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Australia Sucks At
Naming Things We
Made a MYST Book...
That Actually Plays
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evolutionary
consequences of
ontogenetic niche and
habitat shifts The
Greatest Show on Earth
Audiobook #1 * Richard
Dawkins \$5,000 a

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Harry Potter Books To
Movies *Carlos*

Castaneda

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Darwin. Audiobook **The**
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adult books ~~On The~~

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~~Evolutionary And
Ontogenetic~~

This constellation of traits raises questions regarding the evolutionary and ontogenetic origins of TOB, as well as the putative relation between TOB and general intelligence.

~~On the evolutionary and
ontogenetic origins of~~

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~~tool...~~ Evolutionary

Clade-specific ontogenetic differences in skull organization, such as extensive postnatal fusion of cranial bones in crown birds, can explain this pattern. The fact that juvenile and adult skulls in birds do share a similar anatomical integration suggests the presence of a specific

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constraint to their
ontogenetic growth.

And

Evolutionary and
ontogenetic changes of

the anatomical ...

On the evolutionary and
ontogenetic origins of
tool?oriented behaviour
in New Caledonian
crows (*Corvus
moneduloides*) BEN
KENWARD.

Corresponding Author.

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Department of Zoology,
University of Oxford,
South Parks Road,
Oxford OX1 3PS, UK.

Origins Of Tool

~~On the evolutionary and
ontogenetic origins of
tool ...~~

New Caledonian crows
(*Corvus moneduloides*)
are prolific tool users in
captivity and in the
wild, and have an
inherited predisposition

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to express tool-oriented behaviours. To further understand the evolution and development of tool use, we compared the development of object manipulation in New Caledonian crows and common ravens (*Corvus corax*), which do not routinely use tools.

~~[PDF] On the
evolutionary and~~

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~~ontogenetic origins of
tool ...~~

The Evolutionary And
Ontogenetic Origins Of
Tool origination and
development of an
organism (both physical
and psychological, e.g.,
moral development),
usually from the time of
fertilization of the egg
to adult. The term can
also be used to refer to
the study of the entirety

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of an organism's
lifespan..

~~On The Evolutionary
And Ontogenetic
Origins Of Tool~~

One candidate for an evolutionary precursor for TOB in NC crows is food-caching, which is performed to some degree by nearly all corvid species, including NC crows

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(Hunt, 2000; Kenward et al., 2006), and the inferred common ancestor (de Kort & Clayton, 2006). 45

Structurally, caching and TOB both involve the insertion of objects into substrates.

~~On the evolutionary and ontogenetic origins of tool ...~~

The Life Course:

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Evolutionary and
Ontogenetic Dynamics
(LIFE) is a joint
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the evolutionary and

ontogenetic origins of

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~~On The Evolutionary
And Ontogenetic~~

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~~Origins Of Tool~~

Ontogeny is the origination and development of an organism, usually from the time of fertilization of the egg to adult. The term can also be used to refer to the study of the entirety of an organism's lifespan. Ontogeny is the developmental history of an organism within its own lifetime,

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as distinct from phylogeny, which refers to the evolutionary history of a species. In practice, writers on evolution often speak of species as "developing" traits or characteristics. This can be misleading. While

~~Ontogeny~~ — Wikipedia

In science dictionaries you'll come across

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‘ontogeny’ which means the origin of an organism or how it was developed.

‘Phylogeny,’ on the other hand, is the evolution of an organism or how it evolved. Ontogeny and phylogeny are discussed in life science subjects such as biology, microbiology, developmental biology,

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Evolutionary Psychology just to name a few.

Difference Between

Ontogeny and

Phylogeny

These scientists claimed that ontogeny recapitulates phylogeny (ORP). This phrase suggests that an organism's development will take it through each of the adult stages of its

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evolutionary history, or its phylogeny. At the time, some scientists thought that evolution worked by adding new stages on to the end of an organism's development.

~~Ontogeny and phylogeny~~—Evolution which refers to the evolutionary history of a species. In practice,

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writers on evolution
often speak of species as
"developing" traits or
characteristics. This can
be misleading. While
Ontogeny - Wikipedia
On the evolutionary and
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in New Caledonian
crows (*Corvus*
moneduloides) BEN
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~~On The Evolutionary
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Origins Of Tool~~

Ontogenetic
~~Origins Of Tool~~
Since the inception of the notion of human development in the 18th century, researchers have wrestled with the relationship between processes of evolution and processes of ontogenesis. Earlier attempts, such as the classical "ontogenesis as

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recapitulation of

evolution" hypothesis,

were typically one-sided
in emphasis.

