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## The Cooperative Gene

## How Mendel's Demon Explains the Evolution of Complex Beings

Simon and Schuster **A study of the history of life on Earth explains how microscopic life evolved into large, complex animals and speculates on the various ways in which biotechnology can change our thinking about evolution and complex living organisms.**

## Life beyond Earth

### The Search for Habitable Worlds in the Universe

Cambridge University Press **What is life and where can it exist? What searches are being made to identify conditions for life on other worlds? If extraterrestrial inhabited worlds are found, how can we explore them? In this book, two leading astrophysicists provide an engaging account of where we stand in our quest for habitable environments, in the Solar System and beyond. Starting from basic concepts, the narrative builds scientifically, including more in-depth material as boxed additions to the main text. The authors recount fascinating recent discoveries from space missions and observations using ground-based telescopes, of possible life-related artefacts in Martian meteorites, extrasolar planets, and subsurface oceans on Europa, Titan and Enceladus. They also provide a forward look to future missions. This is an exciting, informative read for anyone interested in the search for habitable and inhabited planets, and an excellent primer for students in astrobiology, habitability, planetary science and astronomy.**

## Wilford's Microcosm

### The New England Medical Gazette

### An Introduction to Molecular Ecology

Oxford University Press **An Introduction to Molecular Ecology introduces the latest molecular concepts and techniques, demonstrating how genetic markers and molecular tools can be used to answer ecological questions such as "How do we know whether a particular species is monogamous or promiscuous?"; "How can we monitor the illegal trafficking of wildlife?"; and "How can we differentiate between the many similar species making up a microbial community?" Such questions, whose answers were previously out of our reach, can now be probed, revolutionizing our understanding of ecological systems and phenomena. Blending conceptual detail with the most instructive examples, An Introduction to**

**Molecular Ecology** is an ideal resource for those new to the subject needing to develop a strong working understanding of the field. The book captures the broad scope of the subject, exploring the use of molecular tools in the context of topics including behavioural genetics, phylogeography, microbial ecology, and conservation.

## An Introduction to Molecular Ecology

Oxford University Press Revised edition of: **Introduction to molecular ecology / Trevor J. C. Beebee, Graham Rowe. 2008. 2nd ed.**

## Coming to Life

## How Genes Drive Development

Kales Press **A concise overview of genetics, evolution, and cellular processes, written by a winner of the Nobel Prize in Medicine, offers insight into the microscopic world of cells, addresses historical and contemporary questions, and discusses current ethical issues in the field of human biology.**

## Whatever Is, was

In Nature, There are No Such Things as Cause, Effect, Generation, Growth, Nor Death, No Time, No Past, No Future : Logical Conclusions Deduced from the Theory :

the Self-existence of the Universe : Also, a Critical  
Examination Into the Foundation on which Rests the  
Philosophy of Herbert Spencer and the Theories of  
Charles Darwin : Together with a New Theory for the  
Origin of the World, for All Forms, Organic and Inorganic  
: Also, the Natural Cause of the Continuing Existence of  
All Living Things and Species of Things : And, the Finding  
of the Supposed Missing Link  
More Than Matter  
What human really are

Lion Books 'The question of what it is to be a human person is the biggest intellectual question of our day.' Keith Ward has taught philosophy and theology in British universities for the past 40 years, and he is now weighing in on a major intellectual battle: whether human persons are purely materialistic - nothing but matter - or whether there is another, deeply valuable part of us, which transcends our bodies in nature and moral worth: the soul. For centuries

philosophers have debated the question, but the battle has taken the limelight through the works of the New Atheists. In this book Professor Ward guides the reader through a panoply of thinkers and traditions, arguing that there is more to humanity than bodies. In fact, he argues, there is more to the entire universe than the naked eye perceives. (And contrary to the New Atheist assertions, there are good philosophical arguments to back this up!)

