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Many of the characteristics that distinguish plants from other living organisms can be traced to their bacterial origin early in the history of life. These features-such as a multicellular haploid life stage, prevalent hermaphroditism, self-fertilization, and general dependence on biotic

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and abiotic vectors for reproduction-stem directly from the plant's ability to obtain energy from the sun. This novel mode of energy capture had far-ranging implications for plant evolution. It not only fueled the tremendous diversification of life on Earth that followed, but also had far-ranging implications for the

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photosynthetic microorganisms and eventually for land plants. Understanding the evolutionary processes for the proliferation and diversification of plants requires an appreciation of their unique biological features.

While the processes of mutation, selection,

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genetic variation within
populations, and
ultimately the rates and
patterns of

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discussion of subjects including population genetics, phylogeography, phylogenetics, ecological genetics, and genomics. The book fills a need for modern coverage of these topics, all of which are essential to a wide range of advanced courses in plant biology.

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assessment of leading
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science that is now
being used to study a
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& Smol, 2001a)
examined the
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cores, chronological techniques, and large-scale basin analysis methods. Volume 2 (Last & Smol, 2001b) focused on physical and chemical methods.

Volume 3 (Smol et al. , 2001), along with this book, summarize the many biological methods and techniques that are available to study long-term

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changeusing
informationpreserved in
sedimentary profiles. A
subsequent volume
(Birks et al. , in
preparation) will deal
with statistical and data
handling procedures. It
is our intent that these
books will provide
sufficient detail and
breadth to be useful
handbooks for both

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seasoned practitioners
as well as newcomers to
the area of
paleolimnology. These
books will also
hopefully be useful to
non-paleolimnologists
(e. g. , limnologists,
archeologists,
palynologists,
geographers, geologists,
etc.) who continue to
hear and read about pal-
limnology, but have

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little chance to explore the vast and sometimes difficult to access journal-based reference material for this rapidly expanding field.

Although the chapters in these volumes target mainly lacustrine settings, many of the techniques described can also be readily applied to fluvial, glacial, marine,

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interventions increasingly turn to systematic reviews for the best summary of the evidence. Systematic reviews identify, select, assess, and synthesize the findings of similar but separate studies, and can help clarify what is known and not known about the potential benefits and harms of drugs, devices, and

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other healthcare
services. Systematic
reviews can be helpful
for clinicians who want
to integrate research
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systematic reviews are of uncertain or poor quality. There are no universally accepted standards for developing systematic reviews leading to variability in how conflicts of interest and biases are handled, how evidence is appraised, and the overall scientific rigor of the process. In

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Health Care the Institute
of Medicine (IOM)

recommends 21

standards for developing
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reviews of comparative
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The standards address
the entire systematic
review process from the
initial steps of
formulating the topic
and building the review
team to producing a

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detailed final report that synthesizes what the evidence shows and where knowledge gaps remain. Finding What Works in Health Care also proposes a framework for improving the quality of the science underpinning systematic reviews. This book will serve as a vital resource for both sponsors and

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producers of systematic
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The themes introduced here are amplified and explored in detail by the contributing authors, who explore the mechanisms and unique circumstances by which evolution, biology, history, and current context have contrived to drive the emergence of different zoonotic agents by a series of related events.

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The field of plant taxonomy has transformed rapidly over the past fifteen years, especially with regard to improvements in cladistic analysis and the use of new molecular data. The second edition of this popular resource reflects these far-reaching and dramatic developments

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Synthesizing current
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provides the most up-to-
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This text is divided into two parts: Part 1 explains the principles of taxonomy, including the importance of systematics, characters, concepts of categories, and different approaches to biological classification. Part 2 outlines the different types of data used in plant taxonomic studies with suggestions on

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their efficacy and modes of presentation and evaluation. This section also lists the equipment and financial resources required for gathering each type of data.

References throughout the book illuminate the historical development of taxonomic terminology and philosophy while citations offer further

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study. Plant Taxonomy is also a personal story of what it means to be a practicing taxonomist and to view these activities within a meaningful conceptual framework. Tod F. Stuessy recalls the progression of his own work and shares his belief that the most creative taxonomy is done by those who have

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a strong conceptual

grasp of their own

research.

Destruction of habitat

due to urban sprawl,

pollution, and

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population declines or

even extinction of many

of the world's

approximately 2,600

snake species.

Furthermore,

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misconceptions about snakes have made them among the most persecuted of all animals, despite the fact that less than a quarter of all species are venomous and most species are beneficial because they control rodent pests. It has become increasingly urgent, therefore, to develop viable

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conservation strategies
for snakes and to
investigate their
importance as monitors
of ecosystem health and
indicators of habitat
sustainability. In the
first book on snakes
written with a focus on
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Richard A. Seigel bring
together leading
herpetologists to review

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and synthesize the
ecology, conservation,
and management of
snakes worldwide.

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ecology and
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conservation unites the twelve chapters, each of which addresses a major subdiscipline within snake ecology. Applied topics such as methods and modeling and strategies such as captive rearing and translocation are also covered. Each chapter provides an essential framework and indicates specific directions for

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future research, making this a critical reference for anyone interested in vertebrate conservation generally or for anyone implementing conservation and management policies concerning snake populations.

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