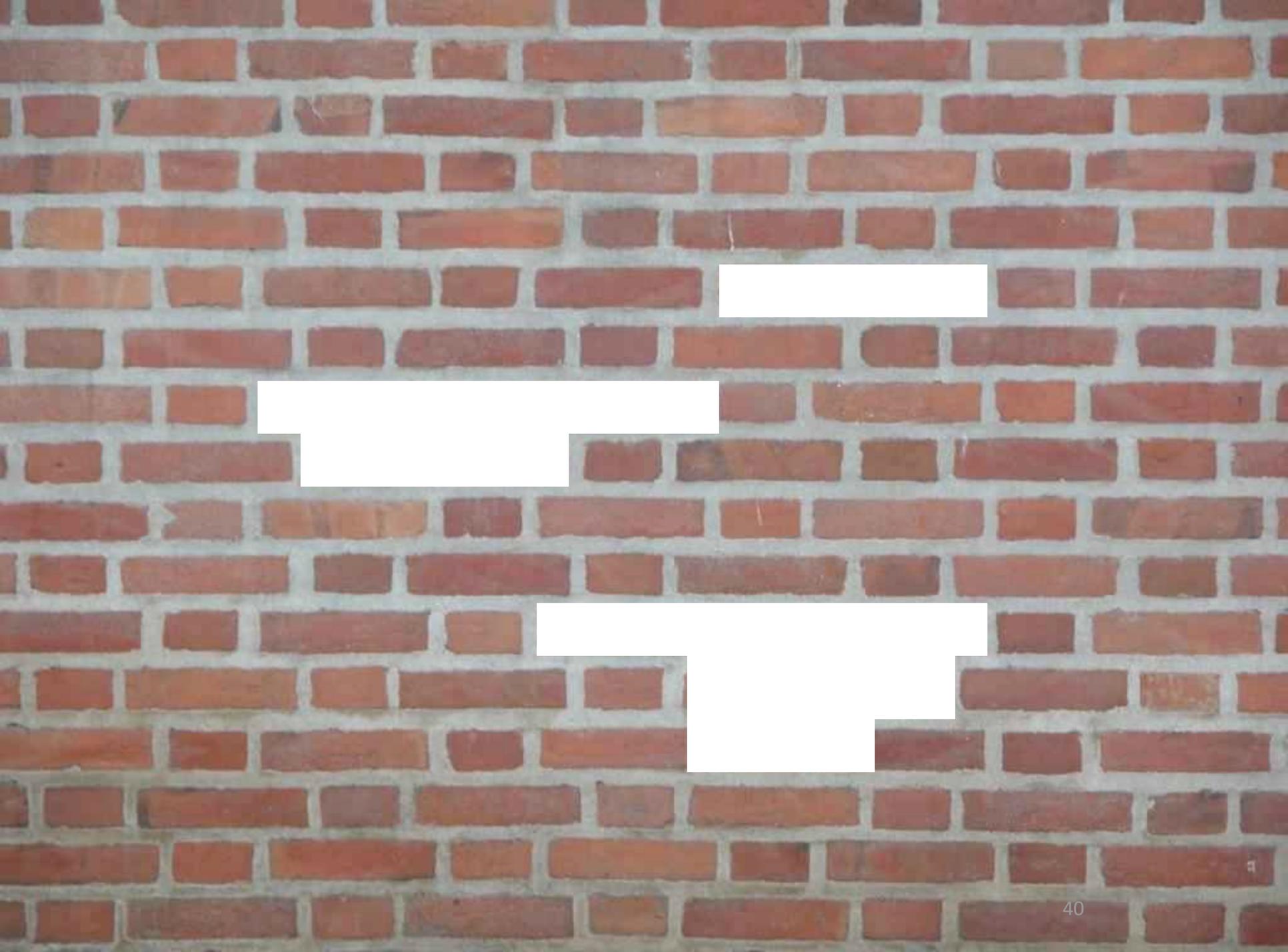
CREATIONISTS WHEN GIVEN THE "JUST ONE PROOF" OF EVOLUTION

