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What is a vertebrate? The Emmy-award winning show ☐ now on its third season ☐

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features multi-coloured, computer-dwelling creatures who love to learn and answer questions through fun songs and ...

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They also give insight on evolutionary questions about the transition from fins as vertebrates acquired limbs and moved onto

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land. In the future, findings from this work will also help answer ...

~~Study finds gene linked to evolution of limb development~~

How does a structure as complex as the vertebrate head form during development?

How is variation in facial morphology

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generated both through evolution and in disease? Research in my lab aims at ...

~~Johann K Eberhart~~

They also give insight on evolutionary questions about the transition from fins as vertebrates acquired limbs and moved onto land. In the future, findings from this work

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will also help answer ...

~~Gene linked to evolution of limb development identified~~

"This was a small thing that was unique to tailless apes," explained Hopi Hoekstra, a professor of zoology at Harvard University who studies genetic changes and

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adaptations in vertebrates.

~~How did humans lose their tails? Scientists discover what happened.~~

Oligodendrocyte precursors first arise in a restricted ventral part of the embryonic spinal cord and migrate laterally and dorsally from there. Later, secondary

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sources develop in the dorsal cord.

## ~~Oligodendrocyte Wars~~

The minimum requirements for a Ph.D. degree are set by the Graduate School at 72 graduate units, including 24 credits of Dissertation ... faculty interested in recruiting students into their ...

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~~Cell and Molecular Biology graduate program handbook~~

Humans employed in animal research, whether inside animal housing or the laboratory, confront significant stress ... has traditionally relied on the use of more than 9 million live vertebrate animals ...



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## ~~Animal Experimentation: Working Towards a Paradigm Change~~

Virtually all vertebrates are susceptible ... medium and dispatched to the laboratory for bacteriological examination. The swabs were plated onto blood, McConkey and Hayflick agar plates during the ...

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~~Conjunctival Microbiological Findings in  
Mediterranean Spur Thighed Tortoises  
(Testudo graeca)~~

The US Congress, the public, and  
laboratory animal medical professionals ...  
care considerations in their NIH grant  
submissions when vertebrate animals are

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proposed for use: Provide a detailed ...

~~Barriers to assessment and treatment of pain in laboratory animals~~

So, a team of scientists and engineers at Harvard's Wyss Institute for Biologically Inspired Engineering, Harvard Medical School (HMS), and the MIT Media Lab

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decided to make one. Machine learning ...

## ~~Gene Expression News and Research~~

One of the main problems with Ramón y Cajal's answers to these issues is that his ... them on the slightest objective evidence?[]  
24. There is no doubt that 150 years after Ramón y Cajal's ...

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~~Viewing the brain through the master hand  
of Ramon y Cajal~~

Cornell Lab of Ornithology, Western  
Foundation of Vertebrate Zoology, Disney  
Worldwide Conservation Fund, and  
Friends of California Condors Wild and  
Free. For answers to commonly asked

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questions ...

~~Get Realtime Bird's Eye View of Condor Chick in Wild~~

Transfer credits are not to exceed 24 in total. Students who join the doctoral program ... 5490L Biology of Muscle and Lab (4 cr)\*\* BIOL.5620/5630L

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Cardiovascular Physiology Lecture and Lab (4 cr)\*\* ...

~~Biomedical Engineering & Biotechnology  
Doctoral Program~~

The Robinson lab focuses on the developmental genetics of vertebrate eye development with a special emphasis on

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lens development and retina regeneration.  
We specialize in genetic engineering of mice ...

~~Michael L. Robinson~~

□ This is the first time in the history of Egyptian vertebrate paleontology to have ... scientists have not been able to reach a



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conclusive answer as to when whales moved out of their point ...

~~Egypt team identifies fossil of land-roaming whale species~~

The Robinson lab focuses on the developmental genetics of vertebrate eye development with a special emphasis on

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lens development and retina regeneration.  
We specialize in genetic engineering of mice ...

A respected resource for decades, the  
Guide for the Care and Use of Laboratory

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Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is

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organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the

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Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and

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environment, husbandry, behavioral and population management, and more.

Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical

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care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized

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facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care



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personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

Learn the how's and why's of bird behavior, from flirtatious mating practices and gorgeous birdsong to flying south for

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the winter. In this lively reference book, Laura Erickson addresses hundreds of real-life questions sent in to the Cornell Lab of Ornithology, the world's foremost authority on birds. With expert advice on bird watching techniques and equipment, feeding and housing birds, protecting habitats, and much more, Erickson guides

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you through the intricacies of the avian world with a contagious passion for our feathered friends.

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Shows science students how to write a clear and to the point laboratory report.

