



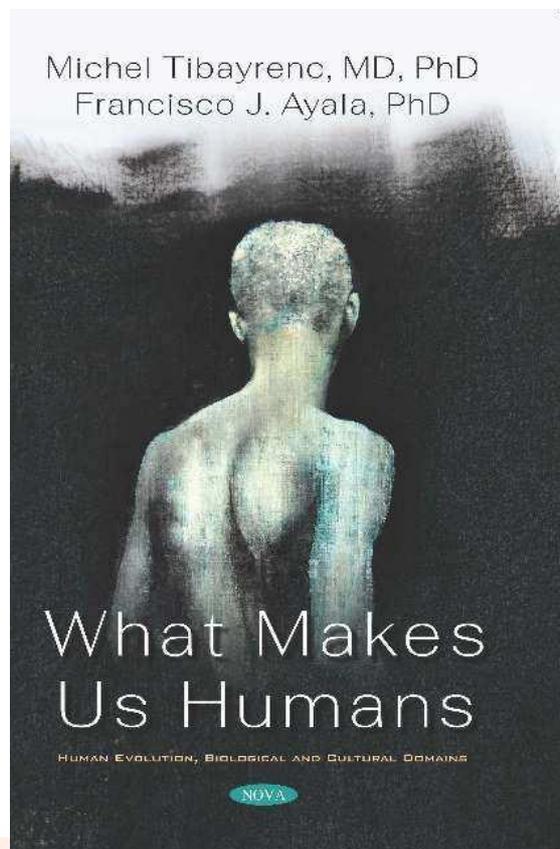
Gazelle Book Services Limited,
Unit 1/4, White Cross Mills,
Hightown, Lancaster LA1 4XS

t: (01524) 528500

e: sales@gazellebookservices.co.uk

www.gazellebookservices.co.uk

BIOSCIENCES

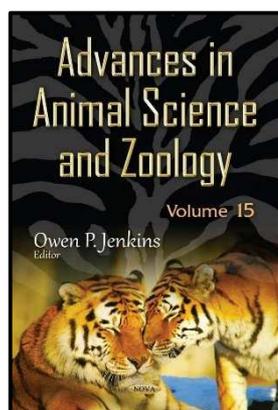


TITLES PUBLISHED BY NOVA SCIENCE

- Advances in Animal Science & Zoology
- Advances in Genetics Research
- Advances in Medicine & Biology
- Animal Science, Issues & Research
- Arctic Region & Antarctica Issues & Research
- Bacteriology Research Developments
- Biochemistry & Molecular Biology in the Post Genomic Era
- Biochemistry Research Trends
- Cell Biology Research Progress
- Fish, Fishing & Fisheries
- Food Science & Technology
- Genetics - Research & Issues Series
- Horizons In Neuroscience Research

Contents

Advances in Animal Science & Zoology	2
Advances in Genetics Research	3
Advances in Medicine & Biology	4
Animal Science, Issues & Research	4
Arctic Region & Antarctica Issues & Research	5
Bacteriology Research Developments	6
Biochemistry & Molecular Biology in the Post Genomic Era	6
Biochemistry Research Trends	7
Cell Biology Research Progress	9
Fish, Fishing & Fisheries	11
Food Science & Technology	11
Genetics - Research & Issues	12
Horizons in Neuroscience Research	12
Human Evolution, Biological & Cultural Domain	13
Life Sciences Research & Development	15
Marine & Freshwater Biology	16
Materials Science & Technologies	17
Mental Illnesses & Treatments	18
Microbiology Research Advances	18
Neuroscience Research Progress	20
New Developments in Medical Research	24
Plant Science Research & Practices	24
Recent Trends in Biotechnology	30
Virology Research Progress	30



Advances in Animal Science and Zoology Volume 15

Edited by Owen P. Jenkins

Advances in Animal Science and Zoology, Volume 15 begins by presenting the main advances of artificial insemination and timed artificial insemination, highlighting the technical parameters, advantages, and influencing factors in an effort to discuss practical and current strategies for the improvement of the herd via artificial insemination programs.

Following this, the authors provide current knowledge on the influence of insecticide resistance in *Culex quinquefasciatus* in India, as well as the governing molecular mechanisms including gene interactions and gene regulation. The potential impact of the latest findings on aspects of research in the field, associated issues and probable solutions is also addressed.

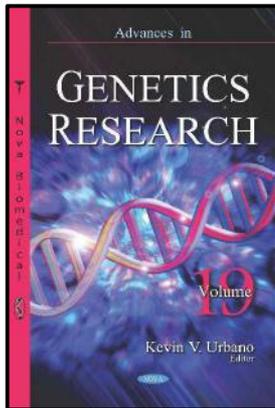
A study on eusocial Hymenoptera, a large order of insect, is included. The factors that determine castes are addressed, and the varying methods of initiation of reproduction by workers in primitive and advanced eusocial species are outlined.

This compilation goes on to discuss *Mycoplasma synoviae*, an important poultry pathogen that causes airsacculitis, synovitis, and eggshell apex abnormalities. *M. synoviae* infections cause significant economic losses to the poultry industry due to the culling of birds, increased carcass condemnation and decreased egg production.

The authors review the most relevant scientific contributions to the understanding of brain mechanisms related to working memory using macaques as a study model. The neurophysiological mechanisms of working memory in the macaque have been thoroughly explored, which has given rise to unprecedented advances in the understanding of the neurophysiological mechanisms that underlie this type of memory in other mammals, including humans.

The conclusion centers on the utmost task of a biologist: knowing the taxonomic status of the organism on which the study is focused. A taxonomist fulfills this task by distinguishing the salient characteristics of the organism concerned, giving it an appropriate name and placing it to taxonomic hierarchies.

HB 9781536182545 £229.99 August 2020 Nova Science Publishers 285 pages



Advances in Genetics Research Volume 19

Edited by Kevin V. Urbano

Advances in Genetics Research. Volume 19 extensively reviews a few important aspects of genetic diversity, including: the importance of genetic diversity in livestock and agriculture, the assessment of different procedures to get a precise measure of genetic diversity, factors affecting genetic diversity, and strategies to prevent such losses.

Continuing, this compilation discusses genomic instability, which has been observed in several inherited pathological conditions.

Mutations causing the disorder, as well as genomic instability, were present in genes associated to different biochemical functions such as: calcium influx or ionic permeation.

The authors discuss short sequence repeats or microsatellite markers, which have been utilized extensively in livestock because they can be easily amplified and possess large amounts of allelic variation at each locus.

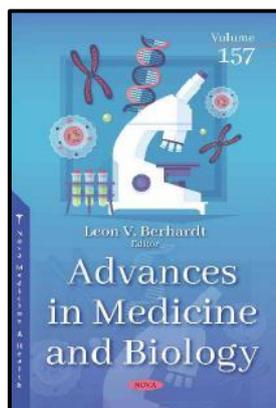
The authors also explore a new commercially available test that can identify fetal chromosomal abnormalities by analyzing fetal nucleic acids circulating in a maternal blood sample. This test can be done before 10 weeks and can replace traditional first-trimester non-invasive screening.

The causes underlying inbreeding depression and heterosis are analyzed, allowing for new insights into these phenomena as the result of a diploid genome structure, creating the states of homozygosity and heterozygosity. The relation of inbreeding depression and heterosis to the major biological processes is demonstrated.

The closing study discusses default sex from different points of view, proposing a conception “germ cell-supported female default” in vertebrate gonadal somatic cells, as well as the idea that most vertebrate sex-determining genes emerged as destruction factors against the female default.

HB 9781536174373 £229.99 February 2020 Nova Science Publishers 249 pages

Advances in Medicine & Biology



Advances in Medicine and Biology Volume 157

Edited by Leon V. Berhardt

Advances in Medicine and Biology. Volume 157 opens with a study wherein the authors use guinea pig airway smooth muscle to demonstrate that testosterone blocks L type voltage dependent Ca²⁺ channels. Furthermore, in vivo experiments with sensitized guinea pigs show that bronchospasm induced by antigenic challenge was abolished by testosterone and its 5 α and 5 β -dihydrotestosterone metabolites.

Following this, the authors evaluate the structural features of skeletal muscles in children and adults with various pathologies of the musculoskeletal system based on ultrasonography, considering periods of natural growth and involutive changes.

An overview of the current state of research on fluoxetine for the treatment of anxiety alone or combined with depression is provided, along with its possible side effects.

Also provided is scientific information regarding the neurobiological bases of depression and therapeutic effects of fluoxetine during the different periods of menopause. This information could be useful in pharmacological strategies for the treatment of depression occurring in the menopausal women.

One chapter focuses on how improved direct access to the liver protected inside the rib cage can be obtained in laparoscopic liver resection using its specific "Caudal approach", decreasing the risk of refractory ascites and liver failure, especially in hepatocellular carcinoma patients with chronic liver diseases.

The nucleolus is packed with proteins involved in ribosome function and biogenesis, as well as other proteins involved in cell-cycle regulation, senescence and stress response. However, little is known about the molecular mechanism of protein turnover in the nucleolus. As such, the authors discuss the nucleolus-localized protein degradation pathway, which is essential to ribosome production and cell-cycle progression.

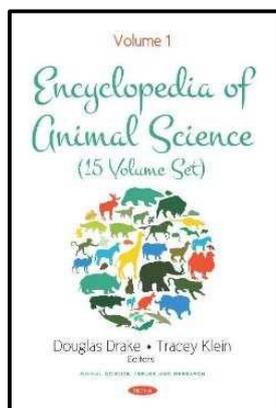
The concluding chapter focuses on the dye Congo red, which is used as a stain in microscopy to detect an abnormal material called amyloid. Amyloid consists of misfolded proteins that form fibrils which bind molecules of Congo red and orientate the molecules parallel to the long axis of the fibrils.

Volume 157 - HB 9781536171624 £229.99 March 2020 Nova Science Publishers 258 pages

Volume 159 - HB 9781536171846 £229.99 March 2020 Nova Science Publishers 266 pages

Volume 162 - HB 9781536176308 £229.99 May 2020 Nova Science Publishers 162 pages

Animal Science, Issues & Research



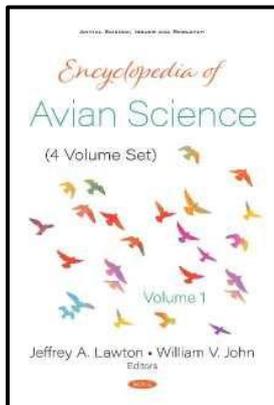
Encyclopedia of Animal Science 15 Volume Set

Edited by Douglas Drake

This 15 volume set covers a wide range of topics, including:

- marine mammals
- zoonoses
- toxins
- climate change
- evolution
- animal anatomy

HB 9781536156911 £2,064.99 January 2020 Nova Science Publishers 5122 pages



Encyclopedia of Avian Science 4 Volume Set

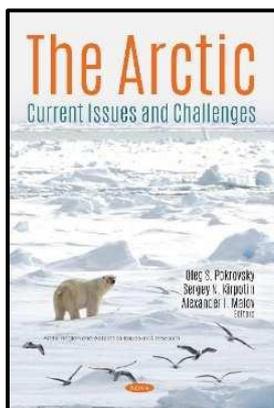
Edited by Jeffrey A. Lawton

This four volume set covers a wide range of topics, including:

- seabird conservation
- malaria parasites
- flamingos
- poultry farms
- game birds
- aflatoxin

HB 9781536167986 £614.99 March 2020 Nova Science Publishers 1568 pages

Arctic Region & Antarctica Issues & Research



The Arctic Current Issues and Challenges

Edited by Oleg S. Pokrovsky

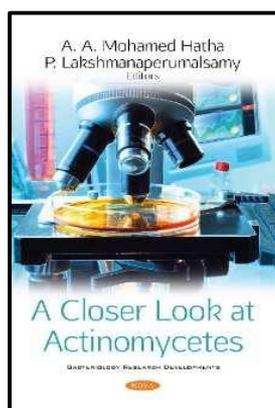
The importance of the Arctic in many fields of human activity strongly increased over the past decades. The academic scientific research demonstrates a 3-fold increase in the number of journal articles dealing with “Arctic”: from 1,400 in 2000 to 4,200 in 2018. This increase is not fortuitous but certainly stems from double importance of Arctic regions for humanity. The first importance is the role that the Arctic plays in the on-going environmental changes, mostly linked to climate warming and environmental pollution. Here, the first key issues are the Arctic Ocean, ice melt, permafrost thaw, greenhouse gases emission, and organic carbon mobilization from soils to rivers.

