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Chapter 1 -

Evolution, the
Guide Answers

Themes in

Biology and

Scientific

Inquiry The

History of Life

on Earth - Crash

Course Ecology

#1 AP Biology:

The Origin of

Life The Origin

of Life on Earth

(Whisper Only,

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Book) | Science

ASMR David
Attenborough

origin of life

full documentary

Life Begins:

Crash Course Big

History #4 The

Whole History of

the Earth and

Life ?Finished

Edition?

The Origin of

Life on Earth

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Biology 2,
Lecture 5:
Guide Answers

History of Life

History of

Biology [Full

Audiobook] by

Louis Compton

Miall Darwin: On

the Origin of

Species—

Summary and

Analysis Lands

That Will FLOOD

in Our Lifetime

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Classical Music
for Studying
\u0026amp; Brain

Power | Mozart,
Vivaldi,
Tchaikovsky...

~~Life begins at
40: the
biological and
cultural roots
of the midlife
crisis | The
Royal Society Is
Genesis History?~~

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~~Watch the Full~~

~~Film~~ **The History
of Earth (HD -**

**720P) Proof of
evolution that**

you can find on
your body *How to*

*study One
chapter in One*

*Hour | Easy
Tricks The RNA*

*Origin of Life
Exploring the*

*Universe: Crash
Page 9/117*

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Biology History
Of Life Big
Course Big
History #2
Cartoon about
the origin of
life: 0 as
Origin ~~Class 12~~
~~| Biology |~~
~~Evolution |~~
~~Origin of Life~~
Class 12 biology
chapter 7, Part 1
|| Evolution || ori
gin of
life || Study with
Page 10/117

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~~Farru Where Did
Life Come From?
(feat. PBS Space
Time and Eons!)~~

*The mysterious
origins of life
on Earth - Luka
Seamus Wright
Biology CH 1.1 -
Study of Life*

The Insane
Biology of: The
Octopus
*A Brief
History of Life*

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*On Earth: The
Full Series*

Origin And
Evolution Of
Life
**Biology
History Of Life
Study**

A team of
geneticists and
archeologists
from Ireland,
France, Iran,
Germany, and
Austria has

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sequenced the
DNA from a
1,600-year-old
sheep mummy from
an ancient
Iranian salt
mine, Chehr?b?d.
This ...

**DNA from
1,600-year-old
Iranian sheep
mummy brings
history to life**

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Advertisement

For roughly a
year, scientists

have debated

whether or not

Venus has signs
of life hidden
in its clouds.

The theory is
based on traces
of phosphine gas
in its upper
atmosphere, a
sign of ...

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Turns Out 'Signs
Of Life' On

Venus Are
Something
Completely
Different

Running Across a
Lifetime,"
explores a life
of scientific
research and
discovery in
nature, and some

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extraordinary
feats of the
human body. And
the author
himself, Bernd
Heinrich, is the
subject of ...

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on his 'unusual'
life as a runner
and biologist in
Maine**

Scientists from

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The University
of Tokyo
Institute of
Industrial
Science have
designed a
machine learning
algorithm to
predict the size
of an individual
cell as it grows
and divides. By
using an ...

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Computer-
assisted
biology:
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**Decoding noisy
data to predict
cell growth**

according to a
new study
published in the
journal Current
Biology.

Throughout the
evolutionary
history of Homo

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sapiens,
positive natural
selection has
frequently
targeted
proteins that
physically ...

**Coronavirus
Epidemic
Occurred in East
Asia 25,000
Years Ago,
Genetic Study**

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Shows

New human
sexology
research from
two groups of
researchers
suggests that
monogamy may not
always be the
healthiest way
to love and be
loved.

Love And Sex

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With Many:
Research On The
Health And
Wellness Of
Consensual Non-
Monogamy

The methane
wafting from
Enceladus may be
a sign that life
teems in the
Saturn moon's
subsurface sea,
a new study

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reports. In
2005, Saturn
orbiter

discovered
geysers blasting
particles of
water ice ...

**Methane in plume
of Saturn's moon
Enceladus could
be sign of alien
life, study
suggests**

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The methane wafting from Enceladus may be a sign that life teems in the Saturn moon's subsurface sea, a new study reports. In 2005, Saturn orbiter discovered geysers blasting particles of

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Methane wafting
from 'tiger
stripes' on
Saturn moon
could be sign of
alien life,
study suggests
African
coelacanths
(Latimeria
chalumnae) reach
maturity around

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the age of 55
and gestate
their offspring
for 5 years,
according to a
study published
... as well as
other life-
history traits
...