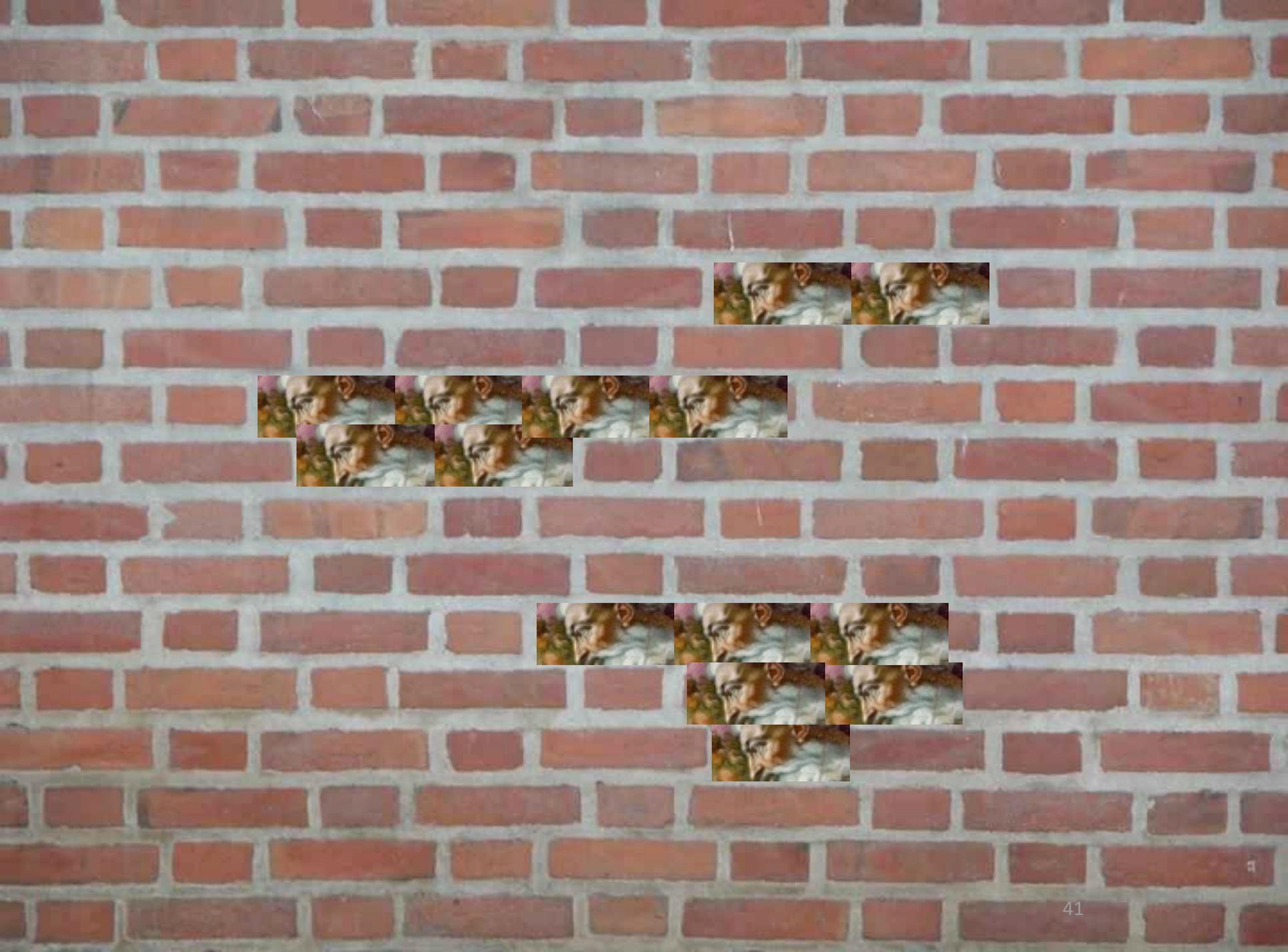


UN-SCIENTIFIC STATUS OF ID

- broken rule of methodological naturalism
- unfalsifiability of ID
- arguments from ignorance
- lack of proves
- “god of the gaps” argument

