

## Chapter 25 Biology Vertebrate Diversity Diagnostic Test

Despite being recognized and fought against over countless centuries, human viral pathogens continue to cause major public health problems worldwide—killing millions of people and costing billions of dollars in medical care and lost productivity each year. With contributions from specialists in their respective areas of viral pathogen research, *Molecular Detection of Human Viral Pathogens* provides a reliable reference on molecular detection and identification of major human viral pathogens. Each chapter briefly reviews the classification, epidemiology, clinical features, and diagnosis of one related viral pathogen or a group of them. The clinical sample collection and preparation procedures are outlined, and a selection of representative stepwise molecular detection protocols is covered. The chapters conclude with a discussion on further research requirements relating to improved diagnosis. With its judicious selection of streamlined, ready-to-use protocols for major human viral pathogens—including commercial kits—*Molecular Detection of Human Viral Pathogens* is an indispensable tool for medical, veterinary, and industrial laboratory scientists involved in virus determination.

*Issues in Global Environment: Biology and Geoscience: 2011 Edition* is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Global Environment—Biology and Geoscience. The editors have built *Issues in Global Environment: Biology and Geoscience: 2011 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Global Environment—Biology and Geoscience in this

eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Issues in Global Environment: Biology and Geoscience: 2011 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

This volume represents the published proceedings of an international conference on the Neurobiology and Evolution of the Mechanosensory Lateral Line System held August 31 to September 4, 1987, at the Center for Interdisciplinary Research at the University of Bielefeld, West Germany. The goal of this conference was to bring together researchers from all over the world to share information about a major aquatic sensory system, the evolution and function of which have largely remained an enigma since the 18th century. The "lateral line" or "lateralis" system has been used as an umbrella term to describe what originally (without the aid of modern anatomical techniques) looked like a series of pits, grooves, and lines on the head and trunk of fishes and some amphibians. For at least the past 30 years, however, it has been recognized that the lateralis system comprises not one, but at least two functional classes of receptors: mechanoreceptors and electroreceptors. The relative ease with which the appropriate stimulus could be defined and measured for the electroreceptive class has resulted in an explosion of information on this submodality during the past 20 years. As a result, there is little ambiguity about the overall function of the electrosensory system, now generally regarded as an independent system in its own right. A similarly clear definition for the function of the

mechanosensory lateralis system has not been as forthcoming.

The second edition of *The Diversity of Fishes* represents a major revision of the world's most widely adopted ichthyology textbook. Expanded and updated, the second edition is illustrated throughout with striking color photographs depicting the spectacular evolutionary adaptations of the most ecologically and taxonomically diverse vertebrate group. The text incorporates the latest advances in the biology of fishes, covering taxonomy, anatomy, physiology, biogeography, ecology, and behavior. A new chapter on genetics and molecular ecology of fishes has been added, and conservation is emphasized throughout. Hundreds of new and redrawn illustrations augment readable text, and every chapter has been revised to reflect the discoveries and greater understanding achieved during the past decade. Written by a team of internationally-recognized authorities, the first edition of *The Diversity of Fishes* was received with enthusiasm and praise, and incorporated into ichthyology and fish biology classes around the globe, at both undergraduate and postgraduate levels. The second edition is a substantial update of an already classic reference and text. Companion resources site This book is accompanied by a resources site: [www.wiley.com/go/helfman](http://www.wiley.com/go/helfman) The site is being constantly updated by the author team and provides:

- Related videos selected by the authors
- Updates to the book since publication
- Instructor resources
- A chance to send in feedback