**African
Coelacanths Can
Live for Up To**

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100 Years, Scale Analysis Shows

Echoing through
history by
reviving fungal
specimens
originally
preserved and
described a
flabbergasting
quarter of a
millenium ago by
the "Father of
Modern Taxonomy"

File Type PDF
Biology History
Of Life Linnaeus,
this study
Guide Answers

**Fungal spores
from 250-year-
old collections
given new lease
of life**

St. Jude
Children's
Research
Hospital
scientists have
used single-

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molecule
fluorescence
resonance energy

transfer

(smFRET) and

cryogenic

electron

microscopy (cryo-
EM) to capture

six new

structures of

...

Molecules in

Page 28/117

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Biology History

**motion: Study
researchers
capture six new
structures of
the ribosome in
action**

The severe
megafires that
occurred in
eastern
Australia during
2019-20 were
much larger and
more

File Type PDF
Biology History
Of Life Study
concentrated
across the
landscape than
in previous
years, according
to a study by
researchers at
Penn ...

**Australian
megafires burn
critical habitat
of 'Vulnerable'
virus-harboring**

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bats

Collecting DNA
in waters

worldwide can
help scientists
figure out which
places are the
most important
for
conservation.

**National Museum
of Natural
History**

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The partnership started when Ellen Zhong, a graduate student from the Computational and Systems Biology (CSB) Program, decided to use a computational pattern-recognition tool called a neural

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Of Life Study
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The power of two

The study was
conducted by an
international
collaboration

...
computational
and integrative
biology - Cibio
of UniTrento,
the Paris Brain
Institute-

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Biology History
Of Life Study
Cerveau at
Sorbonne
Université ...

**Study identifies
the cell of
origin of
medulloblastoma**

The study was
conducted by an
international
collaboration

...

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Biology History
Computational
and integrative
biology - Cibio
of UniTrento,
the Paris Brain
Institute-
Institut du
Cerveau at
Sorbonne
Université ...

**Searching for
the cell of
origin of**

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Biology History
**childhood brain
cancer**
Of Life Study
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This action
funds an NSF
Postdoctoral
Research
Fellowship in
Biology for FY
2021,
Integrative
Research
Investigating
the Rules of
Life Governing

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to conduct a
Genome Wide
Association ...

**NSF Postdoctoral
Fellowship in
Biology FY 2021:
Evolution of
eastern gray
squirrels in
urban
environments**
Researchers

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published their findings in Current Biology today ... in the other, said study co-author Edward Stanley, director of the Florida Museum of Natural History's Digital Discovery and

...

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Study presents
new species of
bizarre, extinct
lizard
previously
misidentified as
a bird

This remarkable
specimen has
revealed sheep
husbandry
practices of the
ancient Near

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East and Study
underlined how
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natural

mummification

can affect DNA

degradation.

Today many
school students
are shielded
from one of the
most important

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concepts in
modern science:
evolution. In
engaging and
conversational
style, Teaching
About Evolution
and the Nature
of Science
provides a well-
structured
framework for
understanding
and teaching

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Written for
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teachers,
parents, and
community
officials as
well as
scientists and
educators, this
book describes
how evolution
reveals both the
great diversity
and similarity

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among the Earth's organisms; it explores how scientists approach the question of evolution; and it illustrates the nature of science as a way of knowing about the natural world. In

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in addition, the book provides answers to frequently asked questions to help readers understand many of the issues and misconceptions about evolution. The book includes sample activities for

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teaching about evolution and the nature of science. For example, the book includes activities that investigate fossil footprints and population growth that teachers of science can use

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to introduce
principles of
evolution.

Background
information,
materials, and
step-by-step
presentations
are provided for
each activity.

In addition,
this volume:
Presents the
evidence for

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evolution, including how evolution can be observed today.

Explains the nature of science through a variety of examples.

Describes how science differs from other human endeavors and why evolution is

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Of Life Study
Guide Answers
one of the best
avenues for
helping students
understand this
distinction.

Answers
frequently asked
questions about
evolution.

Teaching About
Evolution and
the Nature of
Science builds
on the 1996

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Education
Standards

released by the
National
Research
Council--and
offers detailed
guidance on how
to evaluate and
choose
instructional
materials that
support the

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standards.
Comprehensive
and practical,
this book brings
one of today's
educational
challenges into
focus in a
balanced and
reasoned
discussion. It
will be of
special interest
to teachers of

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Biology History
Of Life, school
administrators,
and interested
members of the
community.

This
comprehensive
history of cell
evolution
"deftly
discusses the
definition of
life" as well as

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cellular organization, classification and more (San Francisco Book Review). The origin of cells remains one of the most fundamental mysteries in biology, one that has spawned a large body of

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research and
debate over the
past two

decades. With In
Search of Cell
History,

Franklin M.

