

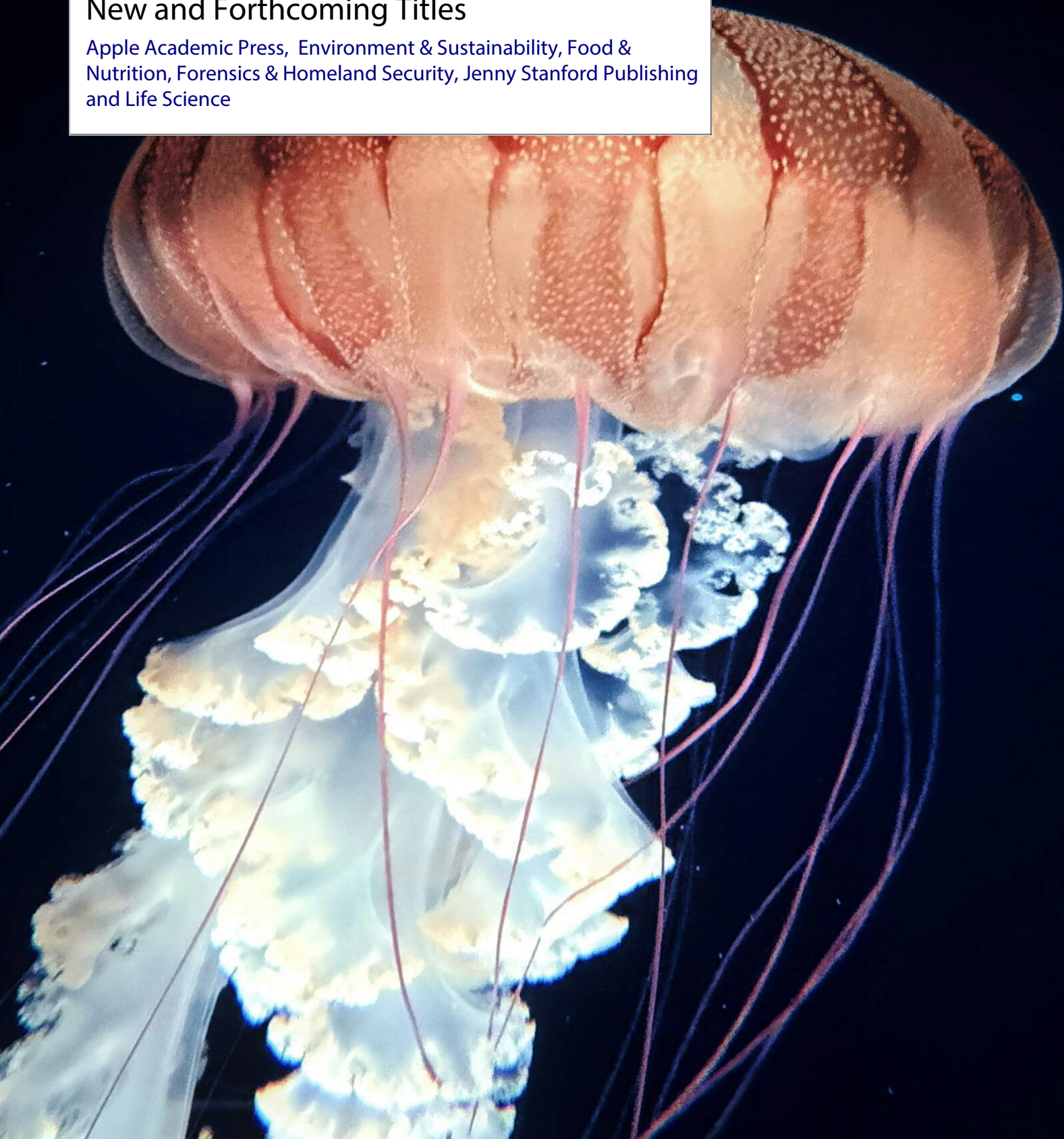
Routledge

Science and Technology Catalogue

January - June 2026

New and Forthcoming Titles

Apple Academic Press, Environment & Sustainability, Food & Nutrition, Forensics & Homeland Security, Jenny Stanford Publishing and Life Science



Welcome

Welcome to the January to June 2026 Science and Technology Catalogue.

Subjects include Apple Academic Press, Environment & Sustainability, Food & Nutrition, Forensics & Homeland Security, Jenny Stanford Publishing and Life Science.

We welcome your feedback on our publishing programme, so please do not hesitate to get in touch – whether you want to read, write, review, adapt or buy, we want to hear from you, so please visit our website below or please contact your local sales representative for more information.

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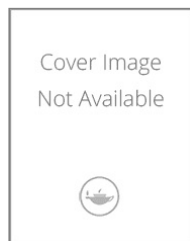


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Allied Healthcare in Practice

An Introduction to Integrated Patient Care



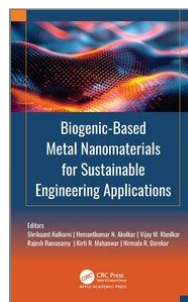
Edited by **Sally Lukose , Karuna Singh**

Explores the evolving landscape of the healthcare industry and addresses the interplay of allied health disciplines and communication and ethical and legal considerations followed in achieving optimal patient outcomes. Discusses the basic knowledge and skills needed for allied health professionals, safety quality and patient care aspects of allied healthcare, discussing patient safety and quality parameters, inter-collaborations in patient care, ethical and legal issues in patient care, more.

Apple Academic Press
February 2026 : 680pp
Hb: 978-1-998-51102-0 : **£180**

* For full contents and more information, visit: www.routledge.com/9781998511020

Biogenic-Based Metal Nanomaterials for Sustainable Engineering Applications



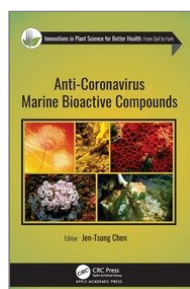
Edited by **Shrikaant Kulkarni , Hemantkumar N. Akolkar , Vijay M. Khedkar , Rajesh Ramasamy , Kirti R. Mahanwar , Nirmala R. Darekar**

Provides a detailed and structured exploration of biogenic metal nanomaterials, from their synthesis and characterization to their diverse applications in sustainable engineering. The chapters cover basic principles and advantages of biogenic synthesis and delve into the various biological agents used in this process. It covers characterization techniques, discussions on structural, chemical, and surface characterization, exploring practical applications for a wide array of sustainable engineering uses. Case studies and real-world examples are included. It addresses the challenges and future directions of the field and potential solutions.

Apple Academic Press
November 2025 : 488pp
Hb: 978-1-998-51178-5 : **£180**
eBook: 978-1-998-51179-2

* For full contents and more information, visit: www.routledge.com/9781998511785

Anti-Coronavirus Marine Bioactive Compounds



Edited by **Jen-Tsung Chen**

Series: *Innovations in Plant Science for Better Health: From Soil to Fork*

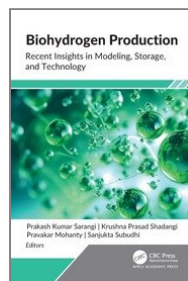
Emerging approaches based on in silico, in vitro, in vivo, and clinical studies to uncover the potential and the underlying mechanisms of diverse marine bioactive compounds to inhibit SARS-CoV-2 and paves the way for drug discovery devoted to the management of COVID-19. It offers in-depth insights into molecular mechanisms that can inhibit viral/host protein targets of SARS-CoV-2. It highlights the action of marine bioactive compounds based on advanced bioinformatics tools. Chapters discuss the modes of action by selected marine polysaccharides. It proposes their potential role in COVID-19 management.

Apple Academic Press
November 2025 : 464pp
Hb: 978-1-779-64010-9 : **£180**
eBook: 978-1-003-63801-8

* For full contents and more information, visit: www.routledge.com/9781779640109

Biohydrogen Production

Recent Insights in Modeling, Storage, and Technology



Edited by **Prakash Kumar Sarangi , Krushna Prasad Shadangi , Pravakar Mohanty , Sanjukta Subudhi**

Presents the principles and methods for production of biohydrogen from renewable sources. It provides latest information addressing solutions for biohydrogen for clean fuel, waste management, waste valorization, reduced greenhouse gas emissions, and climate change mitigation. It overviews of the various prospects and challenges faced in biohydrogen production while also considering environmental issues and economic aspects. It examines in-depth both the production as well as storage aspects of biohydrogen production. Methods of hydrogen production discussed include gasification technology, catalytic pyrolysis, dark fermentative processes, and more.

Apple Academic Press
November 2025 : 390pp
Hb: 978-1-774-91824-1 : **£180**
eBook: 978-1-003-56166-8

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Artificial Intelligence in Healthcare

Trends, Applications, and Future Directions



Edited by **Sakshi Gupta , Aryan Chaudhary**

Brings together a diverse collection of insights from experts in medicine, computer science, and data analytics to explore the evolving role of artificial intelligence (AI) in the healthcare sector. The chapters delve into various facets of AI applications, from legal considerations and mathematical foundations to the practical implementations of machine learning and deep learning in healthcare. It covers data processing and collection, AI application in diagnosis and treatment, imaging and disease detection, robotics, automation, pharmaceutical and biomedical applications, ethical considerations, and future trends and directions.

Apple Academic Press
February 2026 : 498pp
Hb: 978-1-998-51106-8 : **£180**

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Botanical Extracts and Their Phytochemicals

Potentiality in the Development of Sustainable Agriculture



Edited by **Mahesh R. Ghule , M. Naeem , Iffat Zareen Ahmad**

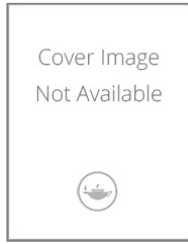
Highlights various scientific approaches that include agricultural, pharmacological, and pharmaceutical aspects of botanical extracts and their phytochemical properties and their use in the field of plant biology. Topics covered include the importance of natural products in sustainable agriculture, intelligent approaches for smart organic plant animal farming, beneficial aspects of various botanical extracts, and more. Chapters also cover novel approaches such as nanoencapsulation methods of bioactive compounds and the use of extracts in bioremediation of pesticides, herbicides, and other toxic chemicals.

Apple Academic Press
February 2026 : 402pp
Hb: 978-1-998-51112-9 : **£170**

* For full contents and more information, visit: www.routledge.com/9781998511129

Climate-Resilient Agriculture for Sustainable Crop Production

New Adaptation and Mitigation Strategies



Edited by **Sanjay Kumar , Shivani Ranjan , Sumit Sow , Smruti Ranjan Padhan , Dharendra Kumar Roy**

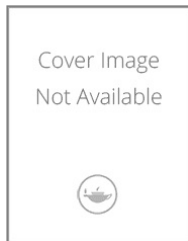
Addresses the intricate nexus between climate dynamics and the intricate tapestry of global agriculture. It discusses advancements in crop science, the deployment of cutting-edge technologies, and the development of sustainable farming practices. From the micro-level intricacies of crop genetics to the macro-scale considerations of global food systems, the book covers the multifaceted dimensions of climate-resilient agriculture. Topics cover artificial intelligence and robotics in climate-resilient agriculture; sustainable approaches in natural and organic farming, along with the economic viability and market prospects of each; climate-smart extension services; and much more.

Apple Academic Press
February 2026 : 374pp
Hb: 978-1-998-51114-3 : £170

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Clinical Potential of Exosomes

Diagnostic and Therapeutic Insights



Edited by **Vivek P. Chavda**

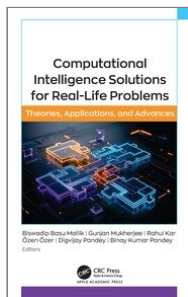
Explores the diverse roles and features exhibited by cells based on their origin, delving into the intricate mechanisms that govern exosome biogenesis and cargo loading and shedding light on their roles as molecular couriers. It provides insights on exosomes in modified cellular or tissue conditions in diverse disorders, and how their identification in biological fluids holds the possibility for a comprehensive diagnostic assessment involving multiple components. It also provides insights for the development of exosome-mediated therapies.

Apple Academic Press
February 2026 : 760pp
Hb: 978-1-774-91982-8 : £210

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Computational Intelligence Solutions for Real-Life Problems

Theories, Applications, and Advances



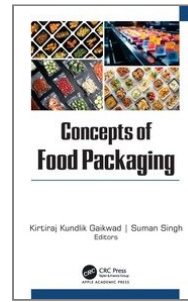
Edited by **Biswadip Basu Mallik , Gunjan Mukherjee , Rahul Kar , Özen Özer , Digvijay Pandey , Binay Kumar Pandey**

Looks at the fast-growing field of computational intelligence in a wide range of areas and offers new perspectives for using AI to enhance effectiveness as well as deal with a diverse selection real-life issues and problems. The numerous and diverse case examples highlight the integration of computational intelligence in drug discovery and in the development and manufacturing of pharmaceuticals, in electronic science, in agricultural science, in manufacturing and industrial design, in finance and economics, in cybersecurity, in election integrity, in cancer prediction and analysis, for TVE (technical and vocational education) institutions, and more.

Apple Academic Press
November 2025 : 470pp
Hb: 978-1-998-51100-6 : £180
eBook: 978-1-998-51101-3

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Concepts of Food Packaging



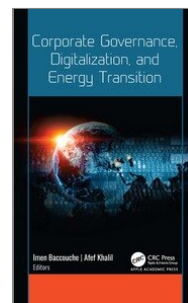
Edited by **Kirtiraj K. Gaikwad , Suman Singh**

Explores history of food packaging, tracing its evolution through time, and delves into the innovations shaping its future. It covers the fundamental principles, emerging trends, sustainability challenges, and regulatory considerations that define the landscape of food packaging today. It integrates insights from diverse domains for a holistic understanding of the subject. It addresses the pressing issues surrounding sustainability and environmental responsibility in food packaging, such as sustainable packaging materials, waste reduction, and the circular economy.

Apple Academic Press
November 2025 : 412pp
Hb: 978-1-774-91896-8 : £170
eBook: 978-1-003-59743-8

* For full contents and more information, visit: www.routledge.com/9781774918968

Corporate Governance, Digitalization, and Energy Transition



Edited by **Imen Baccouche , Afef Khalil**

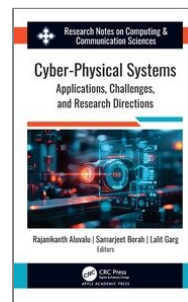
Highlights how technological innovations are reshaping corporate governance structures, facilitating the transition to sustainable energy systems, and driving the digitalization of numerous facets of our lives. It looks at issues in corporate governance and technological transformations, such as using blockchain technology in corporate governance, how political instability can affect economic groups, management strategies of firms during the Covid-19 crisis, and more. The role of digitization is investigated in various contexts.

Apple Academic Press
November 2025 : 294pp
Hb: 978-1-779-64339-1 : £150
eBook: 978-1-779-64340-7

* For full contents and more information, visit: www.routledge.com/9781779643391

Cyber-Physical Systems

Applications, Challenges, and Research Directions



Edited by **Rajanikanth Aluvalu , Samarjeet Borah , Lalit Garg**

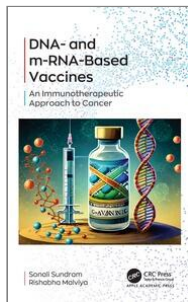
Explores many facets of CPS in robotics and engineering. It presents a host of cutting-edge technologies and approaches, with examples of real-world implementation, for CPS systems in industrial applications as well as in other sectors, such as transportation, gaming, medicine and healthcare, civil engineering and infrastructure, communications and internet security, library science, election integrity, music, etc., providing inspiration for new ideas for CPS applications.

Apple Academic Press
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DNA- and m-RNA-Based Vaccines

An Immunotherapeutic Approach to Cancer



Sonali Sundram , Rishabha Malviya

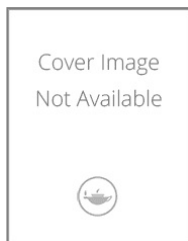
Explores the therapeutic uses, biological processes and the difficulties related to this novel strategy for cancer immunotherapy. It explores the power of genetic material in the battle against cancer and investigates its many aspects. It presents an overview of cancer immunotherapy. It also looks at the future potential for less intrusive and more effective therapies. It presents a thorough investigation of cancer vaccines based on DNA and m-RNA. It also discusses gene therapy, tumor angiogenesis, and the function of non-coding RNA in treatment resistance.

Apple Academic Press
November 2025 : 302pp
Hb: 978-1-774-91960-6 : £150
eBook: 978-1-774-91961-3

* For full contents and more information, visit: www.routledge.com/9781774919606

E-Financial Strategies for Sustainable Development

A Handbook for Promoting Financial Inclusion and Ending Poverty (SDG 1)



Edited by Ernesto D. R. Santibanez Gonzalez , Rajeev Sijariya , Vikas Garg

Series: Electronic Commerce Management for Business

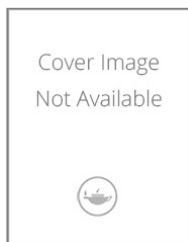
Explores the intersection of technology and finance, looks at how digital tools can promote financial inclusion and drive poverty alleviation efforts. Covers the components of financial inclusion, such as mobile banking, fintech, financial policies, etc. It considers climate finance, carbon drifts/carbon trading, etc. and discusses the capabilities and importance of continued development in both AI and sustainability to address the complex challenges facing the investment community. It discusses how digital tools have transformed financial access for underprivileged people and how e-financial strategies can empower women entrepreneurs in India and beyond.

Apple Academic Press
February 2026 : 356pp
Hb: 978-1-779-64094-9 : £140

* For full contents and more information, visit: www.routledge.com/9781779640949

Endophytes

Nurturing Crop Health and Sustainable Agriculture



Edited by A. K. Chakravarthy , B. Kariyanna

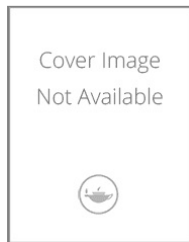
Brings together recent, crucial information on the possibilities for utilization of endophytic microorganisms in agricultural practices, discussing key experimental and theoretical research on endophytes and focusing on their applications in different arenas in agriculture. It covers the roles of endophytes in soil, in plant health, in the management of pests and pathogens, and for sustainable agriculture. The chapters look at the functional roles and uses of endophytes in different aspects of agriculture, providing new information and a better understanding of the networks of the complexity associated with microbes, the agroecosystem, the environment, and human health.

Apple Academic Press
February 2026 : 448pp
Hb: 978-1-779-64096-3 : £180

* For full contents and more information, visit: www.routledge.com/9781779640963

Fish Nutrition

Protein and Amino Acid Requirements



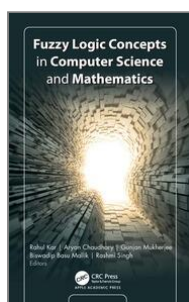
Edited by Imtiaz Ahmed , Ishtiyahq Ahmad , Shabihul Fatma Sayed

Delves into the essential aspects of fish nutrition, focusing specifically on the crucial roles of proteins and amino acids in their diet. It provides a comprehensive overview of the protein and amino acid requirements of various fish species, shedding light on their specific dietary needs for optimal growth and performance. It covers fish digestion and protein utilization and proteins in fish feed and protein requirements of different species of cultured fish and addresses amino acid requirements of fish, including their dietary needs for lysine, methionine, valine, tryptophan, phenylalanine, histidine, leucine, and arginine.

Apple Academic Press
February 2026 : 352pp
Hb: 978-1-998-51156-3 : £170

* For full contents and more information, visit: www.routledge.com/9781998511563

Fuzzy Logic Concepts in Computer Science and Mathematics



Edited by Rahul Kar , Aryan Chaudhary , Gunjan Mukherjee , Biswadip Basu Mallik , Rashmi Singh

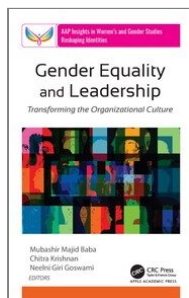
Provides in-depth information and research on fuzzy logic and its many beneficial applications in diverse fields of engineering and other areas. It explores the many varied applications of fuzzy logic in many sectors, such as in manufacturing and in the automotive industry, in the healthcare and allied health sciences, in business and finance, and more. It discusses fuzzy logic applications for enhancing electrical machine performance, for enhancing performance of continuous variable gearboxes, for integrating industrial IoT in smart manufacturing, for analyzing financial efficiency, in decision models and expert systems, and more.

Apple Academic Press
November 2025 : 316pp
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eBook: 978-1-779-64355-1

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Gender Equality and Leadership

Transforming the Organizational Culture



Edited by Mubashir Majid Baba , Chitra Krishnan , Neelni Giri Goswami

Series: AAP Insights in Women's and Gender Studies: Reshaping Identities

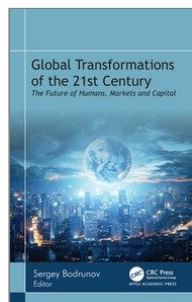
Explores relationship between gender dynamics and effective leadership in various contexts. It discusses research and real-world examples, on fostering gender equality, enhancing leadership effectiveness, promoting inclusive organizational cultures, and driving positive societal change. It discusses the historical development of gender norms as well as current approaches that have successfully removed obstacles. Chapters explore gender inequality in educational and workplace leadership, workplace gender equality in Eastern and Western regions, the importance of big data analytics in promoting diversity and gender equality, gender equality and female entrepreneurship, and more.

Apple Academic Press
February 2026 : 378pp
Hb: 978-1-779-64329-2 : £140

* For full contents and more information, visit: www.routledge.com/9781779643292

Global Transformations of the 21st Century

The Future of Humans, Markets, and Capital



Edited by **Sergey Bodrunov**

Articulates the most striking and interesting points of view of scientists on current issues of socioeconomic development. Discusses the basic ideas of the methodology of applying the noonomy approach not only to the analysis of the modern socioeconomic system but also to forecasting the prospects for its transformation and long-term development. Uses theoretical aspects and basic postulates as well as the applied tools for measuring and managing quality in economics at all levels, discussing the current stage of socioeconomic development in accordance with dialectical concepts of development, accompanied by the transition of accumulated quantitative changes into qualitative ones.

Apple Academic Press
January 2026 : 202pp
Hb: 978-1-779-64401-5 : £140
eBook: 978-1-779-64402-2

* For full contents and more information, visit: www.routledge.com/9781779644015

Green Energies

Synergetic Approaches to Energy, Technology, and Sustainability



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Edited by **Adel Ben Youssef, Pethuru Raj, Pronaya Bhattacharya, Pushan Kumar Dutta**

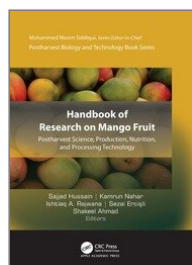
Weaves together the threads of green energy technologies, sustainable practices, and innovative strategies across multiple sectors. It covers the foundational aspects of the green energy transition, delving into its complexities and opportunities. It discusses energy management systems and the role of emerging technologies such as solar photovoltaic cells, setting the stage for a deeper inquiry into sustainability. New technologies like Industry 4.0 and AI are addressed as well, discussing how they are reshaping the landscape of energy production and consumption.

Apple Academic Press
February 2026 : 372pp
Hb: 978-1-998-51116-7 : £170

* For full contents and more information, visit: www.routledge.com/9781998511167

Handbook of Research on Mango Fruit

Postharvest Science, Production, Nutrition, and Processing Technology



Edited by **Sajjad Hussain, Kamrun Nahar, Ishtiaq A. Rajwana, Sezai Ercisli, Shakeel Ahmad**

Series: *Postharvest Biology and Technology*

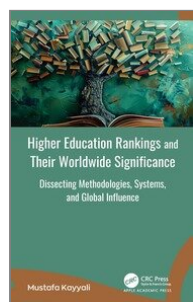
Is a comprehensive resource on all aspects related to mango. It explores thoroughly the multifaceted world of mango, covering postharvest science, production practices, nutritional aspects, and cutting-edge processing technologies. It examines mango cultivation practices, varietal diversity of mangos, and sustainable approaches to mango farming. It provides in-depth exploration of postharvest science, delving into the intricate processes that influence the quality, shelf life, and marketability of mango fruit. From harvesting techniques to storage methods, the chapters offer valuable insights into preserving the freshness and nutritional content of mangoes from orchard to consumer.

Apple Academic Press
November 2025 : 718pp
Hb: 978-1-779-64338-4 : £220
eBook: 978-1-003-63759-2

* For full contents and more information, visit: www.routledge.com/9781779643384

Higher Education Rankings and Their Worldwide Significance

Dissecting Methodologies, Systems, and Global Influence



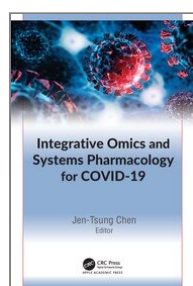
Mustafa Kayyali

Provides a detailed examination of higher education rankings, highlighting their significant influence on the global higher education landscape. Each chapter explores a specific aspect of the ranking phenomenon including its historical progression, its present importance, and its potential impact on the continuous advancement of higher education systems worldwide. It explains the methodologies and systemic structures of these rankings. It discusses the history, significance, and the metrics of ranking methodologies, the pros and cons of ranking systems, the academic research and socioeconomic implications, and much more.

Apple Academic Press
November 2025 : 510pp
Hb: 978-1-779-64006-2 : £150
eBook: 978-1-003-63800-1

* For full contents and more information, visit: www.routledge.com/9781779640062

Integrative Omics and Systems Pharmacology for COVID-19



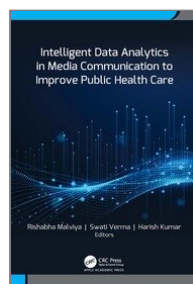
Edited by **Jen-Tsung Chen**

Provides latest methods and applications of integrative omics and systems pharmacology for exploring treatments and medications for COVID-19. It presents a powerful way to discover drug candidates performed by systems/network pharmacology. It explains the expanding strategy to integrate a series of approaches including genomics, metagenomics, transcriptomics, proteomics, metabolomics, epigenomics, and bioinformatics to organize a system of multiple omics. A comprehensive overview of COVID-19 is provided.

Apple Academic Press
November 2025 : 456pp
Hb: 978-1-998-51120-4 : £170
eBook: 978-1-998-51121-1

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Intelligent Data Analytics in Media Communication to Improve Public Health Care



Edited by **Rishabha Malviya, Swati Verma, Harish Kumar**

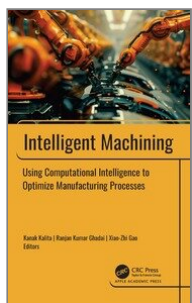
Discusses collecting information intelligently from social media, which has sparked the interest of the biomedical and health informatics communities. It looks at data mining and analytic tools with deep and machine learning technologies for the development of effective health communication strategies, for the early detection of health conditions, low cost of connecting with patients, using social media for health promotion, critical role of communication in COVID-19 epidemic, and more. The book covers digital issues in healthcare, such as cybersecurity threats and provides useful ways to manage these risks.

Apple Academic Press
December 2025 : 536pp
Hb: 978-1-779-64352-0 : £210
eBook: 978-1-779-64353-7

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Intelligent Machining

Using Computational Intelligence to Optimize Manufacturing Processes



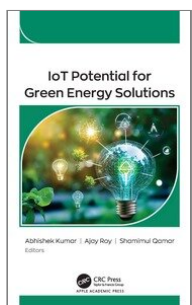
Edited by **Kanak Kalita , Ranjan Kumar Ghadai , Xiao-Zhi Gao**

Explores high-strength steel sections, charting their importance and utility. It elucidates the selection of a CNC lathe using the TOPSIS method. Bibliometric insights into multi-objective optimization and metaheuristic algorithms are also discussed as is the development of high entropy alloys. It details practical applications of computational intelligence, including optimizing investment casting process parameters, enhancing mobile robot navigation performance, and more. Fabrication is explored and also wear and thermal behaviors of advanced composite coatings. It also discusses the merging of computational techniques and traditional processes with chapters on various topics.

Apple Academic Press
December 2025 : 290pp
Hb: 978-1-774-91958-3 : **£150**
eBook: 978-1-774-91959-0

* For full contents and more information, visit: www.routledge.com/9781774919583

IoT Potential for Green Energy Solutions



Edited by **Abhishek Kumar , Ajay Roy , Shamimul Qamar**

Investigates IoT applications within the green energy domain, exploring the potential of IoT in energy distribution, consumption, and conservation. Chapters address many issues, like improvements in wind energy technology through novel materials and blade designs. It also looks into the integration of IoT technology in hybrid renewable energy systems, use of IoT to address environmental concerns such as noise pollution, role of IoT-powered irrigation systems for sustainable agriculture practices, etc. Other chapters look at IoT applications in industries including transportation, commercial fleet sustainability, agriculture, and energy storage and distribution.

Apple Academic Press
November 2025 : 298pp
Hb: 978-1-779-64358-2 : **£150**
eBook: 978-1-779-64359-9

* For full contents and more information, visit: www.routledge.com/9781779643582

Lung Cancer

Overview and Therapies



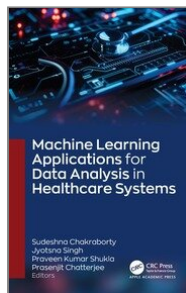
Edited by **Abhishek Tiwari , Varsha Tiwari , Manish Kumar**

Explores various facets of lung cancer, covering its molecular underpinnings, diagnostic modalities, treatment strategies, and the burgeoning field of nanotechnology in cancer therapeutics. It discusses a diverse range of topics that explore lung cancer, covering critical aspects such as pathogenesis, diagnostic imaging techniques, current treatment approaches, and the revolutionary field of nanotechnology in cancer therapy. It covers the pathogenesis and molecular biology of lung cancer. Other chapters detail development of targeted drug delivery systems, harnessing the transformative potential of nanoparticles, including magnetic nanoparticles, polymeric nanoparticles, etc.

Apple Academic Press
February 2026 : 300pp
Hb: 978-1-779-64022-2 : **£170**

* For full contents and more information, visit: www.routledge.com/9781779640222

Machine Learning Applications for Data Analysis in Healthcare Systems



Edited by **Sudeshna Chakraborty , Jyotsna Singh , Praveen Kumar Shukla , Prasenjit Chatterjee**

Investigates the impact of machine learning techniques on data analysis in healthcare, transforming the way we approach medical challenges, improve patient outcomes, and enhance healthcare systems. It investigates the application of machine learning in-hospital mortality among heart failure patients, machine learning and its potential in outbreak prediction, the design and development of anti-cancerous drug molecules, and also delves into heartbeat classification based on a machine-human interaction model. The book looks at the application of machine learning in clinical decision-making, predictive modeling, personalized medicine, genomics, and public health management.

Apple Academic Press
November 2025 : 250pp
Hb: 978-1-779-64318-6 : **£150**
eBook: 978-1-779-64319-3

* For full contents and more information, visit: www.routledge.com/9781779643186

Nanopesticides

A Perspective from Welfare to Risk Assessment



Edited by **Garima Awasthi , Payal Lodha , Gajendra Pal Singh**

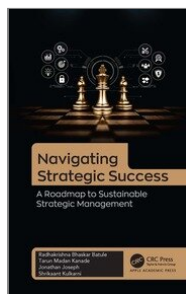
Overviews the emerging field of nanopesticides. It focuses on the impact of nanopesticides on human welfare as well as in the environment, including their potential benefits over conventional pesticides, including increased effectiveness, reduced environmental impact, and improved safety. The potential risks associated with nanopesticides, including their toxicity to non-target organisms and the potential for nanoparticles to accumulate in the environment, are also covered. It also covers the configuration and preparation methods of nanopesticides, and economical and market aspects of nanopesticides.

Apple Academic Press
February 2026 : 224pp
Hb: 978-1-774-91966-8 : **£170**

* For full contents and more information, visit: www.routledge.com/9781774919668

Navigating Strategic Success

A Roadmap to Sustainable Strategic Management



Edited by **Radhakrishna Bhaskar Batule , Tarun Madan Kanade , Jonathan Joseph , Shrikaant Kulkarni**

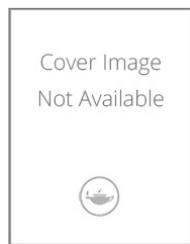
Deals with strategic management, offering a detailed exploration of essential concepts and practical applications across various business domains. It introduces strategic management and covers strategic planning and strategy formulation. It covers global and international strategies, strategic alliances and partnerships, addressing the challenges and opportunities present today. Other topics include corporate governance, crisis management, strategic management models and tools, strategic communication, performance measurement and improvement, and more. It covers the financial, technological, and human aspects of strategic marketing covering sustainable strategic management.

Apple Academic Press
November 2025 : 318pp
Hb: 978-1-774-91952-1 : **£140**
eBook: 978-1-774-91953-8

* For full contents and more information, visit: www.routledge.com/9781774919521

Neurodegeneration

Molecular Basis of Treatment Approaches



Edited by **Vivek P. Chavda , Rajashri Bezbaruah , Bibhuti Bhushan Kakoti , Vladimir N. Uversky**

Covers the basics of neurodegeneration and moves on to cover the etiology, epidemiology, and diagnostics of neurodegenerative illnesses in depth. A thorough discussion of the molecular mechanisms behind neurodegenerative illnesses is provided, with particular emphasis on the roles that protein folding and misfolding play in the onset and progression of these conditions. Recent advancements in neurodegeneration associated with brain iron buildup, oxidative stress, and biomarker research are also covered. Repurposed medications, approved treatment approaches for neurodegenerative illnesses, and the application of AI and machine learning for diagnosis and therapy are all covered.

Apple Academic Press
February 2026 : 414pp
Hb: 978-1-998-51182-2 : **£180**

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Nonthermal Pulsed Electric Field Technology for the Food Industry



Edited by **Preeti Birwal , Megh R. Goyal , Baldev Singh Kalsi , Ankita Kataria**

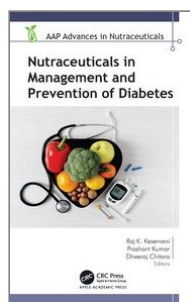
Series: Innovations in Agricultural & Biological Engineering

Illustrates the contemporary pulsed electric field processing techniques for food preservation, an emerging food processing. It introduces the role of nonthermal technology in novel food product development for ensuring the quality of the product. It introduces pulsed electric field, pulse generation technologies, PEF processing system, and safety and critical parameters. It also addresses the influence of PEF on microorganisms and enzymes, presents an analysis of kinetics governing the inactivation of enzymes as well as microorganisms under PEF treatment, and covers the application of PEF in hurdle technology. It covers applications and future aspects of the technology.

Apple Academic Press
February 2026 : 344pp
Hb: 978-1-774-91886-9 : **£170**

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Nutraceuticals in Management and Prevention of Diabetes



Edited by **Raj K. Keservani , Prashant Kumar , Dheeraj Chitara**

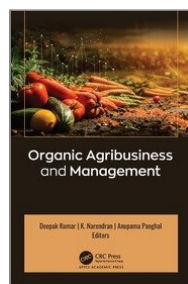
Series: AAP Advances in Nutraceuticals

Provides a groundbreaking exploration into the fascinating intersection of nutrition and pharmaceuticals in diabetes care. In the face of an escalating global diabetes epidemic, this book provides a comprehensive and up-to-date resource that transcends traditional approaches to managing and preventing this prevalent health condition. It examines the current landscape of diabetes, emphasizing the urgent need for innovative and accessible solutions. It also looks at the latest research findings, offering readers a deep dive into the scientific mechanisms by which nutraceuticals impact glucose metabolism, insulin sensitivity, and other pivotal factors in diabetes management.

Apple Academic Press
November 2025 : 394pp
Hb: 978-1-998-51130-3 : **£170**
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* For full contents and more information, visit: www.routledge.com/9781998511303

Organic Agribusiness and Management



Edited by **Deepak Kumar , K. Narendran , Anupama Panghal**

Highlights production systems of organic agriculture, certification issues, organic products supply chain management, value chain management, micro-economics, branding, and the regulatory status of organic products for a better understanding and future research. It overviews organic agribusiness and consumer behaviors related to organic food products. Discussions of the organic inputs and the organic production methods of different countries as well as emerging business models for the organic products value chain are made. It discusses issues related to sustainable packaging, retailing, marketing strategies, and global consumer perceptions of organic products.

Apple Academic Press
December 2025 : 486pp
Hb: 978-1-779-64331-5 : **£170**
eBook: 978-1-003-63760-8

* For full contents and more information, visit: www.routledge.com/9781779643315

Pharmacotherapy Approaches Toward Endocrine and Metabolic Diseases



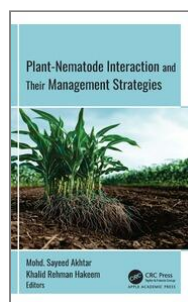
Edited by **Thakur Gurjeet Singh , Sanjana Mehta**

Offers an exploration of therapeutic strategies and advancements in the management of endocrine and metabolic disorders. The diverse range of topics covered in this book reflects the complexity and multifaceted nature of endocrine and metabolic disorders. From hormonal regulation and epigenetics to nutritional interventions and emerging therapies, readers will gain a comprehensive understanding of the current landscape of pharmacotherapy in this field. This comprehensive volume is a collective effort of experts in the field to provide an in-depth exploration of pharmacological interventions for various endocrine and metabolic disorders.

