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The Molecular

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Evolution: A

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Zachary Moore

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Observation in

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the Lab The For

Theory of  
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Evolution (by  
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Natural  
Selection) |

Cornerstones

Education What

Happened Before

History? Human

Origins Myths

*and*

*misconceptions*

*about evolution*

*- Alex Gendler*

*Page 8/109*



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*How Evolution  
works*

How we found out  
evolution is

true: John van  
Wyhe at TEDxNTU

**Can Science**

**Explain the**

**Origin of Life?**

Speciation and

Macroevolution

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~~evidence~~

~~evolution~~ **28:19**

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**Nexus:**

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**Design**

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Molecular

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**#20** *Fossils*

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*For Evolution |*

*Evolution |*

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*Biology I*

*FuseSchool HBio*

*Ch 27 Part 2:*

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~~*Biology*~~

~~*Evidence for*~~

~~*evolution (OCR A*~~

~~*Chapter 10.4)*~~

*Comparative*

*Anatomy: What*

*Makes Us Animals*

*- Crash Course*

*Biology #21*

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Thus, scientists

use biochemical

evidence (the

amino acid

sequence of

proteins) to

establish how

organisms have

evolved.

Hemoglobin, a

component of red

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blood cells, is  
one of the most  
widely studied  
of all proteins.

In this  
activity, you  
will analyze the  
amino acid  
sequence of the  
hemoglobin  
protein in three  
species: human,  
horse and  
gorilla.

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Activity. The  
study of  
evolution using  
homology  
consists of a

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classification  
method based on  
analysis of

antigen-antibody  
complexes found  
in the blood.

Using a modified  
Nuttall

precipitation  
technique,

students will  
identify the  
source of each  
sample.

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Lab -

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Evolution .

Objectives: To  
examine amino  
acid sequences  
from different  
species and,



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using this Evidence For

information, Evolution Lab

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evolutionary relationships that may exist between them.

Background: The biochemical comparison of proteins is a technique used to determine evolutionary

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relationships

among groups of  
organisms.

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McDougal Littell  
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INTRODUCTION:

One method  
scientists use  
to help  
determine the  
evolutionary  
relationships  
between  
organisms is to  
analyze and

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compare the  
molecular  
structure of  
proteins. Recall  
that proteins  
are made up of  
chains of amino  
acids. There are  
20 amino acids

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evidence for

evolution have

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Gortilla: of

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Table 2. unvan

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and horse. the

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evidence for

evolution

The theory of

evolution is

supported by

biochemical

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evidence; many

of the same

molecules and

biochemical

processes occur

within all

living

organisms, from

single-cell

bacteria to

humans.

Originally,

scientists

couldn't



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understand how  
the process of  
evolution began,  
but they later  
discovered that  
RNA possesses  
catalytic  
properties.

What Biochemical  
Evidence Is  
There for  
Evolution?

Origins and

*Page 25/109*

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Evidence. N.p.,  
n.d. Web. 20

Apr. 2015. As

scientist have  
gained more  
detailed  
knowledge about  
biochemistry and  
how it impacts  
the DNA of  
organisms, the  
idea of  
evolution has

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continued to

give reason to

how and why we

have a such a

diverse

biosphere. With

all of the

evidence for

evolution

, gathered by

biochemical

means, the

theory has

gained

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popularity not only within the scientific community but also the general public.

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Evidence for  
Evolution by  
Alex Posley  
Origins and  
biochemical  
evidence. By

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studying the  
basic

Evolution Lab  
biochemistry

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shared by many

organisms, we

can begin to

piece together

how biochemical

systems evolved

near the root of

the tree of

life. However,

up until the

early 1980s,

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biologists were stumped by a "chicken and egg" problem: in all modern organisms, nucleic acids (DNA and RNA) are necessary to build proteins, and proteins are necessary to build nucleic acids - so which

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came first, the  
nucleic acid or  
the protein?

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Origins and

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evidence -

Understanding

Evolution

An interesting  
additional line  
of evidence  
supporting  
evolution

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involves For

sequences of DNA  
known as

"pseudogenes."

Pseudogenes are remnants of genes that no longer function but continue to be carried along in DNA as excess baggage.

Evidence

*Page 32/109*



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Science and ...

16) biochemistry is considered the best evidence for evolution. An important protein in animals called cytochrome c is used during

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cellular For

respiration.

There are fewer  
differences in

the amino acid  
sequence of this  
protein between  
more closely  
related species.

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predicted as a

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second Evidence For

interaction site  
that may help to  
further define

its roles in  
energy balance  
and its  
functional  
differences  
between humans  
and other  
mammals.

Evolutionary,

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Structural and  
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Evolution If two  
organisms have  
similar DNA  
molecules, they  
have similar  
proteins.

Similar proteins  
have similar

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evidence For

amino acid

sequences

(orders). Thus,

if amino acid

sequences are

similar, DNA of

the organisms is

similar.

Scientists

believe that

similar DNA

sequences

indicate a

common origin.

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The more similar  
the

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The fossil  
record provides  
strong evidence  
for evolution.  
It shows us that  
evolutionary  
change tends to  
be gradual. It  
gives us

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physical proof

of extinction,

and of single

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splitting

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When Charles

Darwin first

proposed the

idea that all

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new species For

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descend from an ancestor, he performed an

exhaustive

amount of

research to

provide as much

evidence as

possible. Today,

the major pieces

of evidence for

this theory can

be broken down

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evidence for

the fossil

record,

embryology,

comparative

anatomy, and

molecular

biology.

