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*This volume brings
together a set of reviews*

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*that provide a summary of
our current knowledge of
the proteolytic machinery
and of the pathways of
protein breakdown of
prokaryotic and eukaryotic
cells. Intracellular*

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protein degradation is much more than just a mechanism for the removal of incorrectly folded or damaged proteins. Since many short-lived proteins have important regulatory

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*functions, proteolysis
makes a significant
contribution to many
cellular processes
including cell cycle
regulation and
transcriptional control. In*

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*addition, limited
proteolytic cleavage can
provide a rapid and
efficient mechanism of
enzyme activation or
inactivation in eukaryotic
cells. In the first*

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chapter, Maurizi provides an introduction to intracellular protein degradation, describes the structure and functions of bacterial ATP-dependent proteases, and explores

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the relationship between chaperone functions and protein degradation. Many of the principles also apply to eukaryotic cells, although the proteases involved are often not the

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*same. Interestingly,
homologues of one of the
bacterial proteases, Ion
protease, have been found
in mitochondria in yeast
and mammals, and
homologues of proteasomes,*

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which are found in all eukaryotic cells (see below), have been discovered in some eubacteria. Studies of proteolysis in yeast have contributed greatly to the

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*elucidation of both
lysosomal (vacuolar) and
nonlysosomal proteolytic
pathways in eukaryotic
cells. Thumm and Wolf
(chapter 2) describe
studies that have*

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*elucidated the functions
of proteasomes in
nonlysosomal proteolysis
and the contributions of
lysosomal proteases to
intracellular protein
breakdown. Proteins can be*

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*selected for degradation
by a variety of differen
mechanisms. The ubiquitin
system is one complex and
highly regulated mechanism
by which eukaryotic
proteins are targetted for*

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*degradation by
proteosomes. In chapter 3,
Wilkinson reviews the
components and functions
of the ubiquitin system
and considers some of the
known substrates for this*

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pathway which include cell cycle and transcriptional regulators. The structure and functions of proteosomes and their regulatory components are described in the two

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*subsequent chapters by
Tanaka and Tanahashi and
by Dubiel and Rechsteiner.
Proteasomes were the first
known example of threonine
proteases. They are
multisubunit complexes*

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that, in addition to being responsible for the turnover of most short-lived nuclear and cytoplasmic protein, are also involved in antigen processing for

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*presentation by the MHC
class I pathway. Recent
studies reviewed by
McCracken and colleagues
(chapter 6) lead to the
exciting conclusion that
some ER-associated*

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*proteins are degraded by
cytosolic proteasomes.
Lysosomes are responsible
for the degradation of
long-lived proteins and
for the enhanced protein
degradation observed under*

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*starvation conditions. In
chapter 7 Knecht and
colleagues review the
lysosomal proteases and
describe studies of the
roles of lysosomes and the
mechanisms for protein*

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uptake into lysosomes.

*Methods of measuring the
relative contribution of
different proteolytic
systems (e.g., ubiquitin-
proteasome pathway,
calcium-dependent*

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*proteases, lysosomes) to
muscle protein
degradation, and the
conclusions from such
studies, are reviewed by
Attai and Taillinder in
the following chapter.*

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Finally, proteases play an important role in signaling apoptosis by catalyzing the limited cleavage of enzymes. Mason and Beyette review the role of the major players,

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*caspases, which are both
activated by and catalyze
limited proteolysis, and
also consider the
involvement of other
proteolytic enzymes in
this pathway leading cell*

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death.

*Mechanobiology in Health
and Disease brings
together contributions
from leading biologists,
clinicians, physicists and
engineers in one*

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*convenient volume,
providing a unified source
of information for
researchers in this highly
multidisciplinary area.
Opening chapters provide
essential background*

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*information on cell
mechanotransduction and
essential mechanobiology
methods and techniques.
Other sections focus on
the study of
mechanobiology in healthy*

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systems, including bone, tendons, muscles, blood vessels, the heart and the skin, as well as mechanobiology studies of pregnancy. Final chapters address the nascent area

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*of mechanobiology in
disease, from the study of
bone conditions, skin
diseases and heart
diseases to cancer. A
discussion of future
perspectives for research*

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*completes each chapter in
the volume. This is a
timely resource for both
early-career and
established researchers
working on mechanobiology.
Provides an essential*

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*digest of primary research
from many fields and
disciplines in one
convenient volume Covers
both experimental
approaches and
descriptions of*