## The Chemistry of Life's Origins

Springer Science & Business Media This volume contains the lectures presented at the second course of the International School of Space Chemistry held in Erice (Sicily) from October 20 - 30 1991 at the "E. Majorana Centre for Scientific Culture". The course was attended by 58 participants from 13 countries. The Chemistry of Life's Origins is well recognized as one of the most critical subjects of modern chemistry. Much progress has been made since the amazingly perceptive contributions by Oparin some 70 years ago when he first outlined a possible series of steps starting from simple molecules to basic building blocks and ultimate assembly into simple organisms capable of replicating, catalysis and evolution to higher organisms. The pioneering experiments of Stanley Miller demonstrated already forty years ago how easy it could have been to form the amino acids which are critical to living organisms. However we have since learned and are still learning a great deal more about the primitive conditions on earth which has led us to a rethinking of where and how the condition for prebiotic chemical processes occurred. We have also learned a great deal more about the molecular basis for life. For instance, the existence of DNA was just discovered forty years ago.

## Dialectics of Force: Ontóbia.

SCHOLARICA In this book, for the first time in world scientific literature, the category of Force is presented as an attribute of matter alongside motion, space, and time. This has enabled the author to develop a different approach to the Big Bang, to give a new formulation of the border between life and the inorganic world, and to offer his own interpretation in the disputes on the mind-body problem. The category of Ontological Force formulated by the author has allowed him to develop a new definition of the concept of Progress, which creates a methodological basis for fruitful research in the fields of the social sciences and international relations.

# Molecular Biophysics for the Life Sciences

Springer Science & Business Media **This volume provides an overview of the development and scope of molecular biophysics and in-depth discussions of the major experimental methods that enable biological macromolecules to be studied at atomic resolution. It also reviews the physical chemical concepts that are needed to interpret the experimental results and to understand how the structure, dynamics, and physical properties of biological macromolecules enable them to perform their biological functions. Reviews of research on three disparate biomolecular machines—DNA helicases, ATP synthases, and myosin--illustrate how the combination of theory and experiment leads to new insights and new questions.**

## DMT: The Spirit Molecule

### A Doctor's Revolutionary Research into the Biology of Near-Death and Mystical Experiences

Simon and Schuster **A clinical psychiatrist explores the effects of DMT, one of the most powerful psychedelics known. • A behind-the-scenes look at the cutting edge of psychedelic research. • Provides a unique scientific explanation for the phenomenon of alien abduction experiences. From 1990 to 1995 Dr. Rick Strassman conducted U.S. Government-approved and funded clinical research at the University of New Mexico in which he injected sixty volunteers with DMT, one of the most powerful psychedelics known. His detailed account of those sessions is an extraordinarily riveting inquiry into the nature of the human mind and the therapeutic potential of psychedelics. DMT, a plant-derived chemical found in the psychedelic Amazon brew, ayahuasca, is also manufactured by the human brain. In Strassman's volunteers, it consistently produced near-death and mystical experiences. Many reported convincing encounters with intelligent nonhuman presences, aliens, angels, and spirits. Nearly all felt that the sessions were among the most profound experiences of their lives. Strassman's research connects DMT with the pineal gland, considered by Hindus to be the site of the seventh chakra and by Rene Descartes to be the seat of the soul. DMT: The Spirit Molecule makes the**

**bold case that DMT, naturally released by the pineal gland, facilitates the soul's movement in and out of the body and is an integral part of the birth and death experiences, as well as the highest states of meditation and even sexual transcendence. Strassman also believes that "alien abduction experiences" are brought on by accidental releases of DMT. If used wisely, DMT could trigger a period of remarkable progress in the scientific exploration of the most mystical regions of the human mind and soul.**

## Neurosciences - From Molecule to Behavior: a university textbook

Springer Science & Business Media **Neurosciences - a comprehensive approach** This textbook covers neuroscience from cellular and molecular mechanisms to behavior and cognitive processing. We also address evolution of the nervous system, computational neuroscience, the history of neuroscience as a discipline and neurophilosophy - to name but a few. The book provides the newest state-of-the-art knowledge about neuroscience from across the animal kingdom, with particular emphasis on model species commonly used in neuroscience labs across the world: mouse, zebra fish, fruit fly, honeybee, and nematode worm. We aim at university students of neuroscience, psychology, biological sciences, and medical sciences, but also computer scientists, philosophers, or anybody interested in understanding how brains work.

