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Sirtuin Biology in Medicine Kenneth Maiese, 2021-03-04 *Sirtuin Biology in Medicine Targeting New Avenues of Care in Development Aging and Disease* provides a fascinating and in depth analysis of sirtuins in the body during normal physiology as well during disease highlighting the targeting of sirtuin controlled pathways for the development of innovative efficacious and safe therapeutic strategies for multiple disorders in the body that ultimately can affect lifespan extension Sirtuins are expressed throughout the body have broad biological effects and can significantly impact both cellular survival and longevity during acute and long term illnesses These histone deacetylases play an intricate role in the pathology progression and treatment of several disease entities ranging from neurodegenerative disorders cardiovascular disease immune system dysfunction reproductive dysfunction endocrine disorders gastrointestinal disease drug dependency and aging related disorders Implementing a translational medicine format this unique reference highlights novel signaling pathways for sirtuins that promote stem cell proliferation enhance cellular protection modulate pathways of apoptosis and autophagy and extend life span Each chapter is presented with insightful detail that will be of interest and a comprehensive resource to audiences that include scientists physicians pharmaceutical industry experts nutritionists and students Chapters are authored by internationally recognized experts who discuss the broad role of sirtuins in health and disease Details the basic and clinical role of sirtuins for the development of new clinical treatments Summarizes the multidiscipline views and publications for the compelling discipline of sirtuins by covering systems throughout the body Serves as an important resource for a broad audience of healthcare providers scientists drug developers and students in both clinical and research settings **The Role of Pregnancy Nutrition in Maternal and Offspring Health** Ekaterina Maslova, 2019-12-03 In pregnancy maternal nutrition sustains and nourishes the developing child Imbalances in either the direction of nutritional excess or deficiency can have adverse consequences for child health In addition more research now suggests that good pregnancy nutrition influences child health beyond pregnancy and delivery This includes modifying the risk of child health outcomes as they enter childhood and adulthood through influences on placental development hormonal pathways and organ structure and function Poor pregnancy nutrition may also compromise maternal health during pregnancy which may have long term consequences for women s health Understanding the biological and social mechanisms operating during pregnancy can help in the design of better clinical and public health interventions This Special Issue on The Role of Pregnancy Nutrition in Maternal and Offspring Health includes etiological and mechanistic studies of pregnancy nutrition with short and long term maternal and child health outcomes including original research narrative reviews and systematic reviews and meta analyses Together this body of work provides important insights into the influence of dietary patterns food groups and nutrients on pregnancy outcomes and long term neurodevelopmental respiratory and metabolic health in the children It also highlights nutritional consequences for specific groups of women including those with pregnancy complications and eating disorders Healthy

Aging and Longevity Noah J. Weller, Suresh I. S. Rattan, 2007-11-19 In a climate where many unsubstantiated claims are made it is essential to have access to the best evidence based knowledge on how to extend healthy life expectancy Researchers healthcare practitioners and policy makers come together annually at the International Research Center for Healthy Ageing and Longevity to discuss debate and exchange ideas and the proceedings of the most recent conference is contained in the chapters of this volume Now more than ever a critical need exists for the development of appropriate policies so that aging is seen as a resource and not as an isolating and segregating experience Solid research elucidating the processes of aging must be translated into strategies for clinical practice in order to respond to the needs of an aging population The full spectrum of proven and potential aging interventions including pharmaceutical nutritional clinical educational policy complementary preventive and restorative means were explored at this international meeting The topics covered in this volume include the following 1 Nutritional interventions in aging and age associated disease both diet and supplements 2 dementia in an aging population 3 the new caring financial and asset management and substitute decision making by and for older people 4 how we improve the quality of research into healthy aging 5 promoting balance and preventing falls in an aging population 6 population aging in developing countries 7 promoting health and well being of the older community 8 hormone and metabolic interventions in aging 9 community attitudes and approaches towards human life extension 10 respecting the elders in our care 11 the biology of healthy aging and longevity 12 basic science and mechanisms of aging and longevity 13 sustaining optimal aging inner strength and mutual support 14 wellbeing retirement planning and expectations of the baby boomer generation 15 natural and complementary approaches to age associated disorders 16 psychosocial predictors of healthy aging and longevity lessons from longitudinal studies 17 healthy longevity lessons learned from the world s longest lived people 18 the aging brain 19 baby boomer work force participation 20 quality of care and quality of life for the elderly 21 frontiers of knowledge in biogerontology 22 behavioural and social interventions for healthy aging and longevity NOTE Annals volumes are available for sale as individual books or as a journal For information on institutional journal subscriptions please visit www.blackwellpublishing.com/nyas ACADEMY MEMBERS Please contact the New York Academy of Sciences directly to place your order www.nyas.org Members of the New York Academy of Science receive full text access to the Annals online and discounts on print volumes Please visit www.nyas.org/membership/main.asp for more information about becoming a member