This book *Trends in Wildlife Biodiversity and Conservation and Management* has been edited in two volume, on most important aspects of wildlife. It contain 32 chapter contributed by many eminent scientists, officers and teachers from India and United Kingdom. Volume 1 contains information on the topics namely: Status of wildlife management in India, Karnataka, Bhadra wild life sanctuary in the Western Ghats, Parental care in asiatic elephants, Territory protection

and scent marking in big cats, Child lifting wolves, Medicinal smuggling for tiger bones, Acoustic communication in anurans, Conflicts between man and elephants, Protection strategies for migratory birds, Mugger crocodiles of Dandell WLS, and Ornamental orchids of India. The Volume 2 comprises information on Basic concepts of biodiversity, Biodiversity of Drosophila, Ants in the Western Ghats, Biodiversity of hillstream fishes of Srinagar Garhwal-Himalaya, Medicinal plants of Western Ghats, Ecology of endangered Gangaitic dolphin, Problems and perspective of avian and vertebrate pest management, Deforestation problems in Santhal Pargana, Siberian cranes, Bird census methods and Role of Zoo s National Parks and Sanctuaries in the conservation and management of wildlife in India. These books apart from providing good references, these also serve as a guide and inspire future research on wildlife. The students, teachers, scientists and forest officers are expected to find this as a very useful source, in the field of wildlife studies. Vol 1 Chapter 1: Status of Wildlife Management in India: An Overview by B B Hosetti and Gina Caplen, Chapter 2: Wildlife Management in Karnataka: An Appraisal by Venkateshwarlu, M, Chapter 3: Conservation and Management of Wildlife in Bhadra Wildlife Sanctuary, Karnataka by Gina Caplen and Frost S, Chapter 4: Capative Breeding of Asian Elephants (*Elephas maximus*): The Importance of Producing Socially Competent Animals by Paul A Rees, Chapter 5: Scent Marketing by Big Cats: Chemical Communication and Eco-ethological Implications by R L Brahmachari, Chapter 6: Child Lifting Wolves in India: A Strategy for Their Management and Control by Kishan Singh Rajpurohit, Chapter 7: Prospects and Perspectives of Project Tiger in India by B B Hosetti and B C Somanath, Chapter 8: Acoustic Communication in Indian Anurans by Ravishankar D Kanamadi, Chapter 9: Conflicts Between Man and Elephants by B B Hosetti, Chapter 10:

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Conservation and Management Strategy for the Water Flows of Minor Irrigation Tank Habitats and Their Importance as Stopover Sites in Dharwad District by J C Uttangi, Chapter 11: The Re-introduction of the Wolf (*Canis lupus*) and the Beaver (*Castor fiber*) into Scotland by Arjuna Korale and Stan Frost, Chapter 12: Ecology of Marsh Crocodile *Crocodylus palustris* in the Kali River of Western Ghat, Dandeli, Karnataka by S Basavarajappa, Chapter 13: Eco Biology of Weaver Bird *Ploceus philippinus* in the Western Ghat Area of B R Project by K L Naik and B B Hosetti, Chapter 14: Eco-ornithological Studies on Gudavi Bird Sanctuary Shimoga, Karnataka by B B Hosetti, Somanath B C and K L Naik, Chapter 15: Eco-biology of a Pentatomid Bug *Cyclopelta cissifolia* W. by B B Hosetti and Naveed A, Chapter 16: Ecology and Wildlife Status of Orchids by Sulabha Phatak. Vol II Chapter 17: Biodiversity: An Introduction by Arvind N A and Dinesh Rao, Chapter 18: Biodiversity and Conservation of Ants: An Overview by T M Musthak Ali and A K Chakravarthy, Chapter 19: Biodiversity of *Drosophila* of South India by Hegde S N, Vasudev V and M S Krishna, Chapter 20: Biodiversity in Hillstream Fishes of Garhwal Himalaya: Their Food and Feeding Behaviour by N Singh and R Subbaraj, Chapter 21: Biodiversity of Threatened Species of Medicinal Plants in India: An Appraisal by P E Rajasekharan, Chapter 22: Ethological Studies of Dolphin (*Platinista gangaitica*) with Reference to Conservation Strategies by Arvind Kumar and A K Singh, Chapter 23: Impact of Deforestation on Wildlife Resources and their Conservation in Santal Pargana of Jharkhand Pradesh by P K Verma and Arvind Kumar, Chapter 24: Vertebrate Pest Management in Karnataka by A K Chakravarthy, Chapter 25: Shifting Cultivation (Jhooming) and Wildlife Conservation: A Case Study from North-East India by A K Gupta, Chapter 26: Bird Depredation and Management in Karnataka by A K Chakravarthy, Chapter 27: Dooming