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*mechanobiology problems
from mathematical and
numerical perspectives
Addresses the hot topic of
mechanobiology in disease,
a particularly dynamic
field of frontier science*

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*Hewer's Textbook of
Histology for Medical
Students, Ninth Edition
Revised focuses on the
minute structure of the
cells, tissues, and organs
of the human body and the*

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*reactions of tissues and
cells to various
conditions. The
publication first
elaborates on the
techniques used in the
study of cells and*

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*tissues, cell and cell
division, and epithelia.
Discussions focus on the
qualitative and
quantitative methods for
the identification of the
composition of cells and*

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*tissues, surface membrane
of the cell, cytoplasmic
contents, and the nucleus.
The text then examines
blood and lymph,
development and
destruction of blood*

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corpuscles, and connective tissues. The manuscript takes a look at adipose tissue, cartilage, and bone, including development and functions of adipose tissue, hyaline

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*cartilage, fibro-
cartilage, elastic
cartilage, and joints and
synovial membranes. The
book then ponders on
muscular tissue, nervous
tissue, peripheral nerves,*

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ganglia, neuroglia, and meninges, blood circulatory system, lymphatic system, thymus, and spleen, and adrenals, thyroid, and parathyroid glands. The publication is

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*a valuable reference for
medical students and
readers interested in the
structure of the cells,
organs, and tissues of the
human body.*

Tree Rings and Climate

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deals with the principles of dendrochronology, with emphasis on tree-ring studies involving climate-related problems. This book looks at the spatial and temporal variations in

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tree-ring growth and how they can be used to reconstruct past climate. Factors and conditions that appear most relevant to tree-ring research are highlighted. Comprised of

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*nine chapters, this book
opens with an overview of
the basic biological facts
and principles of tree
growth, as well as the
most important terms,
principles, and concepts*

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of dendrochronology. The discussion then shifts to the basic biology governing the response of ring width to variation in climate; systematic variations in the width

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*and cell structure of
annual tree rings; and the
significance of tree
growth and structure to
dendroclimatology. The
movement of materials and
internal water relations*

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*of trees are also
considered, along with
photosynthesis,
respiration, and the
climatic and environmental
system. Models of the
growth-climate*

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*relationships as well as
the basic statistics and
methods of analysis of
these relationships are
described. The final
chapter includes a general
discussion of*

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*dendroclimatographic data
and presents examples of
statistical models that
are useful for
reconstructing spatial
variations in climate.
This monograph will be of*

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*interest to
climatologists, college
students, and
practitioners in fields
such as botany,
archaeology, hydrology,
oceanography, biology,*

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*physiology, forestry, and
geophysics.*

Tree Rings and Climate

Music as Performance

Quizzes & Practice Tests

with Answer Key (Biology

Quick Study Guides &

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Terminology Notes to

Review)

Notes of a Biology Watcher

Essentials of Membrane

Biophysics

Regulatory Aspects of Gene

Therapy and Cell Therapy

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Products

This book presents key concepts in the structure and function of vascular smooth muscle cells in health and disease. Supplemental reading may be drawn from the extensive references listed at the end of each chapter. Vascular

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smooth muscle cell is the major cell type in blood vessels. Dysfunction of vascular smooth muscle cells is an important cause of vascular diseases, for example, atherosclerosis, hypertension, and circulatory shock. Vascular smooth muscle cells are phenotypically

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plastic, capable of switching between two major phenotypes -- contractile/differentiated phenotype and invasive/proliferative phenotype in response to environmental clues. Chapter 1 introduces the major areas of research presented in this

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monograph. Chapters 2 to 4 address the structure and function of the contractile/differentiated phenotype of vascular smooth muscle cell. Chapters 5 and 6 address the developmental basis of vascular smooth muscle cell phenotype and structure and

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function of podosomes (invasive organelles) in the invasive/proliferative phenotype of vascular smooth muscle cell. Chapters 7 to 9 address the role of vascular smooth muscle cell dysfunction in vascular diseases -- atherosclerosis, hypertension, and

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circulatory shock.