Therapeutic potential of natural products in oxidative and metabolic diseases Ochuko Lucky Erukainure, Aliyu Muhammad, Erukainure, Aliyu Muhammad, Chika Ifeanyi Chukwuma, Md Shahidul Islam, Olakunle Sanni, Veronica Folakemi Salau, 2024-04-26 Oxidative and metabolic diseases represent a large proportion of global challenges to health and quality of life These diseases are often characterised by the imbalance between the cellular prooxidant products of metabolic processes and the antioxidant molecules within the cells The imbalance often led to the underlying factors that exacerbate the pathogenesis of some life threatening diseases such as carcinogenesis

obesity diabetes and cardiovascular diseases Natural products including phytochemicals and functional foods are known for their ability to affect metabolic processes such as ameliorating reactive oxygen species induced mitochondria dysfunction mitigating inflammatory response and other cellular functions that could ameliorate the disease developments Despite the relatively low toxicities of natural products as compared with synthetic products further studies are still required to optimize the bioavailability therapeutics pharmaceuticals and clinical trials of natural products in patients suffering oxidative and metabolic diseases

Enzymes of Epigenetics Part B, 2016-07-14 *Enzymes of Epigenetics Part B* one of two new volumes in the *Methods in Enzymology* series continues the legacy of this premier serial with quality chapters authored by leaders in the field This volume covers research methods that are employed in the study of epigenetic regulation including structural biochemical molecular biological cellular computational and systems approaches Topics include chromatin structure and histones posttranslational histone modification enzymes and complexes histone modification binders DNA modifications and nucleic acid regulators epigenetic technologies and small molecule epigenetic regulators and biological connections

Continues the legacy of this premier serial with quality chapters authored by leaders in the field Contains two new volumes that cover research methods in enzymes of epigenetics Covers such topics as chromatin structure and histones posttranslational histone modification enzymes and complexes histone modification binders DNA modifications and nucleic acid regulators epigenetic technologies and small molecule epigenetic regulators and biological connections

Lifespan
David A. Sinclair, Matthew D. LaPlante, 2019-09-10 A NEW YORK TIMES BESTSELLER Brilliant and enthralling *The Wall Street Journal* A paradigm shifting book from an acclaimed Harvard Medical School scientist and one of Time's most influential people It's a seemingly undeniable truth that aging is inevitable But what if everything we've been taught to believe about aging is wrong What if we could choose our lifespan In this groundbreaking book Dr David Sinclair leading world authority on genetics and longevity reveals a bold new theory for why we age As he writes Aging is a disease and that disease is treatable This eye opening and provocative work takes us to the frontlines of research that is pushing the boundaries on our perceived scientific limitations revealing incredible breakthroughs many from Dr David Sinclair's own lab at Harvard that demonstrate how we can slow down or even reverse aging The key is activating newly discovered vitality genes the descendants of an ancient genetic survival circuit that is both the cause of aging and the key to reversing it Recent experiments in genetic reprogramming suggest that in the near future we may not just be able to feel younger but actually become younger Through a page turning narrative Dr Sinclair invites you into the process of scientific discovery and reveals the emerging technologies and simple lifestyle changes such as intermittent fasting cold exposure exercising with the right intensity and eating less meat that have been shown to help us live younger and healthier for longer At once a roadmap for taking charge of our own health destiny and a bold new vision for the future of humankind *Lifespan* will forever change the way we think about why we age and what we can do about it

Diabetes—Advances in Research and Treatment: 2013

Edition ,2013-06-21 Diabetes Advances in Research and Treatment 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Type 1 Diabetes Mellitus The editors have built Diabetes Advances in Research and Treatment 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Type 1 Diabetes Mellitus in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Diabetes Advances in Research and Treatment 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Lung Cancer and Environmental Toxicants Kamal Dua,Gaurav Gupta,Ronan MacLoughlin,Sachin Kumar Singh,Asif Ahmad Bhat,2025-05-23 Lung Cancer and Environmental Toxicants aims to explore the intricate relationship between lung cancer and environmental toxicants shedding light on a hidden link that demands urgent attention This groundbreaking book addresses a critical gap in the current literature by introducing a pioneering exploration of the interplay between lung cancer and environmental toxicants Previous articles have not coalesced into a comprehensive examination of the complex connection between lung cancer development and the diverse array of environmental toxicants This book delves into the latest scientific research and clinical findings to offer a clear way forward for healthcare workers to assess and treat lung cancer patients who may have been exposed to these substances Lung Cancer and Environmental Toxicants provides a precise view of the impact of environmental toxicants on lung cancer covering various aspects including epidemiology molecular mechanisms exposure pathways and preventive measures This unique and timely work will pave the way for a deeper understanding of the underexplored factors contributing to lung cancer incidence offering novel insights into the role of various toxic substances in disease causation This significant title will catalyze new avenues of research and awareness in the fields of oncology environmental health and public policy Unlocks the intricate nexus between lung cancer and environmental toxicants offering an unprecedented exploration of complex mechanisms and interactions for advancing research in oncology and environmental health Takes a global perspective on lung cancer and environmental toxicants considering the prevalence of the disease and its causes in different regions of the world as well as addressing the challenges faced by developing nations Presents rigorous evidence based research on the effects of toxicants on the human lung ensuring the book s indispensability