Apple Academic Press
February 2026 : 310pp
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Plant-Nematode Interactions and Their Management Strategies



Edited by **Mohd. Sayeed Akhtar , Khalid Rehman Hakeem**

Covers plant-nematode interactions and delves into effective management techniques. First focusing on identification and characterization of plant parasitic nematodes using molecular techniques, the book covers their interactions with plants, focusing on agriculturally important crops as well as ornamental plants. It covers advances in disease control and management strategies of parasitic nematodes on plants and crops, focusing on biocontrol, such as PGPR bio-formulations and other bioformulations. Discussed also are microorganisms present in rhizospheric soil that can provide frontline attack against the plant-parasitic nematodes.

Apple Academic Press
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eBook: 978-1-779-64328-5

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Precision Nutrition and Endocrine Health

From Pregnancy to Chronic Diseases



Edited by **Thakur Gurjeet Singh, Sanjana Mehta**

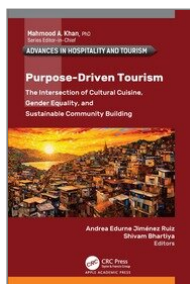
Offers a comprehensive and holistic exploration of the pivotal relationship between nutrition and endocrine health. It covers health from various aspects that include nutrition, endocrinology, and related fields, presenting cutting-edge research and practical strategies. It addresses the continuum of endocrine health, beginning with prenatal nutrition and maternal health, and extending to the prevention and management of chronic diseases such as diabetes, thyroid disorders, and metabolic syndromes.

Apple Academic Press
February 2026 : 406pp
Hb: 978-1-998-51186-0 : £170

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Purpose-Driven Tourism

The Intersection of Cultural Cuisine, Gender Equality, and Sustainable Community Building



Edited by **Andrea Edurne Jiménez Ruiz, Shivam Bhartiya**

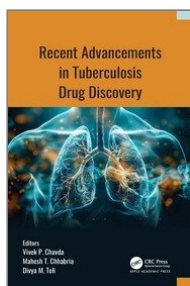
Series: *Advances in Hospitality and Tourism*

Explores the confluence of tourism, cuisine, gender equality, and community development in tourism. It investigates the significance of conservation initiatives, responsible tourism practices, and community participation that highlight comprehensive strategies that can lead to the prosperity of host communities and the protection of their natural resources while simultaneously benefiting tourists. The diversity of cultural cuisines is emphasized, delving into the complex relationships between gender, sustainable community building, and gastronomy. It offers engrossing studies of gastronomy and cultural tourism in various countries with valuable insights.

Apple Academic Press
November 2025 : 238pp
Hb: 978-1-998-51164-8 : £150
eBook: 978-1-003-63784-4

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Recent Advancements in Tuberculosis Drug Discovery



Edited by **Vivek P. Chavda, Mahesh T. Chhabria, Divya M. Teli**

Overviews the latest progress in this field, covering a wide range of topics, from drug resistance to using AI to enhance treatment methods. Chapters explore TB diagnosis methods, drug resistance mechanisms in TB, and limitations in existing drugs and proposes strategies such as structural modifications, efflux pathway targeting, and host-directed therapies to overcome resistance. It also discusses structure-based drug design (SBDD) as a new technique in tuberculosis (TB) drug discovery and for tackling drug resistance. Recent advances in tuberculosis control, vaccine development, and biomarkers are also covered along with visions for the future of TB drug discovery.

Apple Academic Press
December 2025 : 462pp
Hb: 978-1-998-51180-8 : £180
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Revolutionary Impact of 5G on Advancement of Technology in Healthcare



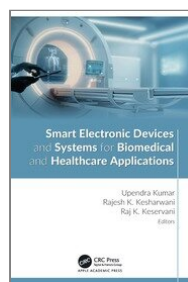
Edited by **Mritunjay Rai, Jay Kumar Pandey**

Focuses on the recognition of 5G as a catalyst for change in the healthcare sector in order to leverage high-speed, low-latency communication afforded by 5G, opening up new frontiers for medical breakthroughs. It introduces communication systems in healthcare and the role of 5G technology. It also discusses specific applications, such as in remote surgery and robotic-assisted procedures; for liver tumor segmentation and classification using deep learning models; in telemedicine and mobile health apps; in dentistry; in health security; and more.

Apple Academic Press
November 2025 : 480pp
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Smart Electronic Devices and Systems for Biomedical and Healthcare Applications



Edited by **Upendra Kumar, Rajesh K. Kesharwani, Raj K. Keservani**

Explores the development of smart bioelectronics and biomedical devices using advanced information technology. It considers the integration of smart technologies in healthcare, employing big data analytics, the Internet of Things, machine learning, cloud storage, and other technologies for predictive modeling, information analysis, etc., for medical diagnosis and treatment. It covers areas such as medical image retrieval, machine learning for diagnosis, and biomedical applications based on mobile phone cell network systems. It also covers topics such as predictive modeling of vector-borne diseases and their pathogens using AI, future implications for new technologies and more.

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Smart Horticulture Production

Integrating Advanced Technologies



Edited by **Rajni Rajan, Duniya Ram Singh**

Series: *Innovations in Horticultural Science*

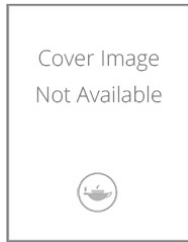
Provides a comprehensive exploration of the intersection of technological advancement and agricultural practices, introducing the concept of smart horticulture production. It delves into the various facets of smart horticulture, elucidating its principles, methodologies, and practical applications. It provides an overview of the foundational concepts of smart horticulture. It discusses sensor technologies and data analytics. It highlights how technology is revolutionizing every aspect of horticultural production, from planting and irrigation to pest management and harvesting.

Apple Academic Press
February 2026 : 422pp
Hb: 978-1-998-51166-2 : £170

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Soybeans

VOL 1: History, Breeding, and Product Profile



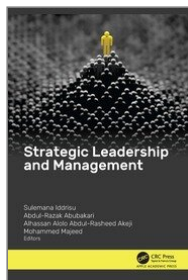
Edited by **R. Ambika Rajendran , Ayyagari Ramlal , Sanjay Kumar Lal , Chigeza Godfree**

Provides comprehensive coverage of many aspects of soybean, its utilities, vulnerabilities, and most recent discoveries. It emphasizes aspects of taxonomy, domestication of soybean, and its evolution. Comprised of four sections, it covers the history, taxonomy, distribution, and economic importance of soybeans. It also discusses soybean breeding, seed systems, product development as well as product profiles of soybean.

Apple Academic Press
February 2026 : 338pp
Hb: 978-1-998-51170-9 : £180

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Strategic Leadership and Management



Edited by **Sulemana Iddrisu , Abdul-Razak Abubakari , Alhassan Alolo Abdul-Rasheed Akeji , Mohammed Majeed**

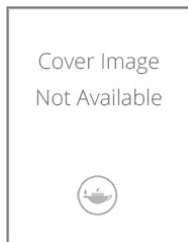
Covers the important aspects of strategic leadership and management at the institutional levels in key areas of government, health, education, hospitality, finance, and general industry sectors, discussing the components, styles, and characteristics of leadership that are crucial for achieving success in today's leadership situations.

Apple Academic Press
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Hb: 978-1-998-51142-6 : £150
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The Future of Events

Trends, Technologies, and Stakeholder Engagement



Edited by **Narendra Kumar , Swati Sharma , Bruno Barbosa Sousa**

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Offers a nuanced understanding of the forces driving change and the opportunities they present for event professionals, businesses and communities. It offers insight into a broad selection of topics. It discusses practical implications and thought-provoking discussions that illuminate the path forward for the events industry in the 21st century. It provides a comprehensive view of what lies ahead for events. It covers various types of events ranging from religious events and cultural events to hybrid events. It addresses the digital revolution. The rise of the internet and the proliferation of digital tools has expanded the reach of events and fundamentally altered their nature.

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The Growing Business Intelligence

AI and Related Technologies



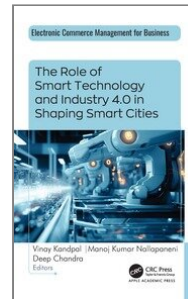
Edited by **George Kofi Amoako , Mohammed Majeed , Kwame Simpe Ofori , Charles Asare , Jonas Yomboi**

Explores how the application of AI in the fields of management, finance, HR, hospitality, and marketing can enhance effectiveness. It looks at how technologies like AI have completely transformed these fields, enabling business professionals and marketers to develop deeper connections with clients, extract valuable insights from large databases, and execute highly customized marketing and personnel management strategies. Chapters discuss the implementation and integration of AI within organizations, the use of AI in performance management, using AI to enhance the customer experience in the hospitality and other industries, and much more.

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The Role of Smart Technology and Industry 4.0 in Shaping Smart Cities



Edited by **Vinay Kandpal , Manoj Kumar Nallapaneni , Deep Chandra**

Examines how smart technologies impact the restructuring of urban areas and industrial sectors. It explores the use of a number of advanced technologies, such as the Internet of Things (IoT), artificial intelligence (AI), and big data analytics to develop more efficient, sustainable, and livable urban environments. The chapters examine the present condition and potential future advancements in smart urban development, encompassing areas such as smart grids and intelligent transportation systems. The chapters explore the difficulties and possibilities linked to this change, providing valuable perspectives on how firms might adjust and prosper in this emerging period.

Apple Academic Press
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Therapeutic Potential of Marine Biotoxins

From Poison to Pharmacy



Edited by **Santhanam Ramesh , Ramasamy Santhanam , Subbiah Balasundari**

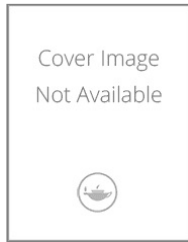
Explores the latest on the therapeutic potential of marine biotoxins, emphasizing the present gaps in the existing knowledge on marine biotoxins. It covers the types and chemistry of marine biotoxins; marine phyla yielding biotoxins; the impact of marine biotoxins on the environment, on fisheries, and on human health; and marine phycotoxins, invertebrate toxins, and fish toxins and their therapeutic potential as pharmacological agents for several disorders, including cancer, diabetes, hypertension, dyslipidemia, and obesity. It provides the names of marine taxonomic groups and further explores the therapeutic potential of certain groups, including marine algae, and more.

Apple Academic Press
February 2026 : 298pp
Hb: 978-1-774-91888-3 : £150

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Tourism and Hospitality Education

Progress, Challenges, and Prospects



Abdallah M. Elshaer , Asmaa M. Marzouk

Series: Advances in Hospitality and Tourism

Examines the role of tourism and hospitality education at colleges, universities, and vocational schools, and how higher education meets the needs of today tourism and hospitality industry. It focuses on core concepts of tourism and hospitality education, illustrating its evolution, such as the progression of instruction from face-to-face to online or hybrid education. It looks at the promotion of work-integrated learning in the tourism and hospitality classroom, and takes a look at rethinking tourism and hospitality education through curriculum design and development. It explores the challenges to higher tourism and hospitality education and looks at the new opportunities.

Apple Academic Press
February 2026 : 334pp
Hb: 978-1-779-64074-1 : £150

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Water Governance

Nurturing Resilience for Sustainable Development



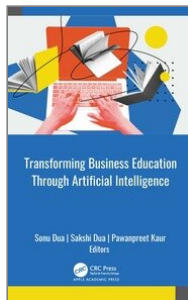
Edited by Umair Riaz , Laila Shahzad , Fernanda Maria Policarpo Tonelli

Explores the use of water governance as a way to achieve sustainable development in a highly resource exploited era. It consolidates the existing knowledge and understanding of management and governance in the context of resilience in water sector. It looks at water scarcity and the need for governance from all sides—from theory to practice. It considers water resources in conjunction with changing climate implications, economic ramifications and issues, the political context of water resources, and much more.

Apple Academic Press
February 2026 : 406pp
Hb: 978-1-998-51162-4 : £170

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Transforming Business Education through Artificial Intelligence



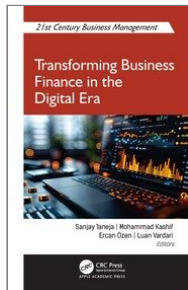
Edited by Sonu Dua , Sakshi Dua , Pawanpreet Kaur

This new book, Transforming Business Education through Artificial Intelligence, delves into the multifaceted intersection of AI and business education, offering insights, strategies, and perspectives on leveraging AI to enhance learning, decision-making, and organizational efficiency. Through a comprehensive exploration of AI integration across diverse domains, this book helps to equip educators, students, and business professionals with the knowledge and tools needed to navigate the evolving landscape of AI-enabled business education.

Apple Academic Press
November 2025 : 492pp
Hb: 978-1-998-51146-4 : £150
eBook: 978-1-998-51147-1

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Transforming Business Finance in the Digital Era



Edited by Sanjay Taneja , Mohammad Kashif , Ercan Özen , Luan Vardari

Series: 21st Century Business Management

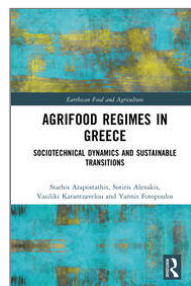
Looks at developments through a definitive assessment of how AI and ML have influenced today's business finance processes. It explores an important area in finance, for example, such as the opportunities and risks that may originate from fintech as well as the ethical issue connected with artificial intelligence and machine learning. It looks at the changing landscape of investments, the confluence of social commerce and machine learning, assessing customer awareness and engagement in green banking, machine learning algorithms for forecasting, gender bias in investment behavior through machine learning, and much more.

Apple Academic Press
December 2025 : 306pp
Hb: 978-1-998-51122-8 : £150
eBook: 978-1-998-51123-5

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Agrifood Regimes in Greece

Sociotechnical Dynamics and Sustainable Transitions



Stathis Arapostathis, Sotiris Alexakis, Vasiliki Karantzavelou, Yannis Fotopoulos

Series: Earthscan Food and Agriculture

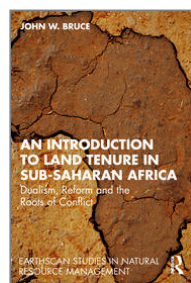
This book examines the history and socio-technical transformations of agri-food regimes systems in contemporary Greece. It argues that no national sustainability policy can meet EU and UN targets without examining the historical construction of the agrifood system and its lock-ins. By analyzing key products—wheat, tomato, olive oil, pork, chicken, and fish—it captures production regime specificities while explaining the sector's transition toward sustainability. This book will be of great interest to students and scholars of food and agriculture, sustainability, science and technology studies and European politics and policy.

Routledge
March 2026 : 286pp
Hb: 978-1-032-94719-8 : £145

* For full contents and more information, visit: www.routledge.com/9781032947198

An Introduction to Land Tenure in Sub-Saharan Africa

Dualism, Reform and the Roots of Conflict



John W. Bruce

Series: Earthscan Studies in Natural Resource Management

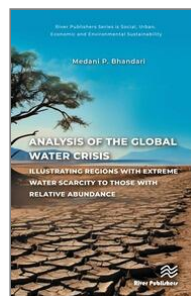
Written by a scholar-practitioner with over four decades of experience, this book is an accessible introduction to land tenure and its implications for African development. The author reviews Africa's experience of evolution in customary land tenure and the often-difficult experience of the new nation in land tenure reform, including their failure to prevent further loss of land by rural populations and the unwitting contribution of some reform elements to that loss. This book will be of great interest to students, scholars and practitioners wanting to understand the role of law and land tenure in African development.

Routledge
March 2026 : 324pp
Pb: 978-1-032-75969-2 : £35.99
Hb: 978-1-032-75971-5 : £145

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Analysis of the Global Water Crisis

Illustrating Regions with Extreme Water Scarcity to Those with Relative Abundance



Medani P. Bhandari

Series: River Publishers Series in Social, Urban, Economic and Environmental Sustainability

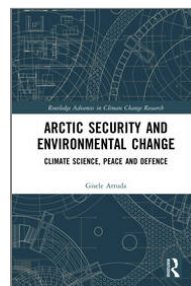
This pioneering work provides a comprehensive exploration of the world's most pressing water issues. It offers a global overview of the water crisis, meticulously categorizing regions based on their water availability: from areas facing extreme water scarcity to those enjoying relative abundance. By examining diverse case studies, it presents specific examples from regions struggling with severe droughts, high to moderate water stress, moderate water security, and those blessed with ample freshwater resources. The book delves into the underlying causes of the global water crisis, including climate change, population growth, pollution, and unsustainable water management practices.

River Publishers
November 2025 : 332pp
Hb: 978-8-743-80105-4 : £110
eBook: 978-8-743-80106-1

* For full contents and more information, visit: www.routledge.com/9788743801054

Arctic Security and Environmental Change

Climate Science, Peace and Defence



Gisele Arruda

Series: Routledge Advances in Climate Change Research

This book examines the nexus of environmental change and defence in the Arctic as a national and global security issue. In an era dominated by a new range of threats and priorities, Gisele Arruda discusses the militarisation process in the High North and explores how climate change is impacting the maritime, infrastructure and defence systems dynamics. Contextualizing the Arctic region as part of a global security geo-space, the book has a particular emphasis on the security and geopolitical implications to societies, the northern territories, coastal communities, and maritime routes of Arctic states.

Routledge
January 2026 : 208pp
Hb: 978-1-032-99453-6 : £145

* For full contents and more information, visit: www.routledge.com/9781032994536

Artificial Intelligence for Sustainable Development

How, Why, and What Drives the Future



Medani P. Bhandari Akamai University, U.S.A.

Series: Routledge Studies in Sustainable Development

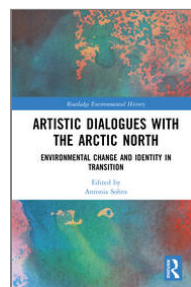
Examining how artificial intelligence (AI) can contribute to building a fairer, more resilient, and sustainable world, this book explores the connections between technology, ethics, and sustainability, demonstrating how AI can become a powerful tool for addressing global challenges and enhancing lives. Artificial Intelligence for Sustainable Development will be of value to students, researchers, policymakers, and anyone interested in exploring how technology can be leveraged to promote sustainability and equity globally.

Routledge
March 2026 : 206pp
Hb: 978-1-041-22802-8 : £145

* For full contents and more information, visit: www.routledge.com/9781041228028

Artistic Dialogues with the Arctic North

Environmental Change and Identity in Transition



Edited by Antonia Sohns

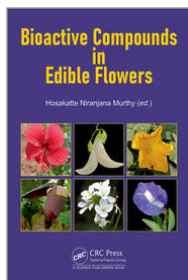
Series: Routledge Environmental History

This book brings together Indigenous and non-Indigenous artists and scholars to explore how environmental changes in the Arctic are being experienced, understood, and represented. As climate change unfolds across vast geographies and long timescales, its impacts—on identity, wellbeing, cultural resources, and ways of life—are intimate, abrupt, and deeply felt. This is an essential resource for scholars, students, and practitioners in environmental history, Indigenous studies, climate policy, art and visual culture, and global development, and for anyone seeking new ways to engage with environmental change through art, experience, and collaboration.

Routledge
December 2025 : 218pp
Hb: 978-1-032-90030-8 : £145
eBook: 978-1-003-54588-0

* For full contents and more information, visit: www.routledge.com/9781032900308

Bioactive Compounds in Edible Flowers



Edited by **Hosakatte Niranjana Murthy** Karnatak University, India

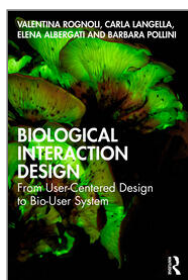
The book provides information on the nutritional value, phytochemical makeup, and bioactivity of both wild and cultivated flowers. It also describes edible flowers in depth to make them better-known to consumers and the food business. Each chapter discusses the possible toxicological effects of floral components.

CRC Press
February 2026 : 430pp
Hb: 978-1-041-07986-6 : £105

* For full contents and more information, visit: www.routledge.com/9781041079866

Biological Interaction Design

From User-Centered Design to Bio-User System



Valentina Rognoli , Carla Langella , Elena Albergati , Barbara Pollini

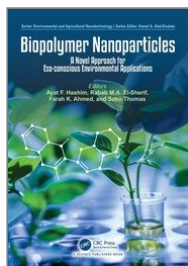
Bringing together interaction design and the emerging field of biodesign, this book explores the use of living and biofabricated materials in interactive artefacts. As future products become increasingly interactive and complex, careful consideration of their environmental and ethical impacts is more important than ever. Through the presentation of original research and diverse case studies, the book inspires students and designers alike to expand their knowledge and practice. It emphasises the urgent need to transition from traditional design to biodesign and demonstrates how designers can, and must, take on this role to help shape regenerative, symbiotic futures.

Routledge
December 2025 : 328pp
Pb: 978-1-032-43328-8 : £39.99
Hb: 978-1-032-43330-1 : £145

* For full contents and more information, visit: www.routledge.com/9781032433288

Biopolymer Nanoparticles

A Novel Approach for Eco-conscious Environmental Applications



Edited by **Ayat F. Hashim , Rabab M.A. El-Sherif , Farah K. Ahmed , Sabu Thomas** Mahatma Gandhi University, Kottayam, India

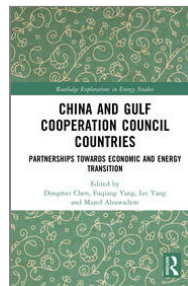
Biopolymer Nanoparticles: A Novel Approach for Eco-conscious Environmental Applications is presenting new long-term solutions to the environment issues with the aid of the area of nanotechnology. This comprehensive book investigates the possibility of use of nanoparticles of biopolymer-based materials in water treatment, soil purification, elimination of pollution, biosensing, and several other applications. It investigates synthesis, environmental degradability, and field use of these eco-friendly materials, with contributions by scientists from around the world.

CRC Press
December 2025 : 374pp
Hb: 978-1-032-87488-3 : £105
eBook: 978-1-003-55833-0

* For full contents and more information, visit: www.routledge.com/9781032874883

China and Gulf Cooperation Council Countries

Partnerships Towards Economic and Energy Transition



Edited by **Dongmei Chen , Fuqiang Yang , Lei Yang , Majed Alsuwailem**

Series: *Routledge Explorations in Energy Studies*

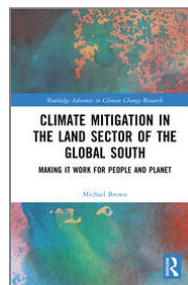
This book investigates the evolving bilateral relations between China and the six Gulf Cooperation Council (GCC) countries as the global energy system undergoes a profound transformation and the architecture of international trade and investment continues to shift. It examines how GCC-China relations are evolving as they leverage their resource endowments, structurally transform their economies, and ramp up investments in clean technologies, low-carbon infrastructure, and resilient supply chains.

Routledge
January 2026 : 358pp
Hb: 978-1-041-00506-3 : £145

* For full contents and more information, visit: www.routledge.com/9781041005063

Climate Mitigation in the Land Sector of the Global South

Making it Work for People and Planet



Michael I. Brown

Series: *Routledge Advances in Climate Change Research*

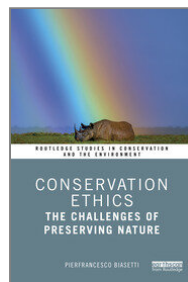
This book challenges dominant, top-down approaches to climate mitigation in the land sector, arguing that without genuine negotiation, recognized land rights, and tailored capacity building for Indigenous Peoples and Local Communities (IPLCs), most solutions will inevitably fail or do harm. Through a rich set of case studies that include successes and failures, Michael Brown demonstrates how social license, tenure security, and robust capacity building are essential for achieving climate action that will be sustainable because it works for key actors at multiple levels.

Routledge
November 2025 : 236pp
Hb: 978-1-032-46161-8 : £145

* For full contents and more information, visit: www.routledge.com/9781032461618

Conservation Ethics

The Challenges of Preserving Nature



Pierfrancesco Basseti

Series: *Routledge Studies in Conservation and the Environment*

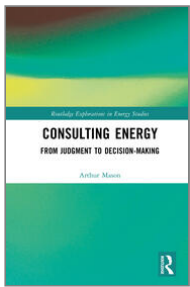
This book explores the ethical dimensions of nature conservation, discussing how we value the natural world and how it can be protected in a complex context where many ethically significant interests must be carefully weighed and balanced. By integrating ethical perspectives and stakeholder concerns, it argues for a pluralistic, thoughtful approach to conservation ethics, one that embraces complexity in evaluation and deliberation, and fosters long-term success amid urgent global challenges. It will be of great interest to students, scholars and practitioners of nature conservation, environmental management, environmental ethics and environmental philosophy.

Routledge
March 2026 : 338pp
Pb: 978-1-032-70011-3 : £39.99
Hb: 978-1-032-70017-5 : £145

* For full contents and more information, visit: www.routledge.com/9781032700113

Consulting Energy

From Judgment to Decision-Making



Arthur Mason

Series: Routledge Explorations in Energy Studies

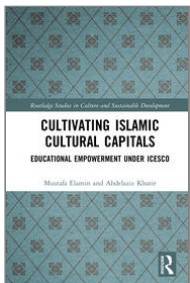
This book examines a shift in the terrain of energy politics that has given rise to consultant experts as new types of intermediaries capable of orienting crucial decision-making, influencing energy politics, steering governance, and envisioning energy futures. Drawing on fieldwork at executive roundtables in global cities across North America and Europe, the book examines the development and consolidation of consultant expertise and the opulent settings in which it is distributed. By exploring the role of aesthetics and judgement in market-orientated decision-making, the book explores elites, expertise, and ethics by highlighting the relationship between credibility and luxury.

Routledge
November 2025 : 230pp
Hb: 978-1-041-00483-7 : £145
eBook: 978-1-003-61017-5

* For full contents and more information, visit: www.routledge.com/9781041004837

Cultivating Islamic Cultural Capitals

Educational Empowerment Under ICESCO



Mustafa Osman I. Elamin , Abdelaziz Khatir Osman Jadeed

Series: Routledge Studies in Culture and Sustainable Development

The 'Capitals of Islamic Culture Programme' is an initiative that promotes the Islamic world's dedication to education, science, and cultural growth. Rooted in Islamic ethical principles, it encourages the preservation, regeneration, and invigoration of cultural activity in the capitals, fosters cooperation across the Islamic world, and contributes vital insights into education and society. This book offers a substantial addition to the literature on supranational influences in non-Western contexts. From a deep dive into its historical evolution, to an analysis of its contributions to education, science, and culture, readers gain a holistic understanding of the programme.

Routledge
March 2026 : 316pp
Hb: 978-1-032-82239-6 : £145

* For full contents and more information, visit: www.routledge.com/9781032822396

Design Shift

creative values for people, planet, and the common good



Stuart Walker

Examining how creative decision-making is fundamentally tied to our values and modes of thinking in an era of accelerating change and deepening challenges, this book offers a timely reminder that design can be a powerful force for renewal, when grounded in a sense of responsibility, humility, and shared humanity. Design Shift will be a key text for designers, students, lecturers and researchers across design disciplines, craft studies, and sustainable futures, as well as practitioners and policymakers involved in social and environmental reform.

Routledge
March 2026 : 264pp
Pb: 978-1-041-15056-5 : £39.99
Hb: 978-1-041-15077-0 : £145

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2ND EDITION

Designing for Kids

Creating for Playing, Learning and Growing



Krystina Castella Art Center, Pasadena, California, USA

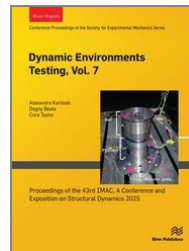
Designing for Kids helps design students and professionals dive deeply into building a child-centered design practice, providing them with the knowledge, skills and tools to create products with a positive impact on child development, learning, play, and well-being. This book will provide the skills and foundational understanding of how to design impactful products, services, and experiences that spark joy and support young people to thrive.

Routledge
February 2026 : 350pp
Pb: 978-1-032-86393-1 : £39.99
Hb: 978-1-032-86805-9 : £145

* For full contents and more information, visit: www.routledge.com/9781032863931

Dynamic Environments Testing, Vol. 7

Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics 2025



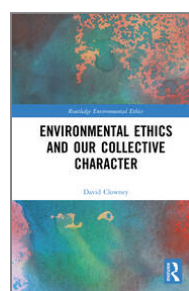
Edited by **Alexandra Karlicek , Dagny Beale , Cora Taylor**

Dynamic Environments Testing, Volume 7: Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics, 2025, the seventh volume of twelve from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects Dynamic Environments Testing.

River Publishers
January 2026 : 150pp
Hb: 978-8-743-80152-8 : £99.99

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Environmental Ethics and our Collective Character



David Clowney

Series: Routledge Environmental Ethics

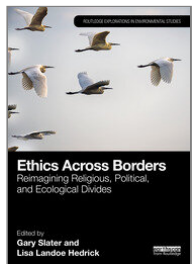
Faced with the global crisis of human caused environmental harm, this eloquently written text explores the connection between our individual virtues and vices and those of larger groups, such as societies, nations and businesses. It demonstrates how this huge collective crisis is our moral problem as individuals, and what we can do about it, together. Environmental Ethics and our Collective Character will be an important discussion text for students, academics, and instructors in the field of environmental virtue ethics, virtue ethics more broadly, business ethics, political and social philosophy, and environmental and policy studies.

Routledge
November 2025 : 276pp
Hb: 978-1-041-04043-9 : £190
eBook: 978-1-003-62657-2

* For full contents and more information, visit: www.routledge.com/9781041040439

Ethics Across Borders

Reimagining Religious, Political, and Ecological Divides



Edited by **Gary Slater**, **Lisa Landoe Hedrick**

Series: *Routledge Explorations in Environmental Studies*

Ethics Across Borders assembles perspectives from geographers, historians, theologians, philosophers, and scientists to explore ethically-relevant connections across multiple types of borders. Ethics Across Borders offers lessons on how to reimagine borders and how to engage more justly with ecological systems and human communities. It will appeal to readers in environmental and religious ethics, philosophy, and border studies.

Routledge

December 2025 : 302pp

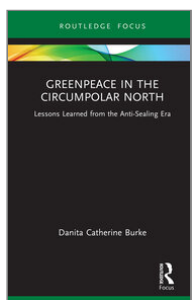
Pb: 978-1-032-89457-7 : **£39.99**

Hb: 978-1-032-89458-4 : **£145**

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Greenpeace in the Circumpolar North

Lessons Learned from the Anti-Sealing Era



Danita Catherine Burke

Series: *Routledge Explorations in Environmental Studies*

Exploring Greenpeace's effort to expand its engagement in the Circumpolar North in the 21st century, this book examines how this work is affected and informed by the organisation's controversial legacy of anti-sealing campaigning in the 1970s and 1980s. Presenting the fallout for peoples and cultures targeted by Greenpeace's anti-sealing campaigning as a pivotal dimension to the organisation's history, the book argues that this must first be acknowledged in order to understand how Greenpeace has developed more positive working relationships with northern Indigenous peoples in recent years.

Routledge

November 2025 : 134pp

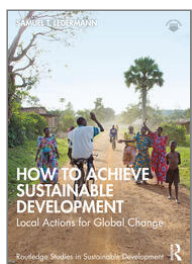
Hb: 978-1-041-14352-9 : **£52.99**

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How to Achieve Sustainable Development

Local Actions for Global Change



Samuel T. Ledermann

Series: *Routledge Studies in Sustainable Development*

It is Monday, September 28th, 2015. You open your email inbox and find a message from the United Nations with the subject line "Unanimously adopted: 2030 Agenda for Sustainable Development". I hope this book did its part to support you on your path to become a silo breaker and development changemaker, through all the ups and downs. We look for your leadership for generations to come.

Routledge

January 2026 : 368pp

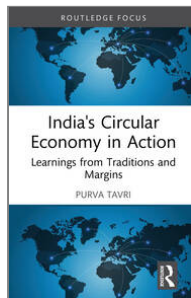
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India's Circular Economy in Action

Learnings from Traditions and Margins



Purva Tavri

Series: *Routledge Focus on Environment and Sustainability*

This book presents a series of case studies which highlight culturally embedded circular economy practices of reuse, repair, and regeneration in India. Far from innovations, these traditions reflect ways of living that have long sustained communities within ecological limits. From terracotta clusters in Rajasthan to bamboo-timber houses in Sikkim, palm-leaf artefacts in Kerala, and community commons in Chhattisgarh, they demonstrate that circularity is not an abstract policy goal but a lived inheritance. Against this backdrop, Purva Tavri explores how practices from the margins can offer valuable lessons for the affluent world, wherever it may be located.

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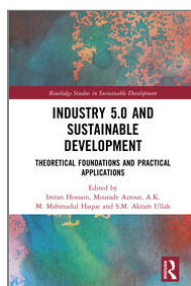
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Industry 5.0 and Sustainable Development

Theoretical Foundations and Practical Applications



Edited by **Imran Hossain**, **Mourade Azrou**, **A.K.M. Mahmudul Haque**, **S.M. Akram Ullah**

Series: *Routledge Studies in Sustainable Development*

Exploring the intersection of Industry 5.0 technologies and sustainable development, this book integrates newer technologies - such as AI, automation, Internet of Things, and robotics - within sustainability frameworks to provide both theoretical foundations and practical applications. Industry 5.0 and Sustainable Development is intended for academics, researchers, policymakers, and industry professionals who are engaged in sustainable development, environmental studies, business management, and industrial engineering, as well as upper-level students exploring the integration of advanced technologies with sustainability principles.

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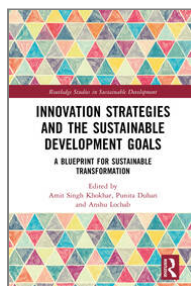
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Innovation Strategies and the Sustainable Development Goals

A Blueprint for Sustainable Transformation



Edited by **Amit Singh Khokhar**, **Punita Duhan**, **Anshu Lochab**

Series: *Routledge Studies in Sustainable Development*

The global pursuit of sustainable development and climate neutrality is driving all countries towards energy transformation, resource efficiency, and transition to renewable energy sources. Currently, the world economy operates predominantly on fossil fuels, leading to increased greenhouse gas emissions that have the most damaging impact on the climate (IEA & et. al., 2023; UNEP, 2022). The path to a sustainable future requires bold action, innovative thinking, and collective responsibility. By embracing these principles, we can build a world where sustainability is not just a goal but a lived reality for all.

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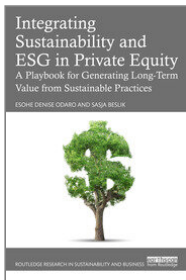
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Integrating Sustainability and ESG in Private Equity

A Playbook for Generating Long-Term Value from Sustainable Practices



Esohe Denise Odaro , Sasja Beslik

Series: Routledge Research in Sustainability and Business

This book reveals how ESG principles drive competitive advantage in private equity. Following Alex Morgan's journey from skeptic to advocate, it provides frameworks for implementing sustainability throughout the investment lifecycle: enhancing due diligence, improving operations, and maximizing exit value. Through portfolio company case studies, readers discover practical methodologies for value creation across environmental, social, and governance dimensions. Essential frameworks include materiality assessment, stakeholder engagement, regulatory compliance, and measurement systems.

Routledge
March 2026 : 202pp
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Jewish Environmentalism in the Post-Secular Age

Earthly Spirituality



Hava Tirosch-Samuelson

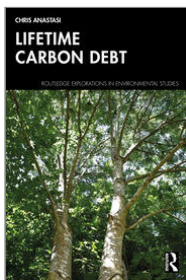
Series: Routledge Environmental Humanities

Presenting Jewish environmentalism as a case study of contemporary post-secularism, this book exemplifies the responses of world religions to the global ecological crisis and situates Jewish environmental spirituality historically, socially, theologically, and politically. This book will be of great interest to students and scholars of Jewish studies, religious studies, secularism/post-secularism studies, religion and ecology, and religion and science.

Routledge
April 2026 : 290pp
Hb: 978-0-815-35773-5 : £145

* For full contents and more information, visit: www.routledge.com/9780815357735

Lifetime Carbon Debt



Chris Anastasi Anastasi London Ltd, UK

Series: Routledge Explorations in Environmental Studies

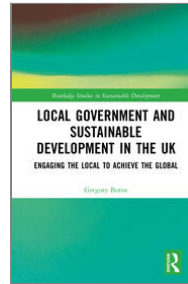
Lifetime Carbon Debt shows how individuals can help global efforts to reduce greenhouse gas emissions by addressing their own annual and lifetime emissions. People around the world look to governments to provide leadership and action on climate change, and to industry and the wider business community to reduce emissions associated with their activities. However, individuals also have an important role to play by taking responsibility for their emissions. In this book Chris Anastasi offers guidance on how they can do this depending on their personal circumstances.