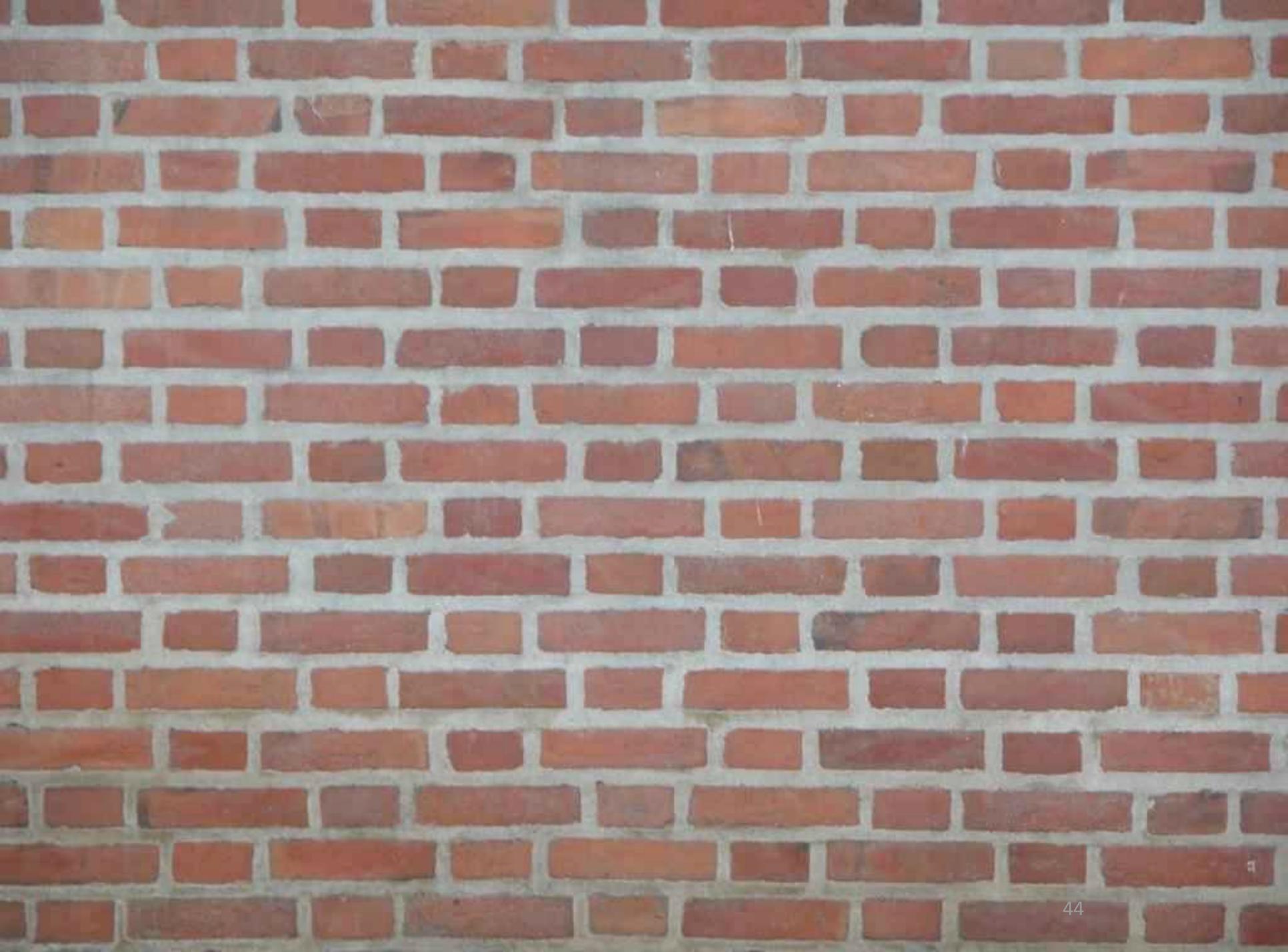








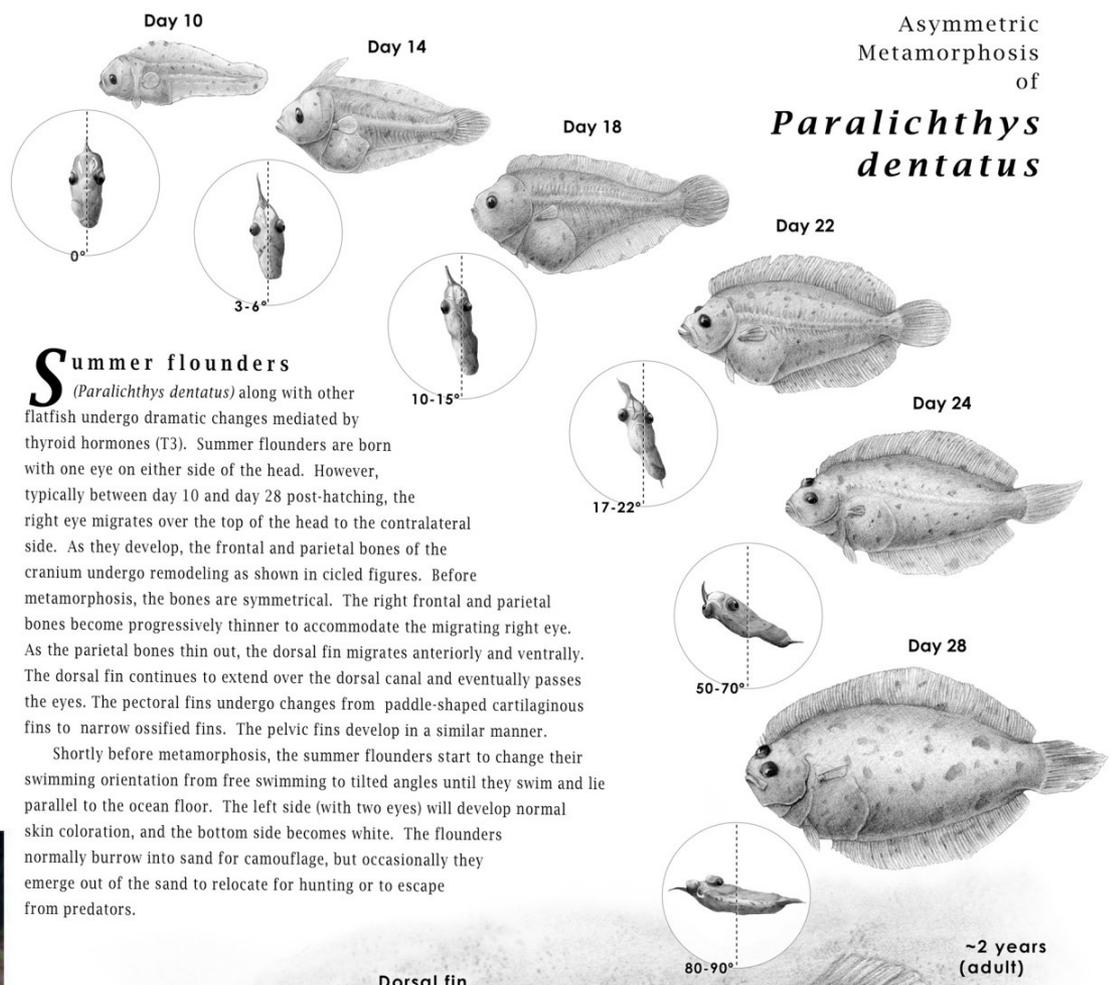




UN-INTELLIGENT DESIGN



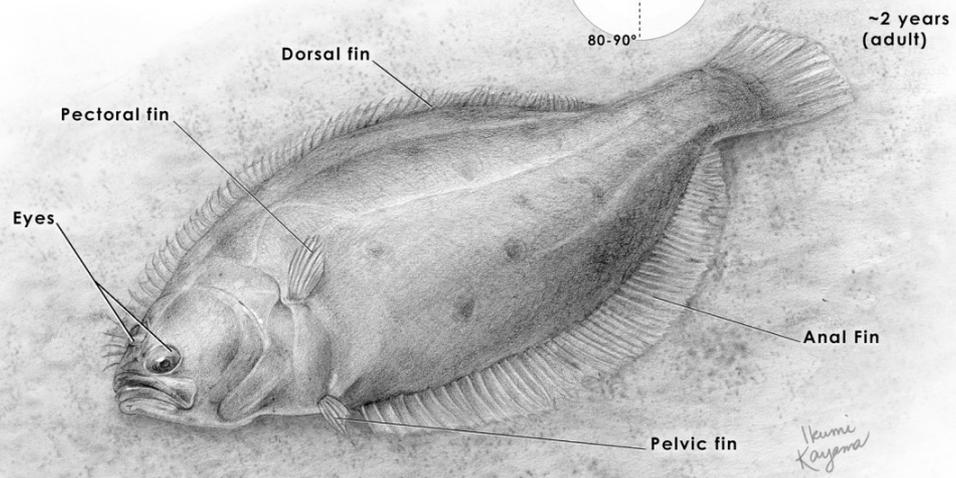
Paralichthys dentatus



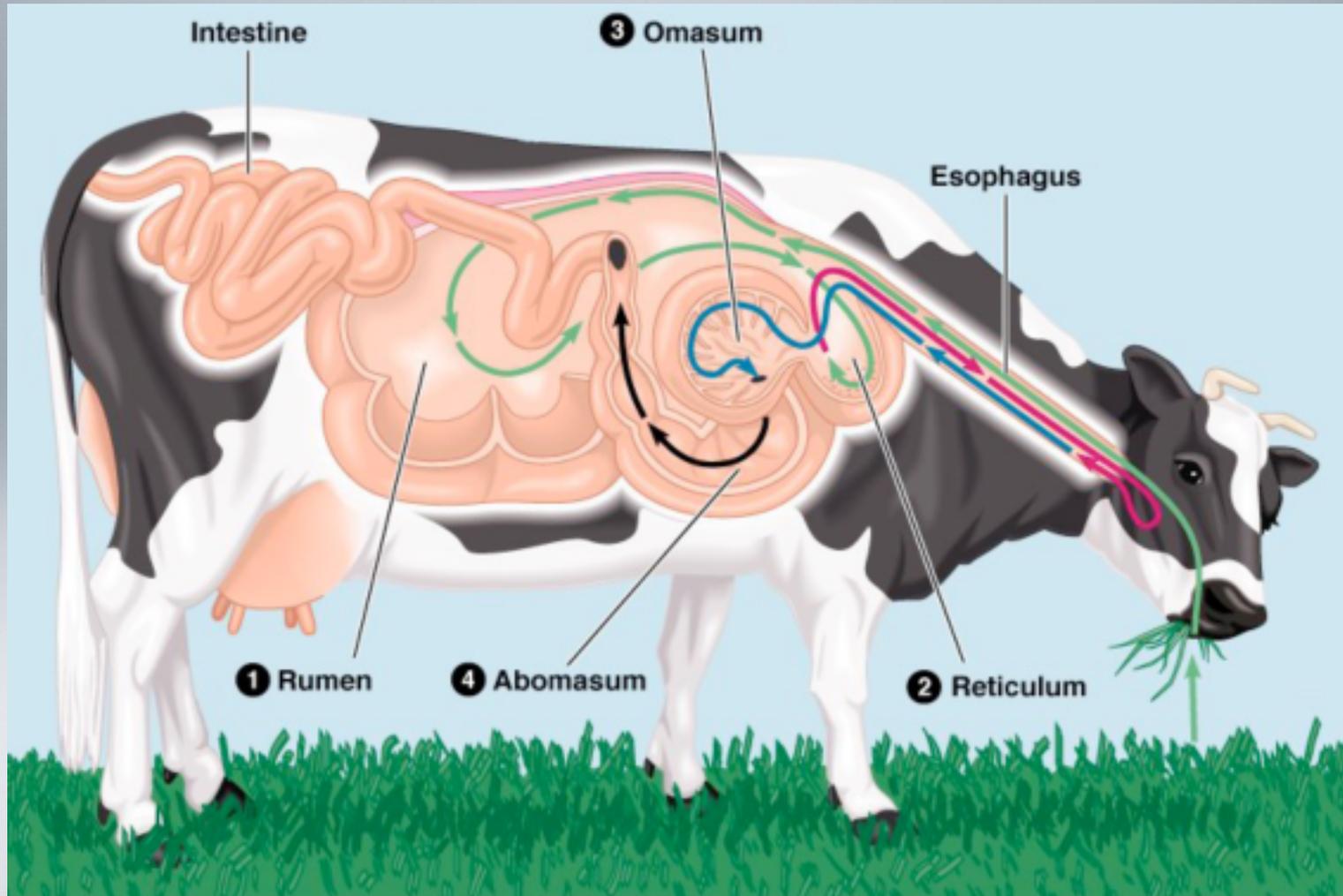
Summer flounders

(*Paralichthys dentatus*) along with other flatfish undergo dramatic changes mediated by thyroid hormones (T3). Summer flounders are born with one eye on either side of the head. However, typically between day 10 and day 28 post-hatching, the right eye migrates over the top of the head to the contralateral side. As they develop, the frontal and parietal bones of the cranium undergo remodeling as shown in cycled figures. Before metamorphosis, the bones are symmetrical. The right frontal and parietal bones become progressively thinner to accommodate the migrating right eye. As the parietal bones thin out, the dorsal fin migrates anteriorly and ventrally. The dorsal fin continues to extend over the dorsal canal and eventually passes the eyes. The pectoral fins undergo changes from paddle-shaped cartilaginous fins to narrow ossified fins. The pelvic fins develop in a similar manner.