## Every Molecule Tells a Story

CRC Press **From cooking to medicine, from engineering to art, chemistry—the science of molecules—is everywhere. A celebration of the molecules of chemistry, Every Molecule Tells a Story celebrates the molecules responsible for the experiences of everyday life: the air we breathe; the water we drink; the chemicals that fuel our living; the steroids that give us sex; the colours of the seasons; the drugs that heal us; and the scented molecules that enrich our diet and our encounters with each other. You can't see them, but you know that they are there. Unveiling the structures of poisonous "natural" substances and beneficial man-made molecules, this book brushes away any preconceived notions about chemistry to demonstrate why and how molecules matter.**

# Molecular Evolution

## Prebiological and Biological

Springer Science & Business Media **Formuch of his professional career, Sidney W. Fox has devoted his thought and research to studies of molecular evolution. MOLECULAR EVOLUTION: PREBIOLOGICAL AND BIOLOGICAL is a dedicatory volume of thirty-five contributed papers commemorating, on the occasion of his sixtieth birthday, his many achievements. The volume had its conception in the USSR (by AIO), had much of its development in the USA (by DLR) , and was made possible by the enthusiastic responses and encouragements of fifty-eight contributors from ten nations and many disciplines. These numbers connote not only the esteem in which S. W. Fox is regarded, but also the international and interdisciplinary nature of studies of molecular evolution. The term "molecular evolution" is often associated with abiotic or prebiotic evolution; it is also used to denote processes of biotic evolution at the molecular level. The point of merger of these two sub-areas, at "life," represents but one stage (albeit a very important one) in the total process of the evolution of matter, from hydrogen to Homo sapiens and beyond. This volume considers aspects of molecular evolution in this broader sense. Accordingly, the contributors include persons experienced in the prebiological and also the biological aspects of molecular evolution; several "outside" viewpoints are provided by persons whose principal interests lie in other disciplines. The contributions are both experimental and theoretical.**

## The Molecular Genetics of Aging

Springer Science & Business Media **The molecular genetics of aging or life-span determination is an expanding field. One reason is because many people would consider it desirable if human life span could be extended. Indeed, it is difficult not to be fascinated by tales of the life and death of people who have succeeded in living a very long life. Because of this, we have placed at the head of this book the chapter by Perls et al. on Centenerians and the Genetics of Longevity. Perls and his coauthors convincingly argue that, while the average life expectancy might be mostly determined by environmental factors because the average person has an average genotype, extremely long life spans are genetically determined. Of course, studying humans to uncover the genetics of aging is not ideal, not so much because one cannot**

easily perform experiments as because they live such a long time. This is why most of this book describes the current state of research with model organisms such as yeast, worms, flies, and mice. J aswinski focuses on yeast and how metabolic activity and stress resistance affect the longevity of *Saccharomyces cerevisiae*. In the process, he discusses the concept of aging as applied to a unicellular organism such as yeast and the importance of metabolism and stress resistance for aging in all organisms.

## Habitability Beyond Earth

Frontiers Media SA

## The Molecules of Life

## DNA, RNA, and Proteins

Infobase Publishing Explains the chemistry and physics of organic molecules that make up living cells, and explores the structures and behavior of DNA, RNA, and cellular proteins.

## On Molecular and Microscopic Science

By Mary Somerville. In two volumes. With illustrations

Stardust, Supernovae and the Molecules of Life

# Might We All Be Aliens?

Springer Science & Business Media **Where were the amino acids, the molecules of life, created: perhaps in a lightning storm in the early Earth, or perhaps elsewhere in the cosmos? This book argues that at least some of them must have been produced in the cosmos, and that the fact that the Earthly amino acids have a specific handedness provides an important clue for that explanation. The book discusses several models that purport to explain the handedness, ultimately proposing a new explanation that involves cosmic processing of the amino acids produced in space. The book provides a tour for laypersons that includes a definition of life, the Big Bang, stellar nucleosynthesis, the electromagnetic spectrum, molecules, and supernovae and the particles they produce.**

# The Billion-Dollar Molecule

# The Quest for the Perfect Drug

Simon and Schuster **Join journalist Barry Werth as he pulls back the curtain on Vertex, a start-up pharmaceutical company, and witness firsthand the intense drama being played out in the pioneering and hugely profitable field of drug research. Founded by Joshua Boger, a dynamic Harvard- and Merck-trained scientific whiz kid, Vertex is dedicated to designing -- atom by atom -- both a new life-saving immunosuppressant drug, and a drug to combat the virus that causes AIDS. You will be hooked from start to finish, as you go from the labs, where obsessive, fiercely competitive scientists struggle for a breakthrough, to Wall Street, where the wheeling and dealing takes on a life of its own, as Boger courts investors and finally decides to take Vertex public. Here is a fascinating no-holds-barred account of the business of science, which includes an updated epilogue about the most recent developments in the quest for a drug to cure AIDS.**