Routledge
February 2026 : 230pp
Pb: 978-1-032-36928-0 : £39.99
Hb: 978-1-032-36926-6 : £145

* For full contents and more information, visit: www.routledge.com/9781032369280

Local Government and Sustainable Development in the UK

Engaging the Local to Achieve the Global



Gregory Borne

Series: Routledge Studies in Sustainable Development

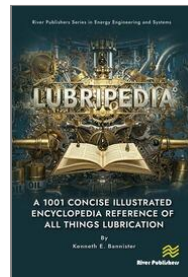
Drawing on and advancing theoretical frameworks that emphasize risk and reflexive modernity, this book presents data, discussions and recommendations from the UK to explore sustainable development and its associated risks at the local, community and individual levels. This book will be of great interest to students and scholars of sustainable development, governance and political communication.

Routledge
April 2026 : 200pp
Hb: 978-0-367-27663-8 : £145

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Lubripedia

A 1001 Concise Illustrated Encyclopedia Reference of all Things Lubrication



Kenneth E. Bannister

Series: River Publishers Series in Energy Engineering and Systems

Your journey to lubrication mastery begins here. Welcome to Lubripedia, the most comprehensive, authoritative, and practical single-source reference on industrial lubrication ever published. With hundreds of carefully organized, easy-to-understand entries, this A-to-Z encyclopedia covers every aspect of lubrication from additives and base oils to wear mechanisms and zero-wear lubrication. Whether you are an engineer, maintenance manager, technician, or student, this is your go-to resource for mastering the science and art of practical lubrication.

River Publishers
December 2025 : 970pp
Hb: 978-8-770-04140-9 : £115
eBook: 978-8-743-80660-8

* For full contents and more information, visit: www.routledge.com/9788770041409

Managing Marine Plastic Pollution in Norway

Sustainable Circular Economy Solutions for Fisheries and Aquaculture



Edited by **Hans Jakob Walnum , Megan Palmer-Abbs , Paritosh Chakor Deshpande**

Series: Routledge Studies in Sustainability

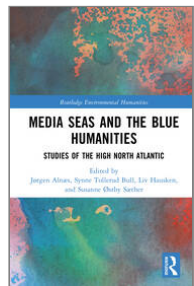
Based on collaborative, interdisciplinary research as part of the Norwegian Shift-Plastics project, this book establishes sustainable circular value chains for managing plastics in the fisheries and aquaculture industries, which are significant causes of ocean plastic pollution. Managing Marine Plastic Pollution in Norway will be an important research reference and tool for academics, students, policymakers, industry and business professionals in pollution and waste management, sustainability, circular economy, and marine, fishery, and environmental management.

Routledge
February 2026 : 228pp
Hb: 978-1-041-01881-0 : £145

* For full contents and more information, visit: www.routledge.com/9781041018810

Media Seas and the Blue Humanities

Studies of the High North Atlantic



Edited by **Jørgen Alnæs, Synne Tollerud Bull, Liv Hausken, Susanne Østby Sæther**

Series: *Routledge Environmental Humanities*

This book contributes to the emerging field of the blue humanities by developing a critical media perspective on the technical, social, cultural, and historical mediation of knowledge, perception, and experience of the oceans. With contributions from leading scholars from across a diverse range of fields, this volume focuses on the environmental challenges experienced in the North Atlantic Ocean. As an important addition to the blue humanities and environmental humanities, this interdisciplinary volume will appeal to scholars and students of media and communication studies, human geography, anthropology, environmental studies, cultural and technological history.

Routledge
March 2026 : 264pp
Hb: 978-1-032-76512-9 : £145

* For full contents and more information, visit: www.routledge.com/9781032765129

2ND EDITION

Nature-Based Solutions to 21st Century Challenges



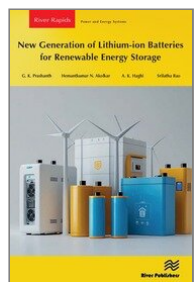
Robert C. Brears

This second edition provides a systematic review of nature-based solutions and their potential to address current environmental challenges. With new case studies from the Global North and Global South, it offers fresh insights into policy implementations and innovative approaches. Highlighting recent advancements in technology, such as AI, and policy frameworks, it provides a critical analysis of nature-based solutions' effectiveness in various contexts, including urban and rural environments. It will interest policymakers, practitioners and researchers involved in nature-based solutions, sustainable urban planning, environmental management, and sustainable development generally.

Routledge
December 2025 : 336pp
Pb: 978-1-032-85386-4 : £39.99
Hb: 978-1-032-85388-8 : £145

* For full contents and more information, visit: www.routledge.com/9781032853864

New Generation of Lithium-ion Batteries for Renewable Energy Storage



Srilatha Rao, G.K. Prashanth, Hemantkumar N. Akolkar, A. K. Haghi

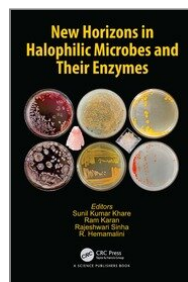
Series: *River Publishers Series in Power and Energy Systems*

This book is a comprehensive analysis of lithium-ion battery (LIB) technologies. LIBs are one of the most advanced rechargeable batteries available and have garnered significant interest while being the preferred mobile power source for portable electronics while also being widely used across various industries. Combining cutting-edge research with practical insights, it provides an analysis of LIB development, including cathode/anode materials, electrolytes, and separators. It covers Li-ion variants such as LCO, NMC, LFP, LMO, NCA and delves into energy density, cycle life, and safety mechanisms.

River Publishers
November 2025 : 160pp
Pb: 978-8-743-80797-1 : £81.99
eBook: 978-8-743-80798-8

* For full contents and more information, visit: www.routledge.com/9788743807971

New Horizons in Halophilic Microbes and Their Enzymes



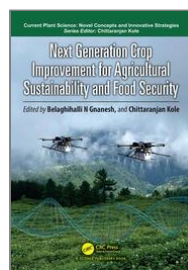
Edited by **Sunil Kumar Khare, Ram Karan, Rajeshwari Sinha, R. Hemamalini**

This book presents a collection of the latest developments in halophile research over the last decade. The multi-themed volume captures emerging insights into halophilic microbes' diversity, physiology, and unique adaptation. The book emphasizes new advances in genomics, novel biomolecules, and extremozymes functional under saline conditions.

CRC Press
December 2025 : 266pp
Hb: 978-1-032-67528-2 : £105
eBook: 978-1-003-46646-8

* For full contents and more information, visit: www.routledge.com/9781032675282

Next Generation Crop Improvement for Agricultural Sustainability and Food Security



Edited by **Belaghilali N Gnanesh, Chittaranjan Kole**

Series: *Current Plant Science*

This book highlights recent advances in stress tolerance, genome editing, accelerated breeding, and genomic selection to develop climate-resilient, nutrient-rich crops. It emphasises biofortification to combat hidden hunger and promotes millets and vegetables for their resilience and nutritional value. Innovations like grafting, plasma treatments and starch bioengineering are explored. Integration of bioinformatics, phenomics and machine learning supports precision agriculture for sustainable and future global food security. This book aims to educate policymakers, researchers, and students.

CRC Press
January 2026 : 306pp
Hb: 978-1-032-94743-3 : £105
eBook: 978-1-003-58410-0

* For full contents and more information, visit: www.routledge.com/9781032947433

Nourishing Scotland



Pete Ritchie

Series: *Earthscan Food and Agriculture*

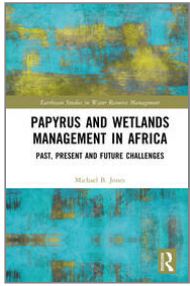
This book delves into Scotland's evolving food system, uncovering the challenges of change, tracing food policy progress since devolution in 1999, and envisioning bold strategies for the next twenty-five years. It is grounded in a right-to-food perspective, and describes both the necessity of, and the opportunity for, a repurposing of the food system from a focus on commodity production and trade to a focus on nutrition equity and environmental restoration. This book will be of great interest to students, scholars and policymakers interested in food and agricultural policy, as well as those interested in sustainable food systems, public health, and social policy more widely.

Routledge
May 2026 : 310pp
Pb: 978-1-041-02640-2 : £39.99
Hb: 978-1-041-02641-9 : £145

* For full contents and more information, visit: www.routledge.com/9781041026402

Papyrus and Wetlands Management in Africa

Past, Present and Future Challenges



Michael B. Jones The Uni of Dublin, Ireland

Series: *Earthscan Studies in Water Resource Management*

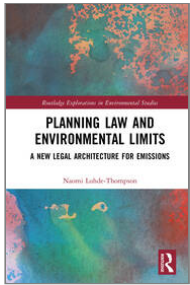
This book provides a comprehensive overview of the influence that the papyrus plant has had on African wetlands, with a particular focus on the Nile, in the past and how this may change with the oncoming threats of climate change. It focuses on this dominant and defining plant which plays such an important role in determining the structure and functioning of the Nile and other African wetland systems. This book will be of great interest to students and scholars of wetland management, ecosystem services, water resource management, biogeography, sustainable development and African studies.

Routledge
December 2025 : 180pp
Hb: 978-0-367-67498-4 : £145

* For full contents and more information, visit: www.routledge.com/9780367674984

Planning Law and Environmental Limits

A New Legal Architecture for Emissions



Naomi Luhde-Thompson

Series: *Routledge Explorations in Environmental Studies*

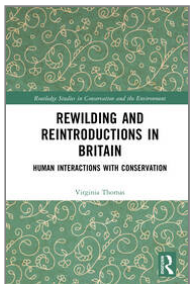
This book explores the role of planning law in balancing the dilemma of resource extraction with the recognition of emission limits. Naomi Luhde-Thompson explores how planning law, which is one of the strongest forms of environmental regulation in the UK, has failed to incorporate environmental limits into decisions. Planning Law and Environmental Limits will be of use to lawyers and policymakers, as well as to researchers, academics and students interested in climate change, planning and environmental law.

Routledge
February 2026 : 210pp
Hb: 978-1-041-04725-4 : £140

* For full contents and more information, visit: www.routledge.com/9781041047254

Rewilding and Reintroductions in Britain

Human Interactions with Conservation



Virginia Thomas

Series: *Routledge Studies in Conservation and the Environment*

This book examines how rewilding and species reintroductions play a crucial role in conservation and ecological restoration in Britain. It examines how humans think about and interact with our environment and nature, and how competing interests surrounding conservation, land-use (in particular agriculture), and social-cultural issues can be reconciled. It will be of great interest to students and scholars of rewilding, conservation, ecological restoration, human-wildlife interactions and environmental management more broadly.

Routledge
December 2025 : 206pp
Hb: 978-1-032-59834-5 : £145

* For full contents and more information, visit: www.routledge.com/9781032598345

2ND EDITION

Routledge Handbook of Environmental Anthropology



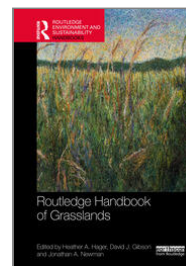
Edited by **Eleanor Shoreman-Ouimet** University of Connecticut, USA, **Jessie Fredlund**, **Helen Kopnina** University of Amsterdam, The Netherlands

This book illustrates the ways in which today's environmental anthropologists are constructing new paradigms for understanding the multiplicity of players, pressures, and ecologies in every environment, and the value of cultural knowledge of landscapes. This comprehensive, holistically oriented second edition is an ideal resource to not only inform students and scholars on the history and challenges of environmental anthropology today, but to prepare them to apply the anthropological skill set to address challenges of justice, health, conservation, and wellbeing in a climate changed world.

Routledge
March 2026 : 508pp
Hb: 978-1-032-74561-9 : £230

* For full contents and more information, visit: www.routledge.com/9781032745619

Routledge Handbook of Grasslands



Edited by **Heather A. Hager**, **David J. Gibson**, **Jonathan A. Newman**

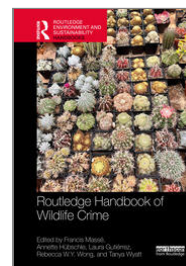
Series: *Routledge Environment and Sustainability Handbooks*

This handbook represents a definitive state of the art overview of grasslands from multiple, interdisciplinary and global perspectives. It is the only grassland-oriented text to include social, economic, policy, and cultural value dimensions of grasslands, as well as an up-to-date coverage of the agronomy and ecology of these environments. The Routledge Handbook of Grasslands is essential reading for students and scholars of grassland ecology, management and conservation as well as policy and management practitioners involved in grassland management and governance, as well as natural resources more broadly.

Routledge
March 2026 : 648pp
Hb: 978-1-032-49175-2 : £230

* For full contents and more information, visit: www.routledge.com/9781032491752

Routledge Handbook of Wildlife Crime



Edited by **Francis Massé**, **Annette Hübschle**, **Laura Gutiérrez**, **Rebecca W.Y. Wong**, **Tanya Wyatt**

Series: *Routledge Environment and Sustainability Handbooks*

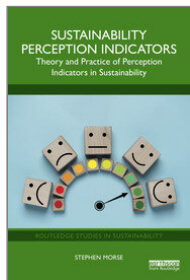
This book provides a comprehensive overview of wildlife crime in its various forms. It addresses recognised challenges associated with wildlife crime, including transnational security, the role of corporations, legislative frameworks and enforcement strategies, as well as broader concerns related to conservation, sustainable development, socio-environmental harm, and well-being. It will be of interest to students and scholars of wildlife crime, wildlife management and conservation, environmental crime, and green criminology more widely. It will also be of use to practitioners and policymakers involved in developing and implementing strategies to reduce wildlife crime.

Routledge
December 2025 : 344pp
Hb: 978-1-032-36814-6 : £230

* For full contents and more information, visit: www.routledge.com/9781032368146

Sustainability Perception Indicators

Theory and Practice of Perception Indicators in Sustainability



Stephen Morse University of Surrey, UK

Series: *Routledge Studies in Sustainability*

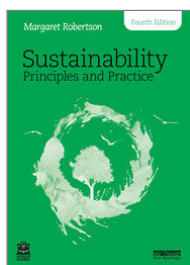
This book offers a comprehensive analysis of the background, practice, potential and challenges associated with developing and using perceptual indicators for assessing sustainability. This book will be useful for students studying social sciences, economics, environmental studies, human geography, politics and international development. The book may also appeal to students taking courses in business studies.

Routledge
April 2026 : 206pp
Pb: 978-1-032-59853-6 : **£39.99**
Hb: 978-1-032-59859-8 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032598536

4TH EDITION

Sustainability Principles and Practice



Margaret Robertson Lane Community College, USA

Sustainability Principles and Practice gives an accessible and comprehensive overview of the interdisciplinary field of sustainability. The focus is on furnishing solutions and equipping students with both conceptual understanding and technical skills. Chapters include further reading and discussion questions. The textbook is designed to be used by undergraduate college and university students in sustainability degree programs and other programs in which sustainability is taught.

Routledge
December 2025 : 626pp
Pb: 978-1-032-78156-3 : **£42.99**
Hb: 978-1-032-78157-0 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032781563

Sustainable Consumption and Everyday Food Practices in Europe



Edited by **Virginie Amilien**, **Monia Saïdi**, **Matthieu Duboys-De-Labarre**

Series: *Routledge Studies in Food, Society and the Environment*

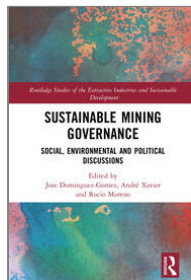
Presenting contemporary case studies of everyday food practices, this book examines food habits and the ways they are evolving or resisting change. Focusing on food quality schemes as institutional tools for improving sustainable food systems, it includes diverse case studies from France, Germany, Hungary, Italy, Norway, Serbia, the UK, as well as Sweden and Australia. This book will appeal to students, researchers, and policymakers interested in sustainable food systems and consumption, and their intersections with sociology, anthropology, cultural studies, and sustainable development.

Routledge
February 2026 : 266pp
Hb: 978-1-032-72599-4 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032725994

Sustainable Mining Governance

Social, Environmental and Political Discussions



Edited by **J. Andrés Domínguez-Gómez**, **André Xavier**, **Rocio Muñoz-Moreno**

Series: *Routledge Studies of the Extractive Industries and Sustainable Development*

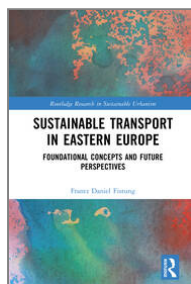
This volume provides a transdisciplinary analysis of the political, social and environmental aspects of governance and its implementation in the mining sector. Through a theoretical and practical journey—ranging from colonial extractivism to current models of sustainability and corporate responsibility—it provides a comprehensive look at how formal and informal power structures, community relations, social and environmental impact assessments, and regulatory frameworks shape the present and future of mining. It will be of great interest to students and scholars of the mining and extractive industries, natural resource governance, environmental governance and sustainable development.

Routledge
December 2025 : 256pp
Hb: 978-1-032-62281-1 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032622811

Sustainable Transport in Eastern Europe

Foundational Concepts and Future Perspectives



Frantz Daniel Fistung

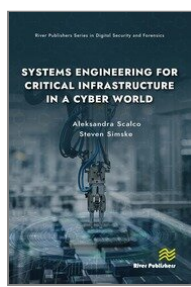
Series: *Routledge Research in Sustainable Urbanism*

Exploring the crucial shift towards sustainable transport, this book examines how we can ensure safe and efficient movement of people and goods without compromising future mobility. This book provides a comprehensive analysis of sustainable transport, from its conceptual foundations and current achievements to future perspectives. Presenting arguments and providing solutions for steering transport towards sustainable development at both micro and macro levels, this book will be invaluable for students, academics, researchers, policymakers, transport professionals, and anyone with an interest in the current state and future of sustainable transport.

Routledge
April 2026 : 286pp
Hb: 978-1-041-24669-5 : **£145**

* For full contents and more information, visit: www.routledge.com/9781041246695

Systems Engineering for Critical Infrastructure in a Cyber World



Aleksandra Scalco, **Steven Simske**

Series: *River Publishers Rapids Series in Digital Security and Forensics*

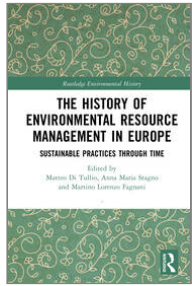
This book is a practical guide to defending critical infrastructure in today's cyber world. Critical infrastructure includes energy, power, water, transportation, manufacturing, and facility systems, along with the sensors and actuators that make up operational technology (OT). It presents a systems engineering framework for coordinating interdependent organizations and technologies, ensuring seamless performance across multiple fields. By combining systems engineering and cyber defense principles, this book equips professionals to work effectively with incident responders, analysts, engineers, and senior management.

River Publishers
February 2026 : 472pp
Hb: 978-8-743-80911-1 : **£110**

* For full contents and more information, visit: www.routledge.com/9788743809111

The History of Environmental Resource Management in Europe

Sustainable Practices Through Time



Edited by **Matteo Di Tullio**, **Anna Maria Stagno**,
Martino Lorenzo Fagnani University of Pavia, Italy
Series: *Routledge Environmental History*

Bringing together a broad range of case studies from across Europe, this book explores practices implemented to promote the sustainable use of environmental resources from the 16th Century until the turn of the 21st Century. It sheds light on a range of sustainability issues including land management, water supply, farming systems and forestry. This book will be of interest to students and scholars of history and archaeology, as well as to those in research fields related to anthropology, sociology, environmental and agricultural sciences, and economics.

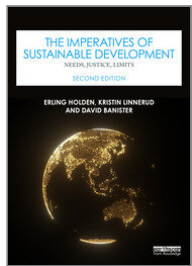
Routledge
November 2025 : 282pp
Hb: 978-1-032-74405-6 : £145
eBook: 978-1-003-46907-0

* For full contents and more information, visit: www.routledge.com/9781032744056

2ND EDITION

The Imperatives of Sustainable Development

Needs, Justice, Limits



Edited by **Erling Holden**, **Kristin Linnerud** Norwegian School of Economics, Bergen, Norway, **David Banister**

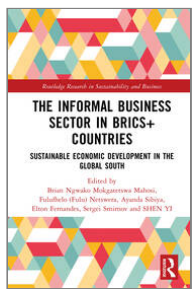
Taking the ethical foundations from the seminal UN Report (1987) Our Common Future, this revised and updated second edition builds a model that emphasizes three equally important moral imperatives – satisfying human needs, ensuring social justice, and respecting environmental limits. Building on the extensive literature exploring needs, equity, justice, environmental science, ecology, and economics, this book will be essential reading for everyone interested in the future of sustainable development and in the complex environmental and social issues involved.

Routledge
February 2026 : 330pp
Pb: 978-1-032-99336-2 : £39.99
Hb: 978-1-032-99337-9 : £145

* For full contents and more information, visit: www.routledge.com/9781032993362

The Informal Business Sector in BRICS+ Countries

Sustainable Economic Development in the Global South



Edited by **Brian Ngwako Mokgatetswa Mahosi**,
Fulufhelo (Fulu) Netswera, **Ayanda Sibiya**, **Elton Fernandes**, **Sergei Smirnov**, **SHEN YI**

Series: *Routledge Research in Sustainability and Business*

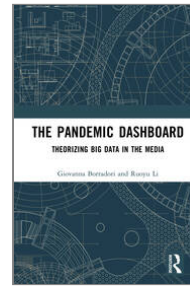
This book presents a critical analysis of the informal business sector and explores how it can be effectively leveraged to contribute to inclusive and sustainable economic development within BRICS+ nations and the Global South. Through the application of key theoretical frameworks—including the Lewis Model, segmented labour market theory, and new institutional economics—the book evaluates the sector's role in shaping economic development indicators across BRICS+ nations and the Global South.

Routledge
February 2026 : 256pp
Hb: 978-1-032-94997-0 : £145

* For full contents and more information, visit: www.routledge.com/9781032949970

The Pandemic Dashboard

Theorizing Big Data in the Media



Edited by **Giovanna Borradori**, **Ruoyu Li**

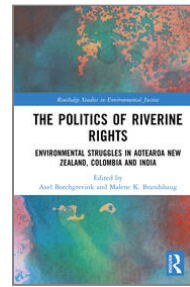
Examining mainstream media on COVID-19 across China, Italy, the United Kingdom, and the United States, and by drawing from various critical theoretical traditions, this book seeks answers to key questions about the experience of living and dying under COVID-19. This book will benefit students, teachers, and scholars interested in media and critical studies of COVID-19, as well as anyone interested in the political theorization of the changing forms of power during and after the pandemic.

Routledge
March 2026 : 300pp
Hb: 978-1-041-07524-0 : £145

* For full contents and more information, visit: www.routledge.com/9781041075240

The Politics of Riverine Rights

Environmental Struggles in Aotearoa New Zealand, Colombia and India



Edited by **Axel Borchgrevink**, **Malene K. Brandshaug**

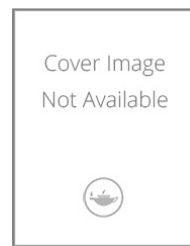
Series: *Routledge Studies in Environmental Justice*

This edited collection, based on comparative, multi-sited ethnographic research, explores the concept of riverine rights in relation to rivers in New Zealand, Colombia and India that have been declared legal persons or subjects of rights: the Whanganui, the Atrato, the Ganges and the Yamuna. This interdisciplinary book will be essential reading for academics and researchers across social sciences and law with an interest in how social struggles, environmental justice and innovative legislation intersect for the better governance of rivers and their people.

Routledge
January 2026 : 248pp
Hb: 978-1-032-94678-8 : £145

* For full contents and more information, visit: www.routledge.com/9781032946788

The Routledge Handbook of Eco-Phenomenology



Edited by **Michael T. Heneise**, **Cassandra Falke**, **Espen Dahl**, **Alice Sundman**, **Edvard Lia**

Series: *Routledge Environment and Sustainability Handbooks*

The Routledge Handbook of Eco-Phenomenology is a comprehensive explorative volume into how we, as humans, interact with and perceive our natural world. Spanning seven thematic parts, over thirty chapters offer fresh perspectives on our relationship with the Earth and its inhabitants. Through this multidisciplinary approach, the book offers a broad yet nuanced exploration of how phenomenology can profoundly reshape our relationship with the more-than-human world. This is a must-read for scholars, researchers and students interested in philosophy, environmental studies, anthropology, and cognitive science.

Routledge
December 2025 : 480pp
Hb: 978-1-032-88180-5 : £230

* For full contents and more information, visit: www.routledge.com/9781032881805

UK Food Policy History

Economic, Social and Political Influences



Martin Caraher , Sinéad Furey

Series: Routledge Studies in Food, Society and the Environment

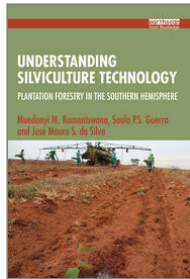
This book provides an overview of the history of food policy in the United Kingdom, tracing economic, social and political influences from the 1840s to present day. It identifies the key influences across the different eras, both direct and indirect and formal and informal, as well as the key actors, and showcases how understanding the socio-political contexts supports our comprehension of food policy development and its adaptation to modern times. It provides an important introduction to the history of UK food and agricultural policy for students, scholars, policymakers and professionals, as well as those interested in food systems, public health and social policy more widely.

Routledge
December 2025 : 320pp
Pb: 978-1-032-98680-7 : **£39.99**
Hb: 978-1-032-98682-1 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032986807

Understanding Silviculture Technology

Plantation Forestry in the Southern Hemisphere



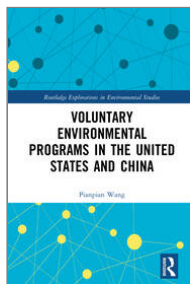
Muedanyi M. Ramantswana , Saulo P.S. Guerra , José Mauro S. da Silva

This book describes the various technologies used in silviculture with a special focus on newer technologies which have been adopted over the past two decades in plantation forestry practiced in the Southern Hemisphere. In the context of this book, the focus is on industrial plantation forests grown in a range of Southern Hemisphere countries, mainly South Africa and Brazil with a specific focus on the technologies used in establishing and tending eucalypts, pine and wattle species. The book will be of great use to students of silviculture and forestry, as well as professionals working in the forestry industry.

Routledge
March 2026 : 248pp
Pb: 978-1-032-48654-3 : **£39.99**
Hb: 978-1-032-48880-6 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032486543

Voluntary Environmental Programs in the United States and China



Pianpian Wang

Series: Routledge Explorations in Environmental Studies

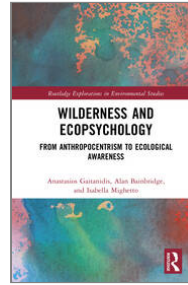
This book explores the effectiveness of voluntary environmental programs (VEPs): initiatives designed and managed by social actors to motivate participants to achieve environmental goals beyond legal requirements. By examining the interactions between program organizers, participants, and supervisors under existing legal requirements, the research offers insights into effective environmental governance strategies and provides a broader perspective on how different societal settings influence the success of these programs and inform future legislations.

Routledge
February 2026 : 256pp
Hb: 978-1-041-19543-6 : **£145**

* For full contents and more information, visit: www.routledge.com/9781041195436

Wilderness and Ecopsychology

From Anthropocentrism to Ecological Awareness



Anastasios Gaitanidis , Alan Bainbridge , Isabella Mighetto

Series: Routledge Explorations in Environmental Studies

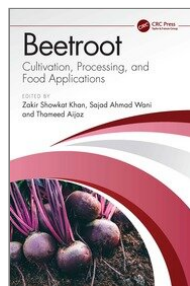
Offering a radical interdisciplinary exploration of human-wilderness relationships during our current climate crisis, and drawing on psychoanalytic insight, political critique, and ecological wisdom, this volume diagnoses the profound alienation endemic to late capitalist modernity while delineating pathways toward regenerative forms of being. The book is a valuable resource for scholars, students, and practitioners in environmental humanities, critical psychology, ecotherapy, and posthumanist therapeutic approaches seeking to understand psychological distress as inherently ecological and political.

Routledge
January 2026 : 182pp
Hb: 978-1-032-70283-4 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032702834

Beetroot

Cultivation, Processing, and Food Applications



Edited by **Zakir Showkat Khan** Islamic University of Science and Technology, Awantipora, India, **Sajad Ahmad Wani** Islamic University of Science and Technology, Kashmir, **Thameed Aijaz**

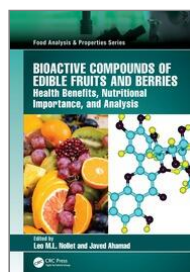
Beetroot: Cultivation, Processing, and Food Applications presents a roadmap for the entire lifecycle of beetroot, covering beetroot's nutritional value, health benefits, phytochemicals, as well as postharvest management. Featuring recent technological advancements, this book presents processing techniques and valorization strategies, expanding on the potential applications of beetroot in pharmacology and the packaging industry. This book will serve as a valuable resource for researchers, scientists, food technologists, health professionals, and industry stakeholders.

CRC Press
February 2026 : 240pp
Hb: 978-1-032-85718-3 : £105

* For full contents and more information, visit: www.routledge.com/9781032857183

Bioactive Compounds of Edible Fruits and Berries

Health Benefits, Nutritional Importance, and Analysis



Edited by **Leo M.L. Nollet** University College Ghent, **Javed Ahamad**

Series: *Food Analysis & Properties*

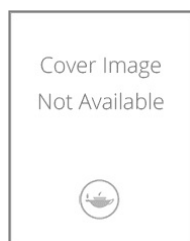
Plants have often been a primary source of therapeutic compounds. Bioactive Compounds of Edible Fruits and Berries: Health Benefits, Nutritional Importance, and Analysis delves deep into the remarkable world of edible fruits and berries, revealing their untapped potential in human health and pharmaceutical development.

CRC Press
November 2025 : 384pp
Hb: 978-1-032-79790-8 : £190
eBook: 978-1-003-49825-4

* For full contents and more information, visit: www.routledge.com/9781032797908

Brain Foods

Nutrition to Optimize Cognitive Performance



Edited by **M. Selvamuthukumar**

The brain, as the central organ of the body, plays a vital role in controlling bodily functions, enabling thought, and fostering emotions. To perform efficiently, it requires proper nourishment in the form of essential nutrients. Brain-boosting foods, rich in active ingredients such as zinc, monounsaturated fatty acids, choline, and DHA, have been shown to significantly enhance cognitive performance and memory power. Brain Foods: Nutrition to Optimize Cognitive Performance explores the science of extracting bioactive constituents from natural sources to develop innovative cognitive performance-enhancing foods.

CRC Press
March 2026 : 296pp
Hb: 978-1-032-68715-5 : £190

* For full contents and more information, visit: www.routledge.com/9781032687155

Canolol and Derivatives

Chemistry, Extraction, Properties and Application in Food



Edited by **Michael Eskin**, **Bertrand Matthaus** BfEL Institute for Lipid Research, Munster, Germany

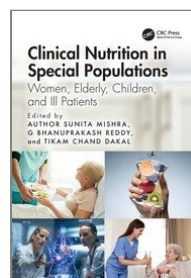
As the demand for natural and sustainable solutions grows, Canolol and Derivatives: Chemistry, Extraction, Properties and Application in Food explores the science and potential of canolol, a powerful antioxidant derived from oilseed products like canola and mustard. With antioxidant activity surpassing compounds like vitamin C and quercetin, canolol offers exceptional promise for food preservation and health applications, including anti-inflammatory, anticancer, and antimutagenic benefits.

CRC Press
April 2026 : 160pp
Hb: 978-1-032-25034-2 : £81.99

* For full contents and more information, visit: www.routledge.com/9781032250342

Clinical Nutrition in Special Populations

Women, Elderly, Children, and Ill Patients



Edited by **Sunita Mishra**, **G Bhanuprakash Reddy**, **Tikam Chand Dakal**

Clinical Nutrition in Special Populations: Women, Elderly, Children, and Ill Patients is a comprehensive book that addresses the unique nutritional requirements across critical life stages and health conditions. Drawing on scientific evidence, the book provides tailored dietary recommendations for children, women at different physiological stages, individuals managing specific diseases, and the elderly. By focusing on both prevention and management, it equips readers with practical tools to promote optimal health and well-being.

CRC Press
April 2026 : 368pp
Pb: 978-1-032-91580-7 : £69.99

Hb: 978-1-032-88120-1 : £190

* For full contents and more information, visit: www.routledge.com/9781032915807

Design Thinking for Food and Beverage Innovation



Alex Nielsen Arla Foods Innovation Centre

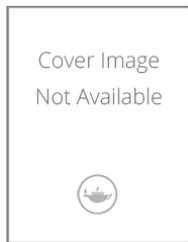
Combining up-to-date theory and practice, this book provides a 360-degree overview of how to incorporate a holistic, pragmatic 'Design Thinking' inspired methodology into food and beverage product design. From the initial conceptual stages through to launch, it covers the key elements of both the design thinking methodology and F&B product design, drawing on the author's personal experiences and diving deep into relevant industry case studies. Ideal for industry professionals seeking to elevate their approach to product design, this book is a valuable resource for those passionate about food and beverages eager to start their first or next innovation project.

CRC Press
March 2026 : 256pp
Pb: 978-1-041-02462-0 : £74.99
Hb: 978-1-041-02464-4 : £180

* For full contents and more information, visit: www.routledge.com/9781041024620

Edible Insects

Handling Methods, Nutritional Value, and Commercial Uses



Edited by **Avneet Kaur , Sukhvinder Singh Purewal** Chandigarh University, **Devinder Singh** Chandigarh University

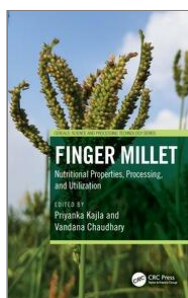
Exploring recent advances in the use of insects as a viable, sustainable, and nutritious food source, this book emphasizes effective handling techniques, the nutritional profile of different insects, and their potential commercial applications in the food sector. It covers insect farming, harvesting, and processing technologies, providing guidance on how to ensure safe food production, enhance taste, and maintain nutritional quality. This book is suitable for industry professionals seeking to survey the market opportunities for edible insects as food, animal feed, and in health supplements.

CRC Press
March 2026 : 320pp
Hb: 978-1-032-99654-7 : £190

* For full contents and more information, visit: www.routledge.com/9781032996547

Finger Millet

Nutritional Properties, Processing, and Utilization



Edited by **Priyanka Kajla , Vandana Chaudhary**

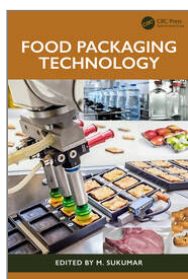
Series: Cereals

Finger millets are gaining popular recognition as a superior source of phytochemicals, micronutrients such as calcium, phosphorous and iron, and dietary fibre, when compared with cereals such as wheat and rice. This book provides comprehensive information about the grain, including details of its different components such as starch, protein, bioactive metabolites, and their use in food products. It will be a comprehensive reference tool for researchers, students, nutritionists, food technologists, policy makers, and agricultural practitioners.

CRC Press
March 2026 : 312pp
Hb: 978-1-032-87874-4 : £105

* For full contents and more information, visit: www.routledge.com/9781032878744

Food Packaging Technology



Edited by **M. Sukumar** Centre for Food Technology, Anna University, India.

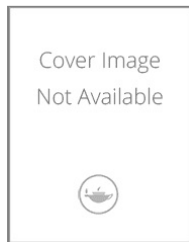
Food Packaging Technology provides a comprehensive foundation in food packaging concepts, materials, and innovations critical for preserving food quality and ensuring consumer safety. Designed to bridge academic knowledge and industry application, the book explores conventional and modern packaging methods, the science behind modified atmosphere and active packaging, and the rising role of biopolymers in sustainable packaging. It serves as a core resource for students, researchers, and professionals involved in food science, food technology, and packaging industries.

CRC Press
December 2025 : 224pp
Hb: 978-1-041-13098-7 : £105

* For full contents and more information, visit: www.routledge.com/9781041130987

Food Proteins

Structure, Sources, and Applications



Edited by **Mudasir Ahmad Malik** Ghani Khan Choudhury Institute of Engineering and Technology, India, **Devinder Kaur** University of Allahabad, India

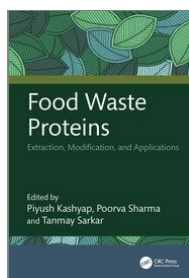
With an awareness of the growing demand for inexpensive, nutritional, and functional proteins, this book provides an overview of various protein sources and their protein composition. It covers the behaviour of proteins during processing and storage, as well as the potential applications of food proteins in different industries. Providing a comprehensive guide to the chemistry behind the proteins in food, this book is well-suited for scientists and industry professionals seeking to develop their understanding of protein.

CRC Press
April 2026 : 320pp
Hb: 978-1-041-01243-6 : £170

* For full contents and more information, visit: www.routledge.com/9781041012436

Food Waste Proteins

Extraction, Modification, and Applications



Edited by **Piyush Kashyap , Poorva Sharma , Tanmay Sarkar**

Offering a comprehensive and cutting-edge overview, this book explores how discarded food can be transformed into valuable protein sources and bioactive compounds. After introducing the concept of food waste valorization, it considers the significance of transforming waste into wealth within the framework of a sustainable circular economy, setting the stage for detailed discussions of various aspects of protein extraction and application. This is a forward-thinking resource that bridges the gap between research and industry, ideal for researchers, entrepreneurs and scientists working at the intersection between the two.