This edition of

Science and

Creationism

summarizes key

*Page 46/109*

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aspects of For

several of the  
most important  
lines of

evidence

supporting

evolution. It

describes some

of the positions

taken by

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creation science

and presents an

analysis of

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these claims.

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and life;



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parents, and

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well as

scientists and

educators, this

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how evolution

reveals both the

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and similarity

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science can use

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to introduce principles of evolution.

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step-by-step  
presentations  
are provided for  
each activity.

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in the search

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exobiologists,

geoscientists,

planetary

scientists, and

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policymakers.

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Mitochondria are sometimes called the powerhouses of eukaryotic cells, because mitochondria are the site of ATP synthesis in the cell. ATP is the universal energy currency, it provides the power that runs

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all other life  
processes.

Humans need  
oxygen to

survive because  
of ATP synthesis  
in mitochondria.

The sugars from  
our diet are  
converted to  
carbon dioxide  
in mitochondria  
in a process  
that requires

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oxygen. Just  
like a fire  
needs oxygen to  
burn, our

mitochondria

need oxygen to

make ATP. From

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require oxygen.

But that is not the case. There are many groups

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known that make

ATP in

mitochondria

without the help

of oxygen. They

have preserved

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relicts from the

early evolution

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of eukaryotic

cells, which

took place

during times in

Earth history

when there was

hardly any

oxygen available,

certainly not

enough to

breathe. How the

anaerobic forms

of mitochondria

work, in which

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evidences they occur, and how the eukaryotic anaerobes that possess them fit into the larger picture of rising atmospheric oxygen during Earth history are the topic of this book.

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On the Origin of  
Species (or,  
more completely,  
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of Natural  
Selection, or  
the Preservation  
of Favoured  
Races in the  
Struggle for  
Life), [3]

published on 24  
November 1859,

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is a work of

scientific

literature by

Charles Darwin

which is

considered to be

the foundation

of evolutionary

biology. [4]

Darwin's book

introduced the

scientific

theory that

populations

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evidence over the

course of  
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through a

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selection. It

presented a body

of evidence that

the diversity of

life arose by

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through a

branching

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pattern of

evolution.

Darwin included  
evidence that he

had gathered on

the Beagle

expedition in

the 1830s and

his subsequent

findings from

research,

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and

experimentation

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evolve on Earth?

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this question  
can help us  
understand our  
past and prepare  
for our future.

Although  
evolution  
provides  
credible and  
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assembled by the National Academy of Sciences and the Institute of Medicine explain the fundamental methods of science, document the overwhelming evidence in support of biological evolution, and

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evaluate the alternative perspectives offered by advocates of various kinds of creationism, including "intelligent design." The book explores the many fascinating inquiries being

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pursued that put  
the science of  
evolution to  
work in

preventing and  
treating human  
disease,  
developing new  
agricultural  
products, and  
fostering  
industrial  
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shows that science and religion should be viewed as different ways of understanding the world rather than as frameworks that are in conflict with each other and that the evidence for

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evidence can be  
fully compatible  
with religious  
faith. For

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policy makers,  
and parents who  
seek to  
understand the

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and vocabulary,  
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Students do much  
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help students understand--and

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concepts.

Technologies

collectively

called omics

enable

simultaneous

measurement of

an enormous

number of

biomolecules;

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for example,

genomics

investigates

thousands of DNA

sequences, and

proteomics

examines large

numbers of

proteins.

Scientists are

using these

technologies to

develop

innovative tests

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to detect disease and to

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predict a

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likelihood of

responding to

specific drugs.

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recent case

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premature use of

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at Duke University For

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tests while  
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reinforcing  
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that these tests  
are  
appropriately  
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scientific



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validity before  
they are used to  
guide patient  
treatment in  
clinical trials.

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advances have  
made it possible  
to identify and  
manipulate  
features of  
living organisms  
in useful

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ways—leading to improvements in public health, agriculture, and other areas. The globalization of scientific and technical expertise also means that many scientists and other individuals around the world

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are generating  
breakthroughs in  
the life  
sciences and  
related  
technologies.

The risks posed  
by bioterrorism  
and the  
proliferation of  
biological  
weapons  
capabilities  
have increased

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concern about

how the rapid  
advances in  
genetic

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relevant to  
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biological  
weapons 5 to 10  
years into the  
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to anticipate,  
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tells the story

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of the human family, showing how our species' physical traits

and behaviors

evolved over

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environmental

changes. In What

Does It Mean to

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Be Human? Rick Potts, director of the Evolution Lab  
26 Answer Key

Smithsonian's Human Origins Program, and Chris Sloan, National Geographic's paleoanthropology expert, delve into our distant past to explain when, why, and



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Evolution Lab  
26 Answer Key

how we acquired

the unique  
biological and  
cultural

qualities that  
govern our most  
fundamental  
connections and  
interactions  
with other  
people and with  
the natural  
world. Drawing  
on the latest

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research, they conclude that we are the last survivors of a once-diverse family tree, and that our evolution was shaped by one of the most unstable eras in Earth's environmental history. The

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Evidences For a  
wealth of  
attractive new  
material

especially  
developed for  
the Hall's  
displays, from  
life-like  
reconstructions  
of our ancestors  
sculpted by the  
acclaimed John  
Gurche to

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photographs from  
National  
Geographic and  
Smithsonian

archives, along  
with informative  
graphics and  
illustrations.

In coordination  
with the exhibit  
opening, the PBS  
program NOVA  
will present a  
related three-

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part television

series, and the

museum will

launch a website

expected to draw

40 million

visitors.

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