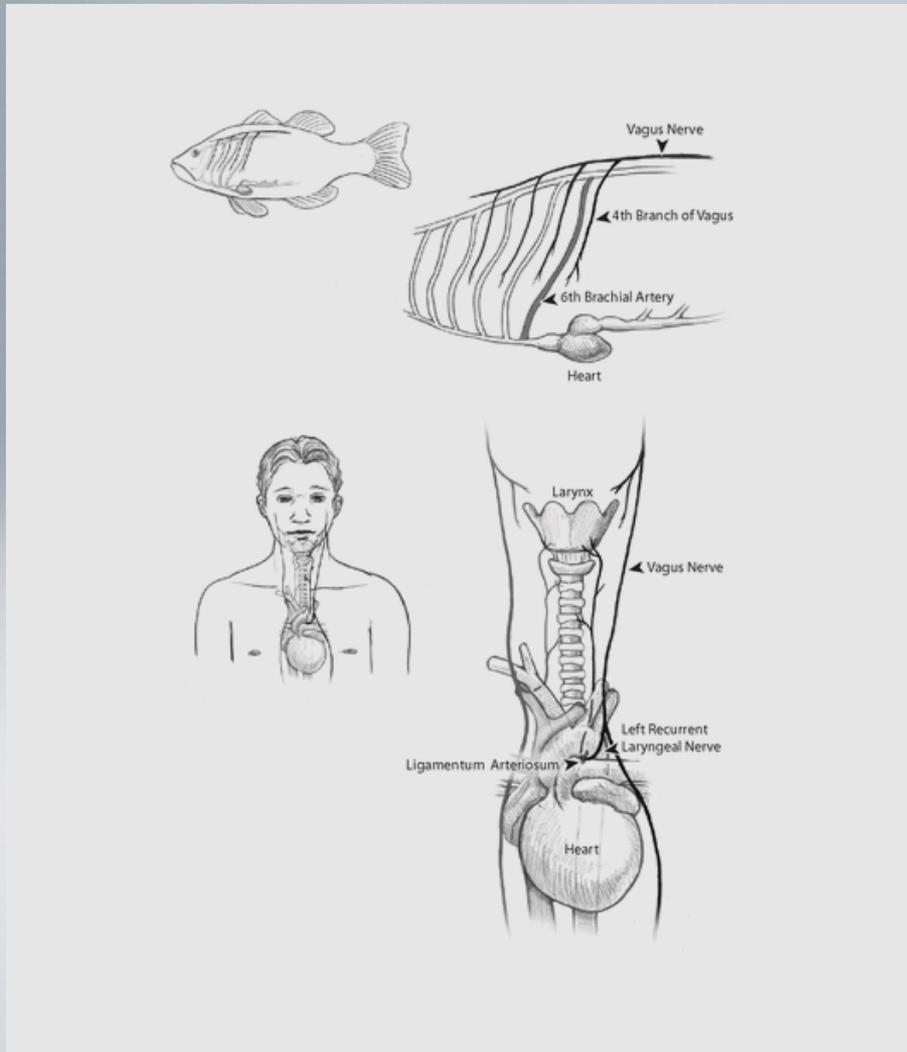
Shortly before metamorphosis, the summer flounders start to change their swimming orientation from free swimming to tilted angles until they swim and lie parallel to the ocean floor. The left side (with two eyes) will develop normal skin coloration, and the bottom side becomes white. The flounders normally burrow into sand for camouflage, but occasionally they emerge out of the sand to relocate for hunting or to escape from predators.



