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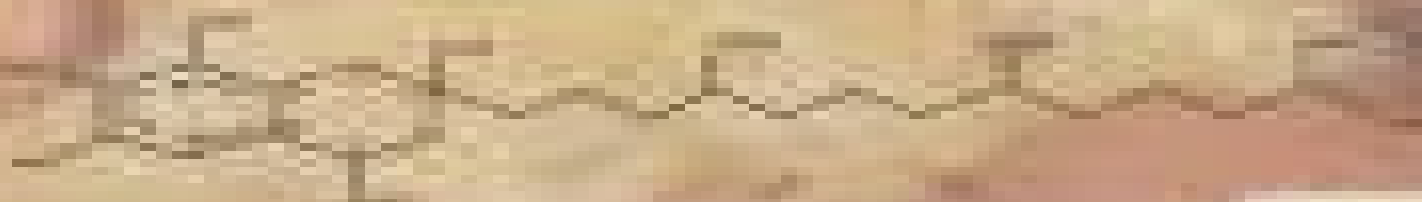
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Natural Antioxidants In Avian Nutrition And Reproduction

Duncan J. Irschick, Mark Briffa, Jeffrey Podos



Natural Antioxidants In Avian Nutrition And Reproduction:

Natural Antioxidants in Avian Nutrition and Reproduction Peter F. Surai, 2002 The main aim of this volume is to provide up to date information about natural antioxidants in relation to avian physiology nutrition and reproduction A comparison with farm animals and humans is made where appropriate

Vitagenes in avian biology and poultry health Peter Surai, 2023-08-14 Commercial poultry production is associated with various types of stress leading to decrease of productive and reproductive performance and compromised health of growing chickens parent birds as well as commercial layers Stress adaptation is associated with various signaling pathways and is executed at the gene level The term vitagenes refers to a group of redox sensitive genes that are involved in stress sensing and preserving cellular adaptive homeostasis The vitagene family includes heat shock proteins superoxide dismutase glutathione and thioredoxin systems and sirtuins The vitagenes are key players in redox signaling and redox homeostasis maintenance in birds including poultry under commercial stress conditions of egg and meat production Development of the vitagene concept become an important milestone in understanding molecular mechanisms of adaptation to stress The goal of this book is to provide up to date information about the roles of vitagenes in avian biology and poultry health Special emphasis is put on the role of vitagenes as an essential part of the redox homeostasis maintenance stress adaptation and development of adaptive homeostasis The book provides data to indicate that nutritional modulation of vitagenes is a new direction in nutritional sciences Practical results of the successful usage of the vitagene concept in poultry production are also presented This book is intended to be of practical importance to avian animal scientists poultry producers to nutritionists and vets students of biological and agricultural colleges and universities It can also be interesting for researchers in areas related to physiology biochemistry nutrition ecology environmental sciences evolutionary biology etc

Selenium in pig nutrition and health Peter Surai, 2023-08-14 Selenium Se is an essential dietary trace element participating in the regulation of various physiological functions in humans farm animals and poultry through its incorporation into a range of selenoproteins Low Se content in main feed ingredients is a common problem worldwide and dietary Se supplementation is a current practise in pig nutrition Recent research clearly proved that sodium selenite used as a feed supplement for the last 45 years is not an optimal form of Se However use of organic selenium in pig diets can help meeting Se requirement and maintain health high immunocompetence productive and reproductive performance The goal of this book is to provide up to date information about the roles of Se in pig nutrition and health The role of selenium as an essential part of the integrated antioxidant system gets special attention Organic Se concept in pig nutrition is described in detail with emphasis to selenomethionine as a storage form of Se in the body and to selenocysteine the active form of selenium within the selenoproteins Specific Se deficiency related disorders in pigs are also described and the importance of Se in growth development immunity and reproduction is demonstrated Molecular mechanisms of protective effects of Se under stressful conditions of commercial pig production are characterised This book

will be of practical importance to pig producers to nutritionists and vets as well as for pig animal scientists students of agricultural colleges and universities It will also be of interest for researchers in areas related to ecology environmental sciences food sciences etc