CRC Press
March 2026 : 320pp
Hb: 978-1-032-93506-5 : £170

* For full contents and more information, visit: www.routledge.com/9781032935065

Food Waste Valorization and the Circular Economy



Edited by **Sajad Mir , Gitanjali Behera , Leo M.L. Nollet** University College Ghent

Offering comprehensive insights and raising awareness of the problem of food waste, this book provides an in-depth survey of the process of converting food waste into useful products. Compiling various studies of food waste valorization projects and innovative technologies, it summarizes the state-of-the-art knowledge in key research areas. It acknowledges the ever-increasing importance of food waste management in the context of growing environmental concerns. The blend of technical insights and case studies makes this book a source of inspiring ideas, ideal for entrepreneurs, researchers, and policymakers looking to develop and implement innovative solutions in their own contexts.

CRC Press
April 2026 : 480pp
Hb: 978-1-032-96611-3 : £195

* For full contents and more information, visit: www.routledge.com/9781032966113

2ND EDITION

Genetically Modified Foods

Basics, Applications, and Controversy



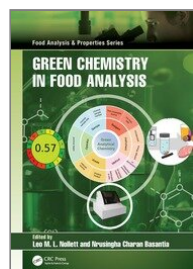
Salah E. O. Mahgoub Kaplan University, Fort Lauderdale, Florida, USA

Fully updated and expanded, *Genetically Modified Foods: Basics, Applications, and Controversy* is your ultimate guide to the evolving world of genetically modified (GM) foods. Packed with the trusted insights that made the original a reader favourite, it now includes fresh content, updated research, and enhanced visuals—plus an exciting new chapter: *Future Trends and Prospects of GM Foods*, offering a forward-looking perspective on what's next for our food systems.

CRC Press
February 2026 : 370pp
Hb: 978-1-032-89534-5 : £190

* For full contents and more information, visit: www.routledge.com/9781032895345

Green Chemistry in Food Analysis



Edited by **Leo M.L. Nollet** University College Ghent, N.C. **Basantia** Cavinkare Research Centre, Chennai, India

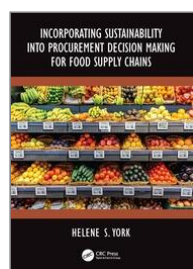
Series: Food Analysis & Properties

In today's world, ensuring the safety and quality of food is more critical than ever. At the same time, the need to reduce the environmental impact of laboratory practices is becoming a top priority across the scientific community. *Green Analytical Chemistry in Food Analysis* bridges these two essential goals, presenting a comprehensive and forward-thinking guide to apply green chemistry principles in the analytical evaluation of food.

CRC Press
November 2025 : 396pp
Hb: 978-1-032-79134-0 : £190
eBook: 978-1-003-49474-4

* For full contents and more information, visit: www.routledge.com/9781032791340

Incorporating Sustainability into Procurement Decision Making for Food Supply Chains



Helene S. York

Bridging the divide between traditional supply chain theory and the need to incorporate sustainability in supply chain decision-making, this book offers a novel approach to understand modern food systems and how to use procurement to improve them. Business students will gain a critical understanding of sustainability principles and their application in the food sector, while sustainability students will learn the strategic thinking of supply chain management. This guidebook empowers both groups to develop a shared understanding and vocabulary, fostering the interdisciplinary collaboration essential for achieving organizational sustainability and securing a more sustainable future.

CRC Press
December 2025 : 274pp
Hb: 978-1-032-84469-5 : £170
eBook: 978-1-003-51872-3

* For full contents and more information, visit: www.routledge.com/9781032844695

Innovations in Food Science

Opportunities, Challenges, and Future Directions



Edited by **Sajad Ahmad Wani** Islamic University of Science and Technology, Kashmir, **Fohad Mabood Husain** King Saud University

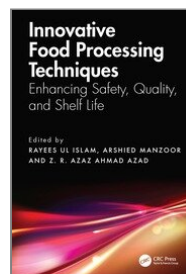
This book provides an overview of the latest advancements, obstacles, and potential trajectories within the field of food science. It explores the emerging innovations in food production, processing, and consumption, while addressing the challenges faced by the industry, such as food safety, sustainability, and nutrition. By examining these critical areas, it also explores potential opportunities for growth and development in response to evolving societal needs and technological advancements. Presenting many forward-thinking insights, this book is suitable for professionals interested in industry developments, along with students and teachers of food science.

CRC Press
April 2026 : 272pp
Hb: 978-1-032-98432-2 : £145

* For full contents and more information, visit: www.routledge.com/9781032984322

Innovative Food Processing Techniques

Enhancing Safety, Quality, and Shelf Life



Edited by **Rayees Ul Islam**, **Arshied Manzoor**, **Z. R. Azaz Ahmad Azad**

Examining recent developments in the use of thermal and non-thermal food processing methods, this book offers a thorough technical analysis of different processing methods and their possible advantages in improving food safety, quality, and shelf life. It also covers how contemporary issues such as sustainability, clean labelling, and food waste mitigation affect these processes. This book will be a valuable tool for industry professionals, providing the necessary resources to make informed decisions on how to effectively implement the latest thermal and non-thermal food processing techniques into their operations.

CRC Press
March 2026 : 380pp
Hb: 978-1-032-75596-0 : £170

* For full contents and more information, visit: www.routledge.com/9781032755960

Insects for Human Consumption

A Safe and Sustainable Food Source



Edited by **José M. Lorenzo**

Series: Contemporary Food Engineering

Considering their growing popularity as a food source, this book examines the main nutrients and bioactive compounds present in a range of different edible insects. Focusing on the fundamentals of nutrient obtention and rearing management, it dives into the latest developments in the science behind an industry niche that continues to grow as the international community recognises the uses of insects as a natural, sustainable source of important proteins and fats. This book is ideal for researchers, students, and professionals keen to understand the potential benefits of edible insects and how to navigate potential industry challenges.

CRC Press
April 2026 : 304pp
Pb: 978-1-032-77861-7 : £84.99
Hb: 978-1-032-78495-3 : £170

* For full contents and more information, visit: www.routledge.com/9781032778617

Microbiology of African Fermented Foods



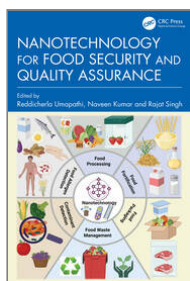
Gabriel Akanni , Abdullahi Jimoh , Oluwafemi Adebola

This book provides a broad yet succinct insight into the role of microorganisms in African food products and systems, with chapters dedicated to wider classifications of these fermented foods. It offers new perspectives and covers recent developments regarding the microbiological complexity of these food products. This book would be a valuable resource for students, food technologists, microbiologists, scholars, and policymakers highlighting the contribution to the discourse on indigenous fermentation science and African food innovation.

CRC Press
March 2026 : 304pp
Hb: 978-1-041-11108-5 : £105

* For full contents and more information, visit: www.routledge.com/9781041111085

Nanotechnology for Food Security and Quality Assurance



Edited by **Reddicherla Umamathi** Nano Bio High-Tech Materials Research Center, South Korea, **Naveen Kumar** Chitkara University, Punjab, India, **Rajat Singh** College of Horticulture and Forestry, Himachal Pradesh

Nanotechnology has emerged as a transformative force in the food industry, unlocking a new frontier of innovation that redefines how we produce, process, package, and preserve food. With the help of nanotechnology, scientists and engineers are developing groundbreaking solutions that enhance food quality, bolster safety standards, and promote environmental sustainability. This book provides a comprehensive exploration of the multifaceted applications of nanotechnology. Each chapter explores specific areas where nanotechnology is making significant strides, revolutionizing traditional practices, and addressing contemporary challenges.

CRC Press
March 2026 : 262pp
Hb: 978-1-041-04937-1 : £105

* For full contents and more information, visit: www.routledge.com/9781041049371

Non-Thermal Approaches in Extraction of Bioactive Compounds from Diverse Food Sources



Edited by **Mahendran Radhakrishnan , B. Kamalapreetha**

Series: Contemporary Food Engineering

Combining technical insight with critical analysis, this book introduces non-thermal methods of extracting the diverse array of bioactive compounds found in our everyday foods, as well as the potential benefits for our health they present. After explaining the advantages and limitations of existing thermal techniques, it explores various, cutting-edge alternative methods of phytochemical extraction, such as Pressurized Liquid Extraction (PLE) and Enzyme-Assisted Extraction (EAE). This book serves as a vital guide for researchers, professionals, and students interested in unlocking the potential of bioactive compounds and shaping the future of their extraction from food sources.

CRC Press
April 2026 : 360pp
Hb: 978-1-032-77753-5 : £170

* For full contents and more information, visit: www.routledge.com/9781032777535

Plant Biotechnology and Food Security

Adoption, Farming Systems, and Sustainable Development



Edited by **Jyoti Prakash Sahoo , Kailash Chandra Samal**

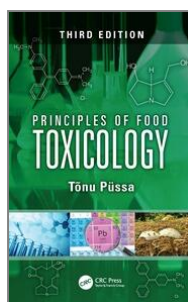
The global agricultural sector faces mounting pressures from climate change, population growth, and the urgent need for sustainable food production. As the world moves toward a population of nearly 10 billion by 2050, innovative solutions are essential to ensure food security. Plant Biotechnology and Food Security: Adoption, Farming Systems, and Sustainable Development, provides a comprehensive examination of how biotechnological advancements can transform agriculture, enhance productivity, and promote environmental sustainability. This book bridges the gap between traditional farming practices and cutting-edge technologies.

CRC Press
November 2025 : 276pp
Hb: 978-1-032-98262-5 : £110
eBook: 978-1-003-59779-7

* For full contents and more information, visit: www.routledge.com/9781032982625

3RD EDITION

Principles of Food Toxicology



Tõnu Püssa Estonian University of Life Sciences, Tartu

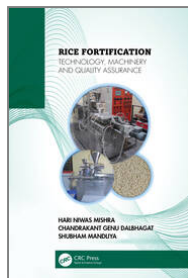
Following in the tradition of popular previous editions, this book integrates the general principles of toxicology with a systematic characterization of the most important food toxicants. This new edition employs moderately rigorous chemistry and biochemistry in covering a range of current issues, including the link between growing environmental pollution and food safety, as well as the potential dangers of plant-based meat alternatives/substitutes. Ideal for students and teachers, as well as a reliable resource for toxicologists, this book provides the tools to adeptly deal with a range of food and animal toxicants and ensure food safety.

CRC Press
March 2026 : 344pp
Hb: 978-1-032-93486-0 : £91.99

* For full contents and more information, visit: www.routledge.com/9781032934860

Rice Fortification

Technology, Machinery and Quality Assurance



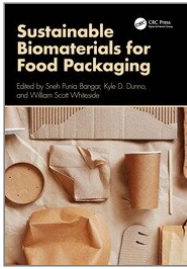
Edited by **Hari Niwas Mishra** Indian Institute of Technology Kharagpur, West Bengal, **Chandrakant Genu Dalbhagat** Department of Food Process Engineering, NIT Rourkela, Odisha, **Shubham Mandliya** Agricultural and Food Engineering Dept., IIT Kharagpur, West Bengal

Rice fortification is a proven technique to address the prevalence of micronutrient malnutrition, i.e. 'Hidden Hunger'. This book Rice Fortification: Technology, Machinery and Quality Assurance aims to provide comprehensive technical literature on the production of fortified rice (FR) with emphasis on the raw ingredients, technology, equipment, micronutrient analysis, quality assurance and control (QA/QC), and government programs and policies for successful implementation.

CRC Press
February 2026 : 368pp
Hb: 978-1-041-11761-2 : £105

* For full contents and more information, visit: www.routledge.com/9781041117612

Sustainable Biomaterials for Food Packaging



Edited by **Sneh Punia Bangar , Kyle D. Dunno , Scott Whiteside**

Considering the great market demand for environmentally friendly material-based packaging systems, researchers are developing a suitable solution that considers the sustainability and economic feasibility of the process. This book evaluates the role of emerging biomaterials in enhancing the efficacy of food packaging systems and discusses in detail the various engineering aspects associated with packaging. It is suited for academicians, scientists, students, and food industry professionals; it will also satisfy the needs of researchers, scholars, and students at both the postgraduate and undergraduate level.

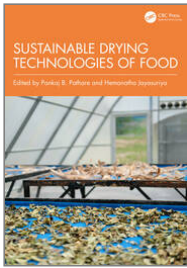
CRC Press

January 2026 : 380pp

Hb: 978-1-032-91714-6 : **£195**

* For **full contents** and more information, visit: www.routledge.com/9781032917146

Sustainable drying technologies of food



Edited by **Pankaj B. Pathare , Hemantha Jayasuriya**

Recent approaches in sustainable drying technologies of foods is an updated reference about the fundamentals, applications, and modeling of sustainable energy-based drying systems in the food industry. It includes the economic assessment, quality control and safety parameters of the drying techniques. Sustainable drying uses little or no fossil fuel input and low-cost technologies. This book reviews the alternative sources of energy for drying fresh produce. It includes relevant case studies from some developing countries. The book is meant for researchers and industry experts in food processing, food engineering and agriculture.

CRC Press

December 2025 : 356pp

Hb: 978-1-032-37834-3 : **£120**

* For **full contents** and more information, visit: www.routledge.com/9781032378343

Unconventional Starch Sources for Sustainable Bioplastics



Edited by **Pinki Saini , Mazia Ahmed**

While the development of biopolymers from conventional sources is not novel, this book ventures beyond the traditional boundaries of starch-rich materials, navigating through the alternatives of aquatic plants, fungi, sea weeds, underutilized seeds, and industrial byproducts. It provides insights into the processing techniques, challenges, and the feasibility of adopting these unconventional sources on a larger scale. This book serves as a vital guide for researchers and students, as well as professionals in biopolymers, materials science, environmental science, food science, and related disciplines, contributing meaningfully to the global pursuit of sustainable solutions.

CRC Press

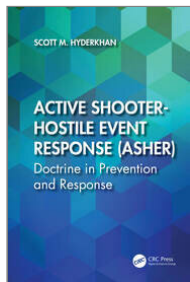
February 2026 : 336pp

Hb: 978-1-032-87872-0 : **£105**

* For **full contents** and more information, visit: www.routledge.com/9781032878720

Active Shooter-Hostile Event Response (ASHER)

Doctrine in Prevention and Response



Scott M. Hyderkhan Kinetic Tactical Training Solutions LLC, USA

In an era where active shooter incidents and complex coordinated terror attacks continue to challenge our communities, Active Shooter and Hostile Event Response (ASHER) offers a definitive framework for a unified response. This book will be of interest to business leaders, security personnel and directors, risk managers, community leaders, police, SWAT, and other emergency and first responder agencies.

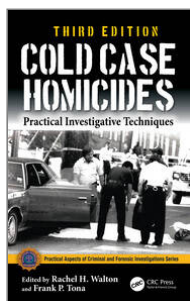
CRC Press
March 2026 : 608pp
Hb: 978-1-032-82321-8 : £46.99

* For full contents and more information, visit: www.routledge.com/9781032823218

3RD EDITION

Cold Case Homicides

Practical Investigative Techniques



Edited by **Rachel H. Walton** Utah State University Eastern, Price, USA, **Frank P. Tona**

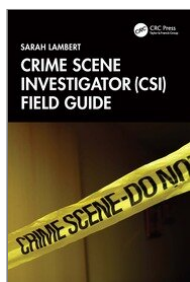
Series: *Practical Aspects of Criminal and Forensic Investigations*

The Third Edition of Cold Case Homicides remains a vital resource for students and professionals alike, offering a comprehensive guide to the investigation and resolution of unsolved cases. Updated with the latest advancements, this edition emphasizes the evolving landscape of cold case work, including cutting-edge forensic tools, the expanding role of digital and mobile evidence, and the transformative impact of DNA technologies, especially forensic genealogy and familial matching. Richly illustrated and grounded in practical application, the text underscores how emerging technologies and a reassessment of earlier missteps can breathe new life into dormant investigations.

CRC Press
February 2026 : 640pp
Hb: 978-1-032-54195-2 : £64.99

* For full contents and more information, visit: www.routledge.com/9781032541952

Crime Scene Investigator (CSI) Field Guide



Sarah Lambert

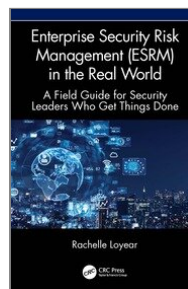
Crime Scene Investigator (CSI) Field Guide is a convenient and handy reference guide ideally suited for use in the field by Crime Scene Investigators (CSI), both sworn and civilian. In addition to the field, it can also be used in the classroom as a comprehensive refresher as part of formal training. A reliable reference to confirm steps, reference a chemical field test, or verify the necessary equipment required, the Crime Scene Investigator (CSI) Field Guide serves as an invaluable on-scene tool to any new or seasoned CSI professional.

CRC Press
November 2025 : 482pp
Pb: 978-1-032-82289-1 : £38.99
Hb: 978-1-032-82293-8 : £145
eBook: 978-1-003-50389-7

* For full contents and more information, visit: www.routledge.com/9781032822891

Enterprise Security Risk Management (ESRM) in the Real World

A Field Guide for Security Leaders Who Get Things Done



Rachelle Loyear

This book bridges the critical gap between Enterprise Security Risk Management (ESRM) theory and practical implementation. This book serves as an essential resource for security leaders ready to translate ESRM principles into measurable outcomes that align the security strategy with broader business objectives.

CRC Press
April 2026 : 264pp
Hb: 978-1-041-19361-6 : £42.99

* For full contents and more information, visit: www.routledge.com/9781041193616

Forensic Investigative Genetic Genealogy (FIGG) and DNA Evidence

A Guide for Practitioners



Edited by **John R. Vacca** TechWrite, Pomeroy, Ohio, USA

Forensic Investigative Genetic Genealogy (FIGG) and DNA Evidence is a vital guide for professionals and practitioners, providing the most complete and current view of the use of DNA from crime scenes and its comparison with DNA test results available on online databases. With contributing chapters from leading experts in the field this book offers invaluable insights into the evolving landscape of forensic genetics and genealogy usage in criminal and cold case investigations. It is an essential resource for professionals seeking to understand the current capabilities and future possibilities of these groundbreaking investigative tools."

CRC Press
May 2026 : 272pp
Hb: 978-1-032-71497-4 : £56.99

* For full contents and more information, visit: www.routledge.com/9781032714974

Legal Issues in Medicine

An International Approach



Anil Aggrawal

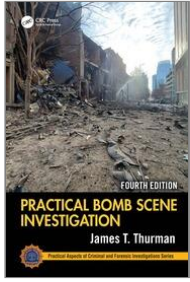
Written by the editor of the Journal of Forensic Medicine and Toxicology, this practical book explains how to avoid such pitfalls of the medical professions as failure to diagnose, confidentiality, disclosure of information, lack of informed consent, and poor documentation. It aids doctors in all disciplines to become proactive in managed care, expert testimony, and medical malpractice. Citing case law both in the US and abroad gives the book global appeal.

CRC Press
May 2026 : 600pp
Hb: 978-1-482-20717-0 : £108

* For full contents and more information, visit: www.routledge.com/9781482207170

4TH EDITION

Practical Bomb Scene Investigation



James T. Thurman

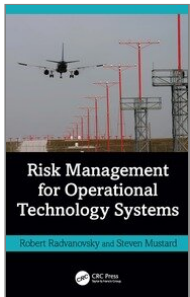
Series: Practical Aspects of Criminal and Forensic Investigations

Practical Bomb Scene Investigation, Fourth Edition details the evidence collection and investigative processes undertaken—at the scene of an explosion—by improvised explosive device (IED) specialists, including bomb scene technicians and post-blast investigators. With input provided over the years from working post blast investigators from the federal, state, and municipal sectors, the Fourth Edition of Practical Bomb Scene Investigation is an invaluable resource for those professionals involved in bombing investigations.

CRC Press
November 2025 : 586pp
Hb: 978-1-032-86048-0 : **£66.99**
eBook: 978-1-003-52106-8

* For full contents and more information, visit: www.routledge.com/9781032860480

Risk Management for Operational Technology (OT) Systems



Robert Radvanovsky , Steven Mustard

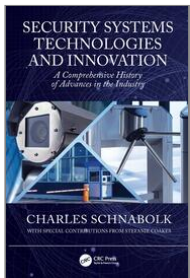
Risk Management for Operational Technology (OT) Systems highlights the importance of applying risk assessments specifically tailored to OT environments, rather than relying solely on traditional IT-focused approaches. The authors propose a modern approach to risk management in OT, one that recognizes these new realities. This approach emphasizes proactive measures to operationally protect legacy and modern OT systems alike from tampering, intrusion, and cyberattack—ensuring that critical infrastructure can remain resilient, safe, and reliable in a connected world.

CRC Press
April 2026 : 320pp
Hb: 978-1-041-00682-4 : **£59.99**

* For full contents and more information, visit: www.routledge.com/9781041006824

Security Systems Technologies and Innovation

A Comprehensive History of Advances in the Industry



Charles Schnabolk , Stefanie Coakes

Security Systems Technologies and Innovation: A Comprehensive History of Advances looks at the last 50 years and the expansion of the security industry, security technologies, and the field as a whole. The book proves fascinating reading, providing insight to those currently in the field and offering a glimpse of future security threats, and those current and emerging technologies with shape the next 50 years of the industry.

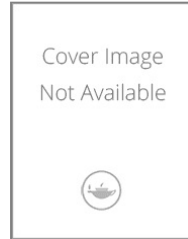
CRC Press
March 2026 : 472pp
Hb: 978-0-367-54898-8 : **£69.99**

* For full contents and more information, visit: www.routledge.com/9780367548988

2ND EDITION

Skeletal Trauma

Identification of Injuries Resulting from Human Rights Abuse and Armed Conflict, Second Edition



Erin H. Kimmerle University of South Florida, Tampa, USA, **Jose Pablo Baraybar**

The first edition of this book offered 600 photographs and case studies from around the world including Asia, Africa, and South America. This new edition provides more than 50 percent new content including the latest research, applied court cases, and case studies from Colombia, Guatemala, Mexico, Nigeria, Iraq, and Peru. The book includes expanded sections on bone histology and 3D imaging as new tools and a new chapter on data protocols and how to document, analyze, and present them. New diagrams illustrate mechanisms of injury.

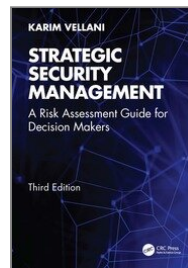
CRC Press
March 2026 : 680pp
Hb: 978-1-466-57179-2 : **£114**

* For full contents and more information, visit: www.routledge.com/9781466571792

3RD EDITION

Strategic Security Management

A Risk Assessment Guide for Decision Makers



Karim Vellani

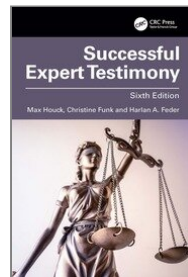
This book is a vital roadmap for modern security professionals, delivering a comprehensive, data-driven approach to risk assessment and protective strategy. This authoritative guide not only meets the critical demand for actionable best practices in security but also empowers readers with the analytical tools necessary for informed, scenario-specific decision-making. Authored by leading experts in the field, this book is an essential reference for professionals charged with protecting organizational assets. It also serves as a powerful stepping stone for security and criminal justice students aiming to rise within the ranks of corporate security leadership.

CRC Press
December 2025 : 330pp
Hb: 978-1-032-91506-7 : **£59.99**
eBook: 978-1-003-56363-1

* For full contents and more information, visit: www.routledge.com/9781032915067

6TH EDITION

Successful Expert Testimony



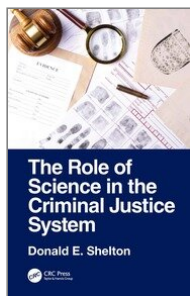
Max Houck , Christine Funk , Harlan A. Feder
Glenwood Springs, Colorado, USA

This book outlines the role of expert testimony in a trial, including explanations of methods, testing, and science, the legal process, and an overview of the roles of each player. In this, it details the expert witness's role in promoting effective, impactful courtroom testimony. It is an essential reference for forensic science students entering the work force—in labs and investigative positions—in addition to serving as a crucial resource for more experienced civil, private, and testifying experts in all disciplines.

CRC Press
April 2026 : 176pp
Hb: 978-1-041-00575-9 : **£59.99**

* For full contents and more information, visit: www.routledge.com/9781041005759

The Role of Science in the Criminal Justice System



Donald E. Shelton

This book offers an overview of forensic evidence, evidence collection, and analysis practices, and the uses of such evidence in casework. By doing so, it provides insight into the processes and procedures, who is considered an expert in a particular discipline, and how these factors impact the usage, reliability, and admissibility of evidence in the courts.

CRC Press

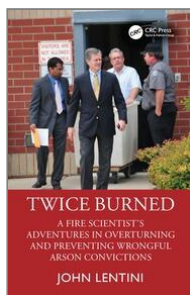
March 2026 : 204pp

Hb: 978-1-041-13631-6 : £145

* For full contents and more information, visit: www.routledge.com/9781041136316

Twice Burned

A Fire Scientist's Adventures in Overturning and Preventing Wrongful Arson Convictions



John J. Lentini Scientific Fire Analysis, USA

This book tells the story of renowned fire investigator John J. Lentini's 50 years as a forensic scientist. In recounting his most significant cases, Lentini highlights the critical challenges faced by forensic science, including ignorance, cognitive biases, and errors that have led to wrongful convictions. The book is a testament to the power of collaboration between scientists and lawyers in correcting injustices that occur at the intersection between science and the law. Written in an accessible style, this book is perfect for fire science professionals, litigators, and discerning true crime readers.

CRC Press

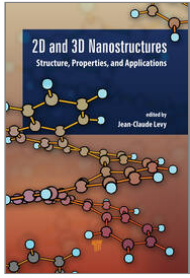
February 2026 : 320pp

Hb: 978-1-032-99386-7 : £34.99

* For full contents and more information, visit: www.routledge.com/9781032993867

2D and 3D Nanostructures

Structures, Properties, and Applications



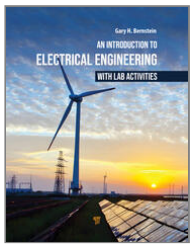
Jean-Claude Serge Levy

This book is devoted to the study of a few typical nanostructures and arrays of nanostructures that are expected to find many applications, such as metamaterials. Beginning with a brief discussion on a general historical perspective of this new emergent field, new methods to deal with it, such as the available numerical methods, the principle of biomimetic applications, and the powerful field of artificial intelligence, the book covers a variety of topics, including semiconductors, magnetic materials of different components, of different structures, and of different arrangements, and new chemical compounds.

Jenny Stanford Publishing
February 2026 : 346pp
Hb: 978-9-815-12997-7 : £154

* For full contents and more information, visit: www.routledge.com/9789815129977

An Introduction to Electrical Engineering with Lab Activities



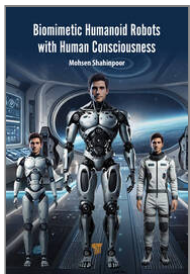
Gary H. Bernstein

This book has the dual goals of teaching difficult fundamental concepts in a way that will set them up for success in later courses while also providing the context for those concepts relative to the advances in electrical engineering technology. The topics covered are basic electricity, laboratory bench equipment, the power grid and residential wiring, complex impedance, time and frequency domains, filters, phasors, radio-frequency electromagnetic waves, modulation, semiconductor materials and devices, light emission, energy and power, energy efficiency, digital signal processing, Nyquist criterion, aliasing, battery technology, and power supplies.

Jenny Stanford Publishing
December 2025 : 544pp
Hb: 978-9-815-12930-4 : £100
eBook: 978-1-003-71345-6

* For full contents and more information, visit: www.routledge.com/9789815129304

Biomimetic Humanoid Robots with Human Consciousness



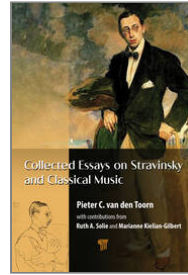
Mohsen Shahinpoor

This book describes a non-fiction scenario in which humanity will survive in the universe immortally by the creation of look-alike biomimetic humanoid robots with a special consciousness in which the humanoid robot knows that it is modeling a human master (owner) with "an identity and a life vita" (resume, life story, and memories). The robot will have a consciousness or self-awareness of itself (IVA-consciousness) and will stay in the universe even after the human master has left.

Jenny Stanford Publishing
November 2025 : 542pp
Hb: 978-9-815-12987-8 : £116
eBook: 978-1-003-71373-9

* For full contents and more information, visit: www.routledge.com/9789815129878

Collected Essays on Stravinsky and Classical Music



Pieter C. van den Toorn

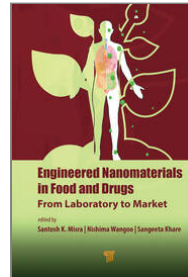
The most celebrated of 20th-century composers, Igor Stravinsky may also have been the greatest. The early chapters in this volume address the dynamics of his music from a number of analytic-theoretical perspectives. Examined initially are the features of harmony, melody, and rhythm that would remain characteristic of his music regardless of the changes in stylistic orientation.

Jenny Stanford Publishing
January 2026 : 376pp
Hb: 978-9-815-12989-2 : £61.99

* For full contents and more information, visit: www.routledge.com/9789815129892

Engineered Nanomaterials in Food and Drugs

From Laboratory to Market



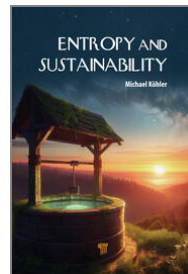
Edited by **Santosh K. Misra , Nishima Wangoo , Sangeeta Khare**

This book pans through three major sections of materials and methods used in the engineering of nanomaterials—their applications, ethical issues, and present market share in the field of food and drugs. It presents information on the kind of materials and processes that are used to synthesize nanomaterials, which are eventually used in the food and drug industries. It chalks out the minor details of components and parameters that could influence the outcome in terms of dimension, surface property, toxicity, stability, bioavailability, degradation, physiological responsiveness, etc.

Jenny Stanford Publishing
November 2025 : 746pp
Hb: 978-9-815-12952-6 : £193
eBook: 978-1-003-61881-2

* For full contents and more information, visit: www.routledge.com/9789815129526

Entropy and Sustainability



Michael Köhler

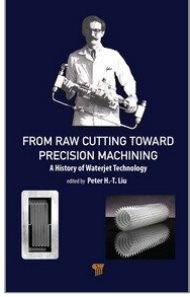
This book introduces the physical basics and the historical scientific background of the concept of entropy and explains the importance of entropy for living beings, machines, computers industrial facilities, ecological systems, and the earth as whole. It discusses the necessity of the production of entropy, on the one hand, and the required strategies for entropy export, on the other. The mechanisms of entropy production and export are discussed in order to make clear that entropy not only is a special physical parameter but also plays a role everywhere in daily life.

Jenny Stanford Publishing
February 2026 : 234pp
Hb: 978-9-815-12999-1 : £116

* For full contents and more information, visit: www.routledge.com/9789815129991

From Raw Cutting Toward Precision Machining

A History of Waterjet Technology



Edited by **Peter H.-T. Liu**

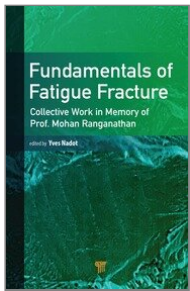
This book on waterjet technology builds on the previous book by the author, *Versatility of Waterjet Technology*, and explores the rich and fascinating history of the field. From early developments to its emergence as a precision machining powerhouse, the book chronicles key milestones, people, and innovations that shaped waterjet technology. The book also examines the vital roles of marketing and education in transforming waterjet systems from niche tools into global industrial solutions.

Jenny Stanford Publishing
November 2025 : 546pp
Hb: 978-9-815-12986-1 : £270
eBook: 978-1-003-71014-1

* For full contents and more information, visit: www.routledge.com/9789815129861

Fundamentals of Fatigue Fracture

Collective Works in the Memory of Prof. Mohan Ranganathan



Edited by **Yves Nadot**

This book is written in the memory of late Prof. Mohan Narayanaswami Ranganathan (University of Tours, France), whose contributions to the fields of materials science, engineering, and fatigue have inspired generations of researchers. He had unrelenting intellectual curiosity that made him a truly gifted researcher. However, it was his interaction with colleagues and students where he left his profound mark. He had a unique way of looking at things and drawing in knowledge from different areas to provide a very different perspective. His optimistic view was particularly valuable when a given path seemed un navigable—he always managed to find a path with his charm and charisma.

Jenny Stanford Publishing
January 2026 : 420pp
Hb: 978-9-815-12985-4 : £193
eBook: 978-1-003-71049-3

* For full contents and more information, visit: www.routledge.com/9789815129854

Fuzzy Logic in Revolutionizing Renewable Energy



Edited by **Bhupinder Singh, Komal Vig, Ruchi Lal, Budi Agus Riswandi**

Series: *Jenny Stanford Series on Fuzzy Theory Frontiers, Vol. 1*

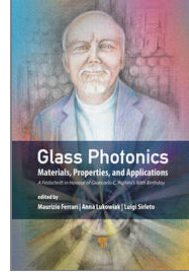
This book comes from a fundamental belief that the future of energy is in our willingness to invent and improve, so as to not just survive against nature but also make it sustainable. It discusses the importance of fuzzy logic in smart infrastructure control system, fault detection and management in renewable energy systems (solar photovoltaic, wind, hydroelectric, biomass, and biogas energy systems), federated learning devices for renewable energy, intelligent energy management, enhanced wave and tidal energy conversion, and achievement of the Sustainable Development Goals through renewable energy innovations.

Jenny Stanford Publishing
February 2026 : 546pp
Hb: 978-9-815-12992-2 : £139

* For full contents and more information, visit: www.routledge.com/9789815129922

Glass Photonics

Materials, Properties, and Applications



Edited by **Maurizio Ferrari, Anna Łukowiak, Luigi Sirloto**

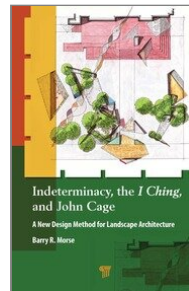
This book, devoted to glass photonics, is homage to Prof. Dr Giancarlo C. Righini on his 80th birthday. This milestone signifies a lifetime of rich scientific experiences and notable achievements in optics and photonics, with special regard to glass and other optical materials. The book shows how glass photonics plays a crucial role in the current Age of Light. The former part of book focuses on photonic devices in fiber and integrated optics format.

Jenny Stanford Publishing
February 2026 : 414pp
Hb: 978-9-815-12960-1 : £193

* For full contents and more information, visit: www.routledge.com/9789815129601

Indeterminacy, the I Ching, and John Cage

A New Design Method for Landscape Architecture



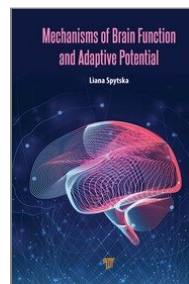
By **Barry R. Morse**

The creative use of indeterminacy, i.e., “chance,” is an often overlooked design opportunity despite the universality of change in art, nature, science, and life. How can “chance,” a seemingly capricious phenomenon, be made to work for someone? One controlled use of chance is through the Chinese I Ching “chance operations” method of composer and artist John Cage (1912–1992). This book addresses the questions of how one might approach using this method in landscape architectural design, what the outcome of such an indeterminate design would be, and whether or not it could lead to a viable constructed landscape.

Jenny Stanford Publishing
December 2025 : 218pp
Hb: 978-9-815-12988-5 : £37.99
eBook: 978-1-003-71037-0

* For full contents and more information, visit: www.routledge.com/9789815129885

Mechanisms of Brain Function and Adaptive Potential



By **Liana Spytksa**

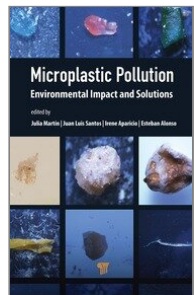
This book explores the relationships between brain function, hypnotic states, and neural networks, illuminating how these fields deepen our understanding of human consciousness, cognition, and therapeutic possibilities. It integrates historical context with modern research methodologies, demonstrating how advanced neuroimaging techniques transformed the ability to visualize and understand brain activity. The book explores how alterations in brain activity correlate with changes in perception, attention, memory, and emotional regulation, providing insights into the malleable nature of consciousness.