***Holt Biology Chapter 7 Resource
File: Cell Structure Concepts of
Biology***

***This authoritative book gathers
together a broad range of ideas and
topics that define the field. It
provides clear, concise, and***

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comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics. The Third Edition contains substantial new material. Most chapters have been thoroughly reworked. The book includes chapters on important

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topics such as sensory transduction, the physiology of protozoa and bacteria, the regulation of cell division, and programmed cell death. Completely revised and updated - includes 8 new chapters on such topics as membrane structure, intracellular

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***chloride regulation, transport,
sensory receptors, pressure, and
olfactory/taste receptors Includes
broad coverage of both animal and
plant cells Appendixes review
basics of the propagation of action
potentials, electricity, and cable
properties Authored by leading***

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***experts in the field Clear, concise,
comprehensive coverage of all
aspects of cellular physiology from
fundamental concepts to more
advanced topics***

***Sugar chains (glycans) are often
attached to proteins and lipids and
have multiple roles in the***

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***organization and function of all organisms. "Essentials of Glycobiology" describes their biogenesis and function and offers a useful gateway to the understanding of glycans.
How the Middle Class Secures Advantages in School***

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Cell Organelles

Medical Cell Biology

CAIE A LEVEL Biology Paper 4 -

CAIE A LEVEL PAST YEAR

BIOLOGY Q and A

Biology 211, 212, and 213

All living cells are surrounded by

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a lipidic membrane that isolates them from the often harsh environment. However, to take up nutrients, to excrete waste, and to communicate among each other, Nature has invented an incredibly diverse set of transmembrane transport

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proteins. Specialized transporters exist to shuttle electrically charged ions, positive cations like sodium or negative anions like chloride, across the membrane. In the recent years, tremendous progress has been made in the field of chloride

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transport. The present book presents the state of the art of this rapidly expanding and interest-gaining field of membrane transport. It is addressed at a broad medically, physiologically, biologically, and biophysically interested

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readership. Describes the state-of-the-art in anion transport research Written by leaders in the field Presents a timely discussion of this rapidly emerging and expanding field Social media penetrate our lives: Facebook, YouTube, Twitter and

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many other platforms define daily habits of communication and creative production. This book studies the rise of social media, providing both a historical and a critical analysis of the emergence of major platforms in the context of a rapidly changing ecosystem

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of connective media. Author José van Dijck offers an analytical prism that can be used to view techno-cultural as well as socio-economic aspects of this transformation as well as to examine shared ideological principles between major social

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media platforms. This fascinating study will appeal to all readers interested in social media.

Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides

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comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP[®] Courses was designed to meet and exceed the requirements of the College Board's AP[®] Biology framework

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while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP[®] curriculum and includes rich features that engage students in scientific practice and AP[®] test preparation; it also highlights

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careers and research
opportunities in biological
sciences.

Biased Signaling in Physiology,
Pharmacology and Therapeutics
is a unique and essential
reference for the scientific
community concerning how

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conformational-dependent activation is a common phenomenon across many classes of receptors or signaling molecules. It discusses the role of conformational dynamics in leading to signaling bias across different classes of receptors and

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signaling molecules. By providing a broader view of signaling bias, this resource helps to explain common mechanisms shared across receptor classes and how this can be utilized to elucidate their cellular activity and better understand their therapeutic

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potential. Written for both new and established scientists in pharmacology, cell biology, biochemistry, and signal transduction, as well as physicians, this book clearly illustrates how biased receptor signaling can be utilized to

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develop and understand complex pharmacology. Chapters are each focused on a specific class of receptor or other important topic and make use of real-world examples illustrating how the latest research in signal transduction has led to a better

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understanding of pharmacology and cell biology. This structure creates a basis for understanding that physiological signalling bias has been selected by nature in order to provide complex and tissue- specific biological responses in the face of limited

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receptors and signaling pathways. This book provides a framework to reveal that these physiological mechanisms are not restricted to one receptor type or family and thus presents receptor signaling from a newer, more global perspective. Offers a

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unique and valuable resource on
biased receptor signaling that
provides a global view for better
understanding pharmacology
across many receptor families
Integrates biased receptor
signaling, physiology, and
pharmacology to place this

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emerging science within the
context of treating disease

Includes important chapters on
both the pharmaceutical and
therapeutic implications of
biased signaling

Cellular Organelles and the
Extracellular Matrix

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Hewer's Textbook of Histology
for Medical Students
Beyond the Score
The Complete CAIE A LEVEL
Past Year Series
Rodak's Hematology - E-Book
Cell Biology of Extracellular
Matrix

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The compartmentation of genetic information is a fundamental feature of the eukaryotic cell. The metabolic capacity of a eukaryotic (plant) cell and the steps leading to it are overwhelmingly an endeavour of a joint genetic