# Molecular Consciousness

## Why the Universe Is Aware of Our Presence

Simon and Schuster **Mind and matter are connected through information at the atomic level • Explains how your state of mind is profoundly related to the flow of chemical information during the interactions of your molecules • Reveals how each atom of the universe is intrinsically linked with all other atoms through their memories and the information they carry • Explores the concrete manifestations of this “molecular consciousness,” such as intuition and the appearance of life on Earth** The molecules of living organisms are in constant communication, storing and transmitting information both at the intracellular level as well as across vast distances. The mystery of how this communication occurs--whether through molecular structure, chemical reactions, entangled states, or some other method--has baffled biologists, chemists, and quantum physicists for more than a century. Revealing the intimate connections between mind and matter, Françoise Tibika explains that conscious communication exists all the way down to the very molecules of which we--and the universe--are made. Using the fundamental laws of thermodynamics to support her argument--especially the first law: “energy is neither created nor destroyed”--as well as modern scientific research in quantum physics and molecular biology, Tibika explores how each imperishable atom of the universe is intrinsically linked with all other atoms through their memories and the information they carry. She shows not only how each atom of your being is part of the greater whole of the universe but also how your thoughts, feelings, and state of mind are profoundly related to the activity of each of your molecules. Just as we are undergoing constant transformation by the molecules surrounding us, our own molecules are continuously transforming the network of which we are a part. Exploring the concrete manifestations of this molecular consciousness, such as intuition, Tibika reveals how, through effecting conscious change at the molecular level, our actions have far-reaching significance in a universe that is not blind to our presence.

## Fermentation, infection and immunity

## Hellfire and Lightning Rods

## Liberating Science, Technology, and Religion

Wipf and Stock Publishers **Renowned philosopher Frederick Ferré invites us to contemplate a new world to be constructed out of the debris of modernity. Hellfire and Lightning Rods displays a vision in which the dichotomies between religion, philosophy, science, and technology can be seen as too-narrow construals of a single, but polyvalent, organic world. Ferré wisely notes that the conceptual worlds of premodern animism, modern “scientism,” and biblical orthodoxy have major internal flaws and create immense practical problems. Yet, while they are largely unconvincing to persons who see the need for “postmodern” approaches, a successor to these views is nowhere near universally accepted. In that context, Ferré suggests that an important interim worldview that he calls “multi-mythic organicism” will help humanity recover spiritual dimensions now lacking.**

## Handbook of Toxicology, Third Edition

CRC Press **The Handbook of Toxicology, Third Edition provides an updated practical reference source for practicing toxicologists in the pharmaceutical and chemical industries, contract laboratories, regulatory agencies, and academia. Written by experts in their specific toxicology fields, the chapters provide both fundamental and applied information. Topics range from General Toxicology, to Genetic Toxicology, Human Clinical Toxicology, Histopathology, Clinical Pathology, Metabolism and Toxicokinetics, Risk Assessment, and more. New to this edition: Completely rewritten chapters covering immunotoxicology, endocrine toxicology, and reproductive and developmental toxicology, providing a fresh perspective on these topics Addition of new chapters on Chemical Toxicology, Pharmaceutical Toxicology, Juvenile Toxicology, and Safety Pharmacology Updated information dealing with Inhalation Toxicology, Neurotoxicology, and Regulatory Toxicology, which has been consolidated into single chapters for each specialty A separate glossary with toxicological terms presented both alphabetically and by toxicological subspecialty For nearly**

20 years, this handbook has remained the only reference book of its kind, designed to facilitate easy access to information related to the various toxicology specialties. This updated edition of a popular reference book reflects current practices and the state of the science of toxicology.