Origins Of Tool

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~~Planck Research School~~

~~on ...~~

allometric coefficients,
and ontogenetic trends
between size and shape.

Such an approach is

important to

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evolutionary studies,

because it allows a

study of the

evolutionary process

(allometric hetero-

chrony) that leads to a

given phylogenetic

pattern (Kluge, 1988;

Reis, 1988). If we

consider the statement

of McKinney

~~Allometric Analysis of~~

~~the Ontogenetic~~

Page 29/72

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~~Variation and ...~~

Our results support the hypothesis that there is a link between the evolution of leaf morphology and the ecohydrological niche in *Lasthenia*, and, in the formation of aerenchyma (air space), differentiation between vernal pool and terrestrial taxa is fine-tuned to specific stages

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of plant ontogeny that
reflects the evolution of
heterophylly.

And
Ontogenetic

~~The joint evolution of
traits and habitat:~~

~~ontogenetic ...~~

1. Introduction.

Studying the
evolutionary
mechanisms that
influenced mammalian
diversification and
specialization is one of

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the goals of evolutionary biology, and the study of ontogeny in extinct and extant taxa contributed importantly to this goal over the past few decades [1–6]. Dental ontogenetic parameters, such as the relative timing of dental eruption, provide clues to the evolution ...

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Unexpected

evolutionary patterns of
dental ontogenetic ...

has characterised

ontogenetic trajectories

for now hundreds of
plant species, we still
lack a clear

understanding of the
molecular, ecological
and evolutionary factors
driving these patterns.

In this

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~~Future directions in the
ontogeny of plant
defence ...~~

Static, ontogenetic, and
evolutionary allometry
in all five larval instars
of nine species of the
water strider genera
Gerris and Aquarius
were compared using a
multivariate approach.
Common principal
component analysis
(CPCA), a

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Ontogenetic
Origins Of Tool

generalization extending
principal component
analysis (PCA) to
multigroup situations,
was carried out on
covariance ...

“Ontogeny recapitulates
phylogeny” was
Haeckel’s answer—the
wrong one—to the most
vexing question of

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nineteenth-century

biology: what is the

relationship between

individual development

(ontogeny) and the

evolution of species and

lineages (phylogeny)?

In this, the first major

book on the subject in

fifty years, Stephen Jay

Gould documents the

history of the idea of

recapitulation from its

first appearance among

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the pre-Socratics to its fall in the early twentieth century. Mr. Gould explores recapitulation as an idea that intrigued politicians and theologians as well as scientists. He shows that Haeckel's hypothesis—that human fetuses with gill slits are, literally, tiny fish, exact replicas of their water-breathing

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ancestors—had an influence that extended beyond biology into education, criminology, psychoanalysis (Freud and Jung were devout recapitulationists), and racism. The theory of recapitulation, Gould argues, finally collapsed not from the weight of contrary data, but because the rise of Mendelian genetics

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rendered it untenable.

Turning to modern concepts, Gould demonstrates that, even though the whole subject of parallels between ontogeny and phylogeny fell into disrepute, it is still one of the great themes of evolutionary biology.

Heterochrony—changes in developmental timing, producing

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parallels between ontogeny and phylogeny—is shown to be crucial to an understanding of gene regulation, the key to any rapprochement between molecular and evolutionary biology. Gould argues that the primary evolutionary value of heterochrony may lie in immediate ecological advantages

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for slow or rapid

maturation, rather than
in long-term changes of
form, as all previous
theories proclaimed.

Neoteny—the opposite of
recapitulation—is shown
to be the most important
determinant of human
evolution. We have
evolved by retaining the
juvenile characters of
our ancestors and have
achieved both

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behavioral flexibility
and our characteristic
morphology thereby
(large brains by
prolonged retention of
rapid fetal growth rates,
for example). Gould
concludes that “there
may be nothing new
under the sun, but
permutation of the old
within complex systems
can do wonders. As
biologists, we deal

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directly with the kind of material complexity that confers an unbounded potential upon simple, continuous changes in underlying processes. This is the chief joy of our science.”

Virtually all theories of how humans have become a distinctive species focus on evolution. Here,

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Michael Tomasello

proposes a complementary theory focused on ontogenetic processes. Built on the essential ideas of Vygotsky, his data-driven model explains how those things that make us most human are constructed during the first six years of life.

This book explores the

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importance of
understanding
developmental
processes in analyses of
bat ecology and
evolution.

The authors outline
evolutionary thought
from pre-Darwinian
biology to current
research on the subject.