UN-INTELLIGENT DESIGN



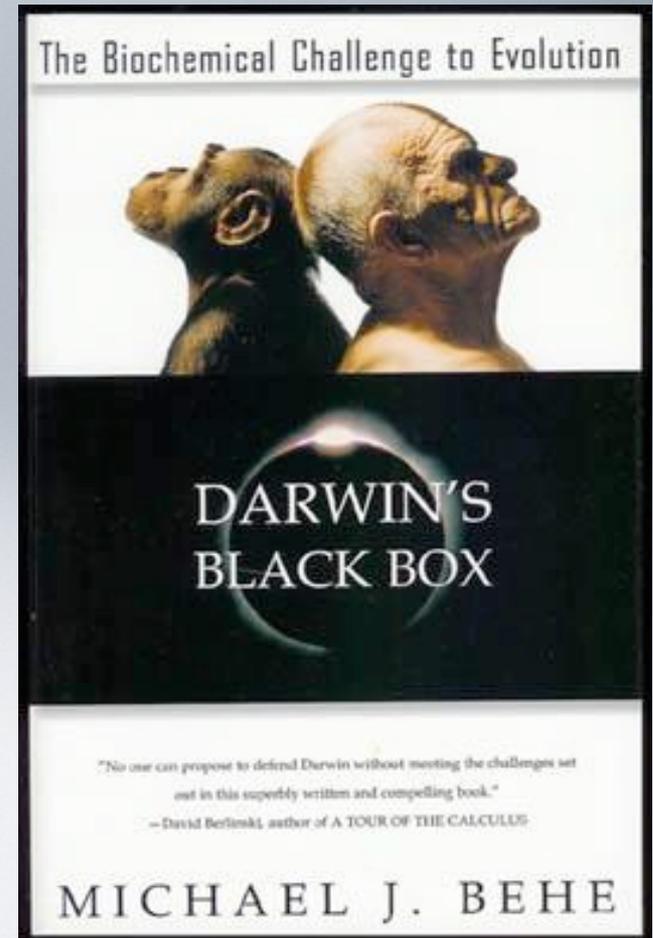
UN-INTELLIGENT DESIGN



The circuitous path of the left recurrent laryngeal nerve in humans is evidence for their evolution from a fishlike ancestor.

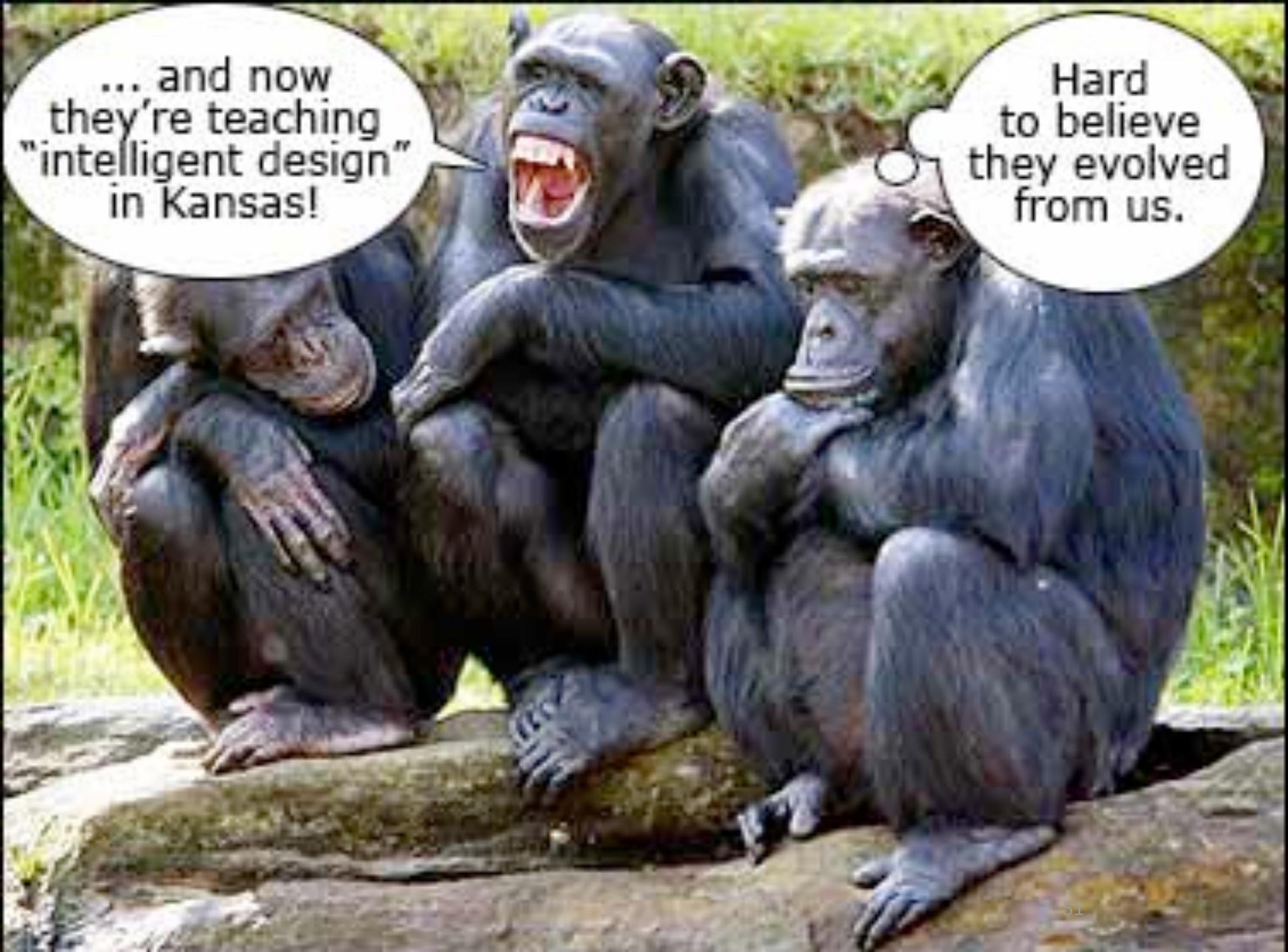
Coyne, Jerry A. *Why Evolution Is True* (p. 83).