Selenium in poultry nutrition and health Peter F. Surai,2023-08-07 Selenium Se is an essential dietary trace element participating in the regulation of various physiological functions in humans farm animals and poultry through its incorporation into a range of selenoproteins Low Se content in main feed ingredients is a common problem worldwide and dietary Se supplementation is a current practise in poultry and farm animal nutrition Recent research clearly proved that sodium selenite used for the last 40 years as a feed supplement is not an optimal form of Se However use of organic selenium in animal poultry diets can help meeting Se requirement and maintain high immunocompetence productive and reproductive performance The goal of this book is to provide up to date information about the roles of Se in poultry nutrition and health A special emphasis is given to the role of selenium as an essential part of the integrated antioxidant system Se in feed and organic Se are characterised in detail with emphasis to selenomethionine as a storage form of Se in the body Also specific Se deficiency related diseases in poultry are described and the importance of Se in growth development immunity and reproduction is demonstrated A link between poultry industry and human health via production of Se eggs and Se enriched meat is shown This book will be of practical importance to poultry producers to nutritionists and vets as well as for avian animal scientists students of agricultural colleges and universities It will also be of interest for researchers in areas related to ecology environmental sciences evolutionary biology etc

Optimum Vitamin Nutrition for More Sustainable Poultry Farming Edgar Oviedo-Rondon,Ana C. Barroeta,Ricardo Cepero Briz,Gilberto Litta,José-María Hernandez,2023-02-28 Food production particularly animal protein production is changing While productivity efficiency and food quality continue to be of vital importance there is increasing pressure on producers to prioritize sustainability and animal health and welfare as well minimize food waste Optimizing vitamin nutrition can help make animal production more sustainable by optimizing animal health and welfare and animal performance and food quality while reducing food waste Optimum Vitamin Nutrition for More Sustainable Poultry Farming contains concise up to date information on vitamin nutrition for poultry This book which follows the authoritative Optimum Vitamin Nutrition in the Production of Quality Animal Foods 5m Books 2013 is a reference for research and extension specialists who need the most current research based information on vitamins in poultry This book is first in a series of books covering Optimum Vitamin Nutrition in swine ruminants and aquaculture

Selenium in ruminant nutrition and health Peter Surai,2024-05-21 Selenium Se is an essential dietary trace element participating in the regulation of various physiological functions in humans and farm animals through its incorporation into a range of selenoproteins Low Se content in main feed ingredients is a common problem worldwide and dietary Se supplementation is a current practice in ruminant nutrition Recent research clearly proved that sodium selenite used for the last 50 years as a feed supplement is not an optimal form of Se However use

of organic selenium in dairy and beef diets can help meet Se requirement and maintain health high immunocompetence productive and reproductive performance The goal of this book is to provide up to date information about the roles of Se in ruminant nutrition and health A special emphasis is given to the role of selenium as an essential part of the integrated antioxidant system The concept of using organic Se in ruminant nutrition is described in detail with emphasis on selenomethionine as a storage form of Se in the body Also specific Se deficiency related disorders in ruminants are described and the importance of Se in growth development immunity and reproduction is demonstrated Molecular mechanisms of protective effects of Se under stressful conditions of commercial milk and meat production are characterized This book will be of practical importance to dairy and beef producers to nutritionists and vets as well as for animal scientists students of agricultural colleges and universities It will also be of interest for researchers in areas related to environmental sciences food sciences physiology etc