## Molecular Geometry of Body Pattern in Birds

Springer Science & Business Media **After having read this book you will never see birds in the same way again. The unexpected patterns displayed by a bird's body have been seen as bizarre events that demanded little attention or were described as 'amazing curiosities'. None of these surprising features seem to be fortuitous. They appear to be an integral part of a rigid order and a coherent geometry, which is directed by simple gene interactions and molecular cascades occurring at various cellular levels, and at different times, during the organism's development. A novel geometry unfolds in front of your eyes, giving the body configurations another meaning. Lima-de-Faria is Professor Emeritus of Molecular Cytogenetics at Lund University, Lund, Sweden. This is his sixth book dealing with the molecular organization of the chromosome and its implications for the understanding of the mechanisms responsible for biological evolution.**

## Introduction to Genetics: A Molecular Approach

Garland Science **Genetics today is inexorably focused on DNA. The theme of Introduction to Genetics: A Molecular Approach is therefore the progression from molecules (DNA and genes) to processes (gene expression and DNA replication) to systems (cells, organisms and populations). This progression reflects both the basic logic of life and the way in which modern biol**

## The Microcosm

# The Organ of Substantial Philosophy

## The Physics of Living Systems

Springer In this book, physics in its many aspects (thermodynamics, mechanics, electricity, fluid dynamics) is the guiding light on a fascinating journey through biological systems, providing ideas, examples and stimulating reflections for undergraduate physics, chemistry and life-science students, as well as for anyone interested in the frontiers between physics and biology. Rather than introducing a lot of new information, it encourages young students to use their recently acquired knowledge to start seeing the physics behind the biology. As an undergraduate textbook in introductory biophysics, it includes the necessary background and tools, including exercises and appendices, to form a progressive course. In this case, the chapters can be used in the order proposed, possibly split between two semesters. The book is also an absorbing read for researchers in the life sciences who wish to refresh or go deeper into the physics concepts gleaned in their early years of scientific training. Less physics-oriented readers might want to skip the first chapter, as well as all the "gray boxes" containing the more formal developments, and create their own à-la-carte menu of chapters.

## Planetary Astrobiology

Space Science "Planetary Astrobiology provides an accessible, interdisciplinary gateway to the frontiers of knowledge in astrobiology via results from the exploration of our own solar system and exoplanetary systems"--

## Single-Molecule Cellular Biophysics

Cambridge University Press Recent advances in single molecule science have presented a new branch of science: single molecule cellular biophysics, combining classical cell biology with cutting-edge single molecule biophysics. This textbook explains the essential elements of this new discipline, from the state-of-the-art single molecule techniques to real-world applications in unravelling the inner workings of the cell. Every effort has been made to ensure the text can be easily understood by students from both the physical and life sciences. Mathematical derivations are kept to a

minimum whilst unnecessary biological terminology is avoided and text boxes provide readers from either background with additional information. 100 end-of-chapter exercises are divided into those aimed at physical sciences students, those aimed at life science students and those that can be tackled by students from both disciplines. The use of case studies and real research examples make this textbook indispensable for undergraduate students entering this exciting field.

## Introduction to Molecular Biophysics

CRC Press **Molecular biophysics is a rapidly growing field of research that plays an important role in elucidating the mysteries of life's molecules and their assemblies, as well as the relationship between their structure and function. Introduction to Molecular Biophysics fills an existing gap in the literature on this subject by providing the reader with th**

## Select Works

### How to Build a Habitable Planet

### The Story of Earth from the Big Bang to Humankind - Revised and Expanded Edition

Princeton University Press **Since its first publication more than twenty-five years ago, How to Build a Habitable Planet has established a legendary reputation as an accessible yet scientifically impeccable introduction to the origin and evolution of Earth, from the Big Bang through the rise of human civilization. This classic account of how our habitable planet was assembled from the stuff of stars introduced readers to planetary, Earth, and climate science by way of a fascinating narrative. Now this great book has been made even better. Harvard geochemist Charles Langmuir has worked closely with the original author, Wally Broecker, one of the world's leading Earth scientists, to revise and**