Harold offers a
comprehensive,
impartial take
on that research
and the

controversies
that keep the

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field in
turmoil. Written
in accessible
language and
complemented by
a glossary for
easy reference,
this book
examines the
relationship
between cells
and genes; the
central role of
bioenergetics in

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the origin of life; the status of the universal tree of life with its three stems and viral outliers; and the controversies surrounding the last universal common ancestor. Harold also discusses the

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Evolution of cellular organization, the origin of complex cells, and the incorporation of symbiotic organelles. In Search of Cell History shows us just how far we have come in understanding

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evolution—and
the evolution of
life in
general—and how
far we still
have to go.

“Wonderful...A
loving
distillation of
connections
within the
incredible
diversity of

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Life in the Biosphere Guide Answers

framing one of
biology's most
important
remaining
questions: how
did life
begin?"—Nature

The rhythm of
life on Earth
includes several
strong themes

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Kingdom Fungi.
So why are fungi
ignored when
theorists ponder
the origin of
life? Casting
aside common
theories that
life originated
in an oceanic
primeval soup,
in a deep, hot
place, or even a

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warm little pond, this is a mycological perspective on the emergence of life on Earth. The author traces the crucial role played by the first biofilms - products of aerosols, storms, volcanic

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plumes and
rainout from a
turbulent
atmosphere -
which formed in
volcanic caves 4
billion years
ago. Moore
describes how
these biofilms
contributed to
the formation of
the first
prokaryotic

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cells, and
later,
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unicellular stem

eukaryotes,

highlighting the

role of the

fungal grade of

organisation in

the evolution of

higher

organisms. Based

on the latest

research, this

is a unique

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account of the
origin of life
and its
evolutionary
diversity to the
present day.

The field of
planetary
biology and
chemical
evolution draws
together experts
in astronomy,

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paleobiology,
biochemistry,
and space

science who work together to understand the evolution of living systems. This field has made exciting discoveries that shed light on how organic compounds came

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together to form self-replicating molecules--the origin of life.

This volume updates that progress and offers recommendations on research programs--including an ambitious effort centered on Mars--to

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advance the field over the next 10 to 15 years. The book presents a wide range of data and research results on these and other issues: The biogenic elements and their interaction in

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the interstellar clouds and in solar nebulae.

Early planetary environments and the conditions that lead to the origin of life.

The evolution of cellular and multicellular life. The search for life outside the solar

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system. This volume will become required reading for anyone involved in the search for life's beginnings--including exobiologists, geoscientists, planetary scientists, and U.S. space and science

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We tend to see history and evolution springing from separate roots, one grounded in the human world and the other in the natural world. Human beings have, however, become

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probably the most powerful species shaping evolution today, and human-caused evolution in other species has probably been the most important force shaping human history. This book introduces readers to

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history, a new field that unites history and biology to create a fuller understanding of the past than either can produce on its own.

Evolutionary history can stimulate

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surprising new hypotheses for any field of history and evolutionary biology. How many art historians would have guessed that sculpture encouraged the evolution of tuskless elephants? How

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many biologists would have predicted that human poverty would accelerate animal evolution? How many military historians would have suspected that plant evolution would convert a counter-insurgency

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strategy into a rebel subsidy? With examples from around the globe, this book will help readers see the broadest patterns of history and the details of their own life in a new light.

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This book is devoted to 250 years of collecting, organizing and preserving paleontological specimens by generations of scientists. Paleontological collections are a huge resource for modern

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research and
should be
available for
national and
international
scientists and
institutions, as
well as
prospective
public and
private
customers. These
collections are
an important

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part of the
scientific
enterprise,
supporting
research, public
education, and
the
documentation of
past
biodiversity.

Much of what we
are beginning to
understand about
our world, we

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collection,
preservation,
and ongoing
study of natural
specimens.

Properly
preserved
collections of
fossil marine or
terrestrial
plants and
animals are
archives of

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Earth's history and vital to our ability to learn about our place in its future.

The approach employed by the editors involves not only an introduction to the paleontological collections in general, but

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also information
on the
international
and national
collection
networks.

Particular
attention is
given to new
exhibition
concepts and
approaches of
sorting,
preserving and

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researching in
paleontological
collections and
also their
neglect and/or
threat. In
addition, the
book provides
information on
all big public
museums, on
important state
museums and
regional

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also on
university
collections.

This is a highly
informative and
carefully
presented book,
providing
scientific
insight for
readers with an
interest in
fossil record,

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biodiversity,
taxonomy, or
evolution, as
well as natural
history
collections at
large.