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Mandagadde Bird Sanctuary (MBS) Karnataka by M Venkateswarlu and D C Savita, Chapter 28: The Conflicts Between Man and Birds by B B Hosetti and M B Nadoni, Chapter 29: Siberian Crane: Whether It Will Survive in the Next Century? by B H Bhaghya, Chapter 30: Bird Counting Methods by D S Sunil, Chapter 31: Glimpses of Earthworm Bioresources of India by G Tripathi and Poonam Bhardwaj, Chapter 32: Role of Indian Zoos, National Parks and Sanctuaries for Conservation of Some Wild Mammals by A Chakrabarthy, G R Saha and A K Panigrahi.

Advances in Insect Physiology is committed to publishing volumes containing comprehensive and in-depth reviews on all aspects of insect physiology. First published in 1963, these volumes are an essential reference source for invertebrate physiologists, insect neurobiologists, entomologists, zoologists and insect biochemists. This volume is themed on small RNAs and RNAi in insects. Contains comprehensive and in-depth reviews Essential reference source for invertebrate physiologists, insect neurobiologists, entomologists, zoologists and insect biochemists This volume is themed on small RNAs and RNAi in insects Bones and Cartilage provides the most in-depth review ever assembled on the topic. It examines the function, development and evolution of bone and cartilage as tissues, organs and skeletal systems. It describes how bone and cartilage is developed in embryos and are maintained in adults, how bone reappears when we break a leg, or even regenerates when a newt grows a new limb, or a lizard a tail. This book also looks at the molecules and cells that make bones and cartilages and how they differ in various parts of the body and across species. It

answers such questions as “Is bone always bone? “Do bones that develop indirectly by replacing other tissues, such as marrow, tendons or ligaments, differ from one another? “Is fish bone the same as human bone? “Can sharks even make bone? and many more. \* Complete coverage of every aspect of bone and cartilage \* Full of interesting and unusual facts \* The only book available that integrates development and evolution of the skeleton \* Treats all levels from molecular to clinical, embryos to evolution \* Written in a lively, accessible style \* Extensively illustrated and referenced \* Integrates analysis of differentiation, growth and patterning \* Covers all the vertebrates as well as invertebrate cartilages \* Identifies the stem cells in embryos and adults that can make skeletal tissues

Advances in Conservation Research and Application / 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Conservation. The editors have built Advances in Conservation Research and Application / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Conservation in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Conservation Research and Application / 2012 Edition has been

produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Over nine successful editions, CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook. The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline. It is the only biology text and media product that helps students to make connections across different core topics in biology, between text and visuals, between global and Australian/New Zealand biology, and from scientific study to the real world. The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative, superior pedagogy, and innovative use of art and photos to promote student learning. It continues to engage students with its dynamic coverage of the essential elements of this critical discipline. This Tenth Edition, with an increased focus on evolution, ensures students receive the most up-to-date, accurate and relevant information.

For use in secondary schools.

New edition of a standard introductory textbook.

The visual world of animals is highly diverse and often very different from that of humans. This book provides an extensive review of the latest behavioral and neurobiological research on animal vision, detailing fascinating species similarities and differences in visual processing.

The Sixth Edition of *BIOLOGY TODAY AND TOMORROW WITH PHYSIOLOGY* helps students build critical-thinking skills they will use as responsible, science-literate citizens.