From the other hand, highly fragile Arctic ecosystems and biota are strongly affected by environmental pollution, be it organic compounds or toxic metals and radionuclides. The rising concern of humanity to the key role of the Arctic in climate regulation on the planetary scale and the extreme fragility of its ecosystem, biota and native population to on-going environmental change can certainly explain an explosive interest of scientific researchers to the Arctic in connection with ‘climate change’. The second big issue of the Arctic is its eminent role in problems of natural resources. The Arctic shelf contains vast amount of hydrocarbons (gas and oil), whereas the terrestrial polar regions, now liberating from ice, may turn out to be highly important sites of future ore industry.

The importance of possibly ice-free Arctic Ocean as future maritime shipping routes will further enhance the accessibility of natural resources in this region. Taken together, this can be the main driving factors of almost exponential increase in the interest to natural resources in the Arctic over past few years. The present book addresses a wide variety of environmental, social and economic issues of the Arctic, in response to rising interest to this region in academic science, sociology and business. The 14 chapters represent state-of-the art reviews written by the experts on problems of native communities, climate change, political issues, implementation of large-scale projects, natural resources and conservation, environmental monitoring and assessment of pollution issues.

HB 9781536173062 £211.99 April 2020 Nova Science Publishers 425 pages

Bacteriology Research Developments



A Closer Look at Actinomycetes

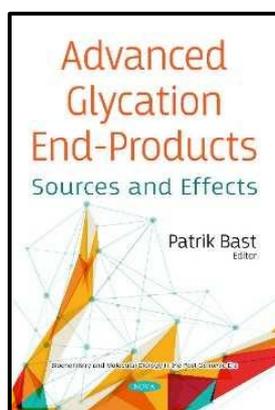
Edited by A. A. Mohamed Hatha

Actinomycetes are a versatile group of Gram positive bacteria widely distributed in the terrestrial and aquatic environments. The specialty of the actinomycetes is that they have a mycelial appearance unlike most bacteria. This group of bacteria is well known for their ability to produce a range of bioactive molecules, including antibiotics and various kinds of enzymes. As they are known for their ability to produce various antibiotics, the actinomycetes are widely explored by various research groups in search of novel drug molecules. Since the cultivation and maintenance of actinobacteria are not that easy as in the case of other bacteria, they are rather underexplored.

With the frequent emergence of multidrug resistant bacteria, which are outpacing the discovery of new antibiotics, there is a renewed interest in actinomycetes from special habitats such as extreme habitats in the marine environment, salt pans, geothermal springs, permanently frozen polar environments etc. Endophytic actinomycetes are also attracting the attention of current researchers in this field. This book titled “A Closer Look at Actinomycetes” is a compilation of articles which deals with interesting topics such as “actinomycetes as microbial drug factories”, endophytic fungi from special habitats of Pakistan as well as strategies for exploration of actinomycetes diversity and the taxonomy of actinomycetes should be of great interest to those who are interested in Actinomycetes research. People with interest in general microbiology will also find it an interesting read.

HB 9781536170467 £178.99 April 2020 Nova Science Publishers 312 pages

Biochemistry & Molecular Biology in the Post Genomic Era



Advanced Glycation End-Products Sources and Effects

Edited by Patrik Bast

Advanced Glycation End-Products: Sources and Effects attempts to describe the role of advanced glycation end-products, particularly dietary advanced glycation end-products, in the pathological expansion of adipose tissue as well as their implications in the development of obesity associated complications.

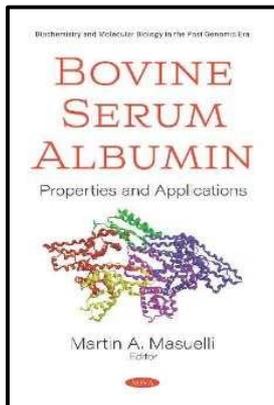
The effects of advanced glycation end-products on vasculature and their pathological implications are also described, focusing on the epigenetic mechanisms (particularly that of miRNA) modulating their effects.

The authors summarize the information available on the impact of hyperglycemia on the influencing factors of non-enzymatic glycosylation, the formation of advanced glycation end-products, and the role of advanced glycation end-products and their specific receptors in diabetes.

The role of advanced glycation end-products to diabetic complications is examined in conjunction with the protective role of the endogenous secretory receptor for advanced glycation end-products (esRAGE) and the therapeutic interventions that would mimic esRAGE activity.

In closing, poly-L-lysine modified with advanced glycation end-products is prepared and used as an antigen to generate a single-chain fragment variable monoclonal antibody (scFv mAb) through phage display technology.

PB 9781536175479 £75.99 March 2020 Nova Science Publishers 144 pages



Bovine Serum Albumin Properties and Applications

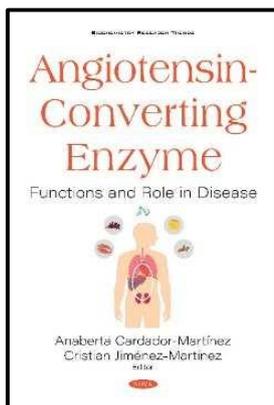
Edited by Martin A. Masuelli

Serum albumin is a large protein present in cow serum protein (BSA, Bovine Serum Albumin) rich in essential amino acids and compounds with disulfide bridges and thiol groups. This protein passes into breast milk from the bloodstream by diffusion, has antioxidant capacity and protects fats from oxidation. Albumin has the ability to inhibit tumor factors and bind to fat, mobilize them in the body to perform other functions such as obtaining energy or forming membranes. It is also able to block the conversion of angiotensin I into angiotensin II (vasoconstrictor) which gives it antihypertensive action. In addition, it has the ability to reduce cholesterol absorption, complex heavy metals and is an opioid agonist (acts on opioid receptors and promotes analgesia).

BSA is the most studied and produced protein worldwide in the last 80 years. This protein brings large dividends to the world economy with a very prominent and favorable annual growth at a cost of 100 USD per gram. This book brings new contributions to the science and industry of this biopolymer. The audience of this book is very wide from students, teachers and researchers (doctors, pharmacists, biochemists and industrialists of this sector). Therefore, this book has a great future and many readers to whom it is addressed.

HB 9781536167870 £146.99 January 2020 Nova Science Publishers 220 pages

Biochemistry Research Trends



Angiotensin-Converting Enzyme Functions and Role in Disease

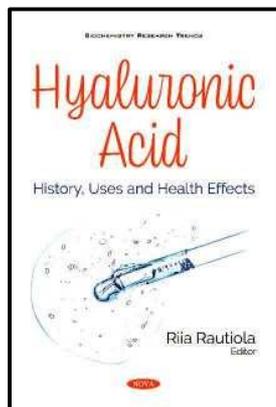
Anaberta Cardador-Martínez

Angiotensin-converting enzyme (ACE) is a well-known zinc-metalloproteinase that converts angiotensin I to the potent vasoconstrictor angiotensin II and degrades bradykinin, a powerful vasodilator, both for the regulation of vascular tone and cardiac functions. Other natural substrates of ACE were identified broadening the functions of this enzyme within different physiological contexts such as neuronal metabolism, hematopoiesis, digestion, and reproduction. In this context, ACE has an essential role in diseases, for instance, hypertension, Alzheimer's disease, oxidative stress, sperm maturation and fertility, intraocular pressure, bone metabolism, fibrillary glomerulonephritis, among others.

This book describes the role of ACE as a part of the Renin-Angiotensin-System, on different metabolic processes related to some diseases, such as the examples already mentioned. Moreover, ACE is related to adipose tissue.

The modulation of ACE can modulate hypertension and diseases related to this enzyme. Captopril is the first successful ACE inhibitor in the treatment of hypertension; however, it has adverse effects such as dry cough, dizziness, lightheadedness or loss of taste and others. The search for alternatives to Captopril has increased research on bioactive peptides. Then, several book chapters describe how ACE can be modulated by bioactive peptides, which are short amino acid sequences previously encrypted in whole proteins and liberated through the digestion process. Animal and vegetal proteins can be used as a source of bioactive peptides. Milk, milk-derived food products and lionfish are examples of animal proteins, while several legumes such as beans and peanuts are vegetable sources of bioactive peptides.

HB 9781536172492 £211.99 April 2020 Nova Science Publishers 436 pages



Hyaluronic Acid History, Uses and Health Effects

Edited by Riia Rautiola

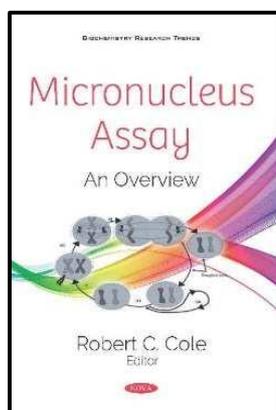
Hyaluronic acid, or hyaluronan, is a water soluble, anionic extracellular matrix glycosaminoglycan polymer with variable molecular weight that determines its physiological role, rheological properties and applications.

Since its discovery in the early 1930s, there has been an increased awareness concerning the biology of hyaluronic acid, its signaling pathways and its role in the biomedical and cosmeceutical industry. Being an endogenous molecule, hyaluronic acid is biocompatible, biodegradable, and has strong mucoadhesive, viscoelastic properties.

The authors provide chemical modification approaches to hyaluronic acid, as well as address the magnitude of applications of hyaluronic acid-based targeted drug vectors and patents.

The closing study discusses glycosaminoglycans, a specialized group of unbranched, anionic disaccharide polymers attached by a covalent linkage to the membrane proteins via sulphate groups in their sugar moieties.

PB 9781536170597 £75.99 March 2020 Nova Science Publishers 128 pages



Micronucleus Assay An Overview

Edited by Robert C. Cole

Micronucleus is defined as the small nucleus that forms whenever a chromosome or its fragment is not incorporated into one of the daughter nuclei during cell division. It is concluded that micronucleus assay can be used for risk prediction, screening, diagnosis and treatment of various chronic diseases. In this *Micronucleus Assay: An Overview*, the applications of micronucleus assay will be discussed.

Ionizing radiations, ultraviolet rays, geogenic or anthropogenic pollutants can induce mutagenic, teratogenic or carcinogenic effects due to the induction of micro or macrolesion over DNA. Several models have been used to measure the mutagenic and clastogenic effect of such agents. As such, the authors focus on one of these models: the micronucleus test.

The micronucleus test can assess abnormalities earlier in the drug discovery pipeline, making structure/genotoxicity connection a possible system for drug characterization.

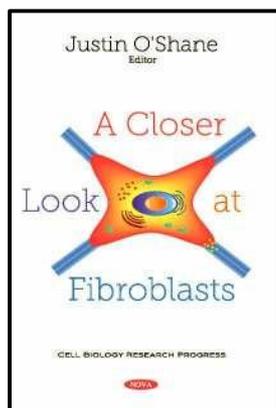
Additionally, the authors provide knowledge about micronucleus assay and its usage in occupational toxicology studies. It is now recognized as one of the most successful and reliable assays for genotoxic carcinogens.

The authors go on to present an overview of the evaluation of micronucleus assay by flow cytometry, reviewing the studies published in the international literature so far that employ different experimental designs for a variety of purposes.

Humans can become exposed to a variety of chemical substances that can have adverse biological effects, and the sub-lethal genotoxicity can have the most far reaching and severe consequences like cancer or abnormal progeny as per the cell type involved. Hence, the penultimate chapter focuses on the significance of identifying and predicting potential genotoxic agents by using laboratory markers, thus regulating and preventing exposure to cancer causing agents.