Jenny Stanford Publishing
December 2025 : 412pp
Hb: 978-9-815-12991-5 : £154
eBook: 978-1-003-71697-6

* For full contents and more information, visit: www.routledge.com/9789815129915

Microplastic Pollution

Environmental Impact and Solutions



Edited by **Julia Martin , Juan Luis Santos , Irene Aparicio , Esteban Alonso**

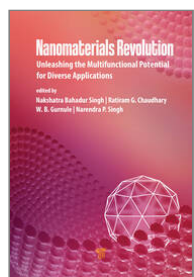
This book presents case studies pertaining to worldwide geographical areas and scientific disciplines, including material sciences, analytical chemistry, environmental toxicology, and public health among others. It introduces the complex issue of global ubiquitous microplastics in the environment. It reviews the tools and protocols for the detection, separation, and identification of microplastics using complex cases of environmental matrices. It discusses the fate and distribution of microplastics in wastewater treatment plants (water and solid line) and natural media.

Jenny Stanford Publishing
November 2025 : 368pp
Hb: 978-9-815-12977-9 : **£170**
eBook: 978-1-003-66006-4

* For full contents and more information, visit: www.routledge.com/9789815129779

Nanomaterials Revolution

Unleashing the Multifunctional Potential for Diverse Applications



N. B. Singh , Ratiram G. Chaudhary , Wasudeo B. Gurnule , Narendra P. Singh

This book discusses the impact of nanomaterials and offers an in-depth exploration of their evolution, synthesis, and diverse applications. It addresses the scientific, technological, and societal implications of nanotechnology, beginning with the historical development and breakthrough innovations that have made nanomaterials integral to modern industry and research. The chapters on synthesis and fabrication techniques, structural and chemical properties, and characterization methods provide a detailed understanding of how nanomaterials are tailored and analyzed at the nanoscale.

Jenny Stanford Publishing
January 2026 : 586pp
Hb: 978-9-815-12990-8 : **£193**
eBook: 978-1-003-73396-6

* For full contents and more information, visit: www.routledge.com/9789815129908

Practice Makes Perfect

Understanding the Acquisition of Musical Expertise



Edited by **Susan Hallam**

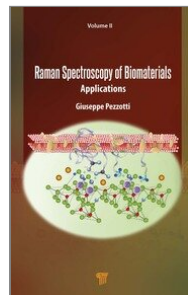
Research into instrumental music practice has a long history dating back to the 1940s. This book presents papers dating from 1995 to 2022 by Prof. Susan Hallam, a former professional musician and instrumental teacher who on becoming an academic continued her interest in instrumental music by researching the factors contributing to the development of high levels of expertise, including practice.

Jenny Stanford Publishing
February 2026 : 896pp
Hb: 978-9-815-12994-6 : **£76.99**

* For full contents and more information, visit: www.routledge.com/9789815129946

Raman Spectroscopy of Biomaterials

Applications



Giuseppe Pezzotti

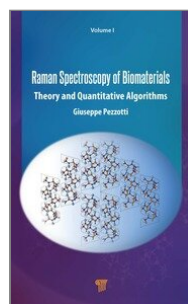
This book applies the equations and algorithms developed in the companion book (Raman Spectroscopy of Biomaterials: Theory and Quantitative Algorithms) to illustrative examples in the field of biomedical science, which include healthy and diseased hard and soft tissues in the human body, synthetic materials for biomedical devices, and a number of biological molecules in cells and bacteria. Through the above-selected applications, it is shown that Raman spectroscopy represents a key methodology to develop prompt and low-cost preventive care, to effectively diagnose diseases, to quantitatively assess the performance of biomedical devices, and to propose novel therapies.

Jenny Stanford Publishing
December 2025 : 582pp
Hb: 978-9-815-12948-9 : **£270**
eBook: 978-1-003-71295-4

* For full contents and more information, visit: www.routledge.com/9789815129489

Raman Spectroscopy of Biomaterials

Theory and Quantitative Algorithms



Giuseppe Pezzotti

This book rigorously establishes some key aspects of Raman basic science in the biomedical field and discusses the physics governing its application to both synthetic and natural biomaterials by disentangling spectrally convoluted dependencies on crystal orientation, chemical and stoichiometric alterations, and mechanical stress. A completely new set of working algorithms is given to extract structural, chemical, and mechanical information from the experimentally collected spectra, while orientation distribution functions are employed to obtain statistical descriptions of crystallographic textures in practical applications.

Jenny Stanford Publishing
December 2025 : 426pp
Hb: 978-9-815-12923-6 : **£270**
eBook: 978-1-003-71316-6

* For full contents and more information, visit: www.routledge.com/9789815129236

Rural Futures

Innovation, Resilience, and Sustainable Development



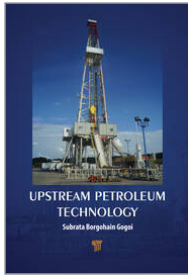
Edited by **Pushan Kumar Dutta , Sonal Trivedi**

This book comprehensively explores the multifaceted issues shaping rural areas today. It thoroughly examines the socio-economic, environmental, and technological challenges and opportunities that rural communities come across. The scope of this book is to broadly cover from social capital and governance models to health, employment, and cultural sustainability. It offers insights into contemporary challenges and innovative solutions and is crucial for those involved in rural development policy, research, and practice. It provides theoretical frameworks as well as practical case studies, highlighting real-world applications from diverse global contexts.

Jenny Stanford Publishing
January 2026 : 664pp
Hb: 978-9-815-12993-9 : **£103**

* For full contents and more information, visit: www.routledge.com/9789815129939

Upstream Petroleum Technology



Subrata Borgohain Gogoi

This book is a comprehensive resource that explores the latest advancements in upstream petroleum engineering. Covering fundamental principles and cutting-edge innovations, it provides a thorough understanding of hydrocarbon exploration, drilling, reservoir characterization, production, and enhanced oil recovery (EOR). It delves into advanced techniques such as chemical, microbial, miscible, and thermal EOR, along with reservoir modeling, simulation, and digital optimization using artificial intelligence (AI) and machine learning.

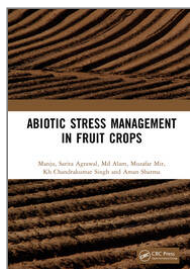
Jenny Stanford Publishing

February 2026 : 500pp

Hb: 978-9-815-12996-0 : £193

* For full contents and more information, visit: www.routledge.com/9789815129960

Abiotic Stress Management in Fruit Crops



Manju , Sarita Agrawal , Md Alam , Muzafar Mir , Kh Chandrakumar Singh , Aman Sharma

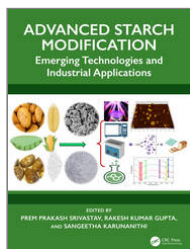
In light of escalating climate challenges and environmental stressors, this book explores the scientific and practical approaches for safeguarding fruit crop productivity. This volume addresses critical issues such as water scarcity, soil degradation, and temperature extremes, providing in-depth insights for students, researchers, and professionals in Horticultural Sciences. The book equips readers with the knowledge to develop adaptive strategies and sustainable solutions for the future of fruit cultivation under abiotic stress. Print edition not for sale in India.

CRC Press
November 2025 : 376pp
Hb: 978-1-041-20553-1 : £105
eBook: 978-1-003-71740-9

* For full contents and more information, visit: www.routledge.com/9781041205531

Advanced Starch Modification

Emerging Technologies and Industrial Applications



Edited by Prem Prakash Srivastav IIT KGP, Rakesh Kumar Gupta , Sangeetha Karunanithi IIT Kharagpur

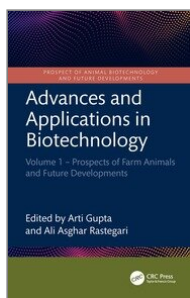
This book comprehensively reviews the advanced modification techniques of starch and applications in food packaging and 3D/4D printing. The initial chapter provides an overview of the primary sources of starch, including cereals, tubers, and roots, and discusses global trends in starch production and consumption.

CRC Press
December 2025 : 296pp
Hb: 978-1-032-91593-7 : £160
eBook: 978-1-003-56428-7

* For full contents and more information, visit: www.routledge.com/9781032915937

Advances and Applications in Biotechnology

Volume 1 – Prospects of Farm Animals and Future Developments



Edited by Arti Gupta , Ali Rastegari Falavarjan Branch, Islamic azad University, Isfahan

Series: Prospect of Animal Biotechnology and Future Developments

Advances and Applications in Biotechnology: Volume 1 – Prospects of Farm Animals and Future Developments explores the dynamic and evolving role of livestock in global agriculture, emphasizing sustainable practices, molecular innovations, and emerging technologies. Against the backdrop of increasing environmental pressures and rising food security concerns, this volume highlights the transformative potential of biotechnology in farm animal research and management. The book aims to integrate traditional livestock knowledge with advanced scientific strategies, offering readers a multidimensional view of animal agriculture.

CRC Press
February 2026 : 224pp
Hb: 978-1-032-59074-5 : £105

* For full contents and more information, visit: www.routledge.com/9781032590745

Advances and Applications in Biotechnology

Volume 2 – Prospects of Transgenic Animals in Biotechnology



Edited by Arti Gupta , Ali Rastegari Falavarjan Branch, Islamic azad University, Isfahan

Series: Prospect of Animal Biotechnology and Future Developments

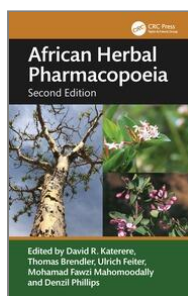
Transgenic animal biotechnology stands at the forefront of innovation, offering unprecedented opportunities to enhance human health, agricultural productivity, and environmental sustainability. Advances and Applications in Biotechnology: Volume 2 – Prospects of Transgenic Animals in Biotechnology presents a timely and authoritative overview of the latest developments in genetic engineering across animal systems. This volume brings together cutting-edge research and practical applications, bridging classical transgenesis with modern genome editing technologies.

CRC Press
April 2026 : 264pp
Hb: 978-1-032-59093-6 : £105

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2ND EDITION

African Herbal Pharmacopoeia



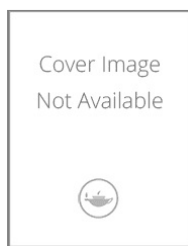
Edited by David R. Katerere Tshwane University of Technology, Pretoria, South Africa, **Thomas Brendler** Plantaphile, Collinswood, New Jersey, USA, **Ulrich Feiter , Mohamad Fawzi Mahomoodally** Department of Health Sciences, Faculty of Science, University of Mauritius, **Lawrance Denzil Phillips** Director, Denzil Phillips International Ltd., Surrey, UK

The African Herbal Pharmacopoeia, Second Edition, is a definitive reference work that brings together the most authoritative scientific and ethnobotanical knowledge on 30 of the most important medicinal plants in Africa. Developed in collaboration with leading international and African researchers, this second edition offers expanded monographs, updated analytical standards, and in-depth ethnobotanical insights into high-priority medicinal plant species used across the continent.

CRC Press
January 2026 : 410pp
Hb: 978-0-815-37424-4 : £165

* For full contents and more information, visit: www.routledge.com/9780815374244

AI in Plant Science and Precision Agriculture



Edited by Jen-Tsung Chen

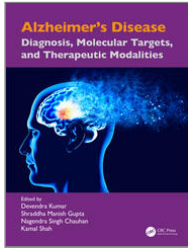
This book summarizes advancements in artificial intelligence (AI) technologies, particularly for applications in plant research. It discusses agricultural applications, including AI-enabled smart agriculture and speed breeding, as well as ethical considerations of AI applications in plant sciences and agriculture. It focuses on the application of AI in omics-based plant sciences and crop breeding; digital technologies used in farming, smart agricultural practices, and basic knowledge of AI tools and applications in disease classification and detection.

CRC Press
March 2026 : 448pp
Hb: 978-1-032-88989-4 : £190

* For full contents and more information, visit: www.routledge.com/9781032889894

Alzheimer's Disease

Diagnosis, Molecular Targets, and Therapeutic Modalities



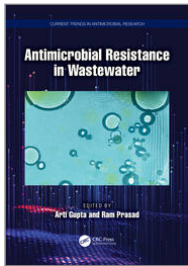
Edited by **Devendra Kumar** SVKM's NMIMS (Deemed-to-be) University, India, **Shraddha Manish Gupta** UPES Dehradun, India, **Nagendra Singh Chauhan** Drugs Testing Laboratory Avam Anusandhan Kendra, Raipur, **Kamal Shah** GLA University, Uttar Pradesh, India

Alzheimer's disease continues to present one of the foremost scientific and clinical challenges in contemporary neuroscience. Despite significant advances in molecular biology and neuroimaging, its complex etiology and progressive course remain only partially understood, and truly effective disease-modifying therapies remain elusive. This scholarly volume offers a comprehensive and integrative examination of Alzheimer's disease, combining cutting-edge research with clinical perspectives. Alzheimer's Disease: Diagnosis, Molecular Targets, and Therapeutic Modalities assembles contributions from leading experts, providing in-depth analysis across a wide range of topics.

CRC Press
December 2025 : 312pp
Hb: 978-1-032-99129-0 : £105

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Antimicrobial Resistance in Wastewater



Edited by **Arti Gupta**, **Ram Prasad**

Series: *Current Trends in Antimicrobial Research*

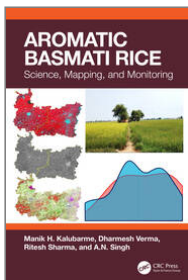
This book provides a comprehensive evaluation of antimicrobial resistance in wastewater treatment, compiling insights from global experts in fields such as microbiology, environmental biotechnology, civil engineering, biochemistry, environmental science, and public health. It delves into topics including the role of the environment in the development and spread of antimicrobial resistance, chemical analysis of antibiotics in environmental samples, molecular methods to study antimicrobial resistance bacteria and genes, advanced wastewater treatment technologies, the effects of antimicrobial resistance, and the public health implications related to wastewater treatment.

CRC Press
December 2025 : 242pp
Hb: 978-1-032-21742-0 : £105
eBook: 978-1-003-26982-3

* For full contents and more information, visit: www.routledge.com/9781032217420

Aromatic Basmati Rice

Science, Mapping, and Monitoring



Edited by **Manik H. Kalubarme** Space Applications Centre, ISRO, India, **Dharmesh Verma**, **Ritesh Sharma** Basmati Export Development Foundation (APEDA), India, **A.N. Singh**

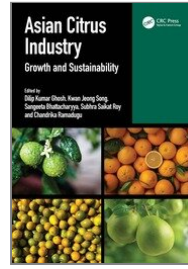
Aromatic Basmati rice, also known as 'the scented pearl' by its connoisseurs, has been grown in a specific geo-climatic region of India and Pakistan for centuries. It is appreciated by consumers in more than 100 countries around the globe. Due to its specific aroma and grain quality traits, Basmati rice also fetches a much higher price in the international market compared to other non-aromatic rices, benefiting its producer farmers and also traders. Timely information on Basmati rice acreage and production is a necessity for planners, policy makers, and traders alike.

CRC Press
February 2026 : 336pp
Hb: 978-1-032-65937-4 : £105

* For full contents and more information, visit: www.routledge.com/9781032659374

Asian Citrus Industry

Growth and Sustainability



Edited by **Dilip Kumar Ghosh**, **Kwan Jeong Song**, **Sangeeta Bhattacharyya**, **Subhra Saikat Roy**, **Chandrika Ramadugu**

The citrus industry plays a crucial role in the economies and agricultural landscapes of many Asian countries, contributing significantly to global citrus production and trade. Asian Citrus Industry: Growth and Sustainability provides a comprehensive analysis of the citrus sector across 14 major citrus-producing Asian nations, including China, India, Japan, Korea, Thailand, Bhutan, Nepal, Turkey, Pakistan, Bangladesh, Vietnam, Iran, Sri Lanka, and Indonesia. This book presents an in-depth exploration of the historical evolution, production trends, key challenges, and opportunities shaping the citrus industry in Asia.

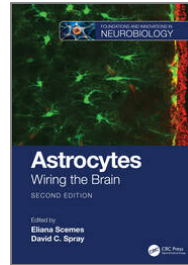
CRC Press
November 2025 : 372pp
Hb: 978-1-032-89466-9 : £190
eBook: 978-1-003-58459-9

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2ND EDITION

Astrocytes

Wiring the Brain



Edited by **Eliana Scemes** Albert Einstein College of Medicine, Bronx, New York, USA, **David C. Spray** Albert Einstein College of Medicine, Bronx, New York, USA

Series: *Foundations and Innovations in Neurobiology*

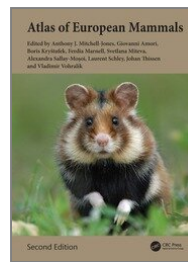
A second edition of a book that provides an overview of the most current findings on the diverse roles played by astrocyte in CNS function and dysfunction with emphasis on its cellular connections.

CRC Press
November 2025 : 296pp
Hb: 978-1-032-75616-5 : £165
eBook: 978-1-003-48098-3

* For full contents and more information, visit: www.routledge.com/9781032756165

2ND EDITION

Atlas of European Mammals



Edited by **Anthony J. Mitchell-Jones** The European Mammal Foundation, **Giovanni Amori** CNR-IRET, Italy, **Boris Kryštufek** Natural History Museum, **Ferdia Marnell** Nat. Parks and Wildlife Service, **Svetlana Miteva** The Habitat Foundation, **Alexandra Sallay** BOKU Univ., **Laurent Schley** Nature and Forest, **Johan Thissen** European Mammal Foundation, **Vladimir Vohralik** Chares Univ.

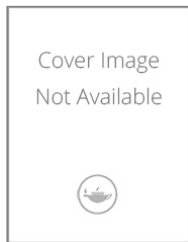
Since 1999, this atlas has proved a valuable resource for mammalogists across the globe. Now thoroughly updated, the new edition has extended the coverage of Europe to include Belarus, Moldova and Ukraine. Specialists have collected distribution data for each country using an agreed species list and a standard mapping system. This landmark volume presents maps of 247 species from 42 countries with more than 125,200 unique records, taking into account recent extinctions to give the most up-to-date picture possible. Accounts for each species include details of taxonomy and variation, habitat, population and international legal and conservation status.

CRC Press
February 2026 : 594pp
Hb: 978-0-367-18686-9 : £165

* For full contents and more information, visit: www.routledge.com/9780367186869

Barcoding Life

For Exploring and Protecting Biodiversity



Edited by **Siddra Ijaz** Centre of Agricultural Biochemistry and Biotechnology, Pakistan, **Imran Ul Haq** University of Agriculture Faisalabad, Pakistan, **Hayssam Mohamad Ali**

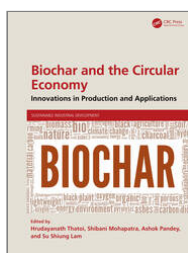
Barcoding Life: For Exploring and Protecting Biodiversity gives a detailed exploration of DNA barcoding across all domains of life. Researchers will find that DNA barcoding facilitates rapid species identification, streamlining biodiversity studies and accelerating the discovery of new species. Taxonomists will gain valuable insights into species relationships, enabling more accurate classifications and targeted investigations. Policymakers will learn how DNA barcoding informs conservation priorities, guiding effective strategies and optimizing resource allocation.

CRC Press
April 2026 : 240pp
Hb: 978-1-032-88744-9 : £145

* For full contents and more information, visit: www.routledge.com/9781032887449

Biochar and the Circular Economy

Innovations in Production and Applications



Edited by **Hrudayanath Thatoi** Director, Centre for Industrial Biotechnology Research, Odisha, **Shibani Mohapatra** Center for Industrial Biotechnology Research, SOA Deemed to be University, **Ashok Pandey**, **Lam Su Shiung**

Series: Sustainable Industrial Development

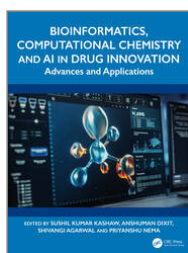
This book provides a comprehensive overview of biochar as a sustainable solution within the context of agriculture, waste management, environmental remediation, and the circular economy. It covers innovative production techniques using various biomass sources, practical uses in soil improvement and wastewater remediation, and emerging roles in biogas and hydrogen production. With a strong emphasis on sustainability and circular economy models, the book offers valuable insights into how biochar can drive low-carbon transitions and enhance environmental resilience. This book is useful for researchers and students of biotechnology and environmental sciences.

CRC Press
November 2025 : 228pp
Hb: 978-1-041-11394-2 : £110
eBook: 978-1-003-65976-1

* For full contents and more information, visit: www.routledge.com/9781041113942

Bioinformatics, Computational Chemistry and AI in Drug Innovation

Advances and Applications



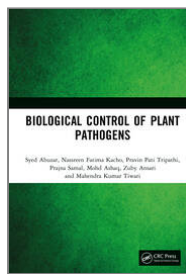
Edited by **Sushil Kumar Kashaw**, **Anshuman Dixit**, **Shivangi Agarwal**, **Priyanshu Nema**

This book comprehensively examines the applications of bioinformatics, computational chemistry and artificial intelligence in the field of drug discovery and innovation. It provides foundational insights into bioinformatics and its applications, from cutting-edge advancements in computational molecular phylogeny, structural bioinformatics, and metabolic computing to biological databases and data mining. Additionally, the book covers critical aspects of data storage, retrieval, database structure, and annotation, providing a robust foundation for understanding the complexities of biological data management.

CRC Press
January 2026 : 264pp
Hb: 978-1-032-73301-2 : £110

* For full contents and more information, visit: www.routledge.com/9781032733012

Biological Control of Plant Pathogens



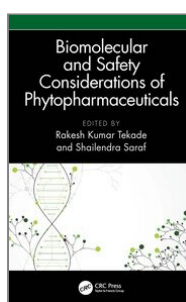
Syed Abuzar , Nassreen Fatima Kacho , Pravin Pati
Tripathi , Prajna Samal , Mohd Ashaq , Zubay Ansari ,
Mahendra Kumar Tiwari

This book offers crucial reference on biological control covering plant pathology principles, bioagent interactions, commercial production, and biopesticide applications. Includes integration strategies for IPM systems for plant pathologists and agricultural researchers. This title has been co-published with Elite Publishing House. Taylor & Francis does not sell or distribute the print edition in India.

CRC Press
February 2026 : 304pp
Hb: 978-1-041-24725-8 : £105

* For full contents and more information, visit: www.routledge.com/9781041247258

Biomolecular and Safety Considerations of Phytopharmaceuticals



Edited by **Rakesh Kumar Tekade**, **Shailendra Saraf**

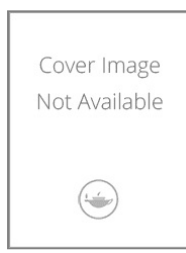
This book provides a comprehensive and holistic overview of the evolving field of phytopharmaceuticals, bridging ancient practices with modern technological advancements. It begins by exploring current trends and the evolution of phytomedicine across continents, with a focus on screening, extraction, purification, identification, standardization, and quality control of phytopharmaceuticals. It highlights cutting-edge techniques, like high-throughput screening, omics integration, and the application of artificial intelligence in phytomedicine research.

CRC Press
March 2026 : 448pp
Hb: 978-1-032-90182-4 : £120

* For full contents and more information, visit: www.routledge.com/9781032901824

Bioresources for Managing and Treating Dementia

Prospects and Challenges



Edited by **Abraham Olufemi Asuku**, **Ayodeji Johnson Ajibare**, **Olugbemi Tope Olaniyan**

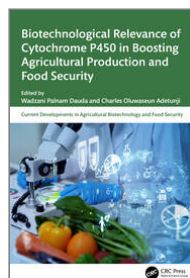
Series: Neuroscience of Neurodegenerative Disorders

Globally, dementia is a health challenge with remarkable socio-economic implications. In spite of advances in conventional treatment, there is an urgent need for more accessible, effective, and safer therapeutic options. Bioresources offer a promising avenue for dementia treatment and management. This book explores the potential of bioresources in dementia management, focusing on their mechanisms of action and key prospects and addressing the critical obstacles that must be navigated to harness their full therapeutic potentials.

CRC Press
April 2026 : 200pp
Hb: 978-1-041-10914-3 : £145

* For full contents and more information, visit: www.routledge.com/9781041109143

Biotechnological Relevance of Cytochrome P450 in Boosting Agricultural Production and Food Security



Edited by **Wadzani Palnam Dauda** Department of Crop Science, Federal University, Gashua, **Charles Oluwaseun Adetunji** Edo University, Iyamho, Nigeria

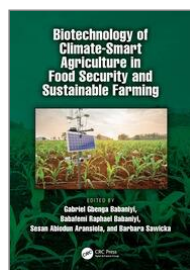
Series: *Current Developments in Agricultural Biotechnology and Food Security*

This book explores the untapped potential of Cytochrome P450 monooxygenases; a highly versatile class of enzymes central to plant metabolism, defence, and growth. With over 95% of plant P450s still functionally uncharacterized, this volume serves as a comprehensive reference for understanding their multifaceted roles in modern agricultural biotechnology. Bridging molecular biology and sustainable agriculture, the book delves into the involvement of P450s in hormone biosynthesis, secondary metabolism, detoxification, and plant-environment interactions.

CRC Press
March 2026 : 368pp
Hb: 978-1-032-50626-5 : £105

* For full contents and more information, visit: www.routledge.com/9781032506265

Biotechnology of Climate-Smart Agriculture in Food Security and Sustainable Farming



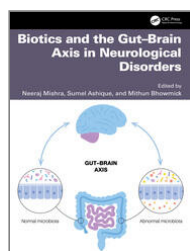
Edited by **Gabriel Gbenga Babaniyi**, **Babafemi Raphael Babaniyi**, **Sesan Abiodun Aransiola**, **Barbara Sawicka**

Biotechnology of Climate-Smart Agriculture in Food Security and Sustainable Farming reviews the transformative role of science in helping agriculture adapt to the challenges of climate change. This comprehensive book bridges the gap between biotechnology, digital innovation, and sustainability, offering invaluable guidance to researchers, policymakers, and farmers.

CRC Press
January 2026 : 454pp
Hb: 978-1-041-01557-4 : £195

* For full contents and more information, visit: www.routledge.com/9781041015574

Biotics and the Gut-Brain Axis in Neurological Disorders



Edited by **Neeraj Mishra** Amity Institute of Pharmacy, Amity University Madhya Pradesh, **Sumel Ashique**, **Mithun Bhowmick** Bengal College of Pharmaceutical Sciences & Research, Durgapur 713212, West Bengal, India

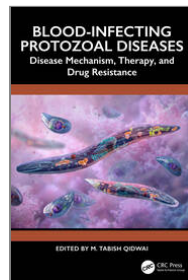
This book examines the roles of prebiotics, probiotics, and postbiotics in modulating the gut-brain axis, highlighting their therapeutic potential in neurological health. It covers foundational concepts of prebiotics and gut-brain communication, the impact of gut dysbiosis, and their influence on autoimmune and neurodegenerative diseases like Alzheimer's, Parkinson's, ALS, and Huntington's. It also addresses the role of these biotics in mental health disorders, ischemic stroke, and inflammation-mediated neurological conditions. This book is intended for researchers and scientists in microbiology, neuroscience, and gastroenterology.

CRC Press
November 2025 : 392pp
Hb: 978-1-032-88239-0 : £180
eBook: 978-1-003-53680-2

* For full contents and more information, visit: www.routledge.com/9781032882390

Blood-Infesting Protozoal Diseases

Disease Mechanism, Therapy, and Drug Resistance



Edited by **M. Tabish Qidwai**

This reference book compiles the latest literature on the genetic diversity, therapeutics, and drug resistance in protozoan parasites, with a focus on malaria parasites, *Plasmodium falciparum*, and *P. vivax*. It explores the association of parasite genetic makeup with drug resistance. The book covers the mechanisms of drug resistance, drug resistance detection and spread, and factors affecting drug resistance. The book facilitates research design and development of therapeutics against malarial parasites. The book is meant for post-graduate students of microbiology, parasitology, and medicine, as well as healthcare workers, medical practitioners, public health staff, and policymakers.

CRC Press
December 2025 : 264pp
Hb: 978-1-032-52275-3 : £110

* For full contents and more information, visit: www.routledge.com/9781032522753

Botanical Extracts

Research Methods and Applications in Pharmaceutical Sciences



Edited by **Arshad Farid**, **Ab Waheed Wani**, **S M Firdous**, **Mukul Machhindra Barwani**

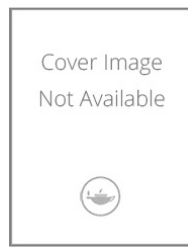
This book provides an overview of botanical extract development, their standardization, advanced analytical technologies, and innovative applications in pharmaceuticals, nutraceuticals, and sustainable agriculture. The chapters introduce the historical evolution of botanical extracts and the fundamental roles of secondary metabolites.

CRC Press
February 2026 : 288pp
Hb: 978-1-041-12044-5 : £105

* For full contents and more information, visit: www.routledge.com/9781041120445

Burn-Induced Neurodegeneration

Therapies for Neuromotor Complications



Edited by **Amany Gomaa Atiaa**, **Shehab M. Abd E-Kader**

Series: *Neuroscience of Neurodegenerative Disorders*

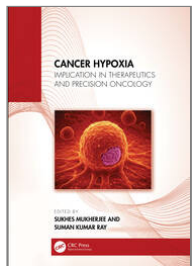
Burn-induced systemic inflammation, neuroinflammatory cascades, and ICU-related neurological syndromes collectively form a clinical continuum that mimics or contributes to neurodegeneration. Framed within this paradigm, this book offers an evidence-based approach to neuromotor rehabilitation that addresses both central and peripheral nervous system complications. It bridges acute trauma with chronic neurofunctional loss, positioning physical therapy as a pivotal intervention to modulate degeneration, support neuroplasticity, and enhance recovery.

CRC Press
April 2026 : 256pp
Hb: 978-1-041-14485-4 : £150

* For full contents and more information, visit: www.routledge.com/9781041144854

Cancer Hypoxia

Implication in Therapeutics and Precision Oncology



Edited by **Sukhes Mukherjee, Suman Kumar Ray**

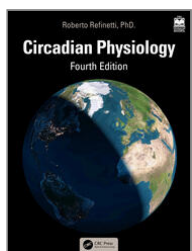
This book reviews the crucial role of hypoxia in initiation and progression of cancer. It explores hypoxia-driven signaling pathways, immune microenvironments, and strategies to combat hypoxia-induced immune suppression. It also explores the impact of hypoxia on cancer stem cells, identifying therapeutic opportunities. It presents techniques for the detection of hypoxic phenotypes, in vivo models for studying hypoxic cancer. The book also explores cutting-edge strategies for drug delivery in hypoxic tumor environments and enhancing drug efficacy within these challenging microenvironments. This book is useful resource for researchers in the field of cancer and for oncologists.

CRC Press
December 2025 : 256pp
Hb: 978-1-032-76180-0 : £110

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4TH EDITION

Circadian Physiology



Roberto Refinetti, PhD, Boise State University, Idaho, USA

Circadian rhythms influence most of our life activities, notably getting up and going to sleep every day. This new edition of Circadian Physiology delves into the mechanisms surrounding how these rhythms work, the physiology and biology behind them, and the latest research on this cutting-edge field. The book also discusses a wide variety of practical topics including the prevention of jet lag, management of shift work, sleep disorders, depression, and the optimal times for physical and intellectual activities.

CRC Press
April 2026 : 896pp
Hb: 978-1-032-29855-9 : £230

* For full contents and more information, visit: www.routledge.com/9781032298559

Climate Change and Sustainable Development



Edited by **Aasawari Jadhav, Prakash Raut, Sukanta Mondal**

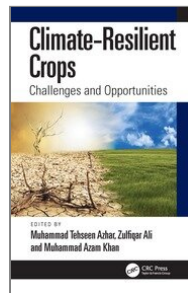
From rising sea levels and extreme weather events to food insecurity and forced migration, the climate change effects are real and accelerating. The book Climate Change and Sustainable Development offers a comprehensive compilation of contemporary research, covering both fundamental and advanced aspects of climate science. It delves into a wide range of critical topics, including the greenhouse effect, food security, social and environmental issues, threats to marine ecosystems, the role of green energy in reducing carbon emissions, life cycle assessments, cost-effective sustainable strategies, public health implications, and climate adaptation strategies.

CRC Press
November 2025 : 272pp
Hb: 978-1-032-79561-4 : £110
eBook: 978-1-003-49273-3

* For full contents and more information, visit: www.routledge.com/9781032795614

Climate-Resilient Crops

Challenges and Opportunities



Edited by **Zulfiqar Ali, Muhammad Tehseen Azhar, Muhammad Azam Khan**

Climate-Resilient Crops: Challenges and Opportunities offers a clear and concise guide to the development of crops that can withstand the increasing threats of climate change. With rising global temperatures and more frequent extreme weather events, this book highlights innovative approaches in breeding, biotechnology, and crop management to meet future food demands.

CRC Press
April 2026 : 296pp
Hb: 978-1-032-71223-9 : £105

* For full contents and more information, visit: www.routledge.com/9781032712239

Concepts in Reproduction

From Evolution of Mechanisms to Clinical Impact



Gary M. Wessel, Julian L. Wong, Harvey Florman, Carmen J. Williams, Mark A. Johnson

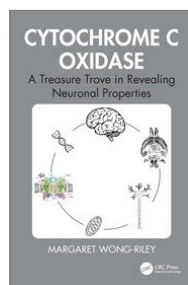
Concepts in Reproduction integrates the principal mechanisms of reproduction among eukaryotes. The text emphasizes processes and approaches that evolved to address specific problems inherent in reproduction using examples from morphology, functional studies, and genetic studies. The many high-quality figures complement the text and provide visual storyboards. Footnotes and boxes found throughout provide depth and enrich understanding. This textbook is recommended for advanced undergraduate students, new graduate students, and investigators or clinicians seeking breadth in their knowledge in the field.

CRC Press
March 2026 : 502pp
Pb: 978-0-367-65269-2 : £74.99
Hb: 978-0-367-70893-1 : £185.99

* For full contents and more information, visit: www.routledge.com/9780367652692

Cytochrome C Oxidase

A Treasure Trove in Revealing Neuronal Properties from Systems to Molecules



Margaret T.T. Wong-Riley

This reference book on an essential mitochondrial enzyme, Cytochrome c oxidase (COX) – is the culmination of four decades of work. This enzyme's biochemical activity is well documented. It evolved more than a billion years ago. Nevertheless, its contributions to the function of neurons remains relatively obscure. COX is not just a housekeeping enzyme engaged in energy generation, but it is truly a treasure trove for the discovery of numerous neuronal properties chronicled in this book.

CRC Press
March 2026 : 272pp
Hb: 978-1-032-82592-2 : £120

* For full contents and more information, visit: www.routledge.com/9781032825922

Designing Pigeonpea Genome for a Future-Ready Crop

Cover Image
Not Available



Edited by **Abhishek Bohra** ICAR-Indian Institute of Pulses Research, India, **Ashok Kumar Parihar** ICAR-Indian Institute of Pulses Research (IIPR), India, **Girish Prasad Dixit** ICAR-Indian Institute of Pulses Research (IIPR), India
Series: *Depiction and Designing of Plant Genomes*

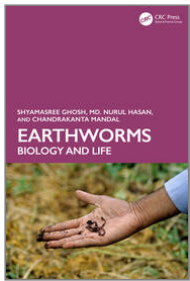
Grown primarily by the smallholder farmers in tropical and subtropical regions, pigeonpea is pivotal to subsistence agriculture in Asia, Africa, Latin America and the Caribbean. Last two decades have witnessed several research breakthroughs in pigeonpea. Following soybean, pigeonpea became the second food legume crop for which the whole genome sequence made available for use in genetic research and breeding. Since then, there have been tremendous efforts to develop and implement cutting-edge technologies for improving pigeonpea.

CRC Press
April 2026 : 368pp
Hb: 978-1-032-99240-2 : £105

* For full contents and more information, visit: www.routledge.com/9781032992402

Earthworms

Biology and Life



Edited by **Shyamasree Ghosh** National Institute of Science Education and Research, Odisha, **Md. Nurul Hasan** Zoological Survey of India, Kolkata, **Chandrakanta Mandal** Zoological Survey of India, Kolkata

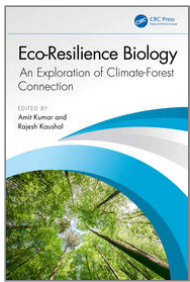
Earthworms: Biology and Life is a scientifically rich and comprehensive exploration of earthworm biology, diversity, and ecological significance, with a particular emphasis on the Indian subcontinent and its global context. The book begins with an overview of the global distribution and biogeography of Clitellata and Megadrili, then transitions into a detailed account of India's terrestrial and aquatic earthworm fauna. By blending regional richness with global insights, the book offers readers a nuanced understanding of species diversity, ecological roles, and habitat specialization across forest floors, agricultural lands, and freshwater ecosystems.