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cooperation between nucleus/cytosol, plastids, and mitochondria. Alter ation of the genetic material in anyone of these compartments or exchange of organelles between species can seriously affect harmoniously

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*balanced growth of an organism.
Although the biological
significance of this genetic design
has been vividly evident since the
discovery of non-Mendelian
inheritance by Baur and Correns
at the beginning of this century,*

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and became indisputable in principle after Renner's work on interspecific nuclear/plastid hybrids (summarized in his classical article in 1934), studies on the genetics of organelles have long suffered from the lack of

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respectability. Non-Mendelian inheritance was considered a research sideline~if not a freak~by most geneticists, which becomes evident when one consults common textbooks. For instance, these have usually

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impeccable accounts of photosynthetic and respiratory energy conversion in chloroplasts and mitochondria, of metabolism and global circulation of the biological key elements C, N, and S, as well as of the organization,

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maintenance, and function of nuclear genetic information. In contrast, the heredity and molecular biology of organelles are generally treated as an adjunct, and neither goes as far as to describe the impact of the

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integrated genetic system.

The Fungi provides a comprehensive microbiological perspective on the importance of fungi, one of the most diverse groups of living organisms. Their roles in the natural world and in

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practical applications from the preparation of foods and beverages to drug production, and their relationship with man, animals and plants are clearly described. The recent contributions of molecular biology

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to mycology and the development of molecular methods for the study of fungal ecology, pathology and population genetics are also covered. This invaluable work has been completely revised and updated. With new material

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relating to molecular biology, this new and highly successful title continues to be essential reading for students and researchers. New to the second edition: Modern classification Medical and veterinary mycology section

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*Organelles and processes involved
in hyphal growth Molecular
methods in ecology and pathology
Production of new drugs of fungal
origin Question and answer
sections Colour plate section
Praise for the first edition: "An*

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enjoyable way to survey the subject of modern mycology. We are fortunate to have this excellent textbook."

--MYCOLOGIA "The text is beautifully written and an understanding and enthusiasm for

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this important group of organisms comes through on every page."

--TRENDS IN MICROBIOLOGY

"This will improve undergraduate learning and promote a more integrated understanding of fungal biology. I will certainly use

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*it in my teaching and am sure
many others will do likewise."*

*--NEW PHYTOLOGIST "The
coverage is extensive and
informative. I am very pleased to
recommend this book to those
who want to know and understand*

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fungi." --BIODIVERSITY AND
CONSERVATION

*Make sure you are thoroughly
prepared to work in a clinical lab.
Rodak's Hematology: Clinical
Principles and Applications, 6th
Edition uses hundreds of full-color*

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photomicrographs to help you understand the essentials of hematology. This new edition shows how to accurately identify cells, simplifies hemostasis and thrombosis concepts, and covers normal hematopoiesis through

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diseases of erythroid, myeloid, lymphoid, and megakaryocytic origins. Easy to follow and understand, this book also covers key topics including: working in a hematology lab; complementary testing areas such as flow

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cytometry, cytogenetics, and molecular diagnostics; the parts and functions of the cell; and laboratory testing of blood cells and body fluid cells. UPDATED nearly 700 full-color illustrations and photomicrographs make it

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*easier for you to visualize
hematology concepts and show
what you'll encounter in the lab,
with images appearing near their
mentions in the text to minimize
flipping pages back and forth.
UPDATED content throughout*

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text reflects latest information on hematology. Instructions for lab procedures include sources of possible errors along with comments. Hematology instruments are described, compared, and contrasted. Case

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studies in each chapter provide opportunities to apply hematology concepts to real-life scenarios. Hematology/hemostasis reference ranges are listed on the inside front and back covers for quick reference. A bulleted summary

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makes it easy for you to review the important points in every chapter. Learning objectives begin each chapter and indicate what you should achieve, with review questions appearing at the end. A glossary of key terms

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makes it easy to find and learn definitions. NEW! Additional content on cell structure and receptors helps you learn to identify these organisms. NEW! New chapter on Introduction to Hematology Malignancies

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*provides and overview of
diagnostic technology and
techniques used in the lab.
Concepts of Biology is designed
for the single-semester
introduction to biology course for
non-science majors, which for*

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many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they

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continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more

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importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and

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includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad

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discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the

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book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key

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concepts.

