

# Online Library Animal Eyes Oxford Animal Biology

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A protein in birds' eyes is sensitive to magnetic fields, which may help explain how they navigate across the planet.

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Birds Use Quantum Mechanics to See Magnetic Fields, New Research Suggests  
Many other animals ... Oxford (UK) have been gathering evidence suggesting that the magnetic sense of migratory birds such as European robins is based on a specific light-sensitive protein in the eye.

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Quantum birds: Shedding light on the

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mechanism of magnetic sensing in birds

You know your dog gets your gist when you point and say "go find the ball" and he scampers right to it. This knack for understanding human gestures may seem unremarkable, but it's a complex ...

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You can snuggle wolf pups all you want, they still won't 'get' you quite like your dog. Even if they can be saved, what future awaits Florida's most iconic species? With their food source vanishing, rescued manatees might have no safe place to go.

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Starving manatees overwhelm Florida rescuers. Is there a future for the gentle marine giant?

At 26, Gigi Hadid isn't done playing the role of supermodel. But with a new baby, new priorities, and a new regard for her own

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mental health, she ' s carving out space to do it on her own terms.

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## Gigi Hadid Is Ready to Play By Her Own Rules

That is a skill that not even our closest relative in the animal kingdom can match ... human and made significantly more eye contact with people than the little wolves, the researchers report today in ...

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## Wolves Raised by Humans Can ' t Understand People like Dogs Can

Now, researchers at the University of Capetown have published the first scientific study giving weight to the theory in Biology ... predatory animals. He ' s also curious if black eye markings ...

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Peregrine falcons have natural eye makeup for a pretty fierce reason

It may be too late to save some animals from extinction, but Tullis Matson has a backup plan: freeze their cells to preserve their genes

...

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One man ' s plan to resurrect the animal species we can ' t save

Major clues that the mystery animal was a lizard included the presence of scales; teeth attached directly to its jawbone, rather than nestled in sockets, as dinosaur teeth were; lizard-like eye ...

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

Months ago, I learned of a riveting book called *Hidden: Animals in the*

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Anthropocene ... themselves and consider the world through the eyes of a different species, while holding the truth of ...

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## Psychology Today

State lawmakers approved changes to Rowland ' s charter that give commissioners the authority to fill vacant seats on the town ' s Board of Commissioners.

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Rowland town charter change approved by state lawmakers doesn ' t apply to reason change was requested

Gayle visits Doonies, one of Scotland ' s largest rare and endangered animal farms, and is saddened to hear its future is in jeopardy. It ' s a windy ...

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Doonies: Rare breeds farm at risk of closure offers animal therapy

Looking for an examination copy? If you are interested in the title for your course we can consider offering an examination copy. To register your interest please contact [collegesales@cambridge.org](mailto:collegesales@cambridge.org) ...

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Homosexual Behaviour in Animals  
a Professor of Evolutionary Biology who works on rotifers from the University of Oxford, told Insider. However, he warned that it possible that the animals colonized the ice later than 24,000 ...

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Scientists revived a tiny worm-like animal after 24,000 years frozen in Siberian ice. It was still able to eat and reproduce. Usually, the females expend more energy producing eggs than the males do producing

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sperm, according to Oxford Academic ...  
published by the Royal Society of Biology.  
The researchers liked it ...

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6 weird animals that evolution came up with  
Raised on the family farm in Madras, trio of  
siblings now agriculture teachers The  
Campbell family has deep agricultural roots  
in Jefferson County going back to 1901, but  
one of its most unique crops ...

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Family business is now in the classroom  
"We're not all one-size-fits-all, and biology  
is incredibly complex. It's just exquisite,"  
said Dr. Bill Van Bonn, vice president of  
animal health ... to see up-close eye  
examinations for elderly ...