Avian Immunology Bernd Kaspers, Karel A. Schat, 2012-12-02 The second edition of *Avian Immunology* provides an up to date overview of the current knowledge of avian immunology From the ontogeny of the avian immune system to practical application in vaccinology the book encompasses all aspects of innate and adaptive immunity in chickens In addition chapters are devoted to the immunology of other commercially important species such as turkeys and ducks and to ecoimmunology summarizing the knowledge of immune responses in free living birds often in relation to reproductive success The book contains a detailed description of the avian innate immune system encompassing the mucosal enteric respiratory and reproductive systems The diseases and disorders it covers include immunodepressive diseases and immune evasion autoimmune diseases and tumors of the immune system Practical aspects of vaccination are examined as well Extensive appendices summarize resources for scientists including cell lines inbred chicken lines cytokines chemokines and monoclonal antibodies The world wide importance of poultry protein for the human diet as well as the threat of avian influenza pandemics like H5N1 and heavy reliance on vaccination to protect commercial flocks makes this book a vital resource This book provides crucial information not only for poultry health professionals and avian biologists but also for comparative and veterinary immunologists graduate students and veterinary students with an interest in avian immunology With contributions from 33 of the foremost international experts in the field this book provides the most up to date review of avian immunology so far Contains a detailed description of the avian innate immune system reviewing constitutive barriers chemical and cellular responses it includes a comprehensive review of avian Toll like receptors Contains a wide ranging review of the ecoimmunology of free living avian species as applied to studies of population dynamics and reviews methods and resources available for carrying out such research

Silymarin Puzzle Peter Surai, Anton Surai, 2023-06-26 For the last 30 years polyphenols were in the centre of research work worldwide Silymarin an extract from a medicinal plant *Silybum marianum* also known as milk thistle has a special place in this group having been used in human medicine for the management of liver diseases since ancient times Accumulating scientific evidence indicates that silymarin is characterised

by a wide range of protective pharmacological activities and this topic has received tremendous attention in recent years. However, until now there has been no single monograph addressing major questions related to silymarin chemistry, biochemistry, and practical applications. The goal of this book is to provide up-to-date information about silymarin chemistry, biochemistry, and molecular mechanisms of protective actions of this phytochemical, with a special emphasis to its vitagenic and transcription factor modulating properties. Silymarin applications in human diseases, including hepatoprotection, neuroprotection, anti-diabetic, anti-arthritis, and other protective activities, are reviewed. Immunomodulating, anti-inflammatory, anti-toxic protective activities of silymarin are characterised in detail. Practical applications of silymarin in poultry and animal industry, with a special emphasis on its protective roles in gut health maintenance, are also presented. This book will be of practical importance to medical and pharmaceutical scientists, including medical doctors, pharmacists, consultants, etc., as well as to poultry and animal scientists, poultry producers, nutritionists, and vets, as well as to students of medical, biological, and agricultural backgrounds. It can also be of interest for researchers in areas related to physiology, biochemistry, nutrition, and veterinary medicine.

Physiological Adaptations for Breeding in Birds Tony D. Williams, 2012-08-05. **Physiological Adaptations for Breeding in Birds** is the most current and comprehensive account of research on avian reproduction. It develops two unique themes: the consideration of female avian reproductive physiology and ecology, and an emphasis on individual variation in life history traits. Tony Williams investigates the physiological, metabolic, energetic, and hormonal mechanisms that underpin individual variation in the key female-specific reproductive traits and the trade-offs between these traits that determine variation in fitness. The core of the book deals with the avian reproductive cycle, from seasonal gonadal development through egg laying and incubation to chick rearing. Reproduction is considered in the context of the annual cycle and through an individual's entire life history. The book focuses on timing of breeding, clutch size, egg size, and egg quality, and parental care. It also provides a primer on female reproductive physiology and considers trade-offs and carryover effects between reproduction and other life history stages. In each chapter, Williams describes individual variation in the trait of interest and the evolutionary context for trait variation. He argues that there is only a rudimentary and, in some cases, nonexistent understanding of the physiological mechanisms that underpin individual variation in the major reproductive life history traits, and that research efforts should refocus on these key unresolved problems by incorporating detailed physiological studies into existing long-term population studies, generating a new synthesis of physiology, ecology, and evolutionary biology.

Ecoimmunology Gregory Demas, Randy Nelson, 2012-01-05. This book critically reviews recent advances in ecoimmunology, a newly emergent interdisciplinary research field that examines interactions among host physiology and disease ecology in a wide range of environmentally relevant contexts.