*Cell Physiology Source Book
Cambridge O Level Biology
Revision Guide*

*Dispossessing the Wilderness
A Global Perspective*

Bioinspired Structures and Design

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*Molecular Dynamics in Biological
Membranes*

*In Beyond the Score: Music
as Performance, author
Nicholas Cook supplants the
traditional musicological
notion of music as writing,
asserting instead that it is*

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as performance that music is loved, understood, and consumed. This book reconceives music as an activity through which meaning is generated in real time, as Cook rethinks familiar assumptions and

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*develops new approaches.
Focusing primarily but not
exclusively on the Western
'art' tradition, Cook
explores perspectives that
range from close listening
to computational analysis,
from ethnography to the*

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study of recordings, and from the social relations constructed through performance to the performing (and listening) body. In doing so, he reveals not only that the notion of music as text has

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*hampered academic
understanding of music, but
also that it has inhibited
performance practices,
placing them in a textualist
straightjacket. Beyond the
Score has a strong
historical emphasis,*

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*touching on broad
developments in twentieth-
century performance style
and setting them into their
larger cultural context.
Cook also investigates the
relationship between
recordings and performance,*

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*arguing that we do not
experience recordings as
mere reproductions of a
performance but as
performances in their own
right. Beyond the Score is a
comprehensive exploration of
new approaches and methods*

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for the study of music as performance, and will be an invaluable addition to the libraries of music scholars—including musicologists, music theorists, and music cognition scholars—everywhere.

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In Negotiating Opportunities, Jessica McCrory Calarco argues that the middle class has a negotiated advantage in school. Drawing on five years of ethnographic fieldwork, Calarco traces

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*that negotiated advantage
from its origins at home to
its consequences at school.
Through their parents'
coaching, working-class
students learn to follow
rules and work through
problems independently.*

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Middle-class students learn to challenge rules and request assistance, accommodations, and attention in excess of what is fair or required.

Teachers typically grant those requests, creating

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advantages for middle-class students. Calarco concludes with recommendations, advocating against deficit-oriented programs that teach middle-class behaviors to working-class students. Those programs ignore the

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value of working-class students' resourcefulness, respect, and responsibility, and they do little to prevent middle-class families from finding new opportunities to negotiate advantages in school.

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In the ten-year interval since the first edition of this volume went to press, our knowledge of extracellular matrix (ECM) function and structure has enormously increased. Extracellular matrix and

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cell-matrix interaction are now routine topics in the meetings and annual reviews sponsored by cell biology societies. Research in molecular biology has so advanced the number of known matrix molecules and the

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topic of gene structure and regulation that we wondered how best to incorporate the new material. For example, we deliberated over the inclusion of chapters on molecular genetics. We decided that with judicious

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editing we could present the recent findings in molecular biology within the same cell biology framework that was used for the first edition, using three broad headings: what is extracellular matrix, how is it made, and

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*what does it do for cells?
Maintaining control over the
review of literature on the
subject of ECM was not
always an easy task, but we
felt it was essential to
production of a highly
readable volume, one compact*

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*enough to serve the the
student as an introduction
and the investigator as a
quick update on graduate the
important recent
discoveries. The first
edition of this volume
enjoyed con hope the reader*

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*finds this edition equally
useful. siderable success;
we D. Hay Elizabeth vii
Contents Introductory
Remarks 1 Elizabeth D. Hay
PART I. WHAT IS
EXTRACELLULAR MATRIX?
Chapter 1 Collagen T. F.*

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Linsenmayer 1. Introduction

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. 7 2. The

Collagen Molecule

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. 8 2. 1. Triple-
Helical Domain(s)

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*Studies of the bacterial
cell wall emerged as a new
field of research in the*

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early 1950s, and has flourished in a multitude of directions. This excellent book provides an integrated collection of contributions forming a fundamental reference for researchers and of general use to

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teachers, advanced students in the life sciences, and all scientists in bacterial cell wall research. Chapters include topics such as: Peptidoglycan, an essential constituent of bacterial endospores; Teichoic and

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*teichuronic acids,
lipoteichoic acids,
lipoglycans, neural complex
polysaccharides and several
specialized proteins are
frequently unique wall-
associated components of
Gram-positive bacteria;*

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*Bacterial cells evolving
signal transduction
pathways; Underlying
mechanisms of bacterial
resistance to antibiotics.
Principles of Biology
Molecular Biology of the
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undergraduates. With its National Board-type questions, this book is specifically designed to prepare students for this exam. The book maintains a concise focus on eukaryotic cell biology as it

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relates to human and animal disease, all within a manageable 300-page format. This is accomplished by explaining general cell biology principles in the context of organ systems and disease.