CRC Press
February 2026 : 224pp
Hb: 978-1-041-06077-2 : £105

* For full contents and more information, visit: www.routledge.com/9781041060772

Eco-Resilience Biology

An Exploration of Climate-Forest Connection



Edited by **Amit Kumar** North Eastern Hill University, India, **Rajesh Kaushal** ICAR-Indian Inst. of Soil and Water Conservation, Uttarakhand

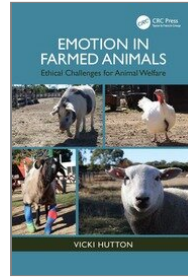
The book Eco-Resilience Biology: An Exploration of Climate-Forest Connection offers comprehensive information on the dynamic interactions between forest ecosystems and changing climate regimes. As climate change accelerates, understanding the resilience mechanisms within forest biomes becomes critical for ensuring biodiversity, ecosystem services, and sustainable human livelihoods. This book aims to bridge the knowledge gap by exploring eco-resilience from biological, ecological, and climate perspectives, providing an integrated framework for students, researchers, and policymakers.

CRC Press
December 2025 : 310pp
Hb: 978-1-032-96212-2 : £110
eBook: 978-1-003-58858-0

* For full contents and more information, visit: www.routledge.com/9781032962122

Emotion in Farmed Animals

Ethical Challenges for Animal Welfare



Edited by **Vicki Hutton** Australian College of Applied Psychology

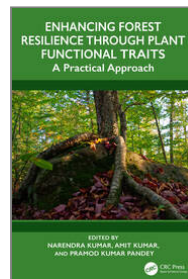
This book seeks to bring change through stories of individual animals now living on farmed animal sanctuaries. Each chapter looks at a particular species' entwined history with humanity as well as the biological and neurological structures that unequivocally confirm their ability to experience positive and negative emotions. This aspect is brought to life through the stories of individual animals living the good life after rescue and rehabilitation. This book will be of interest to those studying or working in animal ethics, welfare and law; veterinary science; running a sanctuary; or simply seeking to understand more about the animals with whom we share this planet.

CRC Press
December 2025 : 290pp
Pb: 978-1-032-84860-0 : £49.99
Hb: 978-1-032-85584-4 : £135
eBook: 978-1-003-51885-3

* For full contents and more information, visit: www.routledge.com/9781032848600

Enhancing Forest Resilience through Plant Functional Traits

A Practical Approach



Edited by **Narendra Kumar**, **Amit Kumar** North Eastern Hill University, India, **Pramod Kumar Pandey**

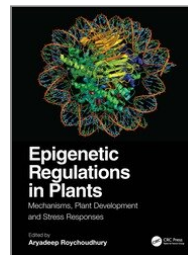
The book explores the relationship between plant functional traits and the resilience of forest ecosystems. Understanding how these traits influence forest ecosystems has significant implications for conservation, forestry, and ecosystem management. This book explores the intersection of ecology, botany, and forestry, providing a comprehensive guide to using plant functional traits as a tool to advance sustainable forest development as sustainable forest management becomes more and more important in the face of global environmental challenges. The book explores the role that plant functional traits play in ecosystem dynamics and how they support forest resilience.

CRC Press
November 2025 : 294pp
Hb: 978-1-032-89906-0 : £110
eBook: 978-1-003-54523-1

* For full contents and more information, visit: www.routledge.com/9781032899060

Epigenetic Regulations in Plants

Mechanisms, Plant Development and Stress Responses



Edited by **Aryadeep Roychoudhury**

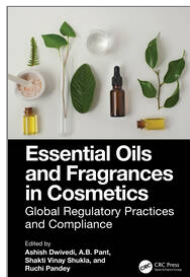
This book provides a detailed overview of the significance of epigenetic regulation as an important mechanism underlying the regulation of gene expression in plants. It highlights the role played by epigenetic mechanisms in the overall physiology of plants and how these mechanisms can improve quality traits by conferring tolerance and resistance against abiotic and biotic stresses. This is an essential read for researchers and scientists working in the fields of plant physiology, molecular biology and biotechnology, as well as related disciplines of biochemistry, agricultural science and botany.

CRC Press
March 2026 : 552pp
Hb: 978-1-032-94313-8 : £165

* For full contents and more information, visit: www.routledge.com/9781032943138

Essential Oils and Fragrances in Cosmetics

Global Regulatory Practices and Compliance



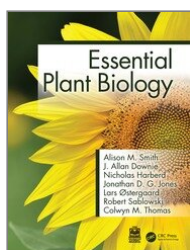
Edited by **Ashish Dwivedi, A.B. Pant, Shakti Vinay Shukla, Ruchi Pandey**

This book provides a comprehensive overview of essential oils and different fragrances and their roles in cosmetics and personal care products. It covers the definition, types, and uses of essential oils, safety and toxicological assessments, and Good Manufacturing Practices (GMP). It reviews key international regulatory standards such as ISO and IFRA, strategies for global compliance, and case studies of successful multinational companies. The book examines innovations and regulatory responses, particularly the impact of new technologies like synthetic biology, making it a valuable resource for professionals in the cosmetic industry.

CRC Press
December 2025 : 224pp
Hb: 978-1-032-90480-1 : £150
eBook: 978-1-003-55847-7

* For full contents and more information, visit: www.routledge.com/9781032904801

Essential Plant Biology



Alison M. Smith, J. Allan Downie, Nicholas Harberd, Jonathan D. G. Jones, Lars Østergaard, Robert Sablowski, Colwyn M. Thomas

This exciting new textbook presents current knowledge of plant biology, highlighting important topics for future research. It addresses the dynamic nature of plant genomes, the conversion of products of photosynthesis into molecules that comprise the plant, and the nature and coordination of growth, development, and reproduction. It describes how these properties of plants are impacted by their surroundings. Finally, it outlines the history, importance and future of human interactions with plants. Designed for undergrad biology students who have a grounding in the fundamentals of molecular biology/biochemistry, it is also a valuable resource for postgrads in plant research.

CRC Press
January 2026 : 586pp
Pb: 978-1-041-08173-9 : £59.99
Hb: 978-1-041-08257-6 : £160

* For full contents and more information, visit: www.routledge.com/9781041081739

Experimental Evolution

The Making of a Modern Science



Tony Dean, Dan Dykhuizen

The book shows how well-designed experiments can be used to test evolutionary theory decisively. The focus is on microbes, their small size, rapid reproduction in chemically defined environments, ease of manipulation and stability in long-term storage make them ideal subjects for laboratory experiments. Its organization also facilitates outsiders entering the field as it closely follows the biological siloes, separating molecular phenomena from ecological phenomena, while clearly delineating how these levels interact to produce. This is a valuable resource for anyone interested in natural selection, evolutionary process and insights from approaches not familiar in their own fields.

CRC Press
December 2025 : 396pp
Pb: 978-1-032-99768-1 : £54.99
Hb: 978-1-032-99769-8 : £135

* For full contents and more information, visit: www.routledge.com/9781032997681

Exploring Herbal Synergies for Optimal Human Health



Edited by **Arti Devi, Nancy George, Zaved Ahmed Khan, Vagish Dwivedi**

Series: *Exploring Medicinal Plants*

Exploring Herbal Synergies for Optimal Human Health offers a comprehensive examination of the combined effects of medicinal herbs and their potential to enhance human well-being. This book bridges traditional knowledge and modern scientific research, highlighting how herbal combinations can provide more effective, holistic approaches to health management.

CRC Press
February 2026 : 464pp
Hb: 978-1-032-87079-3 : £195

* For full contents and more information, visit: www.routledge.com/9781032870793

Exploring Medicinal and Commercial Uses of Flowers



Edited by **Rakesh Kumar Bachheti** Addis Ababa Science and Technology University, Ethiopia, **Archana Bachheti** Graphic Era University, India, **Azamal Husen Wolaita** Sodo University, Ethiopia

Series: *Exploring Medicinal Plants*

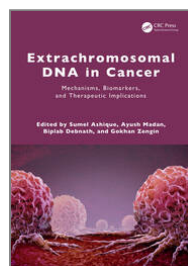
Exploring Medicinal and Commercial Uses of Flowers offers a interdisciplinary insight into the vast potential of flowers across therapeutic, nutritional, and industrial domains. Blending traditional wisdom with the latest scientific advancements, this book uncovers the diverse pharmacological properties and bioactive compounds present in floral species.

CRC Press
April 2026 : 352pp
Hb: 978-1-032-84562-3 : £110

* For full contents and more information, visit: www.routledge.com/9781032845623

Extrachromosomal DNA in Cancer

Mechanisms, Biomarkers, and Therapeutic Implications



Edited by **Sumel Ashique, Ayush Madan, Biplab Debnath, Gokhan Zengin**

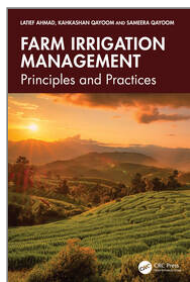
This book provides a comprehensive review of the emerging role of extrachromosomal DNA (ecDNA) in cancer, highlighting its significance in tumor progression, oncogene amplification, drug resistance, and clinical applications. It explores the structural and functional characteristics of ecDNA, emphasizing its role in shaping the genetic and epigenetic landscapes of cancer cells.

CRC Press
February 2026 : 224pp
Hb: 978-1-041-10483-4 : £110

* For full contents and more information, visit: www.routledge.com/9781041104834

Farm Irrigation Management

Principles and Practices



Latief Ahmad SKUAST Kashmir, **Kahkashan Qayoom** SKUAST, Jammu and Kashmir, **Sameera Qayoom** SKUAST-K, Shalimar, Srinagar

Water is the lifeline of agriculture, and its efficient management is crucial for sustainable food production in an era of climate uncertainty and resource scarcity. Farm Irrigation Management provides a comprehensive guide to the principles and practices that govern water use in agriculture, offering insights into the latest scientific advancements, innovative irrigation techniques, and climate-resilient strategies to optimize water utilization. This book explores the intricate relationship between soil, water, and plants, delving into critical topics such as soil-water-plant interactions, irrigation methods, drainage, and precision water management.

CRC Press
December 2025 : 234pp
Hb: 978-1-032-45314-9 : £110
eBook: 978-1-003-37640-8

* For full contents and more information, visit: www.routledge.com/9781032453149

Flies in Science and Forensics



Edited by Omkar University of Lucknow, India

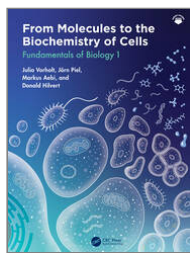
Several flies, like *Drosophila*, are quite useful as model organisms and have been used in research for centuries. They have unraveled several mysteries in the areas of Genetics, Developmental and Evolutionary Biology, Cancer Biology, and more. Similarly, Chironomus species have also been used in cytogenetical studies. In addition, they are crop pests, disease vectors, possess stress tolerance, and are used for environmental monitoring. Sarcophagid flies are not only used in studies of polytene chromosomes but are also vectors of diseases. Besides these, several flies are helpful in solving death mysteries and are excellent tools for forensic investigations.

CRC Press
December 2025 : 354pp
Hb: 978-1-041-07859-3 : £105

* For full contents and more information, visit: www.routledge.com/9781041078593

From Molecules to the Biochemistry of Cells

Fundamentals of Biology 1



Julia Vorholt, **Jörn Piel**, **Markus Aebi**, **Donald Hilvert**

This textbook introduces biology as an interdisciplinary science, linking physics and chemistry to biological processes. Based on an evolutionary narrative, the focus is on the molecular composition and biochemistry of cells. By grounding biology in its molecular foundations, this approach reveals unifying principles underlying life's diversity and provides a conceptual framework for biological complexity. Core concepts include macromolecular structure and function, information encoding and decoding, and universal principles of energy conversion. This book is designed for students seeking an integrated introduction to biology that connects molecular mechanisms to cellular structures.

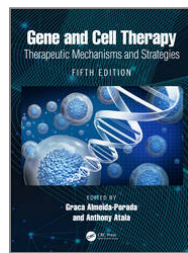
CRC Press
February 2026 : 274pp
Pb: 978-1-032-51836-7 : £39.99
Hb: 978-1-032-51839-8 : £100

* For full contents and more information, visit: www.routledge.com/9781032518367

5TH EDITION

Gene and Cell Therapy

Therapeutic Mechanisms and Strategies



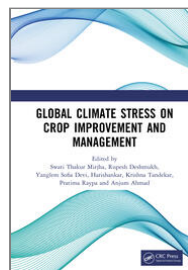
Edited by Graca Almeida-Porada, **Anthony Atala**

This book presents extensive background and basic information, state-of-the-art technologies, important achievements, and lingering challenges in the fields of gene and cell therapies. The fifth edition of this bestseller continues to provide the most comprehensive coverage of these fields in one volume. Some chapters have expanded introductions, making the book even more suitable for classroom use. This edition also offers more material on the contributors' research efforts as well as current technologies, disease targets, and clinical applications.

CRC Press
April 2026 : 1360pp
Hb: 978-0-367-77179-9 : £240

* For full contents and more information, visit: www.routledge.com/9780367771799

Global Climate Stress on Crop Improvement and Management



Edited by Swati Thakur Mirjha, **Rupesh Deshmukh**, **Yanglem Sofia Devi**, **Harishankar**, **Krishna Tandekar**, **Pratima Raypa**, **Anjum Ahmad**

This book serves as important reference on climate-resilient agriculture covering crop breeding, precision techniques, water management, and sustainable practices. Includes data analytics and early warning systems for agricultural scientists and climate adaptation specialists. This title has been co-published with Elite Publishing House. Taylor & Francis does not sell or distribute the print edition in India.

CRC Press
February 2026 : 474pp
Hb: 978-1-041-24726-5 : £195

* For full contents and more information, visit: www.routledge.com/9781041247265

Handbook of Complementary, Alternative, and Integrative Medicine

6-Volume Set



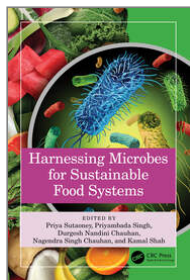
Edited by Yaser Al-Worafi University of Science and Technology of Fujairah, United Arab Emirates

The purpose of these six volumes is to explain how complementary, alternative, and integrative medicine is practiced around the world; to share the best practice/experiences in terms of education, practice and research; and identify the challenges and suggest recommendations to overcome the identified challenges.

CRC Press
December 2025 : 4410pp
Hb: 978-1-032-83454-2 : £725

* For full contents and more information, visit: www.routledge.com/9781032834542

Harnessing Microbes for Sustainable Food Systems



Edited by **Priya Sutaoney** Dept. of Microbiology, Kalinga University, Chhattisgarh, **Priyambada Singh** Dept. of Microbiology, Kalinga University, Chhattisgarh, **Durgesh Nandini Chauhan** Columbia College of Pharmacy, Chhattisgarh, India, **Nagendra Singh Chauhan** Drugs Testing Laboratory Avam Anusandhan Kendra, Raipur, **Kamal Shah** GLA University, Mathura

Food microbiology is the science that comprises the details about various microorganisms associated with food in beneficial and harmful aspects. Spoilage of food by microorganisms has become a problem for many people around the world as foods act as a nutrient source for microorganisms. The past ten years have seen a shift in the field of epidemiology of microbial illness caused by food. This shift has been attributed to the emergence of newly identified food-borne pathogens as well as changes in lifestyle factors such as convenience foods, more adventurous eating, and less time spent preparing meals. It is critical to control food-borne illnesses at every stage of the supply chain.

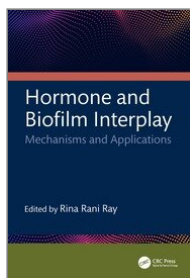
CRC Press

December 2025 : 404pp
Hb: 978-1-032-88876-7 : **£195**
eBook: 978-1-003-54011-3

* For full contents and more information, visit: www.routledge.com/9781032888767

Hormone and Biofilm Interplay

Mechanisms and Applications



Edited by **Rina Rani Ray** Department of Biotechnology, Maulana Abul Kalam Azad University of Technology, West Bengal

This book delves into the intricate relationship between hormones and biofilms, highlighting how hormonal signals significantly influence microbial community behaviors and biofilm formation. It presents a detailed analysis of the role of hormones in quorum sensing processes among bacteria. Covering a range of hormones, including peptides, stress, phytohormones, and sex hormones, it explores their specific impacts on biofilm dynamics. Furthermore, the book examines the potential of hormonal drugs to alter biofilm characteristics. It serves as a valuable resource for researchers in microbiology, endocrinology, biotechnology, and environmental sciences.

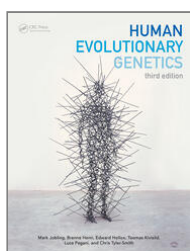
CRC Press

December 2025 : 238pp
Hb: 978-1-032-85618-6 : **£120**
eBook: 978-1-003-51904-1

* For full contents and more information, visit: www.routledge.com/9781032856186

3RD EDITION

Human Evolutionary Genetics



Mark Jobling University of Leicester, UK, **Brenna Henn**, **Edward Hollox** University of Leicester, UK, **Toomas Kivisild** University of Cambridge, UK, **Luca Pagani**, **Chris Tyler-Smith** The Wellcome Trust Sanger Institute, UK

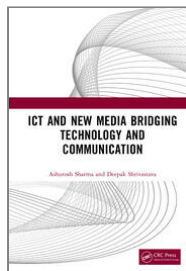
Human Evolutionary Genetics reaches its third edition at a time when sequencing and analyzing whole genomes has become rapid, affordable, and routine. This new and completely revised edition makes sense of this rich information, tying it into other sources of evidence from paleontology, archaeology, and linguistics. The book takes readers on a journey from the prehistoric origins of our ancestors through to the historical era. It embraces genome-wide approaches throughout while explaining the contribution of studies of single genes and loci. Each chapter concludes with review questions, allowing students to test their understanding of chapter content.

CRC Press

January 2026 : 630pp
Pb: 978-0-815-34563-3 : **£69.99**
Hb: 978-1-032-58244-3 : **£170**

* For full contents and more information, visit: www.routledge.com/9780815345633

ICT and New Media Bridging Technology and Communication



Ashutosh Sharma, **Deepak Shrivastava**

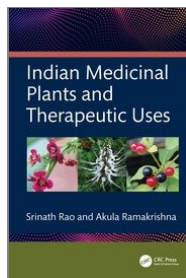
This book serves as an important reference on Information Communication Technology covering community education applications, new media transition, multimedia concepts, and web design. Includes practical HTML and CSS instruction for ICT students and digital media professionals. This title has been co-published with Elite Publishing House. Taylor & Francis does not sell or distribute the print edition in India.

CRC Press

February 2026 : 268pp
Hb: 978-1-041-24730-2 : **£165**

* For full contents and more information, visit: www.routledge.com/9781041247302

Indian Medicinal Plants and Therapeutic Uses



Srinath Rao, **Akula Ramakrishna**

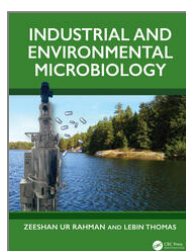
India is a major centre of origin and diversity of medicinal plants. The demand for medicinal plants is increasing, and this leads to unscrupulous collection from the wild and adulteration of supplies. Providing high-quality planting material for sustainable use and thereby saving the genetic diversity of plants in the wild is important. In this regard, some of the important medicinal plants and their therapeutic uses are provided. "Indian Medicinal Plants and Therapeutic Uses" offers a unique compendium of 198 medicinal plant species from India.

CRC Press

December 2025 : 410pp
Hb: 978-1-032-20424-6 : **£160**

* For full contents and more information, visit: www.routledge.com/9781032204246

Industrial and Environmental Microbiology



Zeeshan Ur Rahman, **Lebin Thomas**

This book provides a comprehensive overview of the role of microorganisms in industrial processes, environmental management, and the production of valuable industrial products. It also examines the role of microbial indicators in assessing water quality and wastewater treatment. The book also discusses the potential of microbes in waste management, bioconversion of waste into bioenergy, microbial consortia for waste valorization, bioprocess engineering and environmental monitoring and assessment. This book is useful for researchers and professionals in the fields of microbiology, environmental science, biotechnology, and industrial processes.

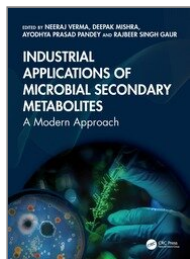
CRC Press

February 2026 : 554pp
Pb: 978-1-032-65108-8 : **£84.99**
Hb: 978-1-032-64476-9 : **£275**

* For full contents and more information, visit: www.routledge.com/9781032651088

Industrial Applications of Microbial Secondary Metabolites

A Modern Approach



Edited by **Neeraj Verma, Deepak Mishra, Ayodhya Prasad Pandey, Rajbeer Singh Gaur**

This comprehensive volume presents the fascinating and diverse world of microbial secondary metabolites, exploring their biosynthesis, ecological roles, and wide-ranging applications in biotechnology, pharmacy, agriculture, and various other industries.

CRC Press
December 2025 : 312pp
Hb: 978-1-032-51549-6 : £140

* For full contents and more information, visit: www.routledge.com/9781032515496

Innovative Solutions and Strategies for Fish Health Management



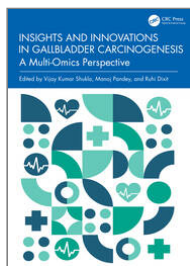
Edited by **Preetham Elumalai, Kim Thompson, Mikolaj Adamek, Sreeja Lakshmi**

This book explores strategies to manage fish health and combat diseases in aquaculture. It covers diagnostic tools, biosecurity measures, and advanced breeding techniques, along with innovative approaches like bacteriophage therapy and nanotechnology for disease resistance. The role of vaccines in disease management is thoroughly examined, highlighting current developments and challenges. Additionally, the book presents fish welfare, addressing stress management, food systems, and human activities, while also exploring the use of prebiotics, probiotics, and synbiotics for enhancing fish health. This book is intended for researchers and professionals of aquaculture and marine biology.

CRC Press
February 2026 : 376pp
Hb: 978-1-032-95588-9 : £89.99

* For full contents and more information, visit: www.routledge.com/9781032955889

Insights and Innovations in Gallbladder Carcinogenesis



Edited by **Vijay Kumar Shukla, Manoj Pandey, Ruhi Dixit**

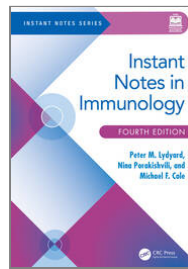
This book comprehensively explores the latest advancements in multi-omics strategies for diagnosing gallbladder cancer. The initial section delves into the genetic mutations and pathways critical to the development and progression of gallbladder cancer. Through targeted gene sequencing and genomic profiling, it identifies both somatic and rare germline mutations, pinpointing driver genes and predisposing mutations. The subsequent section examines the proteins and molecular pathways altered in gallbladder cancer. It uncovers dysregulated proteins, identifies tumor biomarkers, and evaluates circulating markers for early detection.

CRC Press
February 2026 : 224pp
Hb: 978-1-032-82782-7 : £110

* For full contents and more information, visit: www.routledge.com/9781032827827

4TH EDITION

Instant Notes in Immunology



Edited by **Peter Lydyard** Royal Free & Univ. College Medical School, UK, **Nina Porakishvili, Michael Cole**

Series: *Instant Notes*

Instant Notes in Immunology, Fourth Edition, is the perfect text for science undergraduates and medical students looking for a concise introduction to the subject, or a study guide to use before examinations. Thoroughly updated in all areas, especially in mucosal immunity, regulation of the immune response and cancer immunotherapy, each topic begins with a summary of essential facts, an ideal revision checklist followed by a description of the subject that focuses on core information, with clear, simple diagrams easy for students to understand and recall in essays and exams.

Taylor & Francis
January 2026 : 496pp
Pb: 978-1-032-56044-1 : £26.99
Hb: 978-1-032-56045-8 : £66.99

* For full contents and more information, visit: www.routledge.com/9781032560441

Instrumental Methods for Analysis and Characterizations of Phytopharmaceuticals



Edited by **Alexh Niranjana Sahu, Debadatta Mohapatra, Soki Daeme Malang, Pooja Kathait**

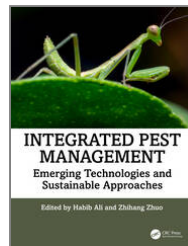
This book, Instrumental Methods for Analysis and Characterizations of Phytopharmaceuticals, provides a comprehensive exploration of phytopharmaceuticals and herbal drugs, bridging traditional knowledge with modern sciences. It discusses both conventional and novel drug delivery systems, offering insights into the rational selection of dosage forms for herbal medicines.

CRC Press
April 2026 : 240pp
Hb: 978-1-032-89020-3 : £125

* For full contents and more information, visit: www.routledge.com/9781032890203

Integrated Pest Management

Emerging Technologies and Sustainable Approaches



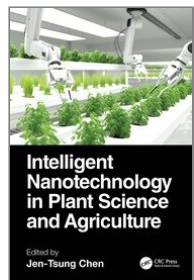
Edited by **Habib Ali, Zhihang Zhuo**

This comprehensive book delves into recent advancements in entomology, covering biological, pheromone-based, and genetic control techniques alongside precision agriculture. It extensively discusses pest detection, cultural and chemical control methods, molecular techniques like RNA interference and gene editing, as well as the integration of remote sensing for outbreak prediction. It explores future trends in entomology, including the utilization of artificial intelligence, robotics, and other emerging technologies. This book serves as a valuable resource for researchers and practitioners of entomology aiming to enhance pest management practices and promote sustainable agriculture.

CRC Press
December 2025 : 252pp
Hb: 978-1-032-85099-3 : £120

* For full contents and more information, visit: www.routledge.com/9781032850993

Intelligent Nanotechnology in Plant Science and Agriculture



Edited by **Jen-Tsung Chen**

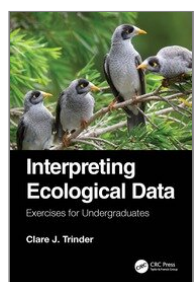
Intelligent Nanotechnology in Plant Science and Agriculture features information on intelligent strategies for nanocarriers, nanosensors, nanorobotics, biogenic nanoparticles, and nano-fertilizers. It proposes literature on AI-nano systems highlighting their applications in stress management, plant protection, crop improvement, and water/soil management. The book discusses ethical and regulatory considerations for combinatorial AI-nanotechnology in agriculture and agrifood systems.

CRC Press
March 2026 : 352pp
Hb: 978-1-041-04212-9 : £170

* For full contents and more information, visit: www.routledge.com/9781041042129

Interpreting Ecological Data

Exercises for Undergraduates



Clare J. Trinder

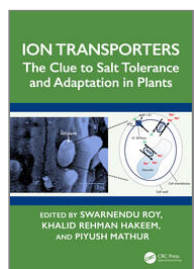
With over 70 exercises containing more than 270 questions, Interpreting Ecological Data allows students to apply ecological theory learned in classes to new, 'real' data from the scientific literature. Rather than simply rote learning word-perfect answers, they are empowered to apply their knowledge and develop critical thinking skills: core attributes for science undergraduates. The book covers ecological principles such as predation, competition, mutualism, food-webs and biogeochemical cycling. The answers are all included in the final chapter, with detailed explanations where relevant.

CRC Press
April 2026 : 176pp
Pb: 978-1-041-08174-6 : £48.99
Hb: 978-1-041-08177-7 : £130

* For full contents and more information, visit: www.routledge.com/9781041081746

Ion Transporters

The Clue to Salt Tolerance and Adaptation in Plants



Edited by **Swarnendu Roy** University of North Bengal, India, **Khalid Rehman Hakeem**, **Piyush Mathur** Uni of North Bengal, India

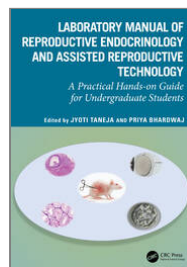
As our planet faces the growing threat of climate change and soil salinization, the need for developing resilient crops has never been more urgent. Ion Transporters: The Clue to Salt Tolerance and Adaptation in Plants offers an honest attempt to delve into the molecular mechanisms that enable plants to survive in salty environments. The book explores how ion transporters—specialized proteins that regulate the movement of ions across plant cell membranes—are central to a plant's ability to manage salt stress and thrive in challenging conditions.

CRC Press
November 2025 : 336pp
Hb: 978-1-032-62919-3 : £120
eBook: 978-1-032-64261-1

* For full contents and more information, visit: www.routledge.com/9781032629193

Laboratory Manual of Reproductive Biology and Assisted Reproductive Technologies

A Practical Hands-on Guide for Undergraduate Students



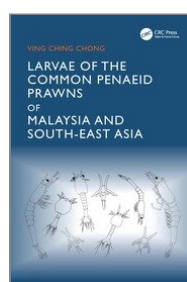
Edited by **Jyoti Taneja**, **Priya Bhardwaj**

The manual Reproductive Biology, Endocrinology and Assisted Reproductive Technology serve as a comprehensive, step-by-step guide for undergraduate and postgraduate students of Zoology, Life Sciences, Biotechnology, and Medical Sciences. It integrates fundamental concepts with advanced experimental approaches, beginning with animal handling and histological examinations, and progressing to modern techniques such as hormonal assays, protein profiling, oocyte retrieval, embryo grading, and infertility investigations.

CRC Press
April 2026 : 224pp
Pb: 978-1-032-52576-1 : £74.99
Hb: 978-1-032-52821-2 : £74.99

* For full contents and more information, visit: www.routledge.com/9781032525761

Larvae of the Common Penaeid Prawns of Malaysia and South-East Asia



Chong Ving Ching

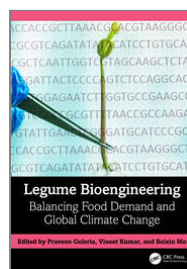
This book details the full larval series of 10 common, economically important species of penaeid prawn in five genera, including *Metapenaeus*, *Metapenaeopsis*, *Parapenaeopsis*, *Penaeus* and *Trachysalambria*. Four *Parapenaeopsis* species are documented for the first time. A synthesis of larval development across the five genera includes an advanced hypothesis of four developmental pathways. Showcasing accurate artwork of 102 non-stylized, as-it-is drawings of penaeid larvae, cultured in the laboratory, the book describes extensive and intensive larval diagnoses, staging and taxonomic treatment for the generic and specific identification of the nauplius, protozoa, mysis and first postlarva.

CRC Press
November 2025 : 250pp
Hb: 978-1-041-10226-7 : £145
eBook: 978-1-003-65411-7

* For full contents and more information, visit: www.routledge.com/9781041102267

Legume Bioengineering

Balancing Food Demand and Global Climate Change



Edited by **Praveen Guleria**, **Vineet Kumar** Panjab University, India, **Beixin Mo** Shenzhen University, China

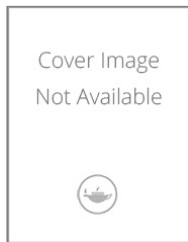
Legume Bioengineering: Balancing Food Demand and Global Climate Change offers a comprehensive guide to enhancing legume productivity and resilience in the face of global food insecurity and climate change. This book explores the impact of environmental stresses on the legume genome, transcriptome, proteome, and metabolome, and presents cutting-edge biotechnological solutions to mitigate these effects. With contributions from 15 international experts across 9 countries, it uniquely combines molecular insights with socio-economic perspectives, making it a timely resource for advancing sustainable agriculture.

CRC Press
December 2025 : 304pp
Hb: 978-1-032-75744-5 : £105
eBook: 978-1-003-47723-5

* For full contents and more information, visit: www.routledge.com/9781032757445

Leishmaniasis

Pathogenesis and Potential Treatment



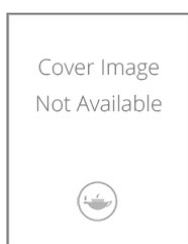
Edited by **Veer Singh , Ashish Kumar , Kumar Abhishek**

This book covers history, biology, pathogenesis, clinical manifestations, and the latest advancements in diagnosis, treatment, and control strategies against Leishmaniasis. The introductory chapter presents the life cycle of Leishmania parasites, focusing on vector biology and transmission dynamics, while elucidating the mechanisms of infection and disease progression.

CRC Press
April 2026 : 368pp
Hb: 978-1-032-97975-5 : £110

* For full contents and more information, visit: www.routledge.com/9781032979755

Lower and Higher Plants for Biofuel Production



Edited by **Azamal Husen** Wolaita Sodo University, Ethiopia

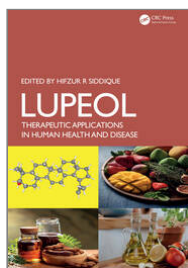
The global energy sector is rapidly evolving in response to climate change, environmental concerns, and the depletion of fossil fuels. Biofuels, particularly those derived from plant-based sources, offer a renewable and cleaner alternative that can integrate into existing energy systems with minimal disruption. Lower and Higher Plants for Biofuel Production, explores the untapped potential of both microalgae and macroalgae (lower plants), as well as oilseed crops and high-biomass grasses (higher plants), as sustainable feedstocks.

CRC Press
May 2026 : 360pp
Hb: 978-1-032-96657-1 : £170

* For full contents and more information, visit: www.routledge.com/9781032966571

Lupeol

Therapeutic Applications in Human Health and Disease



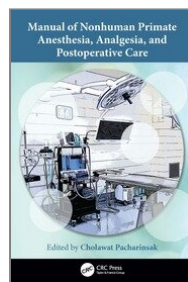
Edited by **Hifzur R Siddique**

This book reviews the therapeutic potential of Lupeol against various diseases, including those affecting skin, cardiovascular, kidneys, liver, and brain. It also examines its physico-chemical properties, chemical modifications, and synthetic analogs. It highlights its antioxidant, anti-inflammatory, and chemopreventive effects, as well as its applications in nanoparticle formulations for cancer treatment. It also discusses its antimicrobial, antiparasitic, and anti-cancer properties, along with its modulation of transcription factors in disease pathways. This book is a useful resource for researchers of pharmaceutical sciences and traditional medicine.

CRC Press
November 2025 : 308pp
Hb: 978-1-032-98695-1 : £160
eBook: 978-1-003-60002-2

* For full contents and more information, visit: www.routledge.com/9781032986951

Manual of Nonhuman Primate Anesthesia, Analgesia, and Postoperative Care



Edited by **Cholawat Pacharinsak**

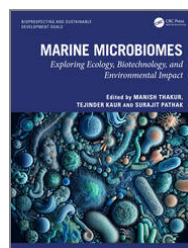
This practical guide to Non-Human Primate (NHP) anesthesia and analgesia in research facilities is the first NHP-specific anesthesia resource. It offers an easy-to-navigate manual, with diagrams, bullet points, color photos, and quick reference tables. With each chapter authored by an experienced veterinary, lab animal or zoo animal practitioner, the book includes topics like troubleshooting anesthetic complications, recognizing pain, postoperative care and behavioral and environmental enrichment. This is an essential reference for veterinarians, technicians, and other research and laboratory personnel working with NHPs.

CRC Press
December 2025 : 240pp
Pb: 978-1-032-50961-7 : £68.99
Hb: 978-1-032-51069-9 : £99.99
eBook: 978-1-003-40095-0

* For full contents and more information, visit: www.routledge.com/9781032509617

Marine Microbiomes

Exploring Ecology, Biotechnology, and Environmental Impact



Edited by **Manish Thakur , Tejinder Kaur , Surajit Pathak**

Series: *Bioprospecting and Sustainable Development Goals*

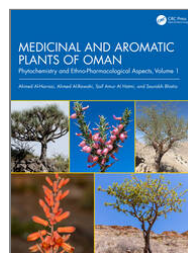
This book provides a comprehensive exploration of the diversity, ecological roles, and biotechnological applications of marine microorganisms. It highlights their significance in biogeochemical cycles, symbiotic relationships, and potential in bioprospecting for functional foods, medicinal compounds, cosmeceuticals, and the development of microbial biosensors. It delves into the impact of human activities on marine microbial communities, covering topics from metal solubilization and pollutant degradation to the development of biosensors. This book caters to researchers and students in marine biology, microbiology, environmental science, and biotechnology.

CRC Press
February 2026 : 234pp
Hb: 978-1-032-83481-8 : £110

* For full contents and more information, visit: www.routledge.com/9781032834818

Medicinal and Aromatic Plants of Oman

Phytochemistry and Ethno-Pharmacological Aspects, Volume 1



Edited by **Ahmed Al-Harrasi , Ahmed Al-Rawahi** University of Nizwa, Oman, **Saif Amur Al Hatmi , Saurabh Bhatia** University of Nizwa, Oman

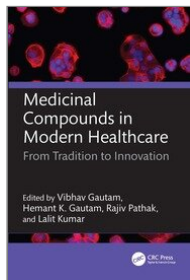
Medicinal plants have received an impetus recently due to revival of attention in natural products in form of herbal medicines demanding convincing knowledge on their phytochemistry, status, cultivation and utilization. Medicinal plants in the Sultanate of Oman have tremendous potential in terms of ethnomedicinal and food applications. However, these treasures of Oman have not been fully explored until recently.