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Geriatric animals at Shedd Aquarium



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receive specialized care, individualized plans  
Conscious coupling In a recent paper,  
Droege, along with colleagues from Penn  
State ' s psychology and biology  
departments, outlines a new approach for  
investigating consciousness in animals.

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## Psychology Today

“ The way animals sense magnetic fields is a  
mystery. We don ' t know much about it.  
It ' s the last great holy grail of sensory  
biology ... the neurons in our own eyes  
respond to different ...

Animal Eyes provides a comparative  
account of all known types of eye in the  
animal kingdom, outlining their structure  
and function with an emphasis on the nature  
of the optical systems and the physical

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principles involved in image formation. A universal theme throughout the book is the evolution and taxonomic distribution of each type of eye, and the roles of different eye types in the behaviour and ecology of the animals that possess them. In comparing the specific capabilities of eyes, it considers the factors that lead to good resolution of detail and the ability to function under a wide range of light conditions. This new edition is fully updated throughout, incorporating more than a decade of new discoveries and research.

Offers an introductory, but comprehensive, account of all known types of eye, in a book whose size and style made it accessible to both undergraduate and postgraduate students, as well as established researchers in the field. This edition is updated throughout to include developments made within the last 10 years, whilst retaining the structure

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and scope that has made it so popular.

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Animal Osmoregulation collates a widely dispersed literature to produce a comprehensive and authoritative synthesis of the field, providing detailed examples of osmoregulatory processes at the organismal, organ and cellular level. It incorporates clear background information on ion regulation and transport (specifically in the light of recent molecular studies) and illustrates the physical principles to which each organism

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must adhere, as well as the phylogenetic constraints within which it must operate.

Martin Stevens explores the extraordinary variety of senses in the animal kingdom, and discusses the cutting-edge science that is shedding light on these secret worlds. Our senses of vision, smell, taste, hearing, and touch are essential for us to respond to threats, communicate and interact with the world around us. This is true for all animals - their sensory systems are key to survival, and without them animals would be completely helpless. However, the sensory systems of other animals work very differently from ours. For example, many animals from spiders to birds can detect and respond to ultraviolet light, to which we are blind. Other animals, including many insects, rodents, and bats can hear high-frequency ultrasonic sounds well beyond our own hearing range. Many other species have

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sensory systems that we lack completely, such as the magnetic sense of birds, turtles, and other animals, or the electric sense of many fish. These differences in sensory ability have a major bearing on the ways that animals behave and live in different environments, and also affect their evolution and ecology. In this book, Martin Stevens explores the remarkable sensory systems that exist in nature, and what they are used for. Discussing how different animal senses work, he also considers how they evolve, how they are shaped by the environment in which an animal lives, and the pioneering science that has uncovered how animals use their senses. Throughout, he celebrates the remarkable diversity of life, and shows how the study of sensory systems has shed light on some of the most important issues in animal behaviour, physiology, and evolution.

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This textbook is intended for use in a course for undergraduate students in biology, neuroscience or psychology who have had an introductory course on the structure and function of the nervous system. Its primary purpose is to provide a working vocabulary and knowledge of the biology of vision and to acquaint students with the major themes in biological vision research. Part I treats the eye as an image-forming organ and provides an overview of the projections from the retina to key visual structures of the brain. Part II examines the functions of the retina and its central projections in greater detail, building on the introductory material of Part I. Part III treats certain special topics in vision that require this detailed knowledge of the structure and properties of the retina and visual projections.

Optics--a field of physics focusing on the study of light--is also central to many areas

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of biology, including vision, ecology, botany, animal behavior, neurobiology, and molecular biology. The Optics of Life introduces the fundamentals of optics to biologists and nonphysicists, giving them the tools they need to successfully incorporate optical measurements and principles into their research. S ö nke Johnsen starts with the basics, describing the properties of light and the units and geometry of measurement. He then explores how light is created and propagates and how it interacts with matter, covering topics such as absorption, scattering, fluorescence, and polarization. Johnsen also provides a tutorial on how to measure light as well as an informative discussion of quantum mechanics. The Optics of Life features a host of examples drawn from nature and everyday life, and several appendixes that offer further practical guidance for researchers. This concise book uses a minimum of equations

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and jargon, explaining the basic physics of light in a succinct and lively manner. It is the essential primer for working biologists and for anyone seeking an accessible introduction to optics. Some images inside the book are unavailable due to digital copyright restrictions.