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normal and abnormal heart function; and cell cycle and cell division related to cancer biology. 60% New Material! New Topics include: Apoptosis and cell death from a neural perspective Signal transduction

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as it relates to normal and abnormal heart function Cell cycle and cell division related to cancer biology All new clinical cases Serves as a prep guide to the National Medical Board Exam with sample board-

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style questions (using Exam
Master(R) technology):

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on eukaryotic cell biology as it
related to human disease, thus
making the subject more
accessible to pre-med and pre-

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health students

The Problems Book helps students appreciate the ways in which experiments and simple calculations can lead to an understanding of how cells work by introducing the

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experimental foundation of cell and molecular biology. Each chapter reviews key terms, tests for understanding basic concepts, and poses research-based problems. The Problems Book has be

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This book discusses the different regulatory pathways for gene therapy (GT) and cell therapy (CT) medicinal products implemented by national and international bodies throughout the world

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(e.g. North and South America, Europe, and Asia). Each chapter, authored by experts from various regulatory bodies throughout the international community, walks the reader through the applications of

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nonclinical research to
translational clinical research
to licensure for these
innovative products. More
specifically, each chapter
offers insights into
fundamental considerations

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that are essential for
developers of CT and GT
products, in the areas of
product manufacturing,
pharmacology and toxicology,
and clinical trial design, as well
as pertinent "must-know"

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guidelines and regulations.
Regulatory Aspects of Gene
Therapy and Cell Therapy
Products: A Global Perspective
is part of the American Society
of Gene and Cell Therapy sub-
series of the highly successful

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Advances in Experimental
Medicine and Biology series. It
is essential reading for
graduate students, clinicians,
and researchers interested in
gene and cell therapy and the
regulation of pharmaceuticals.

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The Principles of Biology
sequence (BI 211, 212 and
213) introduces biology as a
scientific discipline for students
planning to major in biology
and other science disciplines.
Laboratories and classroom

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activities introduce techniques used to study biological processes and provide opportunities for students to develop their ability to conduct research.

Mechanobiology in Health and

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Disease

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Intracellular Protein
Degradation
Essentials of Glycobiology
Biased Signaling in Physiology,
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Therapeutics

In-cell NMR Spectroscopy

National parks like Yellowstone, Yosemite, and Glacier preserve some of this country's most cherished wilderness landscapes. While visions of pristine, uninhabited nature led to the creation of these parks, they also

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inspired policies of Indian removal. By contrasting the native histories of these places with the links between Indian policy developments and preservationist efforts, this work examines the complex origins of the national parks and the troubling consequences of the American

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wilderness ideal. The first study to place national park history within the context of the early reservation era, it details the ways that national parks developed into one of the most important arenas of contention between native peoples and non-Indians in the twentieth century.

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This volume is in two parts. The first contains the remaining chapters on cellular organelles and several chapters relating to organelle disorders. An account of mitochondriopathis is given in the chapter on the mitochondrion rather than in a separate one. The subject

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matter of this part of the volume shows quite clearly that the interdisciplinary approach to the study of organelles has shed considerable light on the nature of the mechanisms underlying the etiology and pathobiology of many of these disorders. As an example, mutations in the genes encoding

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integral membrane proteins are found to lead to disturbances in peroxisome assembly. It is also interesting and significant that mistargeting of protein is now thought to be another cause. It will be revealing to see whether mistargeting is the result of mutations in the genes encoding chaperones.

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The second part of the volume is concerned with the extracellular matrix. It sets out to show that a vast body of new knowledge of the extracellular matrix is available to us. Take for example the integrin family of cell adhesion receptors. It turns out that integrins play a key role not only

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in adhesion but also in coupling signals to the nucleus via the cytoskeleton. As for fibronectins, they seem to link the matrix with the cytoskeleton by interacting with integrins. Collagen molecules are dealt with in the last two chapters. The boundaries of collagen in disease are

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defined by drawing a clear line of demarcation between systemic connective tissue disorders (e.g., scleroderma), better known as autoimmune diseases, and the heritable, and the heritable diseases such as osteogenesis imperfect and the Marfan syndrome. This

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classification takes into account a second group of acquired disorders of collagen forming tissues in which regional fibrosis is the hallmark. Liver cirrhosis and pulmonary fibrosis are prime examples. The decision to place Volumes 2 and 3 before those dealing with cell chemistry was not easily

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made. It was based on the view that most students will have had an undergraduate course in biochemistry of cell biology or both courses, and that they could go to Volumes 4-7 in which the subject of cell chemistry is covered, and then return to Volumes 2 and 3.