Packed with beautiful art and current applications, the book's straightforward writing style and chunked content help students grasp the fundamentals of biology without overwhelming them with detail. Content updates reflect current research, new technology and the social implications of both, while active learning tools are woven into the narrative and art. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

To develop a science of hearing that is intellectually satisfying we must first integrate the diverse, extensive body of comparative research into an evolutionary context. The need for this integration in fields of comparative anatomy, physiology, psychophysics, and a conceptual framework in which it could be structured, were demonstrated in landmark biology, ontogeny, and paleontology. Before the papers by van Bergeijk in 1967 and Wever in 1974. The five-day conference was held at the Mote Marine Laboratory in Sarasota, Florida, May 1990. The invited participants came from

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preliminary manuscripts of the invited However, not since 1965, when the American papers were distributed to all participants. This facilitated - even encouraged - discussions through Society of Zoologists sponsored an evolutionary conference entitled "The Vertebrate Ear;" has there out the conference which could be called, among other things, "lively. " The preview of papers, along been a group effort to assemble and organize our current knowledge on the evolutionary-as with the free exchange of information and opinion, opposed to comparative-biology of hearing. also helped improve the quality and consistency of In the quarter century since that conference the final manuscripts included in this volume. there have been major changes in evolutionary In addition to the invited papers, several studies concepts (e. g. , punctuated equilibrium), in sys were presented as posters during evening sessions. In this landmark work, the author team led by Dr. Sean Carroll presents the general principles of the genetic basis of morphological change through a synthesis of evolutionary biology with genetics and embryology. In this extensively revised second edition, the authors delve into the latest discoveries, incorporating new coverage of comparative genomics, molecular evolution of regulatory proteins and elements, and microevolution of animal development. An accessible text, focusing on the most well-known genes, developmental processes and taxa. Builds logically from developmental genetics and regulatory mechanisms to evolution at different genetic morphological levels. Adds major insights from recent genome studies, new evo-devo biology research findings, and a new chapter on models of variation and divergence among closely related species. Provides in-depth focus on key concepts through well-developed case studies. Features clear, 4-color illustrations and photographs, chapter summaries, references and a glossary. Presents the research of Dr. Carroll, a pioneer in the field and the past

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president of the Society for Developmental Biology. An Instructor manual CD-ROM for this title is available. Please contact our Higher Education team at [HigherEducation@wiley.com](mailto:HigherEducation@wiley.com) for more information.

This book is the first of its kind to explain the fundamentals of evolutionary genomics. The comprehensive coverage includes concise descriptions of a variety of genome organizations, a thorough discussion of the methods used, and a detailed review of genome sequence processing procedures. The opening chapters also provide the necessary basics for readers unfamiliar with evolutionary studies. Features: introduces the basics of molecular biology, DNA replication, mutation, phylogeny, neutral evolution, and natural selection; presents a brief evolutionary history of life from the primordial seas to the emergence of humans; describes the genomes of prokaryotes, eukaryotes, vertebrates, and humans; reviews methods for genome sequencing, phenotype data collection, homology searches and analysis, and phylogenetic tree and network building; discusses databases of genome sequences and related information, evolutionary distances, and population genomics; provides supplementary material at an associated website.

This comprehensive reference is clearly destined to become the definitive anatomical basis for all molecular neuroscience research. The three volumes provide a complete overview and comparison of the structural organisation of all vertebrate groups, ranging from amphioxus and lamprey through fishes, amphibians and birds to mammals. This thus allows a systematic treatment of the concepts and methodology found in modern comparative neuroscience. Neuroscientists, comparative morphologists and anatomists will all benefit from: \* 1,200 detailed and standardised neuroanatomical drawings \* the illustrations were painstakingly hand-

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drawn by a team of graphic designers, specially commissioned by the authors, over a period of 25 years \* functional correlations of vertebrate brains \* concepts and methodology of modern comparative neuroscience \* five full-colour posters giving an overview of the central nervous system of the vertebrates, ideal for mounting and display This monumental work is, and will remain, unique; the only source of such brilliant illustrations at both the macroscopic and microscopic levels.