CRC Press
December 2025 : 400pp
Hb: 978-1-032-28146-9 : £125

* For full contents and more information, visit: www.routledge.com/9781032281469

Medicinal Compounds in Modern Healthcare

From Tradition to Innovation



Edited by **Vibhav Gautam**, **Hemant K. Gautam**, **Rajiv Pathak**, **Lalit Kumar**

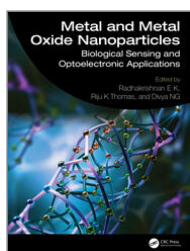
This book reviews the evolution, development, and application of medicinal compounds, beginning with their historical context and advancing to modern innovations. It covers the therapeutic potential of bioactive compounds, the roles of antioxidants and anti-inflammatory agents in chronic disease management, and the use of small molecules in pain and mental health care. The book also covers the immunomodulatory compounds, epigenetic modifiers, and addresses the use of immunomodulatory agents in cancer treatment. It also presents the extraction, profiling, and ADMET evaluation of medicinal compounds. This book is intended for researchers of ethnopharmacology and pharmaceutical sciences.

CRC Press
December 2025 : 240pp
Hb: 978-1-032-96257-3 : £90

* For full contents and more information, visit: www.routledge.com/9781032962573

Metal and Metal Oxide Nanoparticles

Biological Sensing and Optoelectronic Applications



Edited by **Radhakrishnan E K**, **Riju K Thomas**, **Divya NG**

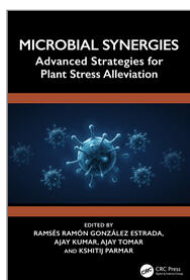
This book presents the synthesis, characterization, as well as biosensing and optoelectronic applications, of metal and metal oxide nanoparticles. It examines surface functionalization and modification techniques for enhancing the performance and functionality of metals and metal oxides. The book also provides an overview of the biocompatibility of surface-functionalized metal and metal oxide nanomaterials and explores the factors influencing their biocompatibility. This book is intended for researchers, scientists, academicians, students, and professionals working in the fields of nanotechnology, biosensors, materials science, biomedical engineering, and optoelectronics.

CRC Press
January 2026 : 272pp
Hb: 978-1-032-64329-8 : £110

* For full contents and more information, visit: www.routledge.com/9781032643298

Microbial Synergies

Advanced Strategies for Plant Stress Alleviation



Edited by **Ramsés Ramón González-Estrada** Technological Institute of Tepic, Mexico, **Ajay Kumar** Amity University, Noida, India, **Ajay Tomar** Amity University, Noida, India, **Kshitij Parmar** Amity University, Noida, India

In the face of escalating climate challenges and increasing biotic pressures, modern agriculture demands innovative, sustainable, and eco-friendly solutions. Microbial Synergies: Advanced Strategies for Plant Stress Alleviation delves into the transformative potential of microbial consortia and microbiome-based technologies in fortifying plants against biotic stresses and boosting crop resilience. This comprehensive volume brings together cutting-edge research and practical insights on how microbial partnerships ranging from arbuscular mycorrhizal fungi (AMF) to diazotrophic bacteria and plant growth-promoting rhizobacteria (PGPR) can be harnessed.

CRC Press
March 2026 : 320pp
Hb: 978-1-041-01144-6 : £105

* For full contents and more information, visit: www.routledge.com/9781041011446

Migrating and Wintering Waterfowl



Edited by **Bart M. Ballard**, **Michael G. Brasher**, **Joseph P. Fleskes**

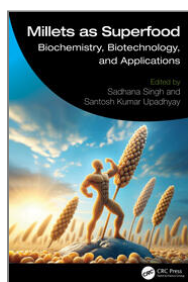
This book explores the remarkable journeys that ducks, geese, and swans undertake each year in search of suitable migratory stopover and wintering habitats. Combining scientific insights with field observations, it offers a detailed understanding of the remarkable adaptations of these birds and the conservation efforts undertaken to ensure their sustainability. It discusses the major migratory routes in North America, such as the Atlantic, Mississippi, Central, and Pacific Flyways. It serves as a thoroughly researched synthesis of our historical and contemporary understanding of waterfowl.

CRC Press
March 2026 : 456pp
Pb: 978-1-041-14229-4 : £66.99
Hb: 978-1-041-12374-3 : £150

* For full contents and more information, visit: www.routledge.com/9781041142294

Millets as Superfood

Biochemistry, Biotechnology, and Applications



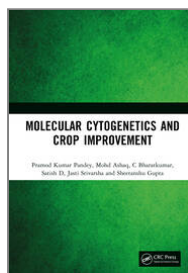
Edited by **Sadhana Singh** U.P. Rajarshi Tandon Open University, Prayagraj, India, **Santosh Kumar Upadhyay** Panjab University, Chandigarh, India

Millets as Superfood: Biochemistry, Biotechnology, and Applications presents a timely and exhaustive analysis of these ancient grains that are quickly evolving as the foods of the future. Traditionally valued for their adaptability and endurance in harsh climates and minimal-input farming, millets are now being recognized worldwide as nutrient-dense, climate-smart superfoods with tremendous potential to enhance food security and sustainable agriculture. This book delivers a unique blend of traditional knowledge and cutting-edge science. It unravels the biochemical richness of millets—vitamins, minerals, antioxidants, and bioactive compounds.

CRC Press
March 2026 : 344pp
Hb: 978-1-041-01151-4 : £105

* For full contents and more information, visit: www.routledge.com/9781041011514

Molecular Cytogenetics and Crop Improvement



Pramod Kumar Pandey, **Mohd Ashaq**, **C Bharatkumar**, **Satish D**, **Jasti Srivarsha**, **Sheetanshu Gupta**

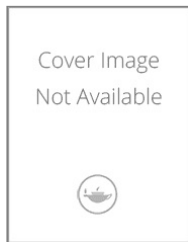
Molecular Cytogenetics for Crop Improvement explores advanced cytogenetic techniques and their role in developing high-yield, stress-resistant crops. Covering genome organization, karyotyping, FISH, gene mapping, cytogenomics, and polyploidy, this volume bridges classical methods with modern molecular tools. Authored by leading scientists, it addresses challenges posed by climate change, pests, and resource scarcity, providing practical methodologies for breeders, researchers, and students committed to enhancing agricultural productivity and sustainability. Print edition not for sale in India.

CRC Press
December 2025 : 430pp
Hb: 978-1-041-20569-2 : £105
eBook: 978-1-003-71777-5

* For full contents and more information, visit: www.routledge.com/9781041205692

Molecular Innovations in Cancer

Genomics, Microbiomics Approaches



Edited by **Surajit Pathak , Antara Banerjee**

This book offers a comprehensive overview of the latest breakthroughs transforming cancer research and treatment. Integrating insights from molecular biology, pharmacology, microbiomics, and artificial intelligence, this volume highlights how cross-disciplinary innovations are redefining oncology.

CRC Press
May 2026 : 288pp
Hb: 978-1-041-08211-8 : £110

* For full contents and more information, visit: www.routledge.com/9781041082118

Nano Drug Delivery Systems for Biomedical Applications



Edited by **Manashjit Gogoi , Sanjukta Patra**

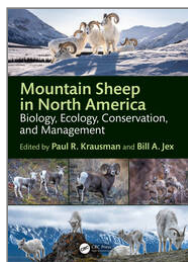
This edited book provides a comprehensive exploration of cutting-edge nanomedicine, bringing together leading research on the design and application of nanoparticles and nanomaterials across a wide spectrum of biomedical fields.

CRC Press
May 2026 : 320pp
Hb: 978-1-032-75232-7 : £110

* For full contents and more information, visit: www.routledge.com/9781032752327

Mountain Sheep in North America

Biology, Ecology, Conservation, and Management



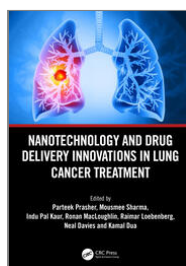
Edited by **Paul R. Krausman** Univ. of Arizona, Tucson, **William Jex**

Mountain Sheep in North America provides a detailed account of bighorn and thimhorn sheep across their geographic range from Alaska and Canada to Mexico. It offers every reader a better understanding of the management of mountain sheep and the numerous challenges including anthropogenic influences, altered habitats, species assemblages, and changing climates. Each chapter is written by internationally recognized experts and practicing mountain sheep managers from agencies and academia. This is an essential text for students of wildlife, early-career and experienced biologists, managers, policy and decision makers, administrators and those with a passion for mountain sheep.

CRC Press
February 2026 : 528pp
Pb: 978-1-032-85558-5 : £49.99
Hb: 978-1-032-84398-8 : £190

* For full contents and more information, visit: www.routledge.com/9781032855585

Nanotechnology and Drug Delivery Innovations in Lung Cancer Treatment



Edited by **PARTEEK PRASHER , MOUSMEE SHARMA , Indu Pal Kaur , Ronan MacLoughlin , Raimar Loebenberg , Neal Davies , Kamal Dua**

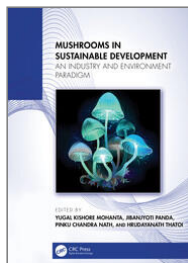
This book examines the role of nanotechnology in transforming the diagnosis, treatment, and management of lung cancer. The initial chapters introduce lung cancer through its epidemiology, pathophysiology, and immunological mechanisms. The subsequent chapters emphasize the role of novel nanoparticles in early detection and imaging of lung cancer.

CRC Press
February 2026 : 328pp
Hb: 978-1-032-97861-1 : £120

* For full contents and more information, visit: www.routledge.com/9781032978611

Mushrooms in Sustainable Development

An Industry and Environment Paradigm



Edited by **Yugal Kishore Mohanta** Uni of Sci and Tech, India, **Jibanjyoti Panda** Dept. of Applied Biology, Univ. of Sci and Tech, Meghalaya, **Pinku Chandra Nath** Dept. of Applied Biology, Univ. of Sci and Tech, Meghalaya, **Hrudayanath Thatoi** Director, Centre for Industrial Biotechnology Research, Odisha

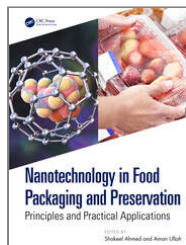
The book highlights the importance of mushrooms and their effective application in the nutraceutical sector, along with their role in promoting environmental resilience. The goal of this book is to bring attention to the gaps in the research on mushrooms as a possible source of superfoods and highly nutritious substances, with the ultimate goal of helping to reach the current sustainable development goals (SDGs). Additionally, it will explore potential applications in industrial development. This book seeks to thoroughly look at the diverse aspects of the design, application, and integration of mushrooms in the agriculture, nutraceuticals, and food sectors.

CRC Press
November 2025 : 298pp
Hb: 978-1-032-91114-4 : £110
eBook: 978-1-003-56157-6

* For full contents and more information, visit: www.routledge.com/9781032911144

Nanotechnology in Food Packaging and Preservation

Principles and Practical Applications



Edited by **Shakeel Ahmed** Government Degree College Mendhar, Jammu and Kashmir, India, **Aman Ullah** University of Alberta Edmonton

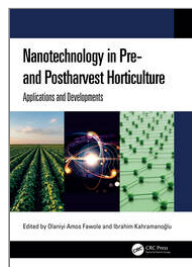
This book provides an overview of the use of nanotechnology in food preservation, food packaging, and the development of new preservation methods. The chapters focus on applications of nanotechnology in active food packaging, modified atmosphere packaging, and the development of nanocomposite films and coatings for food packaging. The book further explores the application of nanosensors and biosensors for real-time monitoring of food quality and safety. It also provides insightful case studies showcasing successful nanotechnology applications in the food industry. This book is a valuable resource for researchers, practitioners, and policymakers in the food industry.

CRC Press
November 2025 : 364pp
Hb: 978-1-032-67740-8 : £115
eBook: 978-1-032-67742-2

* For full contents and more information, visit: www.routledge.com/9781032677408

Nanotechnology in Pre- and Postharvest Horticulture

Applications and Developments



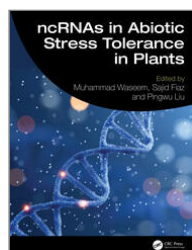
Edited by **Olaniyi Amos Fawole , Ibrahim Kahramanoglu** European University of Lefke, Cyprus

Nanotechnology in Pre- and Postharvest Horticulture: Applications and Developments provides a comprehensive exploration of the dynamic intersection between nanotechnology and horticulture, showcasing cutting-edge research and practical applications. Across its four sections and sixteen chapters, readers will discover how engineered nanomaterials, nanosensors, smart delivery systems, and nano-enabled packaging are revolutionizing horticultural practices—from pre-harvest strategies to postharvest preservation.

CRC Press
February 2026 : 432pp
Hb: 978-1-032-85302-4 : £105

* For full contents and more information, visit: www.routledge.com/9781032853024

ncRNAs in Abiotic Stress Tolerance in Plants



Edited by **Muhammad Waseem , Sajid Fiaz , Pingwu Liu**

ncRNAs in Plant Stress Tolerance offers a timely and comprehensive examination of non-coding RNAs (ncRNAs) and their pivotal role in regulating plant responses to biotic and abiotic stresses. As research continues to uncover the functional versatility of small RNAs, long non-coding RNAs, and circular RNAs in plant genomes, this volume provides a focused and integrative perspective on how ncRNAs orchestrate gene expression under stress conditions, including drought, salinity, temperature extremes, pathogen attack, and nutrient deficiencies.

CRC Press
March 2026 : 280pp
Hb: 978-1-032-95114-0 : £145

* For full contents and more information, visit: www.routledge.com/9781032951140

Neglected Parasitic Zoonoses of Helminth Origin



Edited by **Snehil Gupta , Arun Kumar De , Perumal Ponraj , Debasis Bhattacharya**

This book provides an in-depth analysis of neglected parasitic zoonoses of helminthic origin, offering a comprehensive understanding of their epidemiology, pathology, and implications for public health. With a focus on the One Health perspective, it delves into the intricate interactions between animals, humans, and the environment, emphasizing the critical role of interdisciplinary collaboration in these diseases. The book covers the life cycles, transmission dynamics, and potential control measures of neglected zoonoses of nematode, cestode, and trematode origin. This book is intended for researchers, scientists, epidemiologists, veterinarians, and healthcare professionals.

CRC Press
December 2025 : 436pp
Hb: 978-1-032-67080-5 : £120
eBook: 978-1-032-69749-9

* For full contents and more information, visit: www.routledge.com/9781032670805

Neglected Viruses

Edited by **Alaa Aljabali**



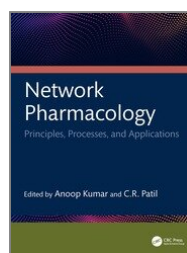
While the world focuses on the pandemics of the day, a group of dangerous viruses remains dangerously underexplored. These pathogens, capable of causing severe neurological damage, hemorrhagic fevers, and devastating outbreaks, represent a critical gap in our scientific and public health defenses. This volume, drawing on the expertise of top researchers, emerges as a vital response to this neglect. It consolidates the latest research into a single, coherent resource, offering a comprehensive analysis of these viruses from their molecular structures and epidemiological patterns to their clinical management and the societal factors that allow them to persist.

CRC Press
April 2026 : 312pp
Hb: 978-1-041-00016-7 : £220

* For full contents and more information, visit: www.routledge.com/9781041000167

Network Pharmacology

Principles, Processes, and Applications



Edited by **Anoop Kumar , C.R. Patil**

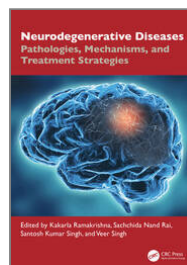
This book provides a comprehensive overview of network pharmacology, covering principles, methodologies, and applications in drug discovery, pharmacovigilance, and precision medicine. It guides readers through step-by-step procedures for creating networks, explores the intersection with quantitative systems pharmacology, and discusses databases and software tools. The text emphasizes the role of machine learning and AI, highlights applications in drug discovery and repurposing, and addresses translatability issues for clinical practice, making it valuable for professionals, researchers, and advanced students in pharmaceutical sciences.

CRC Press
November 2025 : 318pp
Hb: 978-1-032-81700-2 : £160
eBook: 978-1-003-50096-4

* For full contents and more information, visit: www.routledge.com/9781032817002

Neurodegenerative Diseases

Pathologies, Mechanisms, and Treatment Strategies



Edited by **Kakarla Ramakrishna , Sachchida Nand Rai , Santosh Kumar Singh , Veer Singh**

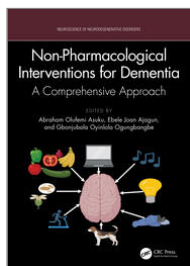
This book delves into the complexities of brain health, aging, and neurodegeneration, exploring the varied roles that genetic, environmental, and lifestyle factors play in shaping brain health. It examines their contributions to the development and progression of neurodegenerative diseases.

CRC Press
February 2026 : 208pp
Hb: 978-1-032-87024-3 : £110

* For full contents and more information, visit: www.routledge.com/9781032870243

Non-Pharmacological Interventions for Dementia

A Comprehensive Approach



Edited by **Abraham Olufemi Asuku, Ebele Joan Ajagun, Gbonjubola Oyinlola Ogungbange**

Series: *Neuroscience of Neurodegenerative Disorders*

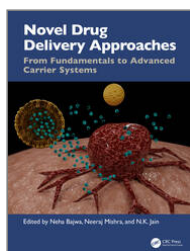
As our global population ages, dementia emerges as one of healthcare's most pressing challenges. But what if the most powerful solutions lie beyond traditional medication? Non-pharmacological Interventions for Dementia: A Comprehensive Approach opens new doors in dementia care, revealing evidence-based strategies that can transform lives.

CRC Press
November 2025 : 248pp
Hb: 978-1-032-84668-2 : £145
eBook: 978-1-003-51603-3

* For full contents and more information, visit: www.routledge.com/9781032846682

Novel Drug Delivery Approaches

From Fundamentals to Advanced Carrier Systems



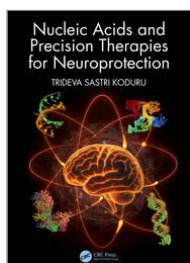
Edited by **Neha Bajwa, Neeraj Mishra, N.K. Jain**

This book explores the challenges and opportunities in drug delivery, covering foundational concepts and cutting-edge technologies. It examines diverse materials and technologies driving advancements in drug delivery, with a focus on specific applications like metallic nanoparticles and nucleic acid-based therapeutics. Special focus is placed on specific applications such as metallic nanoparticles and nucleic acid-based therapeutic delivery systems. It addresses complexities in targeted intracellular drug delivery, innovative approaches in brain drug delivery, and transdermal drug therapy. This book is for researchers of biomedical sciences, pharmaceutical sciences, and biotechnology.

CRC Press
February 2026 : 232pp
Hb: 978-1-032-83275-3 : £105

* For full contents and more information, visit: www.routledge.com/9781032832753

Nucleic Acids and Precision Therapies for Neuroprotection



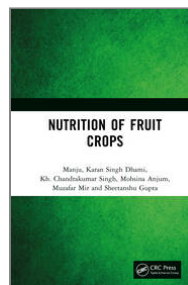
Trideva Sastri Koduru

Neurodegenerative disorders are rising worldwide, yet most approved drugs merely temper symptoms. Nucleic Acids and Precision Therapies for Neuroprotection addresses this therapeutic shortfall directly, tracing how antisense oligonucleotides, RNA interference agents, mRNA platforms, aptamers, and CRISPR-class editors are redefining what "treatable" means for Alzheimer's, Parkinson's, ALS, Huntington's disease, and Multiple Sclerosis.

CRC Press
February 2026 : 435pp
Hb: 978-1-032-68673-8 : £190

* For full contents and more information, visit: www.routledge.com/9781032686738

Nutrition of Fruit Crops



Edited by **Manju, Karan Singh Dhami, Kh Chandrakumar Singh, Mohsina Anjum, Muzafar Mir, Sheetanshu Gupta**

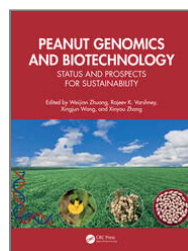
As sustainable agriculture and food security take center stage, Nutrition of Fruit Crops provides a timely resource on the principles and practices of nutrient management in fruit production. This text bridges foundational plant nutrition concepts with practical applications such as fertigation, integrated nutrient management, and diagnostic tools like DRIS. The book offers clear guidance on how proper nutrition can enhance fruit yield, quality, and long-term soil health in the face of global agricultural challenges. Print edition not for sale in India.

CRC Press
November 2025 : 362pp
Hb: 978-1-041-20558-6 : £105
eBook: 978-1-003-71744-7

* For full contents and more information, visit: www.routledge.com/9781041205586

Peanut Genomics and Biotechnology

Status and Prospects for Sustainability



Edited by **Weijian Zhuang, Rajeev K. Varshney, Xingjun Wang, Xinyou Zhang**

In a world where food security and sustainable agriculture face unprecedented challenges, the cultivated peanut emerges as an important food crop. Representing an essential quality oil and food legume crop grown across over 100 countries, peanuts provide vital nutrition and economic stability. Peanut Genomics and Biotechnology: Status and Prospects for Sustainability delves into the fascinating journey of peanuts, from their evolutionary origins as a natural tetraploid hybrid to their critical roles in addressing global food and oil demands amidst changing climates.

CRC Press
December 2025 : 356pp
Hb: 978-1-032-42049-3 : £180
eBook: 978-1-003-36098-8

* For full contents and more information, visit: www.routledge.com/9781032420493

Pharmaceutical and Phytochemical Properties of Securidaca longipedunculata Fresen



Edited by **Douglas Ongerich Ochora, Godwin Upoki Anywar**

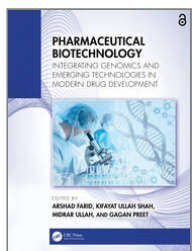
This book presents the taxonomy, ethnobotany, pharmacological properties, and therapeutic potential of *Securidaca longipedunculata*. The introductory chapter highlights its significance in traditional medicine and contemporary scientific research.

CRC Press
April 2026 : 184pp
Hb: 978-1-032-89290-0 : £110

* For full contents and more information, visit: www.routledge.com/9781032892900

Pharmaceutical Biotechnology

Integrating Genomics and Emerging Technologies in Modern Drug Development



Edited by **Arshad Farid**, **Kifayat Ullah Shah**, **Midrar Ullah**, **Gagan Preet**

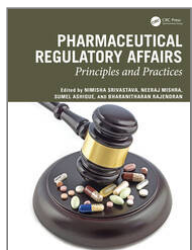
This book examines the role of pharmaceutical biotechnology in modern drug development, focusing on advancements in genomics, biopharmaceuticals, and personalized medicine. It explores key molecular and genomic technologies like next-generation sequencing, CRISPR, gene editing, and synthetic biology in drug design. The book highlights pharmacogenomics as a bridge between genomics and drug response, along with the role of bioinformatics in target identification and biomarker discovery. It discusses the design and therapeutic applications of monoclonal antibodies and breakthroughs in cell and gene therapies. It is intended for researchers and students of pharmaceutical sciences.

CRC Press
November 2025 : 236pp
Hb: 978-1-041-06142-7 : £120
eBook: 978-1-003-63397-6

* For full contents and more information, visit: www.routledge.com/9781041061427

Pharmaceutical Regulatory Affairs

Principles and Practices



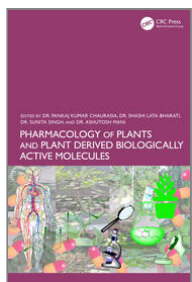
Edited by **Nimisha Srivastava**, **Neeraj Mishra**, **Sumel Ashique**, **Bharanitharan Rajendran**

This book is a comprehensive guide to drug development and regulatory affairs, covering the lifecycle from initial discovery to market approval. It explores the evolution of global trade agreements and their impact on pharmaceuticals, pharmaceutical patents, and intellectual property rights. The importance of SUPAC guidelines and WHO's guidelines on technology development and transfer are discussed. The book discusses regulatory frameworks and the international regulatory landscape for medical devices. Further, it covers clinical testing guidelines, bioethics, and pharmacovigilance, making it valuable for professionals, researchers, and students in pharmaceutical sciences.

CRC Press
December 2025 : 341pp
Hb: 978-1-032-94487-6 : £140

* For full contents and more information, visit: www.routledge.com/9781032944876

Pharmacology of Plants and Plant Derived Biologically Active Molecules



Edited by **Pankaj Kumar Chaurasia** L.S. College, B.R. Ambedkar Bihar University, Bihar, **Shashi Lata Bharati** Department of Chemistry, NERIST, India, **Sunita Singh** Navyug Kanya Mahavidyalaya, University of Lucknow, UP, **Ashutosh Mani** Motilal Nehru National Institute of Technology, India

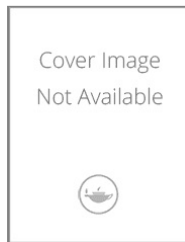
This book delves into the interesting world of phytochemicals and their therapeutic applications. It explores the journey from traditional medicine practices such as Ayurveda to modern scientific understanding, providing a comprehensive analyses of the chemistry, pharmacology, and therapeutic potential of plant-derived compounds. The detailed discussions on recent advancements and future directions in the field of Pharmacology of Plants including novel extraction techniques, structure-activity relationship studies, and cutting-edge applications in various disease is the USP of this book setting apart from the available books.

CRC Press
November 2025 : 464pp
Hb: 978-1-032-90804-5 : £140
eBook: 978-1-003-55988-7

* For full contents and more information, visit: www.routledge.com/9781032908045

Phenolic Compounds from Medicinal Plants

Pharmaceutical and Health Benefits



Edited by **Rakesh Kumar Bachheti** Addis Ababa Science and Technology University, Ethiopia, **Archana Bachheti** Graphic Era University, India, **Azamal Husen** Wolaita Sodo University, Ethiopia

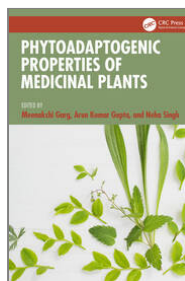
Series: *Exploring Medicinal Plants*

Medicinal plants have been trusted for centuries as natural sources of healing. Among their many bioactive constituents, phenolic compounds stand out for their remarkable diversity and wide-ranging health benefits. *Phenolic Compounds from Medicinal Plants: Pharmaceutical and Health Benefits* illustrates the science of these compounds, showing how they connect traditional plant wisdom with modern pharmaceutical research.

CRC Press
May 2026 : 352pp
Hb: 978-1-032-85401-4 : £170

* For full contents and more information, visit: www.routledge.com/9781032854014

Phytoadaptogenic Properties of Medicinal Plants



Edited by **Meenakshi Garg** Bhaskaracharya College of Applied Sciences, Univ. of Delhi, **Arun Kumar Gupta**, **Neha Singh** Bhaskaracharya College of Applied Sciences, University of Delhi

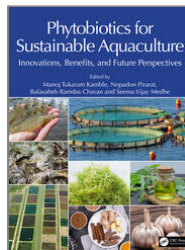
Featuring traditional knowledge, the book *Phytoadaptogenic Properties of Medicinal Plants* offers an insight into diverse medicinal plants with their inherent phytotherapeutic characteristics. Since, the prehistoric era, botanicals have been enlisted at the uppermost ladder in the survival of human existence. Though modern medicinal systems remain vital, at times of challenges or pandemics botanicals continue to serve as front liners, supporting people's health and well-being by regulating the body's inherent five defense systems such as angiogenesis, regeneration, DNA and epigenetics, microbiome, and immune system.

CRC Press
November 2025 : 432pp
Hb: 978-1-032-86396-2 : £110
eBook: 978-1-003-52732-9

* For full contents and more information, visit: www.routledge.com/9781032863962

Phytobiotics for Sustainable Aquaculture

Innovations, Benefits, and Future Perspectives



Edited by **Manoj Tukaram Kamble** Chulalongkorn Univ., TH, **Nopadon Pirarat** Chulalongkorn Univ., TH, **Balasaheb Ramdas Chavan** Coll. of Fisheries, IN, **Seema Vijay Medhe** ASEAN Inst. for Health Development, TH

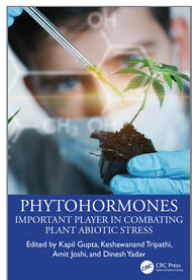
Phytobiotics for Sustainable Aquaculture: Innovations, Benefits, and Future Perspectives is a comprehensive reference on plant-derived compounds, including herbs, spices, and micro- and macroalgae, as tools for disease management, nutrition, welfare, and sustainability in farmed fish and shrimp. The book covers molecular mechanisms and bioactive properties; demonstrates applications against bacterial, viral, fungal, and parasitic diseases; and evaluates roles in immune modulation, stress mitigation, growth, and reproduction.

CRC Press
March 2026 : 296pp
Hb: 978-1-041-08775-5 : £105

* For full contents and more information, visit: www.routledge.com/9781041087755

Phytohormones

Important Player in Combating Plant Abiotic Stress



Edited by **Kapil Gupta** Department of Biotechnology, Siddharth University, India, **Keshawanand Tripathi**, **Amit Joshi**, **Dinesh Yadav**

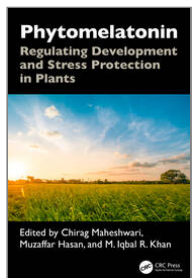
Phytohormones: Important player in combating plant abiotic stress provides an updated understanding of plant hormone biology, signaling, cross-talk among different plant hormones under multiple environmental stresses along with latest biotechnological approaches, functional genomics and gene editing examples of phytohormonal signaling to obtain stress tolerance in plants. Aimed at a diverse readership, including plant and algal biotechnology researchers, stress biologists, scientists, educators, and students, the book serves as a valuable resource for those interested in plant physiology, molecular biology, and biotechnology.

CRC Press
November 2025 : 340pp
Hb: 978-1-032-47868-5 : £110
eBook: 978-1-003-38631-5

* For full contents and more information, visit: www.routledge.com/9781032478685

Phytomelatonin

Regulating Development and Stress Protection in Plants



Edited by **Chirag Maheshwari**, **Muzaffar Hasan**, **M. Iqbal R. Khan** Department of Botany, Jamia Hamdard, India

Melatonin, once considered confined to animal systems, has now emerged as a vital bioactive molecule in plants—called phytomelatonin. Over the past two decades, it has gained recognition for its regulatory roles in plant growth, development, and defense. This book brings together the latest research on how phytomelatonin functions as a multitasking molecule, linking plant metabolism, hormonal signaling, and environmental response mechanisms. The book offers a unique synthesis of molecular, physiological, and applied perspectives, making it the most comprehensive resource available on phytomelatonin's role in plant science.

CRC Press
November 2025 : 275pp
Hb: 978-1-032-86369-6 : £110
eBook: 978-1-003-52763-3

* For full contents and more information, visit: www.routledge.com/9781032863696

Phytopathogenic Bacteria

An Imminent Threat to Sustainable Food Production



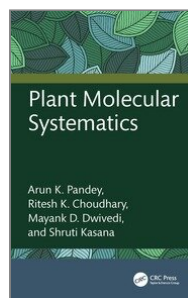
BS Thind Punjab Agricultural University (Retired)

The field of Plant Bacteriology/Phytopathology is rapidly advancing and changing due to recent advances in genomics and molecular plant bacteriology as well as global spread of bacterial plant diseases and emergence of new bacterial plant pathogens. So, there is a need to integrate understanding of bacterial taxonomy, genomics and basic plant bacteriology that reflects state of the art knowledge about plant-disease mechanisms. In the present book, first eight chapters contain general information about bacteria, classification of plant pathogenic bacteria and molecular mechanisms of virulence and pathogenesis of phytopathogenic bacteria.

CRC Press
April 2026 : 528pp
Hb: 978-1-041-15914-8 : £150

* For full contents and more information, visit: www.routledge.com/9781041159148

Plant Molecular Systematics



Edited by **Arun K. Pandey**, **Ritesh K. Choudhary** Scientist-E, Agharkar Research Institute, Maharashtra, **Mayank D. Dwivedi** Dept. of Botanical and Environ. Sci, Guru Nanak Dev Univ., Amritsar, **Shruti Kasana** Department of Botany, University of Delhi, New Delhi

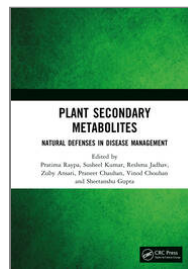
Plant molecular systematics is a discipline that uses molecular data to unravel the evolutionary relationships among plant species. This book serves as an introduction to the core principles of plant molecular systematics, presenting the fundamentals in a concise and coherent way. It equips students with both foundational knowledge and insights from the latest research. The book details how molecular data can be leveraged to build phylogenetic trees, which depict evolutionary relationships among plant species. Structured into 18 chapters, the book explores various aspects of molecular systematics in an engaging and stimulating manner.

CRC Press
December 2025 : 242pp
Hb: 978-1-498-78867-0 : £105
eBook: 978-1-315-15434-3

* For full contents and more information, visit: www.routledge.com/9781498788670

Plant Secondary Metabolites

Natural Defenses in Disease Management



Edited by **Pratima Raypa**, **Susheel Kumar**, **Reshma Jadhav**, **Zuby Ansari**, **Praneet Chauhan**, **Vinod Chouhan**, **Sheetanshu Gupta**

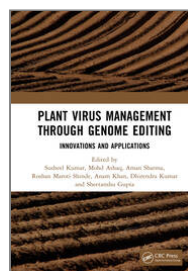
This volume presents themes of plant-derived compounds that play a vital role in natural defense mechanisms. Covering their biosynthesis, ecological functions, and practical applications in agriculture, medicine, and biotechnology, this book bridges fundamental plant biochemistry with applied disease management strategies. With a focus on sustainable approaches, it offers insights into how these natural compounds can replace or complement synthetic chemicals in pest and disease control. Print edition not for sale in India.

CRC Press
November 2025 : 458pp
Hb: 978-1-041-20566-1 : £105
eBook: 978-1-003-71745-4

* For full contents and more information, visit: www.routledge.com/9781041205661

Plant Virus Management through Genome Editing

Innovations and Applications



Edited by **Susheel Kumar**, **Mohd Ashaq**, **Aman Sharma**, **Roshan Maroti Shinde**, **Anam Khan**, **Dhirendra Kumar**, **Sheetanshu Gupta**

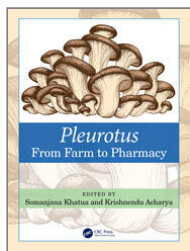
This volume explores how genome editing tools such as CRISPR-Cas, TALENs, and ZFNs are revolutionizing plant virus management. Plant Virus Management Through Genome Editing: Innovations and Applications presents practical approaches to enhancing plant immunity and developing virus-resistant crops. With case studies, molecular insights, and a strong emphasis on sustainability, this book serves as an essential resource for researchers, students, and professionals working in plant sciences and agriculture. Print edition not for sale in India

CRC Press
November 2025 : 502pp
Hb: 978-1-041-20562-3 : £105
eBook: 978-1-003-71774-4

* For full contents and more information, visit: www.routledge.com/9781041205623

Pleurotus

From Farm to Pharmacy



Edited by **Somanjana Khatua**, **Krishnendu Acharya**

This book examines *Pleurotus* mushrooms, covering their biology, cultivation techniques, and nutritional benefits. It discusses their classification, anatomy, and life cycle, providing practical guidance for cultivation. Additionally, it explores their rich nutritional content and potential health benefits, including their role in combating chronic diseases and serving as natural antimicrobial agents. The chapters also review the anti-inflammatory, anticancer, hepatoprotective and antidiabetic effects of *Pleurotus* mushrooms. It also evaluates the global market for oyster mushrooms. This book is for researchers and students of mycology and nutrition.

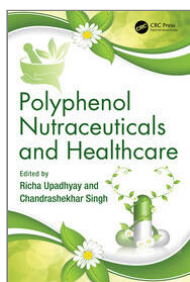
CRC Press

December 2025 : 224pp

Hb: 978-1-032-86449-5 : £120

* For full contents and more information, visit: www.routledge.com/9781032864495

Polyphenol Nutraceuticals and Healthcare



Edited by **Richa Upadhyay** Mihir Bhoj PG College, India, **Chandrashekar Singh** Banaras Hindu University, India

In a world increasingly focused on natural, plant-based wellness, polyphenols—potent antioxidant compounds derived from Foods, Fruits, Herbs, and Medicinal Plants—are transforming the landscape of modern healthcare and nutrition. This comprehensive volume presents a rich, evidence-based exploration into the science and application of polyphenols in the nutraceutical industry. Whether you're advancing academic research or pioneering next-generation nutraceuticals, *Polyphenol Nutraceuticals and Healthcare* provides the knowledge, tools, and vision needed to innovate with scientific integrity and ecological responsibility.

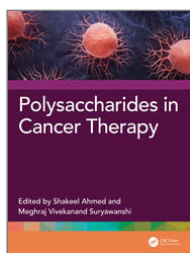
CRC Press

January 2026 : 342pp

Hb: 978-1-032-96198-9 : £105

* For full contents and more information, visit: www.routledge.com/9781032961989

Polysaccharides in Cancer Therapy



Edited by **Shakeel Ahmed** Government Degree College Mendhar, Jammu and Kashmir, India, **Meghraj Vivekanand Suryavanshi**

This book provides a thorough overview of recent scientific discoveries and clinical applications of polysaccharides in cancer therapy. It covers various aspects, from the molecular structures and immunomodulatory properties of polysaccharides to their potential as potent anticancer agents. It delves into pharmacokinetics and pharmacodynamics properties, highlighting their impact on cancer cells and their ability to enhance traditional therapies. It discusses emerging fields like nanotechnology for drug delivery and theranostics, showcasing practical applications through case studies. This book is intended for researchers in the field of cancer, biomedical sciences and pharmacology.