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In-cell NMR spectroscopy is a relatively new field. Despite its short history, recent in-cell NMR-related publications in major journals indicate that this method is receiving significant general attention. This book provides the first informative work specifically focused on in-cell NMR. It details the

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historical background of in-cell NMR,
host cells for in-cell NMR studies,
methods for in-cell biological
techniques and NMR spectroscopy,
applications, and future perspectives.
Researchers in biochemistry,
biophysics, molecular biology, cell
biology, structural biology as well as

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NMR analysts interested in biological applications will all find this book valuable reading.

Master simple to advanced biomaterials and structures with this essential text. Featuring topics ranging from bionanoengineered materials to bio-inspired structures for spacecraft

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and bio-inspired robots, and covering issues such as motility, sensing, control and morphology, this highly illustrated text walks the reader through key scientific and practical engineering principles, discussing properties, applications and design. Presenting case studies for the design

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of materials and structures at the nano, micro, meso and macro-scales, and written by some of the leading experts on the subject, this is the ideal introduction to this emerging field for students in engineering and science as well as researchers.

Bacterial Cell Wall

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From Molecular Sciences to Cell
Biology

An Introduction

Molecular Biology of the Cell 6E - The
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Enzymes MCQs Chapter 7: Immunity
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genetic diseases and cell divisions,
mutations, mutagen, and oncogene.

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bulk transport, active transport,

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enzymes, structure of enzymes, and what are enzymes. Solve "Immunity MCQ" PDF book with answers, chapter 7 to practice test questions: Immunity, measles, and variety of life. Solve "Infectious Diseases MCQ" PDF book with answers, chapter 8 to practice test

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action of enzymes 3.2 Factors that
affect enzyme action Chapter 4 : Cell
membranes and transport 4.1 Fluid
mosaic membranes 4.2 Movement of
substances into and out of cells Chapter

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Replication and division of nuclei and

cells 5.2 Chromosome behaviour in

mitosis Chapter 6 : Nucleic acids and

protein synthesis 6.1 Structure and

replication of DNA 6.2 Protein

synthesis Chapter 7 : Transport in

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7.2 Transport mechanisms Chapter 8 :
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Chapter 9 : Gas exchange and smoking
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Smoking Chapter 10 : Infectious

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The immune system 11.2 Antibodies
and vaccination Chapter 12 : Energy
and respiration 12.1 Energy 12.2
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mammals 14.2 Homeostasis in plants
Chapter 15 : Control and co-ordination
15.1 Control and co-ordination in

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16.2 The roles of genes in determining
the phenotype 16.3 Gene control
Chapter 17 : Selection and evolution

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Classification 18.3 Conservation
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Principles of genetic technology 19.2

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figures to update our understanding and

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updating of the text to reflect newer
research results Addition of several new
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nomenclature of transport carriers, and
structural biology of important items
such as the neuromuscular junction and

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problems within the problem sets
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readily accessible introduction to the
central concepts of cell biology, and its

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The Nucleus

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limitations of biological science and into a vast and wondrous world of hidden relationships, this provocative book explores in personal, poetic essays to topics such as computers, germs, language, music, death, insects, and medicine. Lewis Thomas

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writes, "Once you have become permanently startled, as I am, by the realization that we are a social species, you tend to keep an eye out for the pieces of evidence that this is, by and large, good for us."

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help them to prepare for
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recently-developed protocols
ranging from isolation of nuclei
to purification of chromatin*

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regions containing single genes, with a particular focus on some less well-explored aspects of the nucleus. The methods described include new strategies for isolation of nuclei, for purification of cell type-specific nuclei from a mixture, and for

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rapid isolation and fractionation of nucleoli. For gene delivery into and expression in nuclei, a novel gentle approach using gold nanowires is presented. As the concentration and localization of water and ions are crucial for macromolecular interactions in

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the nucleus, a new approach to measure these parameters by correlative optical and cryo-electron microscopy is described. The Nucleus, Second Edition presents methods and software for high-throughput quantitative analysis of 3D fluorescence

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