In the concluding review, generation of micronucleus assay in the bone marrow cells of mice induced by various clastogenic chemicals, drugs, and radiation are elaborately elucidated. Bone marrow cells are easily susceptible to oxidative damage and sensitive to various clastogenic as well as aneugenic agents.

PB 9781536166781 £87.99 January 2020 Nova Science Publishers 182 pages



A Closer Look at Fibroblasts

Edited by Justin O'Shane

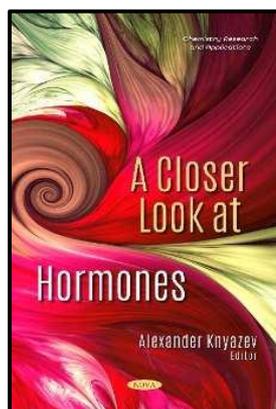
A Closer Look at Fibroblasts first summarizes the molecular mechanisms of fibroblasts induced by photobiomodulation, reviewing current therapeutic approaches. Photobiomodulation, previously called low intensity laser irradiation, is a safe and efficient mechanism used to stimulate a positive response through absorbed light or light emitting diodes, and to reduce pain and inflammation promoting healing of the wound area.

Following this, the authors demonstrate the importance of fibroblasts in the process of development and progression of ovarian cancer, helping to establish new therapeutic management targeted towards cancer-associated fibroblasts.

In the penultimate study, the effects of the combination of andiroba, copaiba and guarana in the form of biphasic oil and emulsion is examined in the context of wound healing.

The concluding study focuses on the implications of the previously mentioned guarana in the context of skin aging and the oxy-inflammatory metabolism.

PB 9781536169775 £87.99 April 2020 Nova Science Publishers



A Closer Look at Hormones

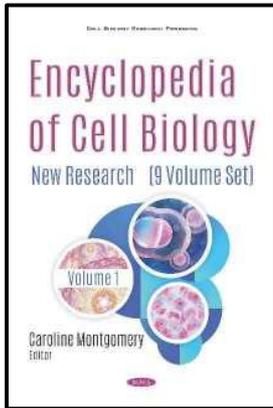
Alexander V. Knyazev

“A Closer Look at Hormones” provides the essential information necessary for students and scientists in the life and health sciences and chemistry of biologically active substances. The book adopts a readable, friendly style that helps introduce the reader to this fascinating and exciting world of hormones.

This book is devoted to highlight the recent progress on the extraction, analysis, physico-chemical properties and the use of hormones. Much attention is paid in several chapters to steroid hormones, which play an important role in human biochemistry. Information on phytohormones and hormones in mushrooms is also original. The book presents revolutionary results in clinical trials of hormones, comparative genomic analysis, and the use of these substances as a tool for biosynthesis. The logic of the whole book is subordinated to the scheme “presence in living organisms - identification and analysis - properties - application and safety” of hormones.

It also includes some of the vital pieces of work being conducted across the world on various topics related to the study of biologically active substances. Through it, we attempt to further enlighten the readers about the new concepts in this field. Altogether, presented in an organized, concise, and simple-to-use format, *“A Closer Look at Hormones”* allows quick access to the most frequently used data.

HB 9781536172546 £178.99 March 2020 Nova Science Publishers 348 pages



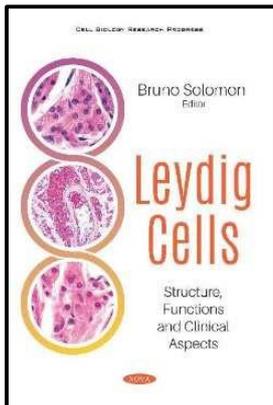
Encyclopedia of Cell Biology New Research (9 Volume Set)

Edited by Caroline Montgomery

This nine volume set covers a wide range of topics, including:

- guided tissue regeneration
- programmed cell death
- endothelial lipase
- cell fusion

HB 9781536167580 £1,330.99 February 2020 Nova Science Publishers 2181 pages



Leydig Cells Structure, Functions and Clinical Aspects

Edited by Bruno Solomon

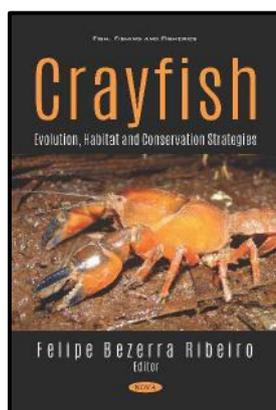
The main function of the Leydig cells is to synthesize testosterone, but growing evidence supports the idea that Leydig cells are important in regulating the testicular immune environment. As such, *Leydig Cells: Structure, Functions and Clinical Aspects* discusses Leydig cells serving as immunological sentinels in the testis.

Next, the authors explore the commercially available immortalized Leydig cell lines (TM3, R2C, MA-10 and MLTC-1) derived from rat or mouse and the results of studies using these cells. Additionally, the effects of the most commonly used environmental contaminants on Leydig cell function are discussed in the context of the impaired of steroidogenic pathway.

The results of several studies are presented which demonstrate that lycopene supplementation improves and maintains the normal level of testosterone by improving the expression of StAR protein and steroidogenic enzymes in the Leydig cells of polychlorinated biphenyl exposed rats.

PB 9781536172829 £75.99 February 2020 Nova Science Publishers 110 pages

Fish, Fishing & Fisheries



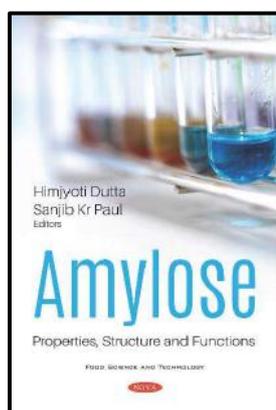
Crayfish **Evolution, Habitat and Conservation Strategies** Felipe Bezerra Ribeiro

Crayfish are one of the most iconic freshwater crustacean groups of the world. The wide range of biological adaptations of the freshwater crayfish to the limnetic ecosystems is surprising, as is there is high potential of some taxa to become invasive species. There is a constant growing interest in develop research with freshwater crayfish. They can be an important food source in several countries, the aquarium pet trade and cultural importance, in addition to the presence of several imperiled species. This book brings important reviews of some aspects of diversity, biological features, evolution, habitat characteristics, behavior and conservation strategies of freshwater crayfish, including native taxa, especially endemic from South America, New Guinea and North America, and non-indigenous species.

In South American, new species have been discovered in recent years and are classified in threat categories, indicating the need of more studies regarding taxonomy and conservation. For New Guinean species, data about their exploitation by humans and further perspectives about the improvement of conservation practices are presented. In relation to the North American crayfish, this book brings information about some aspects of biology and behavior of the burrowing species *Procambarus acanthophorus*. A global assessment and future perspectives for all alien crayfish species are also presented in this book. Regarding the partenogenetic marbled crayfish, *Procambarus virginalis*, the book brings an extensive review covering aspects of detection history, biology, ecology, evolution, systematics and utilization of this species in the world. In addition, an overview of integrative taxonomy studies and cryptic diversity in crayfish is also presented.

HB 9781536169416 £178.99 January 2020 Nova Science Publishers 268 pages

Food Science & Technology



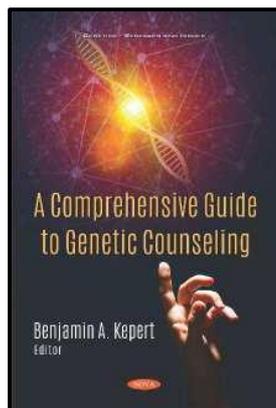
Amylose **Properties, Structure and Functions** Edited by Himjyoti Dutta

Amylose is the linear polymeric fraction of starch which has its unique characteristics leading to its specific role in the application of starches and its own. Amylose forms a significant proportion of the macromolecular structure of starch. Written by a selected team of international authors, including academicians and researchers with special expertise on starch chemistry, technology and functions, the book 'Amylose: Properties, Structure and Functions' is a unique approach to the multifaceted trends of amylose chemistry, properties, functionality and applications.

Under the collaborative editorial guidance of Dr Himjyoti Dutta and Dr Sanjib Kr Paul, who are experienced in researches on starch, starch-based composite materials and other biomaterials, the book provides an overview of all the scientific and technological approaches on amylose. Traditional and recent analytical methods for amylose purification and characterization have been thoroughly discussed in this book. The role of amylose in major starch sources suggesting specific usage in food and other complex edible and non-edible matrices have been covered. Recent findings on its peculiar properties, directing it to the ever growing world of functional biopolymers have been discussed. Amylose polymorphism and complex formation with non-starch components have been elaborated for optimum knowledge dissemination on its potential use as nano-scale material for food, drug, nutraceutical and pharmaceutical industries.

HB 9781536169324 £211.99 February 2020 Nova Science Publishers 402 pages

Genetics - Research & Issues



A Comprehensive Guide to Genetic Counseling

Edited by Benjamin A. Kepert

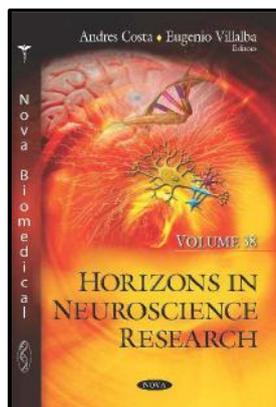
In this compilation, the authors describe the psychological consequences and effects of predictive cancer genetic testing in both breast and ovarian cancer. Predictive genetic tests are being offered to an increasing number of women as the availability and public awareness of genetic testing increases.

Next, *A Comprehensive Guide to Genetic Counseling* assesses the parental psychosocial implications, such as emotions and coping, regarding the earlier diagnosis of Usher syndrome via genetic testing compared to parents of children who were diagnosed later via ophthalmologic findings.

The closing chapter reports on a comprehensive analysis of the studies performed on genetic counseling, particularly those pertaining to the Israeli Arab society. Furthermore, an overview of the various socio-demographic, economic, cultural and religious aspects is provided.

PB 9781536169751 £87.99 March 2020 Nova Science Publishers 172 pages

Horizons in Neuroscience Research



Horizons in Neuroscience Research

Volume 38

Edited by Andres Costa

Physiotherapy and rehabilitation applications in neurological diseases are important for the treatment of the disease. The basic principle of physiotherapy and rehabilitation is to determine the needs of the patient. As such, the authors discuss the evaluation of the motor functions of neurological diseases for upper and lower extremities separately, as well as sensorial functions and cognitive functions.

Next, a literature review draws attention to studies in which sex was a controlled variable, and presents data regarding sexual dimorphism in a range of aspects developed after brain injury. It is possible to document the accomplishments of different cell death mechanisms and varying degrees of inflammatory response depending on the sex, as well as the distinct susceptibilities of the sexes in terms of mechanisms of cell damage.

Additionally, summary of techniques and indications related to cerebrovascular bypass surgery for aneurysmal subarachnoid hemorrhage cases is provided, maintaining that cerebral revascularization procedures should be further developed by neurosurgeons as they remain the only option of treatment for a significant number of patients.

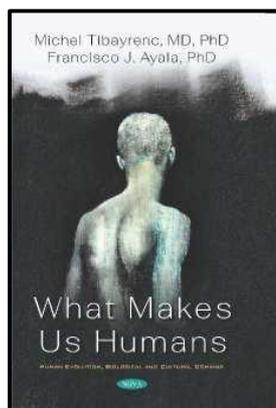
The authors review their extensive experience with indocyanine green video-angiography and FLOW 800 analysis software during the surgical removal of central nervous system tumors; in particular, they identified 5 possible applications of indocyanine green video-angiography and FLOW 800 in this field.

Data is presented showing the reciprocity between the brain angiotensin II system and amphetamine exposure in the development and expression of behavioral, neurochemical and glial alterations. Particularly, this collection explores how the neuroadaptive responses and neuroinflammation evoked by the psychostimulant and depending on AT1 receptors that might resemble some features linked to different brain disorders.