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They broadly label the factors of evolution as intrinsic and extrinsic, with Darwin favoring the latter by emphasizing the process of natural selection and later followers of Darwin carrying t

The Ontogeny of Information is a critical intervention into the ongoing and perpetually

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troubling nature-nurture debates surrounding human development. Originally published in 1985, this was a foundational text in what is now the substantial field of developmental systems theory. In this revised edition Susan Oyama argues compellingly that nature and nurture are not alternative

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influences on human development but, rather, developmental products and the developmental processes that produce them. Information, says Oyama, is thought to reside in molecules, cells, tissues, and the environment. When something wondrous occurs in the world, we tend to question whether the information guiding

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the transformation was pre-encoded in the organism or installed through experience or instruction. Oyama looks beyond this either-or question to focus on the history of such developments. She shows that what developmental “information” does depends on what is already in place and

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what alternatives are available. She terms this process “constructive interactionism,”

whereby each combination of genes and environmental influences simultaneously interacts to produce a unique result. Ontogeny, then, is the result of dynamic and complex interactions in

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multileveled

developmental systems.

The Ontogeny of

Information challenges

specialists in the fields

of developmental

biology, philosophy of

biology, psychology,

and sociology, and even

nonspecialists, to

reexamine the existing

nature-nurture

dichotomy as it relates

to the history and

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formation of organisms.

And

"This book delves into the many facets of the

study of plant

development and

demonstrates the

importance of

ontogenetic studies in

analyzing the structure,

function, and evolution

of glands, structures,

and organs. The nine

chapters that make up

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this book represent the state of the art of the scientific knowledge on the subject and bring unpublished contributions and important reviews of the most diverse developmental issues of plants compiled for the first time in a single book. Chapter 1 describes an unprecedented way

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secretory ducts form as

the result of cavity

coalescence in

Malvaceae. Chapter 2

describes a case of

homeoheterotopic

alteration between

nectaries and colleters in

Passifloraceae and

analyzes the evolution

of leaf glands in the

family. Chapter 3

emphasizes the

importance of

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anatomical,

histochemical and

ontogenetic studies in

distinguishing colleters

and nectaries in leaves

of *Sapium*

(Euphorbiaceae) and

highlights the

importance of

ontogenetic studies for

the observation of new

colleters since many of

them are deciduous.

Chapter 4 reviews leaf

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development in vascular plants using traditional morphological and anatomical knowledge combined with the most recent data obtained in molecular studies.

Chapter 5 reviews the morphogenesis and evolution of haustoria in mistletoes and evaluates the likely reasons that led to the change from root parasitism to aerial

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parasitism in Santalales. Chapter 6 demonstrates the importance of the meristematic activity and bud formation for the structure of inflorescences in Acanthaceae, revealing the causes of their architectural diversity in genera such as Lepidagathis. Chapter 7 reveals the ontogenetic causes that resulted in

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varying degrees of flower reduction, separation of sexes, and their relationship with pollination in urticalean rosids. Chapter 8 uses the ontogenetic study of flowers to analyze the diversity of polyads in Leguminosae and their importance in the taxonomy of the family and the dispersal mode of pollen. Chapter 9

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investigates the mode of formation of the pseudomonomerous gynoecia using Anacardiaceae as a model and discusses the evolution of this morphological reduction of gynoecium in other lineages of angiosperms"--

This book delves into the many facets of the

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describes a case of homeoheterotopic alteration between nectaries and colleters in Passifloraceae and analyzes the evolution of leaf glands in the family. Chapter 3 emphasizes the importance of anatomical, histochemical and ontogenetic studies in distinguishing colleters

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of *Sapium*

(Euphorbiaceae) and
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ontogenetic studies for
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Anacardiaceae as a model and discusses the evolution of this morphological reduction of gynoecium in other lineages of angiosperms.

An understanding of the processes of plant reproduction is increasingly important in the exploitation of

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plant resources.

Microspore formation is a major event in the life cycles of land plants, allowing the transition from diploid sporophyte generation to the haploid gametophyte generation, and varies greatly between taxa in the diversity of processes involved.

Despite the wealth of information available,

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there are very few sources which bring together the results of research work on the reproduction in all the major plant groups. **Microspores fills this gap by reviewing microsporogenesis from a systematic and evolutionary perspective in groups ranging from algae to angiosperms.

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Special chapters focus on structure, function, cell and molecular processes, and potential biotechnological applications of plant spores and pollen. The result is an up-to-date guide to the applications of modern techniques in the classic area of botany.**This work bridges several disciplines to provide a

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coherent and

authoritative account

which will be essential

reading for research

scientists and lecturers

in botany, evolution,

ultrastructure,

reproductive and

developmental biology,

and palynology.

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