expand the book for a new generation of readers for whom active planetary stewardship is becoming imperative. Interweaving physics, astronomy, chemistry, geology, and biology, this sweeping account tells Earth's complete story, from the synthesis of chemical elements in stars, to the formation of the Solar System, to the evolution of a habitable climate on Earth, to the origin of life and humankind. The book also addresses the search for other habitable worlds in the Milky Way and contemplates whether Earth will remain habitable as our influence on global climate grows. It concludes by considering the ways in which humankind can sustain Earth's habitability and perhaps even participate in further planetary evolution. Like no other book, *How to Build a Habitable Planet* provides an understanding of Earth in its broadest context, as well as a greater appreciation of its possibly rare ability to sustain life over geologic time. Leading schools that have ordered, recommended for reading, or adopted this book for course use: Arizona State University Brooklyn College CUNY Columbia University Cornell University ETH Zurich Georgia Institute of Technology Harvard University Johns Hopkins University Luther College Northwestern University Ohio State University Oxford Brookes University Pan American University Rutgers University State University of New York at Binghamton Texas A&M University Trinity College Dublin University of Bristol University of California-Los Angeles University of Cambridge University Of Chicago University of Colorado at Boulder University of Glasgow University of Leicester University of Maine, Farmington University of Michigan University of North Carolina at Chapel Hill University of North Georgia University of Nottingham University of Oregon University of Oxford University of Portsmouth University of Southampton University of Ulster University of Victoria University of Wyoming Western Kentucky University Yale University

## Machine Dreams

## Economics Becomes a Cyborg Science

Cambridge University Press This is the first cross-over book into the history of science written by an historian of economics. It shows how 'history of technology' can be integrated with the history of economic ideas. The analysis combines Cold War history with the history of postwar economics in America and later elsewhere, revealing that the Pax Americana had much to do with abstruse and formal doctrines such as linear programming and game theory. It links the literature on 'cyborg' to economics, an element missing in literature to date. The treatment further calls into

question the idea that economics has been immune to postmodern currents, arguing that neoclassical economics has participated in the deconstruction of the integral 'self'. Finally, it argues for an alliance of computational and institutional themes, and challenges the widespread impression that there is nothing else besides American neoclassical economic theory left standing after the demise of Marxism.

## A Molecular Conception of Organisms and Neoplasms

### A Theory That Any Organism Is Basically a Single Chemical Molecule

Elsevier **A Molecular Conception of Organisms and Neoplasms** is a six-chapter thesis that consists of a chain of reasoning on the theory of molecular conception. This thesis contends that any organism, even if multicellular, is basically a single molecule, which is the key problem of the causation of neoplasms. After providing a unifying definition of a molecule, this book goes on discussing the concept of fundamental unicellularity of multicellular organism through protoplasmic continuity between its cells. The succeeding chapters highlight the principles of the molecular conception of organisms and neoplasms. The final chapters outline the other activities of an organism determined by the molecular conception theory, such as embryonic development, animal heat, movement, pleasure and pain, and mind. This book will be of value to biochemists and clinical chemists.

## Principles of Molecular Regulation

Springer Science & Business Media **With the dramatic growth in our knowledge of hormone action and the mechanisms of cell regulation, the need for an up-to-date broad-ranging survey of these processes has become pressing. In Principles of Molecular Regulation, P. Michael Conn and Anthony Means have successfully assembled a panel of leading investigators to provide an integrated review of the key areas-membrane receptor-initiated cell signaling and nuclear receptor-initiated gene regulation. Chosen for the excellence of their research as well as their demonstrated writing skills, these distinguished authors illuminate the molecular machinery underlying the regulatory processes of cells. In**

addition to their comprehensive review of the signaling mechanisms involving cell surface receptors, nuclear receptors, and ion channels, they detail the roles of calcium, lipids, cyclic AMP, protein kinases, and protein phosphatases. They also discuss the molecular regulation of cell proliferation and death, as well as the impact of new technologies on rational drug discovery. Capturing the excitement now present at this vibrant union of molecular biology, cell biology, and endocrinology, *Principles of Molecular Regulation* constitutes a major new resource for understanding the many and complex elements of biological regulation. Its up-to-date critical synthesis is certain to prove of high value to all basic and clinical investigators working with these processes today.