Volume 38 - HB 9781536172126 £229.99 February 2020 Nova Science Publishers 231 pages

Volume 39 - HB 9781536176742 £229.99 April 2020 Nova Science Publishers 267 pages

Volume 40 - HB 9781536181944 £229.99 August 2020 Nova Science Publishers 276 pages



What Makes Us Humans

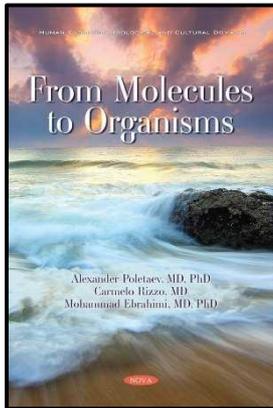
Michel Tibayrenc

The knowledge on human biology is blooming. Progresses in genomics, epigenetics, neurobiology, human evolution, population genetics, and prehistory is extremely fast presently. However, few bridges have been launched between these fields on one hand, and human sciences (ethics, politics, psychoanalysis, philosophy) on the other hand. Now knowledge on human nature and on what makes us specifically humans do need tight collaborations between biological and human sciences.

One of the specific goals of the book is to sort out, in our knowledge on human nature, what is: (i) strongly supported; (ii) still speculative; (iii) still extremely tentative; (iv) obviously (sometimes purposely) misleading; (v) definitely to be rejected. Such a sorting out is sorely needed, since this theme is politically loaded and full of propaganda, storytelling and “fake news”. This kind of endeavor is urgent because there is now a strong tendency in the general public to lose confidence in science and to believe in alternate sources of knowledge with uncertain backgrounds (social networks, internet).

This books uniquely offers a thorough discussion, based on biology as well as on human sciences, on major societal debates of the time, such as origin of humankind, human genetic diversity, biology of cognition, science in front of intolerant ideologies, science and religion, and science and creationism/intelligent design. Its specific feature is sorted by the present states of knowledge, what is robust, then still speculative, unintentionally or intentionally (“scientific fake news”) misleading, and obviously wrong. Thorough updating is based on more than 300 references from the specialized literature as well as from the general media. The book, which is written in an accessible language and is completed with a glossary of specialized terms, will be therefore profitable to specialists of the concerned fields, university professors, teachers, students, as well as the general public.

HB 9781536168532 £211.99 January 2020 Nova Science Publishers 313 pages



From Molecules to Organisms

Alexander Poletaev

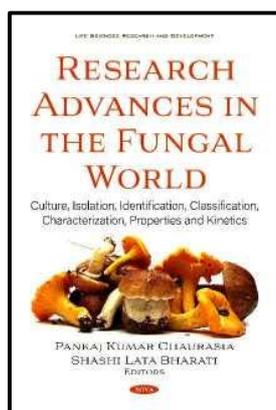
What is a Life? How did it appear? What principles underlie its functioning? Similar questions have accompanied man since birth. People of all ages have tried to answer these questions on the basis of the maturity of the available knowledge and techniques. This is why the theory of evolution preserves, even in modern science, a central role, embracing all the spheres of biology, physics and medicine. The modern concept of evolution is extremely simple; nevertheless, many scientists still show great difficulties in incorporating and integrating this concept into their work. One of the main errors is the assumption that the different species developed along an “evolutionary scale”, from bacteria to animals, more or less complex, up to man, which would therefore represent the apex of evolution.

Most people, who wish to and are living a long life remaining active and cheerful until old age, are increasingly seeking doctors’ help. What is health? Some believe that it is the absence of diseases and physical defects. For some, it is a state of physical, mental and social well-being. However, despite the different definitions of this concept, everyone agrees that health is a leading factor in determining the quality of our lives. Health is influenced by many factors. Some of them improve health others worsen it (risk factors).

Some experts have compiled a list of the main factors affecting health and given an indicative assessment of the degree of importance of each of them. This includes lifestyle, environmental influences, quality of medical care and heredity. A physician who regularly observes a given individual has to face challenges that modern medicine hasn’t sufficiently researched and developed, assess the individual risk of developing a disease, identify early markers of change leading to disease development and individually select the corrective actions. It should be noted that one of the most important conditions for long-term preservation of health is the development of methods from the earliest possible diagnosis of diseases at the preclinical stage.

This book combines the experience of clinical and laboratory research as well as some basic philosophy ideas of a group of scientists who, starting from an individual point of view, were able to synthesize and make available to other colleagues a new way of view of human organism and explaining the events that can trigger pathological conditions, including cancer, autism, diabetes and other chronic diseases.

HB 9781536175516 £146.99 May 2020 Nova Science Publishers 251 pages



Research Advances in the Fungal World Culture, Isolation, Identification, Classification, Characterization, Properties and Kinetics

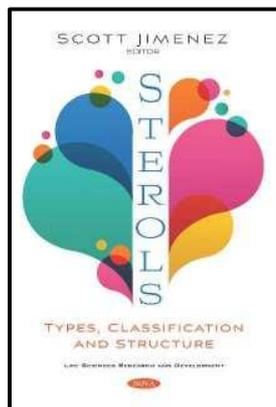
Edited by Pankaj Kumar Chaurasia

Fungi are the renowned eukaryotic organisms. They are heterotrophs like animals, some plants and bacteria and studied under the separate branch of science 'Mycology'. They are abundantly found worldwide as yeasts, moulds, mushrooms etc. Due to the discovery of the different types of fungi, their working styles, habitats, their growing style, culture, sources and optimum locality, fungi have been classified separately from the other eukaryotes like animal and plants. In modern time, there are a number of diseases known which have been caused by fungi but many more significant and useful functions of them are also known and well discovered. Their various positive roles in medicines, remediation, food industries, agriculture, paper and pulp industries, chemical industries, biological researches etc. make them highly significant objectives for researchers and scientists. They also secrete a number of biologically valuable enzymes which further enhance their utility in the field of biotechnology. Their worldwide distributions make them easily available for the research.

A number of researches in the field of fungal biotechnology are currently running in order to explore their momentous properties related to their nutraceutical and pharmaceutical values. In this regard, the deep study of their detailed properties, sources, culture, secretion of enzymes, isolation techniques, characterization, kinetics etc. are highly required. Handy nature, very easy language, scientific writing style and advanced research materials of this book make this interesting and highly helpful for the readers and researchers of the field of life sciences, biochemistry and biotechnology to conduct their research. Students of undergraduate and post graduate courses of life sciences/biochemistry/biotechnology will also highly benefit from this book. This book has recent, descriptive as well as up to date information on the recent developments in the world of fungi in the form 17 chapters (divided in two sections: section A and section B) prepared by admirable scientific collaborations. Each chapter has been written by worldwide eminent experts of their scientific research fields. This book covered several valuable and promising topics:

- (i) Diversity, distribution and classification of fungi.
- (ii) Isolation, identification and characterization of fungi.
- (iii) Study of the fungal culture, growth, production, optimization etc.
- (iv) Rhizospheric fungi, endophytic fungi, lichens, pathogens and secondary metabolites.
- (v) Fungal properties and applications, biologically potential mushrooms, nutraceutical applications, pharmaceutical applications and bioconversions of wastes materials etc.
- (vi) Secretion of the different enzymes from fungi
- (vii) Fungal enzymes, their purification, characterization, kinetics, properties and applications in the field of biotechnology.

HB 9781536171976 £211.99 March 2020 Nova Science Publishers 442 pages



Sterols Types, Classification and Structure

Edited by Scott Jimenez

Sterols: Types, Classification and Structure describes the methodology used to determine sterol content in coral reef food webs, and how sterol data is used in trophic ecology studies. The authors briefly explain the basics of gas chromatography and mass spectrometry as necessary tools to confidently separate, identify, and quantify sterols.

Sterols from different sponge families have been described, however, few studies have been conducted involving the sterols of the freshwater sponge compared to those of the marine environment. The number of sterols present varies with the species, and this characteristic make it possible to use this data as a chemosystematic marker.

In olive oil, sterols constitute the majority of the unsaponifiable fraction. In recent years, there has been increased interest in the sterols of olive oil due to their health benefits and their importance to virgin olive oil quality. Thus, the authors discuss recent findings concerning the effect of cultivars on the sterolic profile of extra virgin olive oil.

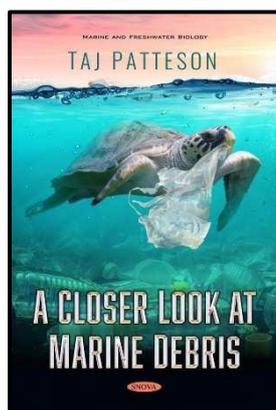
The subsequent study aims to contribute to the optimisation and valorisation of virgin olive oil quality in the world olive-producing areas. This work was carried out on the study of virgin olive oil from two new olive varieties obtained through uncontrolled crossings.

The sterolic fraction of argan oil is also compared to that of olive oil. The total phytosterol content ranged from 1700.80 mg/kg in chemlali oil to 150.40mg/kg in argan oil. In contrast to chemlali oil in which β -sitosterol is predominant, the major sterols detected in argan oil is schottenol and spinasterol.

In closing, the authors examine the analysis of phytosterols, a multistage procedure that includes extraction, isolation/purification as a group of related compounds and a chromatographic technique for separation, identification, and quantification.

PB 9781536172317 £75.99 January 2020 Nova Science Publishers 158 pages

Marine & Freshwater Biology

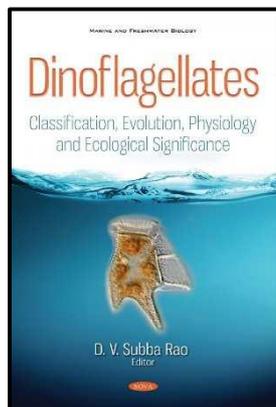


A Closer Look at Marine Debris

Edited by Taj Patteson

Marine debris is a persistent problem in many coastal areas of the United States. There are a variety of potential economic losses associated with marine debris, including effects on commercial fisheries, effects on waterfront property values, costs incurred by local governments and volunteer organizations to remove and dispose of marine debris, and more general "existence" values reflecting the public's preference for a clean environment. This book discusses marine debris and steps to mitigate its effects.

HB 9781536179729 £211.99 June 2020 Nova Science Publishers 322 pages



Dinoflagellates

Classification, Evolution, Physiology and Ecological Significance

Edited by Subba Rao V. Durvasula

Dinoflagellates are fascinating protists, mostly unicellular, distributed in environments ranging from the polar to tropical seas, hypersaline, coastal, estuarine and oceanic waters. There are about 2,377 dinoflagellate species recognized. They exhibit a great diversity of shape, size, biochemical composition and physiological characteristics. Generally free floating, dinoflagellates are photosynthetic, a few species such as the Symbiodinium are symbiotic, living in corals, while a few are parasitic.

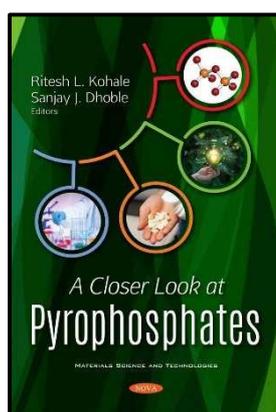
This volume presents a discussion on dinoflagellate phylogeny based on recent developments in molecular biology. It provides insights into the similarity of pigment composition with other microalgae. A comprehensive coverage of their carbon assimilation rates is presented, which appear to be low compared to other microalgae. Besides photosynthetic assimilation, an interesting aspect of acquiring carbon is through mixotrophy which appears to be wide spread amongst dinoflagellates and a thorough discussion is presented.

Key features of this book include recent methods of culturing dinoflagellates, which can serve as analogues of their blooms in understanding their physiology, biochemistry and production of phycotoxins. This book, based on massive data collected over decades of research, provides an informative overview on the spatial and temporal distribution and dispersal of dinoflagellates by ocean currents, ballast water introductions and climate changes.