Engage your students and strike the perfect balance between level of detail and accessibility! Written for a one-semester, non-Biology majors course, **BIOLOGY TODAY AND TOMORROW** is packed with applications that are relevant to a student's daily life. The clear, straightforward writing style, in-text learning support, and trendsetting art help students understand key concepts. The accompanying MindTap for Biology further improves comprehension and outcomes by increasing student effort engagement and retention. Overall, this accessible and engaging introduction to biology provides an understanding of biology and the process of science while developing the critical-thinking skills students need to become responsible citizens of the world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Recent decades have witnessed strong declines in fish stocks around the globe, amid growing concerns about the impact of fisheries on marine and freshwater biodiversity. Fisheries biologists and managers are therefore increasingly asking about aspects of ecology, behaviour, evolution and biodiversity that were traditionally studied by people working in very separate fields. This has

highlighted the need to work more closely together, in order to help ensure future success both in management and conservation. The Handbook of Fish Biology and Fisheries has been written by an international team of scientists and practitioners, to provide an overview of the biology of freshwater and marine fish species together with the science that supports fisheries management and conservation. This volume, subtitled Fish Biology, reviews a broad variety of topics from evolutionary relationships and global biogeography to physiology, recruitment, life histories, genetics, foraging behaviour, reproductive behaviour and community ecology. The second volume, subtitled Fisheries, uses much of this information in a wide-ranging review of fisheries biology, including methods of capture, marketing, economics, stock assessment, forecasting, ecosystem impacts and conservation. Together, these books present the state of the art in our understanding of fish biology and fisheries and will serve as valuable references for undergraduates and graduates looking for a comprehensive source on a wide variety of topics in fisheries science. They will also be useful to researchers who need up-to-date reviews of topics that impinge on their fields, and decision makers who need to appreciate the scientific background for management and conservation of aquatic ecosystems. To order volume I, go to the box in the top right hand corner. Alternatively to order volume II, go

to:<http://www.blackwellpublishing.com/book.asp?ref=063206482X> or to order the 2 volume set, go

to:<http://www.blackwellpublishing.com/book.asp?ref=0632064838>. Provides a unique overview of the study of fish biology and ecology, and the assessment and management of fish populations and ecosystems. The first volume concentrates on aspects of fish biology and ecology, both at the individual and population levels, whilst the second volume addresses the assessment and management of fish populations and ecosystems. Written by an international team of expert scientists and practitioners. An invaluable reference tool for both students, researchers and practitioners working in the fields of fish biology and fisheries.

Australia's arid outback is teeming with life ... when you know where to look. From taipan snakes and pelicans to hippie activists and hardline miners, John Read brings to life the characters, creatures and cultures of the outback. Through vivid, personal stories he shares his experience as an ecologist making new discoveries; challenging conventional approaches to pastoralism, mining, tourism and environmental management; and witnessing the precarious balance of nature as species are pitted against the harsh climate of the outback. Written in an accessible and non-scientific style, *Red Sand Green Heart: Ecological adventures in the outback* evokes a humorous, entertaining and informative

picture of Australia's desert region and the environmental issues that affect us all. This textbook examines selected groups of marine organisms within a framework of basic biological principles and processes. With attention to taxonomic, evolutionary, ecological, behavioral, and physiological aspects of biological study, the book contains chapters on habitat, patterns of association, phytoplankton, marine plants, protozoans and inv

Vertebrate palaeontology is a lively field, with new discoveries reported every week... and not only dinosaurs! This new edition reflects the international scope of vertebrate palaeontology, with a special focus on exciting new finds from China. A key aim is to explain the science. Gone are the days of guesswork. Young researchers use impressive new numerical and imaging methods to explore the tree of life, macroevolution, global change, and functional morphology. The fourth edition is completely revised. The cladistic framework is strengthened, and new functional and developmental spreads are added. Study aids include: key questions, research to be done, and recommendations of further reading and web sites. The book is designed for palaeontology courses in biology and geology departments. It is also aimed at enthusiasts who want to experience the flavour of how the research is done. The book is strongly phylogenetic, and this makes it a source of current data on vertebrate evolution.