## The Molecular Biology of Cancer

### A Bridge from Bench to Bedside

John Wiley & Sons *The Molecular Biology of Cancer*, Stella Pelengaris & Michael Khan This capturing, comprehensive text, extensively revised and updated for its second edition, provides a detailed overview of the molecular mechanisms underpinning the development of cancer and its treatment. "Bench to Bedside": A key strength of this book that sets it apart from general cancer biology references is the interweaving of all aspects of cancer biology from the causes, development and diagnosis through to the treatment and care of cancer patients - essential for providing a broader view of cancer and its impact. The highly readable presentation of a complex field, written by an international panel of researchers, specialists and practitioners, would provide an excellent text for graduate and undergraduate courses in the biology of cancer, medical students and qualified practitioners in the field preparing for higher exams, and for researchers and teachers in the field. For the teaching of cancer biology, special features have been included to facilitate this use: bullet points at the beginning of each chapter explaining key concepts and controversial areas; each chapter builds on concepts learned in previous chapters, with a list of key outstanding questions remaining in the field, suggestions for further reading, and questions for student review. All chapters contain text boxes that provide additional and relevant information. Key highlights are listed below: An overview of the cancer cell and important new concepts. Selected human cancers: lung, breast, colorectal, prostate, renal, skin, cervix, and hematological malignancies. Key cellular processes in cancer biology including (a) traditionally important areas such as cell cycle control, growth regulation, oncogenes and tumour suppressors apoptosis, as well as (b) more highly topical areas of

apoptosis, telomeres, DNA damage and repair, cell adhesion, angiogenesis, immunity, epigenetics, and the proteasome. **Clinical oncology:** In-depth coverage of important concepts such as screening, risk of cancer and prevention, diagnoses, managing cancer patients from start to palliative care and end-of-life pathways. Chapters highlighting the direct links between cancer research and clinical applications. New coverage on how cancer drugs are actually used in specific cancer patients, and how therapies are developed and tested. **Systems Biology** and cutting edge research areas covered such as RNA interference (RNAi). Each chapter includes key points, chapter summaries, textboxes, and topical references for added comprehension and review. Quotations have been used in each chapter to introduce basic concepts in an entertaining way. Supported by a dedicated website at <http://www.blackwellpublishing.com/pelengaris> We should list the great reviews we got for first edition which are on the back of the 2nd edition: "A capturing, comprehensive, clearly written and absolutely accurate introduction into cancer biology.... This book deserves great praise for the readable presentation of this complex field.... the true synthesis of bench and bedside approaches is marvelously achieved." Christian Schmidt, *Molecular Cell* "Chapters address the issues of cancer diagnosis, treatment, and patient care and set the book apart from general molecular biology references.... This book is applicable to both graduate and undergraduate students, and in the context of a research laboratory, this book would be an excellent resource as a reference guide for scientists at all levels." V. Emuss, *Institute of Cancer Research, London*. Also, from the first edition: "Pelengaris, Khan, and the contributing authors are to be applauded. The *Molecular Biology of Cancer* is a comprehensive and readable presentation of the many faces of cancer from molecular mechanisms to clinical therapies and diagnostics. This book will be welcomed by neophyte students, established scientists in other fields, and curious physicians." -Dean Felsher, *Stanford University*

## Life in the Universe, 5th Edition

Princeton University Press The world's leading textbook on astrobiology—ideal for an introductory one-semester course and now fully revised and updated Are we alone in the cosmos? How are scientists seeking signs of life beyond our home planet? Could we colonize other planets, moons, or even other star systems? This introductory textbook, written by a team of four renowned science communicators, educators, and researchers, tells the amazing story of how modern science is seeking the answers to these and other fascinating questions. They are the questions that are at the heart of the highly interdisciplinary field of astrobiology, the study of life in the universe. Written in an accessible,

**conversational style for anyone intrigued by the possibilities of life in the solar system and beyond, Life in the Universe is an ideal place to start learning about the latest discoveries and unsolved mysteries in the field. From the most recent missions to Saturn's moons and our neighboring planet Mars to revolutionary discoveries of thousands of exoplanets, from the puzzle of life's beginning on Earth to the latest efforts in the search for intelligent life elsewhere, this book captures the imagination and enriches the reader's understanding of how astronomers, planetary scientists, biologists, and other scientists make progress at the cutting edge of this dynamic field. Enriched with a wealth of engaging features, this textbook brings any citizen of the cosmos up to speed with the scientific quest to discover whether we are alone or part of a universe full of life. An acclaimed text designed to inspire students of all backgrounds to explore foundational questions about life in the cosmos Completely revised and updated to include the latest developments in the field, including recent exploratory space missions to Mars, frontier exoplanet science, research on the origin of life on Earth, and more Enriched with helpful learning aids, including in-chapter Think about It questions, optional Do the Math and Special Topic boxes, Movie Madness boxes, end-of-chapter exercises and problems, quick quizzes, and much more Supported by instructor's resources, including an illustration package and test bank, available upon request**