About 70 species of dinoflagellates are implicated in the production of ephemeral harmful algal blooms (HABs), which are on the increase globally. Based on several case studies, a comprehensive coverage of the phycotoxins produced by HAB species (PSP, DSP, ASP, Ciguatera, NSP) is presented. The adverse effects of phycotoxins on human health, and the loss of revenues (\$50 million in the USA) due to fish kills are evaluated. Latest advances in the methodology of genomics are presented with a view to highlight their importance and to understand their linkage with phycotoxin production. A discussion of remediation measures to manage HABs is presented, which would be highly useful in aquaculture operations.

HB 9781536178883 £311.99 September 2020 Nova Science Publishers 755 pages

Materials Science & Technologies



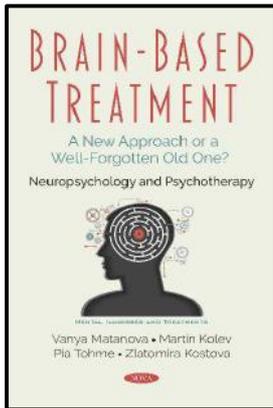
A Closer Look at Pyrophosphates

Edited by Ritesh L. Kohale

The present book encompasses and gives brief information about pyrophosphate materials. It also explains their phenomenological theories and properties of rare-earth activated pyrophosphates. This book provides the comprehensive in depth information about the development of phosphates and pyrophosphates along with their essential characterization techniques as well as their diversified applications in numerous domains. This book envelopes all essential information about single and mixed cations pyrophosphate compounds that have been used in past few years. It also covers intact information about innovation in advance pyrophosphate materials especially for their applications in medicinal field. In particular, this book focuses on enhanced chemical and physical properties of pyrophosphate as there is a need for new low-cost, less toxic and energy efficient materials to reduce the current cost of device technologies. This book masterfully demonstrates the present scenario of pyrophosphates and concurrent technologies with its increasing significance to resolve energy- and environment-related problems and their sustainable approach in the world of globalization.

PB 9781536177305 £75.99 May 2020 Nova Science Publishers 137 pages

Mental Illnesses & Treatments



Brain-Based Treatment

A New Approach or a Well-Forgotten Old One? Neuropsychology and Psychotherapy

Vanya Matanova

What is the influence of psychotherapy over the brain functioning? Is it possible for us to determine in which type of psychotherapy the most significant changes in the brain functioning are observed? If the influence of psychotherapy over the brain is a fact, does this fundamentally change the training in psychology, psychiatry and psychotherapy and the inclusion of knowledge from the basic sciences?

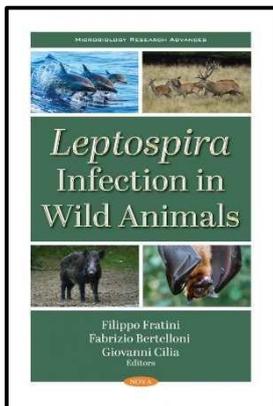
Psychotherapy can be considered as a type of training that stimulates the patient to learn how to change their behaviour, thinking and regulation of emotions. Psychotherapy is much more than an opportunity to talk to someone with good listening skills. Understanding the relationship between psychotherapy and brain functions is stimulating news and changes the traditional thinking about the place of psychotherapy and pharmacotherapy, the relations between them in the process of overcoming mental problems and diseases. Psychotherapy is assumed to be a form of learning which suggests that the uptake of information in the process of psychotherapy leads to a change in the expression of genes, thus changing the strength of synaptic connections. The gene sequence does not change under the influence of the environment, but the ability of genes to direct the synthesis of individual proteins depends on environmental factors and is regulated by their influence (Candel, 1998). This explains the phenotypic differences between monozygotic twins and discordance of diseases, such as schizophrenia.

Any mental condition is a brain state and any mental disorder is a disorder in the work of the brain. The effect of treatment of mental disorders is associated with an effect on structural and functional changes in the brain (Candel, 1998).

Neuroimaging gives an objective diagnostics of mental disorders, revealing the reasons for their occurrence and therefore allows for the development of more effective methods of treatment and psychotherapy.

PB 9781536169515 £146.99 March 2020 Nova Science Publishers 197 pages

Microbiology Research Advances



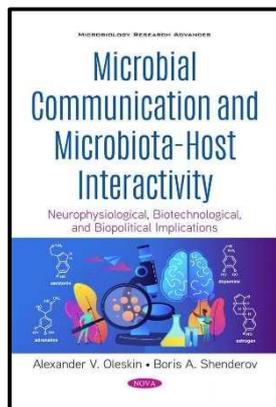
Leptospira Infection in Wild Animals

Edited by Filippo Fratini

Leptospira is a Gram-negative bacterium that causes leptospirosis, one of the most important re-emerging zoonotic diseases. The disease is worldwide diffused, and animals are involved in its spreading. Among animals, wildlife play an important role in the epidemiology of leptospirosis, as reservoir of specific Leptospira serovar. Several species are known as Leptospira maintenance host, but other are less investigated and could represent a “new” host involved in its epidemiology.

The book “*Leptospira Infection in Wild Animals*” contains descriptions of leptospirosis epidemiology in several wild animal species, highlighting the infection in different part of world, the most detected Leptospira serovar and the risks of infection for both humans and domestic animals. Data on marine mammals, wild boar, rodent, lagomorph, wild ruminants, amphibian and reptiles, bats and non-human primates Leptospira infection were deeply analysed and discussed in order to better understand their role in the leptospirosis epidemiology.

HB 9781536182224 £146.99 August 2020 Nova Science Publishers 237 pages



Microbial Communication and Microbiota-Host Interactivity Neurophysiological, Biotechnological, and Biopolitical Implications

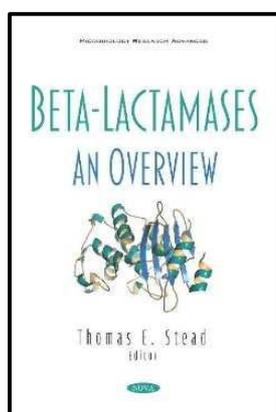
Alexander V. Oleskin

In light of recent data, microorganisms are construed in the present monograph as living organisms that are capable of communication and advanced social organization, which conspicuously manifests itself in the formation of extracellular matrix-enclosed biofilms. Microbial communication signals, including quorum sensing pheromones, are of paramount importance both for interactions among microbial cells and the dialogue between them and the host organism. The monograph sums up the facts that demonstrate the complexity of the human organism-inhabiting microbial consortium comprising a wide variety of biofilm-forming eukaryotic, bacterial and archaean cells. The microbiota is involved in maintaining microecological, metabolic, epigenetic, neuro-endocrine and immune homeostasis that normally stabilizes the brain-gut-microbiota axis.

Microbially produced neuroactive chemicals include peptides, amino acids, amines, short-chain fatty acids, purines and gaseous substances that are used as nutrients, effectors, cofactors and signals by the host organism. In the present-day world, the human organism has to deal with a large number of environmental stress factors that overpower the organism's protective system and disrupt the functioning of symbiotic microbiota predominantly located in the gastro-intestinal (GI) tract. Homeostasis disruption may impede communication between microbial cells and the human organism and cause physical or mental health problems.

The operation of the brain-gut-microbiota axis can be improved by useful microorganisms (probiotics) including psychobiotics that directly impact the human brain and behavior. In the authors' opinion, the lifelong epigenetic developmental program of the organism can be ameliorated and genetic and epigenetic disruptions in the human metagenome (comprising all nuclear, mitochondrial and microbial genes) can be prevented by supplementing the diet with traditional, organic and individualized functional food items that relieve the effects of various detrimental stress factors and agents. A reasonably designed lifestyle based on gut microbiota optimization will undoubtedly help human individuals live a decent healthy life and attain active longevity. Current research on the population organization, social behavior and intercellular communication of microorganisms is expected to promote the interdisciplinary dialogue between microbiology, cytology and ethology. In addition, the results of this research are of significant potential importance for medicine and biotechnology.

HB 9781536175066 £211.99 April 2020 Nova Science Publishers 389 pages



Beta-Lactamases An Overview

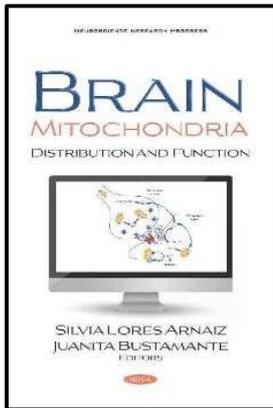
Edited by Thomas E. Stead

In this compilation, the authors describe the occurrence and characteristics of ESBL/AmpC-producing Enterobacteriaceae in poultry, cattle and pigs, pointing to risk factors that lead to their spread and highlighting possible mitigation strategies that could be applied to reduce their prevalence in food-producing animals.

One review focuses on the wide array of antimicrobial resistance mechanisms that have been described in *A. baumannii*. The most concerning ones being the β -lactamases with carbapenemase activity, i.e, Ambler class-D serine oxacillinases and Ambler class-B metallo- β -lactamases.

The closing study will walk readers through the discovery and golden age of β -lactam, its mechanism of action as broad-spectrum antibiotic, the expansion of beta-lactam derivatives and β -lactamase inhibitors to antibiotic resistance in β -lactams.

PB 9781536168181 £87.99 January 2020 Nova Science Publishers 190 pages



Brain Mitochondria Distribution and Function

Silvia Lores-Arnaiz

“Brain mitochondria: Distribution and Function” offers an overview of significant findings regarding physiological, toxicological and pathological aspects of brain mitochondria properties and their relevant role in cellular bioenergetics.

Essential physiological processes such as cell respiration and ATP synthesis, the maintenance of calcium homeostasis, reactive oxygen species generation and apoptotic cell signaling performed by mitochondria are described in the different chapters of this volume. In particular, the importance of specific calcium signaling at synaptic level and its relationship with mitochondrial bioenergetics are extensively described.

Being that high energy demands are required at synaptic level for neurotransmission, mitochondrial distribution becomes relevant for essential neuronal processes. Differential bioenergetic characteristics of neuronal, astrocytic and glial mitochondria are discussed. Interestingly, new insights on the interaction between neurotensinergic and nitric systems are detailed, based on experimental evidences of the effect of neurotensin receptors blockade on nitric oxide production and mitochondrial function.

The chapters describing metal neurotoxicity provide a comprehensive view of the effects of different metals on brain mitochondrial function and their consequences for human health. The impact of iron and copper overload on brain oxidative redox balance and mitochondrial function is fully detailed, focusing on the role of metal-induced neuronal damage on the incidence and progression of neurodegenerative diseases.

In addition, a complete revision of the mechanisms underlying heavy metal-mediated damage to brain mitochondria is presented. Neurotoxic effects of arsenic, thallium, lead, cadmium and mercury have been associated with cell bioenergetics impairment, exacerbated production of oxygen free radicals, and induction of intrinsic pathway of apoptosis.

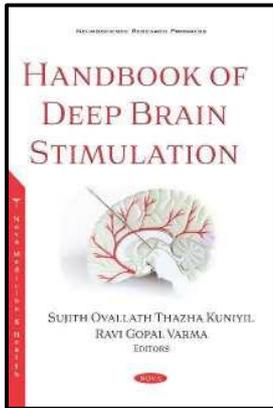
Mitochondrial function can also be impaired by treatment with different drugs acting at CNS level. The understanding of the effects of pharmacological agents, abuse drugs, herbicides and insecticides at mitochondrial level can contribute to elucidate the molecular mechanisms involved in neurodegeneration. In this context, the neuroprotective effect of different compounds targeting mitochondrial integrity and function is discussed.

Furthermore, mitochondrial alterations, oxygen radicals generation and nitric oxide production are characterized in relation to CNS pathology and hypoxia conditions. Mitochondrial complex I inactivation, oxidative stress and impairment of mitochondrial nitric oxide synthesis are characteristic features of the mitochondrial dysfunction observed in Parkinson’s disease and other CNS pathologies.

In addition, exposure to hypoxic conditions can affect nitric oxide generation and mitochondrial physiology, with different responses depending on the brain area.