Concepts of
Biology is
designed for the
single-semester
introduction to
biology course

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for non-science
majors, which
for many

students is
their only
college-level
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As such, this
course
represents an
important
opportunity for
students to
develop the

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necessary
knowledge,
tools, and
skills to make
informed
decisions as
they continue
with their
lives. Rather
than being mired
down with facts
and vocabulary,
the typical non-
science major

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student needs
information
presented in a
way that is easy
to read and
understand. Even
more
importantly, the
content should
be meaningful.
Students do much
better when they
understand why
biology is

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relevant to
their everyday
lives. For these
reasons,
Concepts of
Biology is
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basis and
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strive to show
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discipline. In
order to meet
the needs of

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today's
instructors and
students, we
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coverage found
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for this course.
A strength of
Concepts of
Biology is that
instructors can
customize the

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book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker

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questions to
help students
understand--and
apply--key
concepts.

The origin of
life from
inanimate matter
has been the
focus of much
research for
decades, both
experimentally

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and Life Study

philosophically.
Luisi takes the
reader through
the consecutive
stages from
prebiotic
chemistry to
synthetic
biology,
uniquely
combining both
approaches. This
book presents a

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course
Guide Answers

discussing the
successive
stages of self-
organisation,
emergence, self-
replication,
autopoiesis,
synthetic
compartments and
construction of
cellular models,
in order to

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demonstrate the spontaneous increase in complexity from inanimate matter to the first cellular life forms. A chapter is dedicated to each of these steps, using a number of synthetic and biological

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examples. With end-of-chapter review questions to aid reader comprehension, this book will appeal to graduate students and academics researching the origin of life and related areas such as

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evolutionary
biology,
biochemistry,
molecular
biology,
biophysics and
natural
sciences.

Evolution is the
central unifying
theme of
biology. Yet
today, more than

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a century and a half after Charles Darwin proposed the idea of evolution through natural selection, the topic is often relegated to a handful of chapters in textbooks and a few class

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sessions in introductory biology courses, if covered at all. In recent years, a movement has been gaining momentum that is aimed at radically changing this situation. On October 25-26,

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2011, the Board on Life Sciences of the National Research Council and the National Academy of Sciences held a national convocation in Washington, DC, to explore the many issues associated with teaching

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evolution across
the curriculum.
Thinking

Evolutionarily:

Evolution

Education Across
the Life

Sciences:

Summary of a

Convocation

summarizes the
goals,

presentations,

and discussions

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convocation. The goals were to articulate issues, showcase resources that are currently available or under development, and begin to develop a strategic plan for engaging all of the sectors

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represented at
the convocation
in future work
to make
evolution a
central focus of
all courses in
the life
sciences, and
especially into
introductory
biology courses
at the college
and high school

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Of Life, though
participants
also discussed
learning in
earlier grades
and life-long
learning.

Thinking
Evolutionarily:
Evolution
Education Across
the Life
Sciences:
Summary of a

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covers the broader issues associated with learning about the nature, processes, and limits of science, since understanding evolutionary science requires a more general appreciation of

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how science works. This report explains the major themes that recurred throughout the convocation, including the structure and content of curricula, the processes of teaching and learning about

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evolution, the tensions that can arise in the classroom, and the target audiences for evolution education.

How did life start? Is the evolution of life describable by any physics-

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like laws?
Stuart
Kauffman's

latest book
offers an explan
ation-beyond
what the laws of
physics can
explain-of the
progression from
a complex
chemical
environment to
molecular

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reproduction,
metabolism and
to early
protocells, and
further
evolution to
what we
recognize as
life. Among the
estimated one
hundred billion
solar systems in
the known
universe,

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evolving life is surely abundant. That evolution is a process of "becoming" in each case. Since Newton, we have turned to physics to assess reality. But physics alone cannot tell us where we came from, how

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we arrived, and why our world has evolved past the point of unicellular organisms to an extremely complex biosphere.

Building on concepts from his work as a complex systems researcher at

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the Santa Fe
Institute,
Kauffman focuses
in particular on
the idea of
cells
constructing
themselves and
introduces
concepts such as
"constraint
closure." Living
systems are
defined by the

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concept of
"organization"
which has not
been focused on
in enough in
previous works.
Cells are
autopoietic
systems that
build
themselves: they
literally
construct their
own constraints

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Of the release
of energy into a
few degrees of
freedom that
constitutes the
very
thermodynamic
work by which
they build their
own self
creating
constraints.

Living cells are
"machines" that

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construct and assemble their own working parts. The emergence of such systems-the origin of life problem-was probably a spontaneous phase transition to self-reproduction in complex enough

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prebiotic
systems. The
resulting

protocells were
capable of
Darwin's
heritable
variation, hence
open-ended
evolution by
natural
selection.

Evolution
propagates this

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burgeoning organization. Evolving living creatures, by existing, create new niches into which yet further new creatures can emerge. If life is abundant in the universe, this self-constructing,

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propagating,
exploding
diversity takes
us beyond
physics to
biospheres
everywhere.

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