THE DESIGNER IS A JOKER



OUTSIDE THE UNITED STATES

- Europe - In June 2007 the Council of Europe's "Committee on Culture, Science and Education" issued a report, *The dangers of creationism in education*, which states "Creationism in any of its forms, such as 'intelligent design,' is not based on facts, does not use any scientific reasoning and its contents are pathetically inadequate for science classes."
 - Detailed government "Creationism teaching guidance" for schools in England was published on September 18, 2007
 - Plans by Dutch Education Minister Maria van der Hoeven to "stimulate an academic debate" on the subject in 2005 caused a severe public backlash
 - In Germany - Some 26,000 students attend about 80 evangelical schools (not to be confused with Germany's mainstream *Evangelisch* Protestant churches). Half of these schools are represented by the new Association of Evangelical Schools, which advocates teaching creationism alongside evolution. In Hesse, the minister of education expressed her sympathy with the creationist call for equal time devoted to it in education
 - In Serbia, the minister of education, Ljiljana Colic, had to resign after she had declared in 2005 that educators should not teach evolutionary theory if creationism was not also included
- Islam - Creationism has strong political support in many Islamic countries, and antievolutionary views are mainstream among academic theologians and scientists.



... and now they're teaching "intelligent design" in Kansas!

Hard to believe they evolved from us.

SOME REFERENCES

- [The Evolution Wars: A Guide to the Debates](#) by [Michael Ruse](#) (Jan 8, 2009)
- [Evolution vs. Creationism: An Introduction, 2nd Edition](#) by [Eugenie Carol Scott](#) (Aug 3, 2009)
- [Why Evolution Is True](#) by [Jerry A. Coyne](#) (Jan 22, 2009)
- [The Greatest Show on Earth: The Evidence for Evolution](#) by [Richard Dawkins](#) (Aug 24, 2010)
- [The Making of the Fittest: DNA and the Ultimate Forensic Record of Evolution](#) by [Sean B. Carroll](#) (Sept. 17, 2007)
- [The Counter-Creationism Handbook](#) by [Mark Isaak](#) (Jan. 12, 2007)
- [Why Intelligent Design Fails: A Scientific Critique of the New Creationism](#) by [Matt Young](#) and T. Edis (Feb 2, 2006)
- [Darwin And Intelligent Design \(Facets Series\)](#) by [Francisco José Ayala](#) (Sep 15, 2006)
- [Why Evolution Works \(and Creationism Fails\)](#) by [Matt Young](#) and Paul K. Strode (May 27, 2009)
- [A Biblical Point of View on Intelligent Design](#) by Kerby Anderson (Jul 1, 2008) - *only in case you have too much money and want to waist your time!*