As a whole, the understanding of the alterations in mitochondrial distribution and function in the brain associated with neurotoxicity and neurodegeneration may contribute to the knowledge of the role of mitochondria in maintaining the balance between health and disease.

HB 9781536166507 £178.99 February 2020 Nova Science Publishers 298 pages

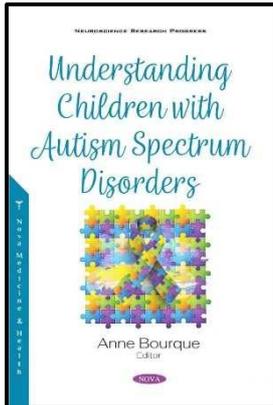


Handbook of Deep Brain Stimulation

Edited by Sujith Ovallath Thazha Kuniyil

Deep brain Stimulation (DBS) is being increasingly carried out for several neurological disorders, the most common being Parkinson's disease. This handbook on Deep brain Stimulation will serve as a quick reference manual for those who want to gain expertise on this advanced neurosurgical technique wherein neurologists, neurosurgeons and neurophysiologists play key roles. The indications, procedures, complications and scientific trials to substantiate the evidence for the use of DBS are dealt with under different headings by experts in the respective fields. This will serve more as a practical guide than a theoretical text book as it is written based on the hands on experience of the respective authors.

PB 9781536170108 £87.99 January 2020 Nova Science Publishers 184 pages



Understanding Children with Autism Spectrum Disorders

Edited by Anne Bourque

Understanding Children with Autism Spectrum Disorders first discusses auditory processing disorders are, specifically how auditory processing problems can affect children with autism spectrum disorders, and appropriate evidence-based treatments.

The authors highlight the challenges associated with making a dual diagnosis, and discuss specific anatomical differences in the central auditory pathway and brain.

Also highlighted is the need for improved research on intervention programs and the important service needs for families and children with autism spectrum disorders.

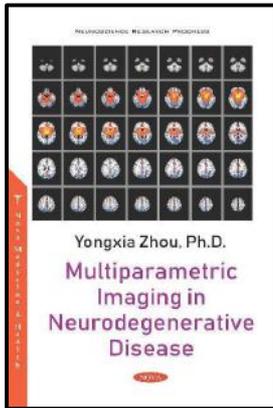
A study is presented wherein pediatric volition among children with autism spectrum disorders participating in the Holland Bloorview (HB) FIRST® robotics program is measured.

A review is carried out in order to describe the main neurotransmitters in autism spectrum condition patients. Among the studied neurotransmitters, increased serotonin and glutamate as well as decreased levels of gamma-aminobutyric acid N-Acetylaspartate and oxytocin appear to have the most empirical evidence.

The authors assess the relationship between autism spectrum disorder symptomatology, theory of mind, and other individual factor on children's responses through a study attempting to determine the factors that contribute to the complexity of the emotion of embarrassment.

The closing study addresses that with respect to dietary issues, awareness of the eating habits and feeding problems experienced by autism spectrum disorder children needs to be emphasized among parents and guardians.

HB 9781536176476 £146.99 April 2020 Nova Science Publishers 255 pages



Multiparametric Imaging in Neurodegenerative Disease

Yongxia Zhou

Neuroimaging techniques that can help elucidate and characterize the nature and mechanism of tissue injury and disease progression in neurodegenerative disease are of particular importance given their roles in seeking successful preventive and therapeutic treatments. Studying large-scale samples with various disease mechanisms using multi-parametric imaging, as well as revealing the correlations between the neuroimaging metrics and clinical data including neurocognitive function and neuropsychological inventories to elucidate multiple factors affecting the neurodegeneration processes in brain are the main topics of this book.

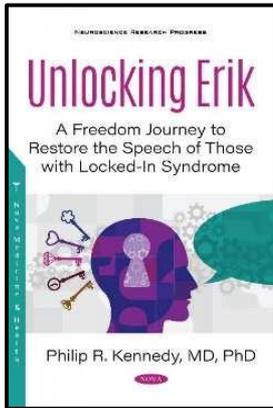
In addition, the neural underpinnings of cognitive and psychological functions with advanced functional imaging techniques can provide better cross-validation and clinical symptom relevance of multi-parametric data. Expanding the current findings with higher diagnosis accuracy and detection specificity in multiple neurodegenerative diseases as well as better differentiation of each type are the ultimate goal. The results in this book will extend the current notion of diagnosis value of various relatively new imaging techniques in multiple neurodegenerative diseases including traumatic brain injury, post-traumatic stress disorder, multiple sclerosis and early stage of Alzheimer's disease such as mild cognitive impairment.

Specifically, the neurobiology and related imaging findings of the four representative neurodegenerative diseases will be introduced and reviewed, including brain region-specific and disease-related alterations, unique clinical symptoms of each disease, as well as previous findings and challenges. There is an increasing body of literature suggesting that damage to the default mode network, hypothalamus, thalamus and hippocampus neuronal networks and local injuries might be under-diagnosed and may account for some of the sequelae following the neurodegenerative injuries including trauma and dementia.

The relatively novel imaging results to differentiate each disease using advanced functional connectivity, neuronal activity, microstructure integrity analysis based on structural connectivity, multi-dimensional morphometry and molecular imaging tracers including amyloid and tau for neuropathological burden quantification were presented to differentiate each type of disease. We then briefly reviewed some of the therapeutic effects of traditional Chinese medicine with neuroimaging quantifications to help treating neurodegenerative diseases. Finally, our work proves that the multi-parametric neuroimaging methods with more than twelve metrics and numerous tight clinical association data presented in this book are the most forefront and up-to-date with enough sensitivity, precision and resolution.

Taken together, multiple neuroimaging metrics have been demonstrated in this book to identify and quantify significant and distinct brain alterations at function, microstructure, morphology and molecular scales in different types of neurodegenerative diseases with high sensitivity and specificity. These comprehensive imaging features could be combined to improve disease diagnosis accuracy. The aim of this book is thus intended to provide both beginners and experts in biomedical imaging and health care a broad and complete picture as well as the new developments of using multiple metrics in improving disease identification and diagnosis accuracy. This book would hopefully capture the interests of colleagues interested in neurodegenerative disease diagnosis and treatment, and could help convey the methodological and integrative perspectives of multi-parametric neuroimaging applications.

HB 9781536153385 £146.99 January 2020 Nova Science Publishers 208 pages

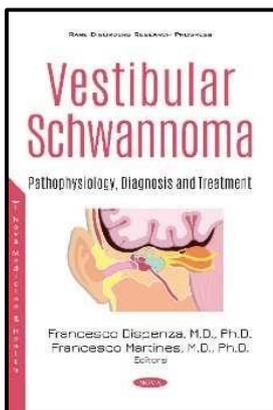


Unlocking Erik A Freedom Journey to Restore the Speech of Those with Locked-In Syndrome

Philip R. Kennedy

This book depicts the trials and tribulations when trying to restore speech to Erik who was locked-in (paralyzed and mute) at age 16. We implanted electrodes into his brain, initiating a decade of breakthrough research in speech recovery. It led to the author's own brain implant and the consequent successful offline development of the speech prosthetic whereby mute, locked-in people can speak. Part 1 is Erik's story of how he became locked-in following a brainstem stroke, and our efforts to break him out of his locked-in state by helping him speak. It describes my decision making, the tremendous contribution of his family, their anguish and the very relevant comparison with famous locked-in people, namely, Stephen Hawking and Jean-Dominique Bauby (The Diving Bell and the Butterfly). It also documents conversations between the author and Erik's Dad, Eddie. Eddie describes how he was trained in a rehabilitation hospital to take care of his son. His 16-year devotion to his son is unparalleled and heroic. Part 2 is a condensed and easy to follow version of the scientific aspects of this research. Part 2 also contains important contributions from other researchers in the field, in a question and answer format. Figures and videos on the website (www.neuralsignals.com) augment the text. Finally, there is a description of the documentary associated with this book written by the producer called 'Father of the Cyborgs'.

PB 9781536174557 £77.99 May 2020 Nova Science Publishers 243 pages



Vestibular Schwannoma Pathophysiology, Diagnosis and Treatment

Edited by Francesco Martines

Vestibular schwannoma is a rare benign tumor arising from VIII cranial nerve. Its localisation into internal auditory canal and cerebello-pontine angle is the main reason for the relevant clinical implication of such disease.

This book develops all the features regarding the vestibular schwannoma, starting from the biology of the tumor, passing to the clinical presentation and instrumental diagnostic pathway to make diagnosis and concluding with therapeutic options linked to several factors regarding tumor size, localisation, symptoms, patient characteristics and outcome.

The chapters are divided into 3 sections: pathophysiology, clinical features and treatment.

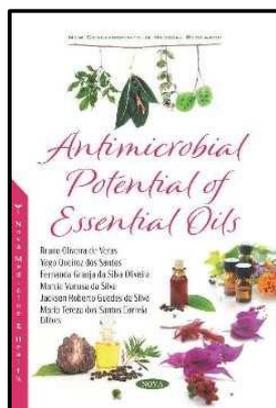
Advancements in microsurgical technique and radiosurgery, coupled with an increased understanding of the natural history of the disease, have made modern management of this tumor considerably more complex and the opinions are still divided between conservatism and definitive cure.

The last section includes the rehabilitation after treatment of patients affected by vestibular schwannoma.

The contributions to this book were done by several eminent expert authors in their field, and all references are up to date. This is a robust resource for residents, fellows, and early attending physicians, as well as mid- to later-career physicians who care for patients with vestibular schwannoma.

HB 9781536171914 £146.99 April 2020 Nova Science Publishers 259 pages

New Developments in Medical Research



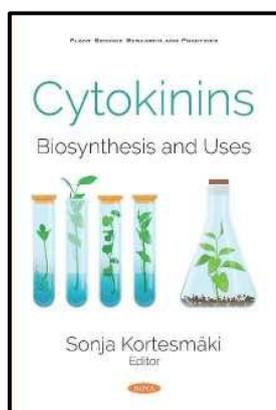
Antimicrobial Potential of Essential Oils

Edited by Bruno Oliveira de Veras

Instead of relying on prescription medications with numerous dangerous side effects, what if you could opt for a safer, natural alternative to address your health concerns? Medicinal plants for therapeutic purposes have been used for many years. The antimicrobial activity of essential oils and their major constituents has been widely documented by several works, however, in a fragmented way. Based on this premise, this book is designed to provide an overview of current knowledge about the antimicrobial properties of essential oils and their mechanisms of action, either alone or in combination, as a possible tool for obtaining new antibiotics.

PB 9781536169454 £87.99 March 2020 Nova Science Publishers 196 pages

Plant Science Research & Practices



Cytokinins

Biosynthesis and Uses

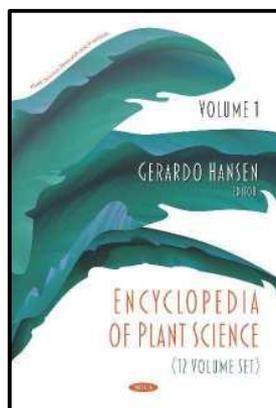
Edited by Sonja Kortesmäki

Cytokinins: Biosynthesis and Uses discusses ornamental pot plant productivity, which is negatively affected by the pot root restriction during both the nursery and post-transplant stages. Root restriction is a physical stress imposed on the root system when plants are grown in small containers, which leads to a pronounced decrease in root and shoot growth at both the transplant and pot stages.

Next, the authors summarize most information available on the main environmental and hormonal factors that affect New Guinea Impatiens plant growth under commercial conditions and shows the high potentiality of exogenous cytokinin application in both the vegetative propagation industry and pot culture of ornamental plants.

The closing chapter addresses how understanding plant responses to hormonal manipulation and the physiological mechanisms involved in transplantation will allow for reaching higher commercial yields in different vegetables.