The animals loosely termed fish constitute more than half of all known vertebrate species. There are approximately 27,000 described living species of bony fishes (Euteleostomi = Osteichthyes), about 70 species of hagfishes and some 34 species of lampreys. Approximately 970 species are chondrichthyans, the sharks and their relatives, which were the subject of volume 3 in this series. It is perhaps because fishes live in a buoyant medium, whether it be fresh or sea water, that they show a diversity in body shapes that is unparalleled by other vertebrates. There is also a unique diversity in the modes of reproduction, whether by external or internal fertilization, and this, with the morphology and fine structure of the reproductive system and its components, is the subject of Part A. Part B deals with complementary topics: testes, sperm, and sperm competition; endocrinology of reproduction; pheromones and reproduction; copulatory structures: taxonomic overview and the potential for sexual selection; sexual selection: signaling and courtship; adaptation and evolution of reproductive mode in copulating cottoid species; fertilization; sex determination; parental care; reproduction in relation to conservation and exploitation of marine fishes; Cryopreservation of Gametes; Embryogenesis and Development; and Molecular Genetics of Development. Biological control – utilizing a population of natural enemies to seasonally or permanently suppress pests – is not a new concept. The cottony cushion scale,

which nearly destroyed the citrus industry of California, was controlled by an introduced predatory insect in the 1880s. Accelerated invasions by insects and spread of weedy non-native plants in the last century have increased the need for the use of biological control. Use of carefully chosen natural enemies has become a major tool for the protection of natural ecosystems, biodiversity and agricultural and urban environments. This book offers a multifaceted yet integrated discussion on two major applications of biological control: permanent control of invasive insects and plants at the landscape level and temporary suppression of both native and exotic pests in farms, tree plantations, and greenhouses. Written by leading international experts in the field, the text discusses control of invasive species and the role of natural enemies in pest management. This book is essential reading for courses on Invasive Species, Pest Management, and Crop Protection. It is an invaluable reference book for biocontrol professionals, restorationists, agriculturalists, and wildlife biologists. Further information and resources can be found on the Editor's own website at: [www.invasiveforestinsectandweedbiocontrol.info/index.htm](http://www.invasiveforestinsectandweedbiocontrol.info/index.htm)

Written by a team of best-selling authors, *BIOLOGY: THE UNITY AND DIVERSITY OF LIFE*, 14th Edition reveals the biological world in wondrous detail. Packed with eye-catching photos and images, this text engages students with applications and activities that encourage critical

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thinking. Chapter opening Learning Roadmaps help students focus on the topics that matter most and section-ending “Take Home Messages” reinforce key concepts. Helpful in-text features include a running glossary, case studies, issue-related essays, linked concepts, self-test questions, data analysis problems, and more. The accompanying MindTap for Biology is the most engaging and easiest to customize online solution in Biology. Known for a clear, accessible style, BIOLOGY: THE UNITY AND DIVERSITY OF LIFE, 14th Edition puts the living world of biology under a microscope for students to analyze, understand, and enjoy! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Tenth Edition of Morrissey and Sumich’s classic text, Introduction to the Biology of Marine Life continues to enlighten and engage students on the many wonders of marine organisms and the remarkable environments in which they live. This updated edition includes coverage of recent breakthroughs in research and technology, and maintains the accessible student-friendly style for which it is known. A Student Companion Website provides resources to expand the scope of the textbook and makes sure students have access to the most up-to-date information in marine biology. Students will benefit from a variety of study aids, including chapter outlines, an interactive glossary, animated flash cards, and review questions. Carefully chosen links to relevant Web sites enable students to explore specific topics in more detail

Biology: The Unity and Diversity of LifeCengage Learning

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