What is animal welfare? Why has it proved so difficult to find a definition that everyone can agree on? This concise and accessible guide is for anyone who is interested in animals and who has wondered how we can assess their welfare scientifically. It defines animal welfare as 'health and animals having what they want', a definition that can be easily understood by scientists and non-scientists alike, expresses in simple words what underlies many existing definitions, and shows what evidence we need to collect to improve animal welfare in practice. Above all, it puts the animal's own point of



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view at the heart of an assessment of its welfare. But, can we really understand what animals want? A consistent theme running through the book is that not only is it possible to establish what animals want, but that this information is vital in helping us to make sense of the long and often confusing list of welfare measures that are now in use such as 'stress' and 'feel good hormones', expressive sounds and gestures, natural behaviour, cognitive bias, and stereotypes. Defining welfare as 'health and what animals want' allows us to distinguish between measures that are simply what an animal does when it is alert, aroused, or active and those measures that genuinely allow us to distinguish between situations the animals themselves see as positive or negative. Sentience (conscious feelings of pleasure, pain, and suffering) is for many people the essence of what is meant by welfare, but studying consciousness is notoriously

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difficult, particularly in non-human species. These difficulties are discussed in the context of our current - and as yet incomplete - knowledge of human and animal consciousness. Finally, the book highlights some key ideas in the relationship between animal welfare science and animal ethics and shows how closely the well-being of humans is linked to that of other animals. The Science of Animal Welfare is an ideal companion for undergraduate and graduate students taking courses in animal behaviour and welfare, as well as for professional researchers, practitioners and animal welfare consultants. At the same time, it is easily understandable to non-scientists and anyone without prior knowledge but with an interest in animals and the rapidly evolving science of animal welfare.

"The evolution of the eye spans 3.75 billion years from single cell organisms with

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eyespot to Metazoa with superb camera style eyes. At least ten different ocular models have evolved independently into myriad optical and physiological masterpieces. The story of the eye reveals evolution's greatest triumph and sweetest gift. This book describes its journey"--Provided by publisher.

The Oxford Animal Biology Series is an innovative new series of supplementary undergraduate texts in comparative animal biology. Topics within each book are addressed using examples from throughout the animal kingdom, looking for parallels that transcend taxonomy. Further reading sections will guide the student into the literature at greater depth. The series will be international in scope, both in terms of the species used as examples and in references to scientific work. *Energy for Animal Life*, the first book in the series, is about how animals

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get energy, and how they use it, a central topic in our understanding of animal biology. Life depends on energy, and much of the activity of animals is devoted to getting the food which is their energy source. It encompasses the food chain, from solar radiation and photosynthesis to food sources for herbivores and for carnivores, and compares the merits of different designs of digestive system, and of different strategies for finding and choosing food. Of course, animal energy isn't simply a question of feeding, and several chapters in turn look at energy use. The energy costs of motion - of running, swimming, and flight - are discussed in one chapter, and the energetic demands of growth and reproduction in another. A chapter on body temperature shows how the processes of life go faster at higher temperatures, and discusses how animals regulate their temperature. A final chapter draws all of these aspects of energy

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use together, and considers the energy budgets of several different animals, assessing the different energy gains and costs of their everyday activities in the wild. The book is truly comparative, drawing on examples from a wide range of animal species, and lots of practical information on relevant experiments is included. The style is very accessible, and suitable as supplementary reading for first and second year undergraduates taking a degree course in biological sciences.

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