PB 9781536170498 £75.99 January 2020 Nova Science Publishers 174 pages



Encyclopedia of Plant Science

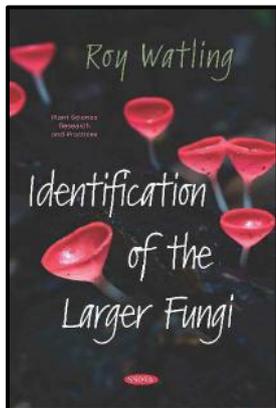
12 Volume Set

Edited by Gerardo Hansen

This twelve volume set covers a wide range of topics, including:

- medical marijuana
- bioactive packaging
- weed management
- biocontrol agents

HB 9781536167566 £1,697.99 March 2020 Nova Science Publishers 3986 pages

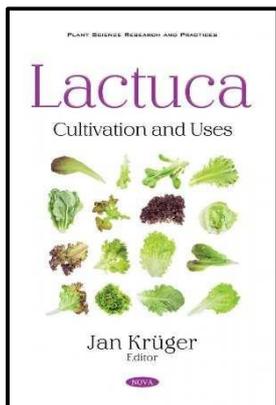


Identification of the Larger Fungi

Roy Watling

Identification of the Larger Fungi is ecologically biased in order to emphasize a rather neglected aspect of the higher fungi. The book is arranged in three parts: the agarics are dealt with first, the non-agarics next, both with particular reference to their major habitat preferences, and lastly a catalogue of those more specialised habitats which are frequently encountered. All parts are supported at the end by lists in tabular form of those species expected to be found in any one habitat. Keys to the major groups, families and genera, are included to widen the scope of the book and place the examples chosen and illustrated in the text in their position in classification.

HB 9781536169690 £211.99 February 2020 Nova Science Publishers 318 pages



Lactuca

Cultivation and Uses

Edited by Jan Krüger

The *Lactuca* genus, which is characterized by a variety of forms including annual, biennial and perennial, glabrous or pubescent herbs with abundant latex, belongs to the Asteraceae family. *Lactuca* is an essential source of phytochemicals and is used in traditional medicine.

The authors discuss *Lactuca sativa*'s anti-inflammatory, antioxidant, antidiabetic, antimicrobial, analgesic, sedative and neuroprotective effects.

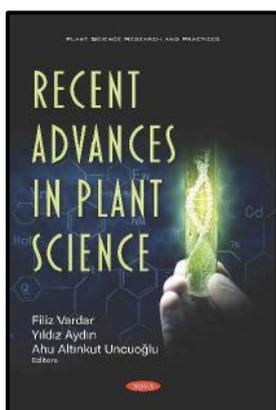
The antibacterial effects of *Lactuca sativa* extracts are evaluated using the microwell dilution method against a wide range of clinical isolated bacteria, and the antioxidant effects are tested using ferric-reducing antioxidant power and catalase activity assay.

The genetic transformation of lettuce is examined in conjunction with the applications of this transformation in plant biotechnology.

The potential for *Ulva lactuca* to be used as a bioindicator of contamination is studied, as well as its capability to be employed for the removal of pollutants.

The authors explore the hypothesis that if a sufficient amount of free vitamin B12 can be incorporated into lettuce leaves grown under hydroponic conditions, lettuce could become an excellent source of vitamin B12 for vegetarians and elderly people.

PB 9781536177299 £87.99 April 2020 Nova Science Publishers 185 pages

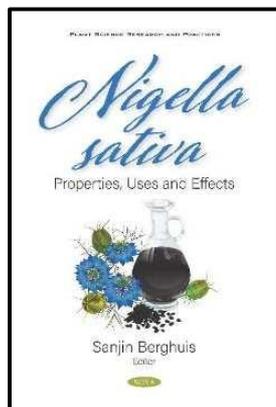


Recent Advances in Plant Science

Yildiz Aydın

This book compiles original and review advances from a number of different focuses and latest developments in the important field of plant biology/science from around the world. The publication will be a beneficial and valuable resource for many people and groups related to plant growth and development as well as teachers, researchers, commercial growers and advanced students of plant biological science. The proposed publication can be used in some interesting and unusual places such as biofuels, edible vaccine, phytoremediation and cosmetics.

HB 9781536172652 £211.99 February 2020 Nova Science Publishers 434 pages



Nigella sativa **Properties, Uses and Effects**

Edited by Sanjin Berghuis

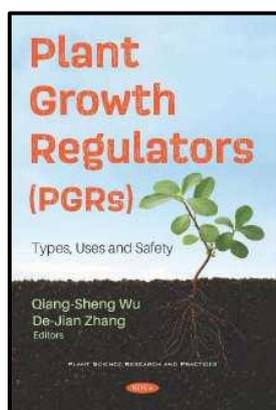
Nigella sativa: Properties, Uses and Effects outlines current knowledge on the nutritive value of *Nigella sativa* (black cumin). *N. sativa* has many therapeutic effects and is considered one of the most important medicinal plants in the world because of its antioxidant, anticocccial, anthelmintic and antimicrobial properties.

Based on the use of *N. sativa* in traditional medicine as a treatment for some diseases, researchers have investigated its effects on asthma, hypertension, diabetes, and inflammation.

Much of the biological properties of *N. sativa* including antihypertensive nephroprotection, antipyretic, antimicrobial, and antineoplastic has been attributed to presence of thymoquinone. As such, the authors accounts for therapeutic potential of thymoquinone.

Additionally, a field experiment was conducted to determine the influence of plant density and fertilization on seed and biomass yield and quality of *N. sativa* in order to define alternatives to local forage and feed sources for animals feeding in the Mediterranean region.

PB 9781536175387 £87.99 March 2020 Nova Science Publishers 203 pages



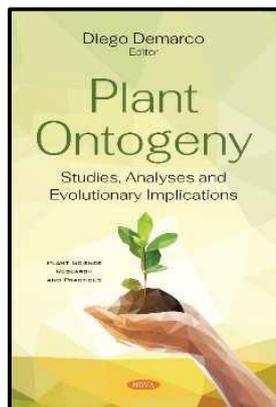
Plant Growth Regulators (PGRs) **Types, Uses and Safety**

Edited by Qiang-Sheng Wu

Plant growth regulators consist of organic molecules produced synthetically and used to modulate plant growth. There are several classes of plant growth regulators, including auxin, gibberellin, abscisic acid, cytokinins, salicylic, jasmonic acid and ethylene, as well as more recently investigated brassinosteroids, strigolactones, polyamine, etc.

These plant growth regulators have either promoting or inhibitory effects on plant growth and development by means of modification in plant secondary metabolism and gene regulation. Some of plant growth regulators may have safe issues in fields. More attention should be paid in the application of plant growth regulators. Researchers also try to find other regulators to do more field experiments, in order to reduce the amount of organic chemicals (e.g., traditional plant growth regulators) used. This book discusses the function, types, uses and safety of plant growth regulators. The effects of plant growth regulators on horticultural plants are specially introduced in this book. Fly ash and soil mycorrhizal fungi-released glomalin also get a lot of attention in this book.

PB 9781536172560 £75.99 February 2020 Nova Science Publishers 164 pages



Plant Ontogeny Studies, Analyses and Evolutionary Implications

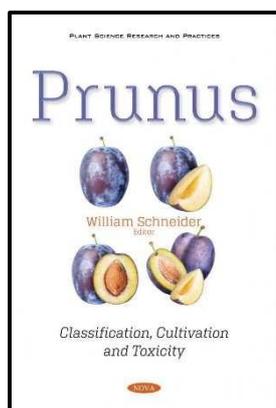
Edited by Diego Demarco

This book delves into the many facets of the study of plant development and demonstrates the importance of ontogenetic studies in analyzing the structure, function, and evolution of glands, structures, and organs. The nine chapters that make up this book represent the state of the art of the scientific knowledge on the subject and bring unpublished contributions and important reviews of the most diverse developmental issues of plants compiled for the first time in a single book. Chapter 1 describes an unprecedented way secretory ducts form as the result of cavity coalescence in Malvaceae. Chapter 2 describes a case of homeoheterotopic alteration between nectaries and colleters in Passifloraceae and analyzes the evolution of leaf glands in the family.

Chapter 3 emphasizes the importance of anatomical, histochemical and ontogenetic studies in distinguishing colleters and nectaries in leaves of *Sapium* (Euphorbiaceae) and highlights the importance of ontogenetic studies for the observation of new colleters since many of them are deciduous. Chapter 4 reviews leaf development in vascular plants using traditional morphological and anatomical knowledge combined with the most recent data obtained in molecular studies. Chapter 5 reviews the morphogenesis and evolution of haustoria in mistletoes and evaluates the likely reasons that led to the change from root parasitism to aerial parasitism in Santalales.

Chapter 6 demonstrates the importance of the meristematic activity and bud formation for the structure of inflorescences in Acanthaceae, revealing the causes of their architectural diversity in genera such as *Lepidagathis*. Chapter 7 reveals the ontogenetic causes that resulted in varying degrees of flower reduction, separation of sexes, and their relationship with pollination in urticalean rosids. Chapter 8 uses the ontogenetic study of flowers to analyze the diversity of polyads in Leguminosae and their importance in the taxonomy of the family and the dispersal mode of pollen. Chapter 9 investigates the mode of formation of the pseudomonomerous gynoecea using Anacardiaceae as a model and discusses the evolution of this morphological reduction of gynoeceum in other lineages of angiosperms.

HB 9781536174533 £178.99 April 2020 Nova Science Publishers 291 pages



Prunus Classification, Cultivation and Toxicity

Edited by William Schneider

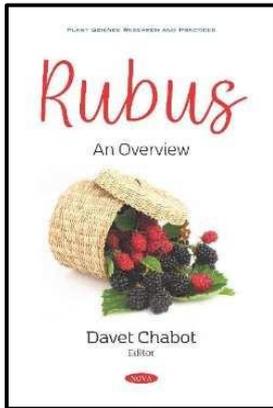
Prunus: Classification, Cultivation and Toxicity opens with a study wherein functional components of prunes such as caffeoylquinic acid isomers and quinic acid are quantified by means of high-performance liquid chromatography analysis.

Prunus avium L is examined, particularly focusing on their profile of bioactive compounds, the health benefits associated with their consumption, as well as their potential therapeutic properties.

Also examined in this collection is *Prunus serotina* Ehrh., a tree species native to North America, appreciated for its valuable wood and ornamental leaves and flowers.

The classification, toxicity, and techniques used to propagate and disseminate the endangered *Prunus africana* are assessed in an effort to improve its medicinal utilization and sustainable conservation.

PB 9781536177558 £87.99 April 2020 Nova Science Publishers 203 pages



Rubus An Overview

Edited by Davet Chabot

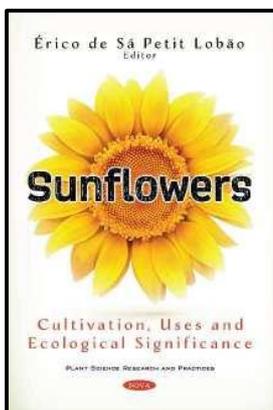
Rubus blackberries are grown worldwide and are known for their excellent nutritional and bioactive characteristics, particularly due to their high content of nutrients such as sugars, dietary fibre, minerals, and phenolic compounds. *Rubus: An Overview* summarizes the available data on nutrients, bioactive compounds, and health-promoting properties of the most studied Rubus blackberries.

Similarly, the authors review the role of the phenolic compounds in Rubus blackberries in the prevention and treatment of neurodegenerative disorders. Experimental studies suggest that anthocyanins of these fruits can improve cognition and human health.

The main pathogens and phytoparasites that cause damage in raspberries, thus causing important economic losses in the crop, are also reviewed.

The concluding chapter suggests that increasing the role of genomics and genome editing technologies in Rubus presents new opportunities to develop more focused molecular tools for gene discovery and deployment.