CRC Press

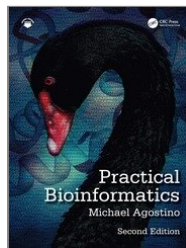
January 2026 : 304pp

Hb: 978-1-032-80509-2 : £160

* For full contents and more information, visit: www.routledge.com/9781032805092

2ND EDITION

Practical Bioinformatics



Michael Agostino Merrimack College, USA and Pfizer Inc., USA

Practical Bioinformatics is designed as an introduction to bioinformatics sequence analysis. There is heavy emphasis on the steps required to perform bioinformatics analysis to answer biological questions. The book contains many exercises such as database searches, protein analysis, and data interpretation to complement the straightforward and practical topics. The chapters are focused on DNA, RNA, and protein sequence analysis—frequently performed subsets of the field of bioinformatics—taking the reader through the commonly asked question “what can I learn about this sequence?”

Garland Science

January 2026 : 354pp

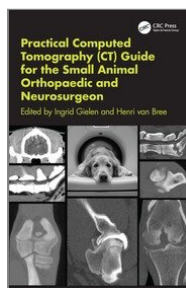
Pb: 978-1-032-61062-7 : £49.99

Hb: 978-1-032-61887-6 : £125

eBook: 978-1-032-61888-3

* For full contents and more information, visit: www.routledge.com/9781032610627

Practical Computed Tomography (CT) Guide for the Small Animal Orthopaedic and Neurosurgeon



Edited by **Ingrid Gielen** Ghent University, Merelbeke, Belgium, **Henri van Bree** Ghent University, Merelbeke, Belgium

More clinics and large practices are investing in Computed Tomography (CT) equipment, meaning veterinary surgeons are often confronted with unfamiliar technical challenges like positioning and handling of the equipment. Even after obtaining the CT images, the interpretation can often be confusing. Split into two parts, looking first at the principles of CT and then drilling down to specific procedures by body region, this book is packed with over 200 high quality images, practical protocols and easy-to-locate information. It provides much needed support in choosing the right equipment, providing the exact protocol and coming to a final diagnosis.

CRC Press

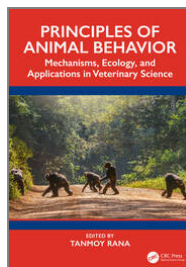
February 2026 : 370pp

Hb: 978-1-482-22588-4 : £130

* For full contents and more information, visit: www.routledge.com/9781482225884

Principles of Animal Behavior

Mechanisms, Ecology, and Applications in Veterinary Science



Edited by **Tanmoy Rana**

This textbook on animal behavior is designed for advanced undergraduate and postgraduate students in veterinary science, animal science, and zoology and offers an integrated view of behavioral biology, bridging classical ethology, cognitive neuroscience, and ecological adaptation with practical veterinary applications. The initial chapters provide foundational aspects such as orientation, motivation, and communication before moving into core themes of learned behavior, cognition, social dynamics, reproduction, and courtship.

CRC Press

January 2026 : 255pp

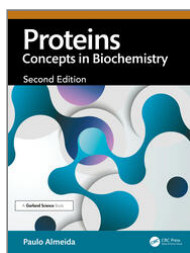
Hb: 978-1-041-19145-2 : £125

* For full contents and more information, visit: www.routledge.com/9781041191452

2ND EDITION

Proteins

Concepts in Biochemistry



Paulo Almeida

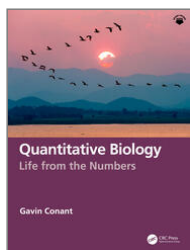
Proteins: Concepts in Biochemistry teaches the biochemical concepts underlying protein structure, evolution, stability, folding, and enzyme kinetics, and explains how interactions in macromolecular structures determine protein function. Intended for a one-semester course in biochemistry or biophysical chemistry with a focus on proteins, this textbook emphasizes the logic underlying biophysical chemical principles.

Garland Science
November 2025 : 410pp
Pb: 978-1-032-51840-4 : £69.99
Hb: 978-1-032-51842-8 : £185
eBook: 978-1-003-40417-0

* For full contents and more information, visit: www.routledge.com/9781032518404

Quantitative Biology

Life from the Numbers



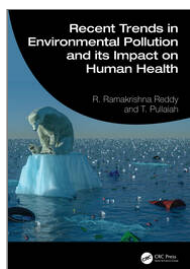
Gavin Conant

Biology has become a data-driven science, with large-scale datasets driving fields from population genomics to ecology. Practicing biologists have no choice but to use computational approaches, statistics and modeling in their research. This book provides students whose background is in biology with an introduction to modeling biological systems using mathematical, computational and statistical tools. It is based around a series of hands-on analyses conducted with open-source tools that allow the students to discover for themselves emergent properties of biological systems that are not evident without using model-based approaches.

CRC Press
February 2026 : 306pp
Pb: 978-1-041-17015-0 : £49.99
Hb: 978-1-041-17016-7 : £125

* For full contents and more information, visit: www.routledge.com/9781041170150

Recent Trends in Environmental Pollution and its Impact on Human Health



R. Ramakrishna Reddy Sri Krishnadevaraya University, India, **T. Pullaiah** Sri Krishnadevaraya University, India

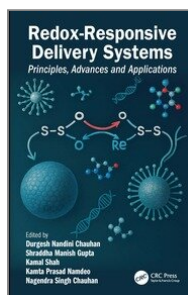
Pollution refers to the negative impact of human activity on the environment, posing risks to human health, ecosystems, and economic growth. Environmental sciences, an interdisciplinary field, investigates the influence of humans on the environment and solutions to solve problems. The present book encompassing ten chapters covers the impacts of aerosol, and bioaerosol pollution, ozone and black carbon, micro plastics on marine life, rare earth elements, the environmental impact of energy production, heavy metal pollution, Wastewater Treatment, and the influence of Biogenic Volatile Organic Compounds on health and environment in a single overarching scientific theme.

CRC Press
December 2025 : 284pp
Hb: 978-1-041-02209-1 : £105

* For full contents and more information, visit: www.routledge.com/9781041022091

Redox-Responsive Delivery Systems

Principles, Advances and Applications



Edited by **Durgesh Nandini Chauhan** Columbia College of Pharmacy, Chhattisgarh, India, **Shradha Manish Gupta** UPES Dehradun, India, **Kamal Shah** GLA University, Uttar Pradesh, India, **Kamta Prasad Namdeo** Guru Ghasidas Vishwavidyalaya, Chhattisgarh, **Nagendra Singh Chauhan** Drugs Testing Laboratory Avam Anusandhan Kendra, Raipur

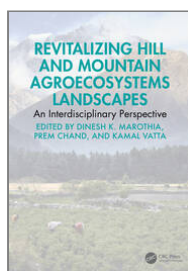
In the era of precision medicine, the demand for smart and targeted drug delivery technologies is greater than ever. Redox-responsive delivery systems represent a cutting-edge approach that exploits the unique oxidative and reductive environments of diseased tissues to achieve site-specific therapeutic action. This comprehensive volume brings together foundational knowledge, recent innovations, and application-specific insights into redox-sensitive systems used for drug, gene, and vaccine delivery. The book covers a wide range of carriers—including polymersomes, liposomes, nanoparticles, micelles, prodrugs, and dendrimers.

CRC Press
March 2026 : 408pp
Hb: 978-1-041-03849-8 : £195

* For full contents and more information, visit: www.routledge.com/9781041038498

Revitalizing Hill and Mountain Agroecosystems Landscapes

An Interdisciplinary Perspective



Edited by **Dinesh K. Marothia** Indian Society of Agricultural Economics, Maharashtra, **Prem Chand** ICAR-NIAEPR, New Delhi, **Kamal Vatta** Indian Society of Agricultural Economics, Mumbai

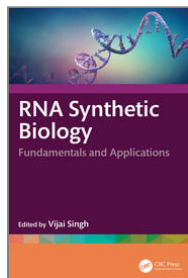
Hills and mountains play a critical role in sustaining global biodiversity, freshwater resources, cultural heritage, and ecological balance. Found in over 80% of the world's countries, these landscapes offer indispensable services not only to their immediate inhabitants but also to populations far beyond. Nowhere is this more evident than in South and Southeast Asia—regions home to some of the planet's most diverse mountain ecosystems and cultures. Yet these valuable ecosystems are increasingly at risk due to climate change, socio-economic pressures, and unsustainable land-use practices.

CRC Press
March 2026 : 376pp
Hb: 978-1-041-17285-7 : £105

* For full contents and more information, visit: www.routledge.com/9781041172857

RNA Synthetic Biology

Fundamentals and Applications



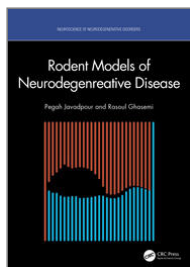
Edited by **Vijai Singh**

This reference book discusses the fundamental principles and applications of RNA synthetic biology. The initial section of the book provides on fundamental concepts including RNA synthetic biology, the use computational biology tools for RNA design, the SELEX (Systematic Evolution of Ligands by EXponential enrichment) method, artificial intelligence for design and prediction of RNA circuits, RNA structure prediction and folding algorithms, non-coding RNA, and in vitro selection of functional RNA. While this book also highlights the practical applications of RNA synthetic Biology.

CRC Press
March 2026 : 304pp
Hb: 978-1-032-66080-6 : £89.99

* For full contents and more information, visit: www.routledge.com/9781032660806

Rodent Models of Neurodegenerative Disease



Edited by **Pegah Javadpour, Sahar Askari, Rasoul Ghasemi**

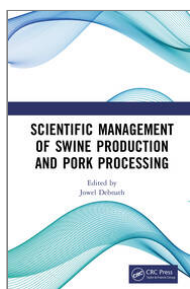
Series: *Neuroscience of Neurodegenerative Disorders*

With rising prevalence in aging populations worldwide, neurodegenerative disorders place immense burdens on patients, families, and healthcare systems. This comprehensive volume, *Rodent Models of Neurodegenerative Diseases*, provides an in-depth examination of the utility, strengths, and limitations of rodent models in unraveling the molecular, cellular, and behavioral aspects of neurodegeneration.

CRC Press
March 2026 : 168pp
Hb: 978-1-032-66049-3 : £140

* For full contents and more information, visit: www.routledge.com/9781032660493

Scientific Management of Swine Production and Pork Processing



Edited by **Jowel Debnath**

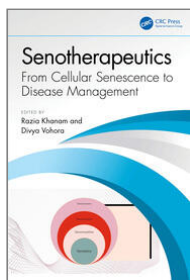
This book offers crucial reference on swine production and management covering genetic resources, breeding techniques, nutrition, reproduction, disease control, and pork processing. Includes indigenous breeds, management practices, and value-added product development for industry professionals. This title has been co-published with Narendra Publishing House. T&F does not sell or distribute the print and electronic editions in India, Sri Lanka, Nepal, Bangladesh, Pakistan, and Bhutan.

CRC Press
February 2026 : 220pp
Hb: 978-1-041-24716-6 : £105

* For full contents and more information, visit: www.routledge.com/9781041247166

Senotherapeutics

From Basics to Clinics



Edited by **Razia Khanam, DIVYA VOHORA**

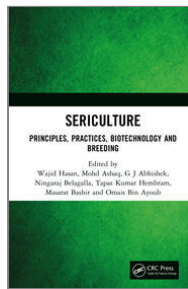
This book provides a comprehensive overview of the emerging field of senotherapeutics and its potential applications in various diseases. The initial chapter elucidates the central role of Cellular Senescence and the Senescence-Associated Secretory Phenotype (SASP) in the intricate balance between health and disease.

CRC Press
April 2026 : 288pp
Hb: 978-1-032-79808-0 : £110

* For full contents and more information, visit: www.routledge.com/9781032798080

Sericulture

Principles, Practices, Biotechnology and Breeding



Edited by **Wajid Hasan, Mohd Ashaq, G J Abhishek, Ningaraj Belagalla, Tapas Kumar Hembram, Masarat Bashir, Omais Bin Ayoub**

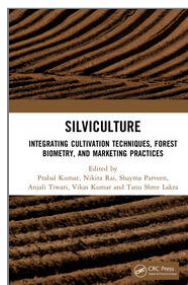
Sericulture: Principles, Practices, Biotechnology and breeding synthesizes traditional and modern approaches to silk production. Covering mulberry cultivation, silkworm rearing, disease management, silk processing, biotechnology applications, and breeding strategies, it serves as an authoritative resource for students, researchers, and practitioners. Authored by leading experts, the book bridges historical practices with emerging innovations, ensuring sericulture's sustainability and global relevance. Print edition not for sale in India

CRC Press
November 2025 : 412pp
Hb: 978-1-041-20564-7 : £105
eBook: 978-1-003-71776-8

* For full contents and more information, visit: www.routledge.com/9781041205647

Silviculture

Integrating Cultivation Techniques, Forest Biometry, and Marketing Practices



Edited by **Prabal Kumar, Nikita Rai, Shayma Parveen, Anjali Tiwari, Vikas Kumar, Tanu Shree Lakra**

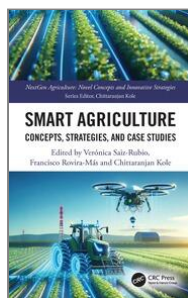
This book explores silviculture, combining foundational knowledge with modern tools and techniques. It covers forest cultivation systems, biometry, remote sensing, biodiversity conservation, and market practices for forest products. *Silviculture: Integrating Cultivation Techniques, Forest Biometry, and Marketing Practices* is an essential guide for forestry students, researchers, and practitioners seeking sustainable and economically viable forest management strategies in the face of climate change and global ecological challenges. Print edition not for sale in India

CRC Press
November 2025 : 382pp
Hb: 978-1-041-20560-9 : £105
eBook: 978-1-003-71775-1

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Smart Agriculture

Concepts, Strategies, and Case Studies



Edited by **Veronica Saiz-Rubio, Francisco Rovira-Mas, Chittaranjan Kole**

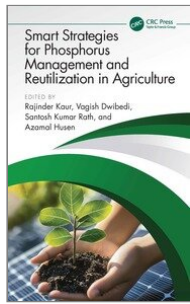
Series: *Nextgen Agriculture*

Smart Agriculture: Concepts, Strategies, and Case Studies showcases improvements in agricultural technology, bringing together work from leading experts in the field. It explores techniques and disciplines essential for the widespread adoption of precision agriculture, including artificial intelligence (AI), machine learning, the Internet of Things (IoT), Agriculture 5.0, smart spraying systems, and decision support tools that are transforming modern farming practices.

CRC Press
March 2026 : 256pp
Hb: 978-1-032-82338-6 : £105

* For full contents and more information, visit: www.routledge.com/9781032823386

Smart Strategies for Phosphorus Management and Reutilization in Agriculture



CRC Press
March 2026 : 272pp
Hb: 978-1-032-90307-1 : £145

* For full contents and more information, visit: www.routledge.com/9781032903071

Edited by **Rajinder Kaur**, **Vagish Dwibedi**, **Santosh Rath**, **Azamal Husen** Wolaita Sodo University, Ethiopia

Smart Strategies for Phosphorus Management and Reutilization in Agriculture gives a comprehensive exploration of the state of phosphorus in soil, addressing the urgent challenge of its depletion while unveiling cutting-edge technologies designed to recycle this vital resource for future sustainability.

Smart Technologies for a Sustainable Environment



CRC Press
January 2026 : 272pp
Hb: 978-1-041-12109-1 : £105

* For full contents and more information, visit: www.routledge.com/9781041121091

Edited by **Mourade Azrou** Moulay Ismail University of Meknes, Morocco, **Azidine Guezzaz** Cadi Ayyad University Marrakech, Morocco, **Said Jabbour**

In an era defined by unprecedented environmental challenges and technological breakthroughs, Smart Technologies for a Sustainable Environment stands as a visionary compendium of cutting-edge research and transformative solutions. This curated collection of insights explores how ground-breaking advancements are reshaping the landscape of sustainability, from renewable energy and precision agriculture to healthcare and smart urban systems.

Soil and Human Health

Food as Medicine



CRC Press
May 2026 : 264pp
Hb: 978-1-032-72676-2 : £190

* For full contents and more information, visit: www.routledge.com/9781032726762

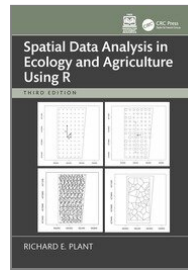
Edited by **Rattan Lal**, **Marium Husain**

Series: *Advances in Soil Science*

The intersection of soil health and human vitality is a critical yet overlooked aspect of global wellbeing. Soil and Human Health: Food as Medicine examines the soil-human health nexus, offering a comprehensive synthesis of research and insights that highlight the connections between soil processes, food systems, and human health.

3RD EDITION

Spatial Data Analysis in Ecology and Agriculture Using R



CRC Press
January 2026 : 670pp
Pb: 978-1-032-93535-5 : £89.99
Hb: 978-1-032-93533-1 : £230

* For full contents and more information, visit: www.routledge.com/9781032935355

Richard E. Plant University of California, Davis, USA

Since the publication of the second edition of Richard Plant's bestselling textbook 'Spatial Data Analysis in Ecology and Agriculture Using R', the methodology of spatial data analysis and the suite of R tools for carrying out this analysis have evolved dramatically. This third edition explores both the leading software tools for the analysis of vector and raster data; the first based on sf and associated libraries, the second based on the terra package as it has evolved out of the earlier raster package. The book's practical coverage of spatial statistics, real-world examples and user-friendly approach make this an essential textbook for ecology and agriculture graduate students.

Stimuli-Responsive Biomaterials for Inflammatory Diseases

Advances in Research and Clinical Applications



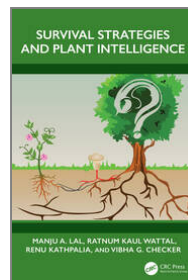
CRC Press
April 2026 : 352pp
Hb: 978-1-032-90811-3 : £120

* For full contents and more information, visit: www.routledge.com/9781032908113

Edited by **Mohammed Gulzar Ahmed**, **Vetriselvan Subramaniam**, **Sagnik Nag**, **Sourav Mohanto**

This book reviews the use of stimuli-responsive biomaterials in the diagnosis, treatment, and management of inflammatory diseases. It begins by providing a foundational understanding of inflammatory diseases and presents fundamental principles of stimuli-responsive biomaterials. This book provides insights into the characteristics of ideal biomaterials and the chemical principles that enable stimuli-responsive drug delivery systems to function effectively. A detailed classification of these advanced materials is presented based on their responsive triggers, such as pH, temperature, light, and biological signals.

Survival Strategies and Plant Intelligence



CRC Press
November 2025 : 284pp
Hb: 978-1-032-97660-0 : £110
eBook: 978-1-003-59472-7

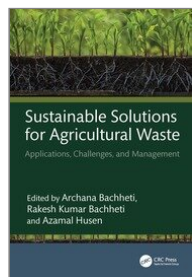
* For full contents and more information, visit: www.routledge.com/9781032976600

Manju A. Lal Dept. of Botany, Kirori Mal College, Univ. of Delhi, **Ratnum Kaul Watal**, **Renu Kathpalia** Dept of Botany, Kirori Mal College, Univ. of Delhi, **Vibha G. Checker** Dept. of Botany, Kirori Mal College, Univ. of Delhi

This book is a comprehensive study of the scientific literature on intelligent survival strategies of plants. The book discusses the theoretical and experimental aspects of mechanisms for understanding plant perception and signalling that further demonstrates purposeful behaviour and the active decisions taken by plants. The book will serve as a reference book for undergraduate students interested in an introduction to the subject of plant intelligence. It will also open up a reservoir of information for post graduate students, teachers and researchers by providing insight into this new emerging concept of plant intelligence.

Sustainable Solutions for Agricultural Waste

Applications, Challenges, and Management



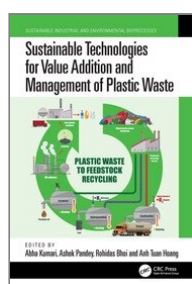
Edited by **Archana Bachheti** Graphic Era University, India, **Rakesh Kumar Bachheti** Addis Ababa Science and Technology University, Ethiopia, **Azamal Husen** Wolaita Sodo University, Ethiopia

As global agricultural activities continue to grow, so does the generation of significant amounts of organic waste. Sustainable Solutions for Agricultural Waste: Applications, Challenges, and Management delves into sustainable agricultural waste management, highlighting its critical role in environmental protection, resource efficiency, and economic growth.

CRC Press
February 2026 : 320pp
Hb: 978-1-032-72620-5 : £190

* For full contents and more information, visit: www.routledge.com/9781032726205

Sustainable Technologies for Value Addition and Management of Plastic Waste



Edited by **Abha Kumari**, **Ashok Pandey**, **Rohidas Bhoi**, **Ahn Tuan Hoang**

Series: *Sustainable Industrial and Environmental Bioprocesses*

This book provides innovative and sustainable technologies for converting plastic waste into valuable resources. The book is structured into four sections, each focusing on a different aspect of plastic waste management and conversion technologies.

CRC Press
April 2026 : 248pp
Hb: 978-1-032-93946-9 : £110

* For full contents and more information, visit: www.routledge.com/9781032939469

Tailoring the Tomato Genome for NextGen Agriculture



Edited by **Dilip R. Panthee**, **Chittaranjan Kole**

Series: *Nextgen Agriculture*

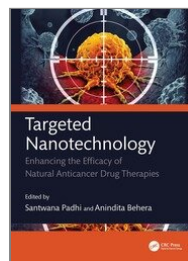
Tailoring the Tomato Genome for NextGen Agriculture gives a comprehensive view of the modern revolution in tomato breeding—bridging classical genetics with modern molecular and data-driven innovations. Drawing on global germplasm resources from institutions such as the Tomato Genetics Resource Center (UC Davis) and USDA-GRIN, the book highlights how next-generation technologies are reshaping the improvement of one of the world's most important crops.

CRC Press
April 2026 : 264pp
Hb: 978-1-032-82040-8 : £145

* For full contents and more information, visit: www.routledge.com/9781032820408

Targeted Nanotechnology

Enhancing the Efficacy of Natural Anticancer drug Therapies



Edited by **Anindita Behera** College of Pharmaceutical Sciences, School of Health Sciences, Dayananda Sagar University, India, **Santwana Padhi**

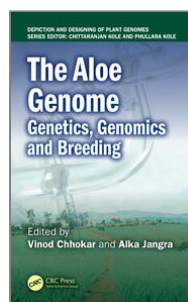
This book explores the use of nanotechnology for enhancing cancer treatments, focusing on the therapeutic delivery of naturally derived phytochemicals. It presents the nano-delivery systems tailored for potent anticancer agents like camptothecin and paclitaxel, improving their bioavailability and efficacy. The chapters also investigate the co-delivery of natural and conventional anti-cancer drugs. Additionally, it examines nano-delivery systems for essential oils, carotenoids, and other compounds targeting drug-resistant cancer cells and discusses the preventive potential of phytochemicals in cancer.

CRC Press
December 2025 : 356pp
Hb: 978-1-041-00758-6 : £160
eBook: 978-1-003-61151-6

* For full contents and more information, visit: www.routledge.com/9781041007586

The Aloe Genome

Genetics, Genomics and Breeding



Edited by **Vinod Chhokar** Guru Jambheshwar University of Science and Technology, India, **Alka Jangra** Agricultural Biotechnology, CCS HAU, Haryana, India

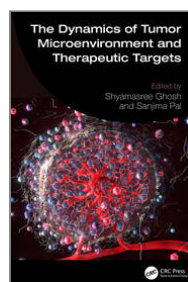
Series: *Depiction and Designing of Plant Genomes*

The book delves into the intricate world of Aloe vera, offering a multidimensional exploration of its biology and genetic makeup. This compilation is meticulously curated, presenting a wide array of topics crucial for understanding and enhancing Aloe vera's agricultural significance. The chapters delve into cutting-edge areas like genomics, transcriptomics, proteomics, metabolomics, and nano-technological advancements specific to Aloe vera. It addresses molecular markers, mapping, and genome-wide characterization for breeding, in-vitro propagation, and genetic transformation.

CRC Press
February 2026 : 240pp
Hb: 978-1-032-99244-0 : £190

* For full contents and more information, visit: www.routledge.com/9781032992440

The Dynamics of Tumor Microenvironment and Therapeutic Targets



Edited by **Shyamasree Ghosh**, **Sanjima Pal**

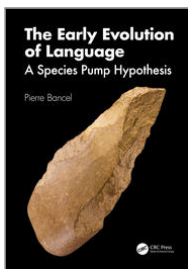
The tumor microenvironment (TME) plays a significant role in influencing tumor aggressiveness and therapeutic outcomes, presenting both challenges and opportunities in oncology. The Dynamics of the Tumor Microenvironment and Therapeutic Targets provides a detailed overview of the complex nature of the TME, highlighting its dynamic cellular and molecular components. Each chapter systematically examines a specific element of the TME, outlining its role in tumor initiation, progression, dormancy, and suppression. The book discusses the use of molecular inhibitors that disrupt tumor-promoting interactions within the TME.

CRC Press
November 2025 : 158pp
Hb: 978-1-032-52049-0 : £110
eBook: 978-1-003-40502-3

* For full contents and more information, visit: www.routledge.com/9781032520490

The Early Evolution of Language

A Species Pump Hypothesis



Pierre Bancel

The huge gap between human articulate language and all the communication systems of other living beings has prevented a satisfactory answer to this question up until today. Here, the problem is subdivided into a series of necessarily successive steps. From the climatic oscillations which pumped humans' ape ancestors out of the African rainforest, to the humming stage which still punctuates our conversations today, to the encounter of baby Celeste and his grandpa with a singing cuckoo hiding in the woods, to the emergence and inheritance of kinship terms, then personal pronouns, you are invited to follow this pathfinding quest over 10 million years.

CRC Press

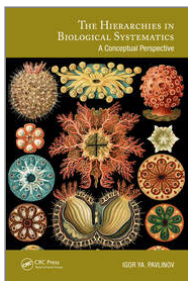
April 2026 : 264pp

Hb: 978-1-041-09180-6 : £150

* For full contents and more information, visit: www.routledge.com/9781041091806

The Hierarchies in Biological Systematics

A Conceptual Perspective



Igor Ya. Pavlinov Zoological Museum, Moscow

Series: *Species and Systematics*

The Hierarchies in Biological Systematics: A Conceptual Perspective examines the diverse hierarchies shaping the field of biology. From the overarching cognitive frameworks to the specific classifications that define biological taxonomy, this book is a comprehensive analysis of hierarchical structures and their inherent complexities.

CRC Press

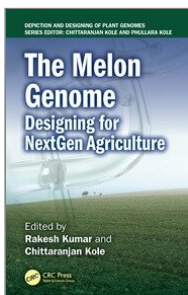
February 2026 : 300pp

Hb: 978-1-032-98212-0 : £170

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The Melon Genome

Designing for NextGen Agriculture



Edited by **Rakesh Kumar , Chittaranjan Kole**

Series: *Depiction and Designing of Plant Genomes*

Melon is a major cucurbit crop cultivated on 1.09 million hectares, producing 29.5 million tons. It is grown on nearly every continent, highlighting its significant economic value. Both public and private sectors operate dedicated melon breeding programs focused on crop improvement. This book serves as an essential resource for breeders, geneticists, students, and industry professionals, providing the most up-to-date information to guide melon crop enhancement. Additionally, it also aims to unify the objectives of public and private researchers.

CRC Press

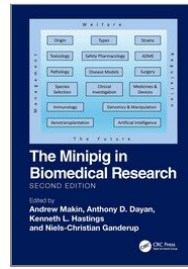
April 2026 : 176pp

Hb: 978-1-041-20244-8 : £105

* For full contents and more information, visit: www.routledge.com/9781041202448

2ND EDITION

The Minipig in Biomedical Research



Edited by **Andrew Makin , Anthony D. Dayan** London, UK, **Kenneth L. Hastings** Sanofi-aventis, Bethesda, Maryland, USA, **Niels-Christian Ganderup**

The second edition of The Minipig in Biomedical Research is a comprehensive resource for research scientists on the use of the minipig in basic and applied biomedical research. This new edition gives greater emphasis to several different strains of minipig, the greater understanding of genomics, genetic manipulation, immunology, their value in the development of novel exploratory and therapeutic implantable devices, and genetic and surgical procedures to correct inherited disorders. The second edition includes full color throughout, making it the go-to guide and resource for users of minipigs.

CRC Press

December 2025 : 522pp

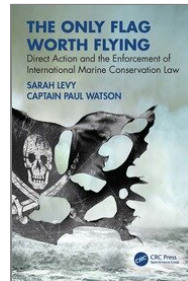
Hb: 978-1-032-25593-4 : £195

eBook: 978-1-003-28413-0

* For full contents and more information, visit: www.routledge.com/9781032255934

The Only Flag Worth Flying

Direct Action and the Enforcement of International Marine Conservation Law



Sarah Levy University of Oxford, **Paul Watson** Founder Cap. Paul Watson Foundation

The subject of international law is fraught with debate over its legitimacy and efficacy. If laws without enforcement are merely good advice, how can the environment be meaningfully protected by international legal institutions? This book examines that question through the lens of marine conservation, focusing on the Sea Shepherd Conservation Society (SSCS) and the Captain Paul Watson Foundation (CPWF) as non-state actors intervening directly to enforce international marine conservation laws. Drawing on legal analysis, political critique and detailed case studies, this book reframes direct action as being essential to the law's integrity.

CRC Press

December 2025 : 220pp

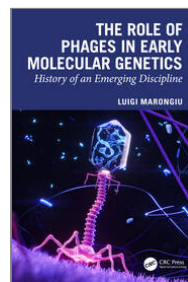
Pb: 978-1-032-86457-0 : £44.99

Hb: 978-1-032-88248-2 : £115

* For full contents and more information, visit: www.routledge.com/9781032864570

The Role of Phages in Early Molecular Genetics

History of an Emerging Discipline



Luigi Marongiu

As antimicrobial resistance threatens global health, phages have reemerged as critical subjects of scientific inquiry. Yet their pivotal role in the genetic discoveries of the 1940s-1960s remains largely overlooked—until now. The Role of Phages in Early Molecular Genetics: History of an Emerging Discipline bridges history, physics, and virology, offering both scientists and general readers a compelling narrative of how these microscopic entities revolutionized our understanding of life itself.

CRC Press

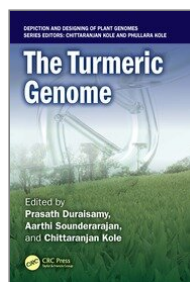
December 2025 : 252pp

Hb: 978-1-041-10987-7 : £170

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The Turmeric Genome



Edited by **Prasath Duraisamy** ICAR-Indian Institute of Spices Research, Kerala, **Aarthi Sounderarajan** ICAR-Indian Institute of Spices Research, Kerala, **Chittaranjan Kole**

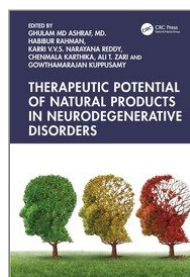
Series: *Depiction and Designing of Plant Genomes*

The Turmeric Genome is the first comprehensive compilation of research deliberations focused on whole genome sequencing of turmeric (*Curcuma longa* L.). This book serves as a valuable starting point for researchers working on turmeric and covers recent advancements in whole genome sequencing, structural and functional genomics, as well as molecular markers and breeding. It also includes fundamental information about the crop itself. This book highlights recent developments in turmeric research, including chapters on bioinformatics tools for turmeric genome and the assembly of complex plant genomes.

CRC Press
December 2025 : 308pp
Hb: 978-1-041-10802-3 : £105
eBook: 978-1-003-65691-3

* For full contents and more information, visit: www.routledge.com/9781041108023

Therapeutic Potential of Natural Products in Neurodegenerative Disorders



Edited by **Ghulam Md. Ashraf**, **Md. Habibur Rahman**, **Karri V.V.S. Narayana Reddy**, **Chenmala Karthika**, **Ali T. Zari**, **Kuppusamy Gowthamarajan**

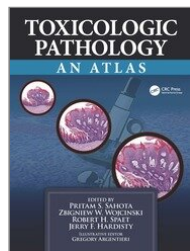
This book reviews the potential of natural products in the treatment and management of neurodegenerative disorders.

CRC Press
January 2026 : 308pp
Hb: 978-1-032-76483-2 : £110

* For full contents and more information, visit: www.routledge.com/9781032764832

Toxicologic Pathology

An Atlas



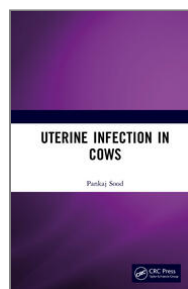
Edited by **Pritam S. Sahota** Global ToxPath, LLC, USA, **Zbigniew Wojcinski** Toxicology & Pathology Consulting, LLC, **Robert H. Spaet** RSPathologies, LLC, USA, **Jerry F. Hardisty** Experimental Pathology Laboratories, Inc., Research Triangle Park, North Carolina, USA

There has been an exponential growth of interest in the field of toxicologic pathology, a critical field in safety science, particularly as related to its impact on nonclinical safety in global drug development and care of the environment. Photomicrographic examples of selected nonproliferative and proliferative lesions are necessary to complement the written narratives in textbooks on toxicologic pathology. Toxicologic Pathology: An Atlas fits that need with input provided by top experts in the field.

CRC Press
January 2026 : 464pp
Hb: 978-0-367-49818-4 : £250

* For full contents and more information, visit: www.routledge.com/9780367498184

Uterine Infection in Cows



Pankaj Sood

This book serves as an important reference on bovine reproductive pathology and uterine infections. Covers diagnostic techniques, therapeutic strategies, natural immunity mechanisms, and comparative treatment analysis. Valuable resource for veterinary practitioners and animal science professionals. This title has been co-published with Narendra Publishing House. T&F does not sell or distribute the print and electronic editions in India, Sri Lanka, Nepal, Bangladesh, Pakistan, and Bhutan.

CRC Press
January 2026 : 250pp
Hb: 978-1-041-24717-3 : £105

* For full contents and more information, visit: www.routledge.com/9781041247173

Wound Healing

Molecular and Therapeutic Synergy



Edited by **Aarif Ali**

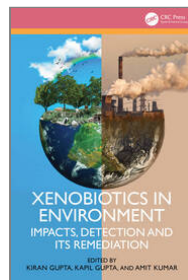
This book discusses the molecular mechanisms, signalling pathways, and emerging technologies in wound healing. The initial chapters present wound classification and examine the important role of signalling pathways and biomarkers in tissue repair.

CRC Press
April 2026 : 336pp
Hb: 978-1-041-08340-5 : £120

* For full contents and more information, visit: www.routledge.com/9781041083405

Xenobiotics in Environment

Impacts, Detection and its Remediation



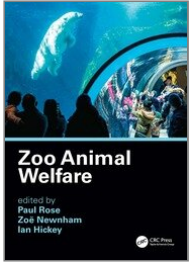
Edited by **Kiran Gupta** Siddharth University, Uttar Pradesh, **Kapil Gupta** Department of Biotechnology, Siddharth University, India, **Amit Kumar**

This book explains the holistic knowledge of xenobiotics, their mode of action as well as toxic impact on living organisms at the cellular level. This book also enlightens readers about various mitigation approaches against xenobiotics, especially phytoremediation-based technology. The book also provides a critical overview of xenobiotic contamination in both abiotic and biotic components of the environment. Recent trends in various molecular remedial strategies like nanotechnology and microbe-assisted approaches have also been discussed. Omics Approaches in Xenobiotics are also discussed.

CRC Press
January 2026 : 358pp
Hb: 978-1-032-86196-8 : £190

* For full contents and more information, visit: www.routledge.com/9781032861968

Zoo Animal Welfare



Edited by **Paul Rose** Exeter Univ., **Zoe Newnham** Marwell Wildlife, **Ian Hickey** Chester Zoo

This book unpicks the different concepts of welfare in the zoo and aquarium, considering how enclosure design, nutrition, conservation activities, visitor engagement and daily husbandry all need to have a welfare-focus to be relevant to the species being housed. The book provides the practical application of evidence-based welfare theory, centred on the concept of “welfare-focussed husbandry”, which enables zoo animals to experience positive welfare. Zoo Animal Welfare will empower readers to go “beyond the norm” when considering what zoo animals really need, applying their new knowledge for the benefit of both animals and zoos.

CRC Press

November 2025 : 410pp

Pb: 978-1-032-54736-7 : **£49.99**

Hb: 978-1-032-55176-0 : **£150**

eBook: 978-1-003-42942-5

* For full contents and more information, visit: www.routledge.com/9781032547367

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