Handbook of cholesterol Ronald Ross Watson, Fabien De Meester, 2023-07-31. The handbook of cholesterol biology, function, and role in health and disease gathers a substantial set of contributions supporting the modern view that dietary and blood cholesterol are safe or even

beneficial in a balanced omega 6 3 fatty acids environment whereas they may turn into unsafe or detrimental to health in a typical omega 6 fatty acid environment Dietary and blood cholesterol including LDL cholesterol are secondary risk factors which belong to the human omnivorous diet and physiology which may represent clinical valid surrogates of the outcome cardiovascular diseases However the primary risk factors the omega 6 3 fatty acids determine whether human health is in the safe evolutionary zone or not Omega 6 3 fatty acids are essential to human physiology They must be present and maintained in physiologically defined essential amounts and balanced in blood and tissue lipid pools through the diet Chronic deviations from omega 6 3 fatty acids make LDL cholesterol valid indicators of cardiovascular disease The handbook takes preventive and acute approaches based on biochemical and clinical evidence to the management of cholesterol a per se non essential nutrient yet an essential blood and tissue component The reviews especially when combined will help understand the essentiality of dietary and blood cholesterol as risk factors in human health

Handbook of eggs in human function

Ronald Ross Watson, Fabien De Meester, 2023-08-07 Eggs have been used as key part of the human diet for millennia They contain a great variety of nutrients and material to sustain life and growth The role of the egg as natural source of vitamins proteins fats and other nutrients continues to develop Some nutrients have a controversy in benefits and risks This controversy is the subject of several chapters in this book Eggs have been used for decades by pharmaceutical companies as vehicles to grow viruses for vaccines Currently eggs are being developed to make antibodies for human use so called designer eggs Eggs can also be used as vehicle to transport vitamins and minerals to humans via nutrient supplemented laying hens These benefits are subject to commercial expansion as well as being an active research area This book with summary points for each chapter helps you to understand the role of eggs including designer eggs in general nutrition health promotion and disease It is aimed at health scientists nutritionists dieticians and food industry groups

Ecological and Environmental Physiology of Birds

J. Eduardo P. W. Bicudo, William A. Buttemer, Mark A. Chappell, 2010-04 Examining avian physiology in detail this text specifically addresses the unique physiological characteristics of birds although experimental techniques and future research directions are also considered

The Role of Organismal Oxidative Stress in the Ecology and Life-History Evolution of Animals David Costantini, 2024-09-09 This book illustrates the role of cellular oxidative stress as one of the most important physiological cornerstones in the evolution of biodiversity The first part of the book provides the fundamentals to navigate the field and analyse the cross talk between oxidative status homeostasis and other fundamental organismal functions such as immunity and stress physiology The second part of the book argues that oxidative stress underpins the astonishing diversity of adaptations to the environments and the evolution of life history strategies from growth to reproduction Unravelling the un expected ways through which the need of regulating the organismal oxidative status has influenced the evolution of life this book presents a novel integrative way of thinking about how a cellular mechanism has shaped the evolution of life and death

Adaptive and Maladaptive Aspects of

Developmental Stress Giovanni Laviola, Simone Macrì, 2013-01-31 Since the very early stages of life we all experience some form of stress Stressors can be mild to severe and can range from unsuccessfully longing for maternal milk in infancy to recklessly wiggling on a motorbike to be on time to watch the NBA finals on TV to breaking up a relationship All those events that we call stress have the capability of perturbing a given state of psychological and physiological equilibrium and moving it to a different level The transition from crawling to walking has to be considered a form of stress as much as losing a job It is through a continuous cross talk between environmental stressors and individual adaptations that we build our personalities and our ways to cope with daily hassles External challenges should not necessarily be regarded as bad but instead seen as constructive forces forming our ability to navigate a changing world What is stress good for What is stress bad for When and why do we need to be stressed Should we worry about stress When does stress equate to normality When does it turn into pathology We hope with this book to provide some answers to these fundamental questions Oxidative Stress and