PB 9781536173765 £75.99 March 2020 Nova Science Publishers 152 pages



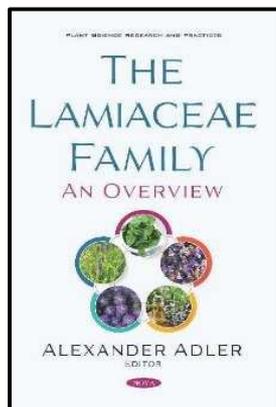
Sunflowers Cultivation, Uses and Ecological Significance

Edited by Érico de Sá Petit Lobão

Sunflower: Cultivation, Uses and Ecological Significance is a work that brings together renowned researchers from four different countries with experience and scientific competence in the research of *Helianthus annuus* L. The book consists of six chapters that present information referenced in years of research on various topics such as: a short sunflower review; an organic fertilization revision; the stages of sunflower development; the sunflower under water stress conditions; the sunflower genetic variability; and the development of composite materials.

In each section of this book the authors have provided a little feedback on their extensive work from years of research devoted to the knowledge, domestication and improvement of the use of the species. There are a huge range of sunflower varieties currently being used by modern civilization for different purposes and applications. It is an extremely versatile species that can deliver extraordinary results in different sectors, whether as a highly healthy food in the food industry or as a strategic oilseed for the bioenergy and biofuels segment. It would be impossible to gather all the available information in a single work, however, this small work aims to contribute to the global collection about the species and guide future works that are still needed for the best use of this incredible plant that is the sunflower.

PB 9781536171952 £75.99 February 2020 Nova Science Publishers 158 pages



The Lamiaceae Family

An Overview

Edited by Alexander Adler

The Lamiaceae Family: An Overview provides information on the ethnobotanical, chemical diversity, pharmacological activities and commercial importance of over 100 Himalayan Lamiaceae species belonging to *Nepeta*, *Ocimum*, *Mentha*, *Elsholtzia*, *Ajuga*, *Origanum*, *Thymus*, *Hyssopus*, *Calamintha*, *Plectranthus*, *Coleus*, *Perilla*, *Pogostemon*, *Salvia*, *Stachys*, *Teucrium* and *Scutellaria*.

Next, the authors provide systematic and thorough information on the phenolic composition of two *Origanum* species extracts obtained using different solvents and/or methods shown to possess antioxidant properties that might be correlated to their traditionally established usage.

In order to protect essential oils from degradation, to improve their stability and bioavailability, different methods of their encapsulation in various colloidal systems such as microcapsules, microspheres, nanoemulsions and liposomes are introduced. In addition, literature data revealed that the incorporation of synthetic as well as herbal drugs into phospholipids carriers such as liposomes tended to improve their efficacy.

Following this, in vitro-grown plantlets of *Lavandula officinalis* were subjected to green-synthesized silver nanoparticles at 1, 2 and 4 mg/L concentrations. Growth parameters such as elongation, shoot and root formation and biomass accumulations are investigated to understand the effects of silver nanoparticles on micropropagation.

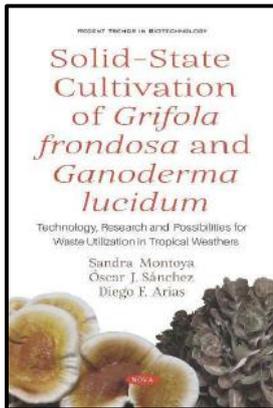
Additionally, the variation of major secondary metabolites in water extracts of 13 different Lamiaceae herbs are investigated. After raising for 8 weeks in the greenhouse, the herbs were harvested and cryopreserved using liquid nitrogen. Afterward, sample extracts (20% w/v) were prepared from the leaf using ultrapure water and analyzed using UPLC-MS/MS.

The authors presents some evidence about homoploid hybridization of *Origanum* genus put forward by Letswaart. If habitat, ecological and geographic isolations occur between the hybrids and their parents, these hybrids can be speciated via homoploid hybridization in the future.

In conclusion, an overview of aromatic species belonging to the family Lamiaceae is presented, and the chemical composition of the volatile fraction of these existing species in Ecuador is also reported.

HB 9781536170788 £211.99 April 2020 Nova Science Publishers 348 pages

Recent Trends in Biotechnology



Solid-State Cultivation of *Grifola frondosa* and *Ganoderma lucidum* Technology, Research and Possibilities for Waste Utilization in Tropical Weathers

Sandra Montoya

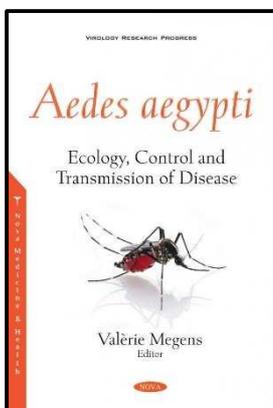
The worldwide market of medicinal mushrooms is constantly increasing considering the improvement of the level of life of population and the concerns for a healthy quality of life. The consumption of Macromycetes fungi as delicatessen food or nutraceuticals is increasing due to their gourmet features, nutritional characteristics and medicinal properties. The fruiting bodies of several fungal species contain different types of compounds that are valuable in the medical and cosmetic industry and have applications in other industrial sectors. However, the cultivation of Macromycetes is not fully disseminated at world level and just a few species are grown on a commercial scale (about 10 species).

In particular, the demand of the Macromycetes *Grifola frondosa* (Maitake) and *Ganoderma lucidum* (Reishi) in their different trade presentations is increasing because of their medicinal features and their applications in the pharmaceutical industry. Thus, research and development regarding the improvement of the cultivation parameters for these two fungal species have a paramount importance in order to reach a higher coverage in their industrialization. *G. frondosa* is a less-known and newer species in the mushroom industry. Its cultivation presents different levels of complexity and there are a few commercial facilities for its production. Likewise, *G. lucidum*, although more known than Maitake, exhibits significant complexity levels during its cultivation as well. In the present book, a comprehensive compilation of the developments achieved for improving the cultivation parameters of these two species in tropical weathers aimed at implementing them at industrial scale is provided. The book presents extensive research outcomes obtained by the authors not only at small scale, but also at pilot and industrial scales.

The main markets for these two species are presented as well as the most promising residual feedstocks to be used for production of Reishi and Maitake fruiting bodies in the context of countries with tropical weather. The conventional procedures for solid-state cultivation at different production scales is analyzed and specific conditions for such production in tropical weathers are also discussed.

HB 9781536164817 £178.99 February 2020 Nova Science Publishers 298 pages

Virology Research Progress



Aedes aegypti Ecology, Control and Transmission of Disease

Edited by Valérie Megens

The *Aedes aegypti* mosquito is a recognized vector for dengue, chikungunya, and Zika arboviruses, and has had a significant dispersion in recent years across the southern hemisphere.

It is a known nuisance species in the United States and is believed to have been brought to the new world on ships used for European exploration and colonization.

In recent years, the use of entomopathogenic fungi has proven a promising tool for the biocontrol of Culicids that threaten public health. As such, the authors systematically review studies that evaluated the main entomopathogenic genera used in the biological control of these vectors.

PB 9781536181975 £75.99 August 2020 Nova Science Publishers 136 pages



Gazelle Book Services Limited,
Unit 1/4, White Cross Mills,
Hightown, Lancaster LA1 4XS

t: (01524) 528500

e: sales@gazellebookservices.co.uk

www.gazellebookservices.co.uk

Gazelle Book Services Order Form - (Books listed alphabetically by title)

Title	Format	ISBN	RRP (£)	Qty	Total
A Closer Look at Actinomycetes	HB	9781536170467	£ 178.99		
A Closer Look at Fibroblasts	PB	9781536169775	£ 87.99		
A Closer Look at Hormones	HB	9781536172546	£ 178.99		
A Closer Look at Marine Debris	HB	9781536179729	£ 211.99		
A Closer Look at Pyrophosphates	PB	9781536177305	£ 75.99		
A Comprehensive Guide to Genetic Counseling	PB	9781536169751	£ 87.99		
Advanced Glycation End-Products	PB	9781536175479	£ 75.99		
Advances in Animal Science & Zoology - Vol. 15	HB	9781536182545	£ 229.99		
Advances in Genetics Research - Vol. 19	HB	9781536174373	£ 229.99		
Advances in Medicine & Biology - Vol. 157	HB	9781536171624	£ 229.99		
Advances in Medicine & Biology - Vol. 159	HB	9781536171846	£ 229.99		
Advances in Medicine & Biology - Vol. 162	HB	9781536176308	£ 229.99		
Aedes aegypti	PB	9781536181975	£ 75.99		
Amylose	HB	9781536169324	£ 211.99		
Angiotensin-Converting Enzyme	HB	9781536172492	£ 211.99		
Antimicrobial Potential of Essential Oils	PB	9781536169454	£ 87.99		
Beta-Lactamases	PB	9781536168181	£ 87.99		
Bovine Serum Albumin	HB	9781536167870	£ 146.99		
Brain Mitochondria	HB	9781536166507	£ 178.99		
Brain-Based Treatment	PB	9781536169515	£ 146.99		
Crayfish	HB	9781536169416	£ 178.99		
Cytokinins	PB	9781536170498	£ 75.99		
Dinoflagellates	HB	9781536178883	£ 311.99		
Encyclopedia of Animal Science - 15 Volume Set	HB	9781536156911	£2,064.99		
Encyclopedia of Avian Science - 4 Volume Set	HB	9781536167986	£ 614.99		
Encyclopedia of Cell Biology	HB	9781536167580	£1,330.99		
Encyclopedia of Plant Science - 12 Volume Set	HB	9781536167566	£1,697.99		
From Molecules to Organisms	HB	9781536175516	£ 146.99		
Handbook of Deep Brain Stimulation	PB	9781536170108	£ 87.99		
Horizons in Neuroscience Research - Vol. 38	HB	9781536172126	£ 229.99		
Horizons in Neuroscience Research - Vol. 39	HB	9781536176742	£ 229.99		
Horizons in Neuroscience Research - Vol. 40	HB	9781536181944	£ 229.99		
Hyaluronic Acid	PB	9781536170597	£ 75.99		
Identification of the Larger Fungi	HB	9781536169690	£ 211.99		



Gazelle Book Services Limited,
Unit 1/4, White Cross Mills,
Hightown, Lancaster LA1 4XS

t: (01524) 528500

e: sales@gazellebookservices.co.uk

www.gazellebookservices.co.uk

Title	Format	ISBN	RRP (£)	Qty	Total
Lactuca	PB	9781536177299	£ 87.99		
Leptospira Infection in Wild Animals	HB	9781536182224	£ 146.99		
Leydig Cells	PB	9781536172829	£ 75.99		
Microbial Communication & Microbiota-Host Interactivity	HB	9781536175066	£ 211.99		
Micronucleus Assay	PB	9781536166781	£ 87.99		
Multiparametric Imaging in Neurodegenerative Disease	HB	9781536153385	£ 146.99		
Nigella sativa	PB	9781536175387	£ 87.99		
Plant Growth Regulators (PGRs)	PB	9781536172560	£ 75.99		
Plant Ontogeny	HB	9781536174533	£ 178.99		
Prunus	PB	9781536177558	£ 87.99		
Recent Advances in Plant Science	HB	9781536172652	£ 211.99		
Research Advances in the Fungal World	HB	9781536171976	£ 211.99		
Rubus	PB	9781536173765	£ 75.99		
Solid-State Cultivation of Grifola frondosa & Ganoderma lucidum	HB	9781536164817	£ 178.99		
Sterols	PB	9781536172317	£ 75.99		
Sunflowers	PB	9781536171952	£ 75.99		
The Arctic	HB	9781536173062	£ 211.99		
The Lamiaceae Family	HB	9781536170788	£ 211.99		
Understanding Children with Autism Spectrum Disorders	HB	9781536176476	£ 146.99		
Unlocking Erik	PB	9781536174557	£ 77.99		
Vestibular Schwannoma	HB	9781536171914	£ 146.99		
What Makes Us Humans	HB	9781536168532	£ 211.99		



Gazelle Book Services Limited,
Unit 1/4, White Cross Mills,
Hightown, Lancaster LA1 4XS

t: (01524) 528500

e: sales@gazellebookservices.co.uk

www.gazellebookservices.co.uk



GazelleBookServices



GazelleBookServices



@Gazellian



GazelleBooks