□Carl Zimmer is one of the best science writers we have today.□ □Rebecca Skloot, author of *The Immortal Life of Henrietta*

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Lacks We all assume we know what life is, but the more scientists learn about the living world—from protocells to brains, from zygotes to pandemic viruses—the harder they find it is to locate life's edge. Carl Zimmer investigates one of the biggest questions of all: What is life? The answer seems obvious until you try to

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seriously answer it. Is the apple sitting on your kitchen counter alive, or is only the apple tree it came from deserving of the word? If we can't answer that question here on earth, how will we know when and if we discover alien life on other worlds? The question hangs over some of society's most charged conflicts—whether a fertilized

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egg is a living person, for example, and when we ought to declare a person legally dead. Life's Edge is an utterly fascinating investigation that no one but one of the most celebrated science writers of our generation could craft. Zimmer journeys through the strange experiments that have attempted to re-create life. Literally

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hundreds of definitions of what that should look like now exist, but none has yet emerged as an obvious winner. Lists of what living things have in common do not add up to a theory of life. It's never clear why some items on the list are essential and others not. Coronaviruses have altered the course of history, and yet many



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scientists maintain they are not alive. Chemists are creating droplets that can swarm, sense their environment, and multiply. Have they made life in the lab? Whether he is handling pythons in Alabama or searching for hibernating bats in the Adirondacks, Zimmer revels in astounding examples of life at its most

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bizarre. He tries his own hand at evolving life in a test tube with unnerving results. Charting the obsession with Dr. Frankenstein's monster and how Coleridge came to believe the whole universe was alive, Zimmer leads us all the way into the labs and minds of researchers working on engineering life from the ground up.

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Detailed and concise dissection directions, updated valuable information and extraordinary illustrations make *The Dissection of Vertebrates, 3rd Edition* the new ideal manual for students in comparative vertebrate anatomy, as well as a superb reference for vertebrate and

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functional morphology, vertebrate paleontology, and advanced level vertebrate courses, such as in mammalogy, ornithology, ichthyology, and herpetology. This newly revised edition of the most comprehensive manual available continues to offer today's more visually oriented student with a manual combining

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pedagogically effective text with high-quality, accurate and attractive visual references. This new edition features updated and expanded phylogenetic coverage, revisions to the illustrations and text of the lamprey, shark, perch, mudpuppy, frog, cat, pigeon, and reptile skull chapters, and new sections on

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amphioxus or lancelet (Branchiostoma, Cephalochordata), a sea squirt (Ciona, Urochordata), shark musculature, a gravid shark, shark embryo, cat musculature, and the sheep heart. Using the same systematic approach within a systemic framework as the first two editions, *The Dissection of Vertebrates, 3rd Edition* covers several

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animals commonly used in providing an anatomical transition sequence. Nine animals are covered: amphioxus, sea squirt, lamprey, shark, perch, mudpuppy, frog, cat, and pigeon, plus five reptile skulls, two mammal skulls, and the sheep heart. Winner of a 2020 Textbook Excellence Award (College) (Texty) from

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the Textbook and Academic Authors Association Seven detailed vertebrate dissections, providing a systemic approach Includes carefully developed directions for dissection Original, high-quality award-winning illustrations Clear and sharp photographs Expanded and updated features on phylogenetic coverage New



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sections on: amphioxus (Cephalochordata); sea squirt (Urochordata); shark musculature; gravid shark; shark embryo; cat musculature; sheep heart

☐ Go into partnership with nature; she does more than half the work and asks none of

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the fee. - Martin H. Fisher. Nature has undertaken an immense amount of work throughout evolution. The evolutionary process has provided a power of information that can address key questions such as - Which immune molecules and pathways are conserved across species? Which molecules and pathways are

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exploited by pathogens to cause disease?

What methods can be broadly used or readily adapted for wild immunology?

How does co-infection and exposure to a dynamic environment affect immunity?

Section 1 addresses these questions through an evolutionary approach.

Laboratory mice have been instrumental in

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dissecting the nuances of the immune system. The first paper investigates the immunology of wild mice and reviews how evolution and ecology sculpt differences in the immune responses of wild mice and laboratory mice. A better understanding of wild immunology is required and sets the scene for the

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subsequent papers. Although nature doesn't ask for a fee, it is appropriate that nature is repaid in one form or another. The translational theme of the second section incorporates papers that translate wild immunology back to nature. But any non-human, non-laboratory mouse research environment is hindered by a lack

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of research tools, hence the underlying theme throughout the second section. Physiological resource allocation is carefully balanced according to the most important needs of the body. Tissue homeostasis can involve trade-offs between energy requirements of the host and compensatory mechanisms to respond

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to infection. The third section comprises a collection of papers that employ novel strategies to understand how the immune system is compensated under challenging physiological situations. Technology has provided substantial advances in understanding the immune system at cellular and molecular levels. The

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specificity of these tools (e.g. monoclonal antibodies) often limits the study to a specific species or strain. A consequence of similar genetic sequences or cross-reactivity is that the technology can be adapted to wild species. Section 4 provides two examples of probing wild immunology by adapting technology



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developed for laboratory species.

Exploring Zoology: A Laboratory Guide is designed to provide a comprehensive, hands-on introduction to the field of zoology. This manual provides a diverse series of observational and investigative exercises, delving into the anatomy,

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behavior, physiology, and ecology of the major invertebrate and vertebrate lineages.

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