Hormesis in Evolutionary Ecology and Physiology David Costantini, 2014-03-27 This book discusses oxidative stress and hormesis from the perspective of an evolutionary ecologist or physiologist In the first of ten chapters general historical information definitions and background of research on oxidative stress physiology hormesis and life history are provided Chapters 2 10 highlight the different solutions that organisms have evolved to cope with the oxidative threats posed by their environments and lifestyles The author illustrates how oxidative stress and hormesis have shaped diversity in organism life histories behavioral profiles morphological phenotypes and aging mechanisms The book offers fascinating insights into how organisms work and how they evolve to sustain their physiological functions under a vast array of environmental conditions

Livestock and Wealth Creation E. Owen, A. Kitalyi, T. Smith, N. Jayasuriya, 2020-11-22 This unique report involving 105 contributors from 26 countries provides invaluable information concerning livestock keeping and poverty alleviation in developing countries **Current advances in selenium research and applications** Peter F. Surai, Jules A.

Taylor-Pickard, 2023-08-28 Selenium Se is an essential dietary trace element participating in the regulation of various physiological functions in both animals and humans through its incorporation into selenoproteins as the amino acid selenocysteine Among many minerals Se has a special place being the most controversial trace element with a narrow gap between essentiality and toxicity Indeed there are important environmental issues considering selenium as a pollutant from the one hand and global selenium deficiency on the other In fact Se deficiency is considered as a risk factor for the development of various diseases in human and animals Decreased Se availability from soils as a result of low soil pH and usage of synthetic fertilizers is the major concern in European countries causing inadequate Se levels in food and feeds Furthermore it seems likely that sodium selenite used for the last 30 years as a feed supplement is not an optimal form of Se and the usage of organic selenium in animal diets could help to maintain optimal Se status as well as high immunocompetence productive and reproductive performance The aim of the present volume is to provide updated

information on several important Se related subjects including Se status in Europe and ways of its improvement advances in Se analysis and speciation in biological material roles of selenium in poultry pig and ruminant nutrition Production of functional Se enriched food the relationship between selenium and mycotoxins polyunsaturated fatty acids as well as reoviruses are also addressed This collection of articles will provide nutritionists veterinarians human doctors researchers and any other readers with new insights into the exciting world of the goddess of the moon SELENIUM

Fighting Multidrug Resistance with Herbal Extracts, Essential Oils and Their Components Mahendra Rai, Kateryna Kon, 2013-05-24 Fighting Multidrug Resistance with Herbal Extracts Essential Oils and their Components offers scientists a single source aimed at fighting specific multidrug resistant MDR microorganisms such as bacteria protozoans viruses and fungi using natural products This essential reference discusses herbal extracts and essential oils used or under investigation to treat MDR infections as well as those containing antimicrobial activity that could be of potential interest in future studies against MDR microorganisms The need to combat multidrug resistant microorganisms is an urgent one and this book provides important coverage of mechanism of action the advantages and disadvantages of using herbal extracts essential oils and their components and more to aid researchers in effective antimicrobial drug discovery Addresses the need to develop safe and effective approaches to coping with resistance to all classes of antimicrobial drugs Provides readers with current evidence based content aimed at using herbal extracts and essential oils in antimicrobial drug development Includes chapters devoted to the activity of herbal products against herpes AIDS tuberculosis drug resistant cancer cells and more

Animal Signaling and Function Duncan J. Irschick, Mark Briffa, Jeffrey Podos, 2015-01-20 The diversity of animal signals has been widely documented and the generality of animal signals also tantalizingly suggests that there are common mechanisms that have selected for their origin However while much progress has been made on some fronts we still lack a general theory about why the diversity of signaling structures exist Our compilation will directly address this gap by focusing on an exciting new arena of sexual selection namely using functional approaches to understand signaling This approach is rooted in the idea that many signals are designed to transmit important functional information that is both important for issues of male quality and hence male competition and female choice The increasing use of technology in sexual selection studies has enabled researchers to test whether signaling is either constrained by or accurately transmits information about functional capacities Further in animals that fight vigorously functional capacities such as endurance or strength may make the difference between winning and losing This volume brings together a diverse collection of researchers who are actively investigating how function and signaling are related These researchers use both a variety of methods and taxa to study animal signaling and we believe that this integrative view is important to open up fresh vistas for why animal signals have evolved

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