Introductory Review on Sirtuins in Biology, Aging, and Disease Leonard Guarente,Raul Mostoslavsky,Aleksey Kazantsev,2018-04-20 Introductory Review on Sirtuins in Biology and Disease provides key insights for scientists and advanced students who need to understand sirtuins and the current research in this field This book is ideal for pharmaceutical companies as they develop novel targets using sirtuins for metabolic diseases cancer and neurodegenerative illnesses Sirtuins are a diverse family of proteins with several

members in mammals The functional diversity of sirtuins is rather broad and they have been implicated in various central biological processes Thus they are also highly relevant in the context of various human diseases from cancer to neurodegeneration Covers both the general and specific aspects of sirtuin proteins and their role in biology aging and disease Presents a top quality collection of leading experts who contribute on a wide range of sirtuin related topics Ideal resource for pharmaceutical companies as they develop novel targets using sirtuins for metabolic diseases cancer and neurodegenerative illnesses

New Mechanisms for Anti-Cancer Drugs Ayaz Shahid,2024-04-15 Cancer is the second leading cause of death Every year many anticancer drug candidates are discovered and synthesized but the major challenge lies in identifying characterizing and evaluating their efficacy The aim of this Research Topic New Mechanisms for Anti Cancer Drugs is to collect a group of publications focused on novel chemical compounds exhibiting new modes of actions and or new target proteins to fulfill their cytotoxic activity on cancer cells In this context we will also be pleased to consider studies on drug repurposing including approved discontinued and shelved drugs when anti cancer activity results from an unexpected mode of action

Calorie Restriction, Aging and Longevity Arthur V. Everitt,Suresh I. S. Rattan,David G. Couteur,Rafael de Cabo,2010-06-14 Food or calorie restriction has been shown in many short lived animals and the rhesus monkey to prolong life span Life long nutrition studies are not possible in humans because of their long survival Studies over two to six years in healthy adult humans have however shown that a 20% reduction in food or calorie intake slows many indices of normal and disease related aging Thus it is widely believed that long term reduction in calorie or food intake will delay the onset of age related diseases such as heart disease diabetes and cancer and so prolong life Over the last 20 or more years there has been a progressive rise in food intake in many countries of the world accompanied by a rising incidence of obesity Thus our increasing food and calorie intake has been linked to the rising incidence of cardiovascular disease and diabetes in early adult life It is accepted that overeating accompanied by reduced physical exercise will lead to more age related diseases and shortening of life span The answer is to reduce our calorie intake improve our diet and exercise more But calorie restriction is extremely difficult to maintain for long periods How then can we solve this problem Edited by a team of highly distinguished academics this book provides the latest information on the beneficial effects of calorie restriction on health and life span This book brings us closer to an understanding at the molecular cellular and whole organism level of the way forward

Geriatric Medicine Gideon Caplan,2014-07-01 Geriatric medicine is one of the youngest medical specialties in Australia but is also one of the fastest growing Geriatric medicine offers a more holistic approach to patient care than organ based internal medicine sub specialties Patient centred interventions aim to allow the patient to function optimally This textbook has been designed to inspire and inform students of geriatric medicine about the science and art of aged care The book is structured to follow how geriatric medicine clinicians approach patients who present with geriatric syndromes and must be assisted by systems of care In an introductory part overviews are provided of

the biology of ageing comprehensive geriatric assessment the cornerstone of geriatric medicine practice multidisciplinary teamwork and community services for older people in Australia In the second part of the book over 13 chapters detailed coverage is provided of the geriatric syndromes the so called geriatric giants immobility incontinence instability and impaired intellect In the third part of the book over 10 chapters Care in context care of older people in general practice and in residential aged care facilities rehabilitation acute and post acute care end of life issues legal aspects of geriatric medicine for example is the focus geriatric medicine is placed within the Australian health care system Individual chapters are written by specialist contributors Case studies illustrate key points about assessment and management Inclusion of three poems by H W Longfellow W B Yeats and Dylan Thomas will enable readers to feel the heart within geriatric medicine Australasian medical students junior hospital doctors working in geriatric medicine and other members of aged care teams specialist nurses physiotherapists occupational therapists social workers etc will find in this book a succinct readable and authoritative introduction to the principles and practice of geriatric medicine

A Paradigm Shift to Prevent and Treat Alzheimer's Disease Howard Friel, Sally A. Frautschy, 2017-07-18 A Paradigm Shift to Prevent and Treat Alzheimer's Disease From Monotargeting Pharmaceuticals to Pleiotropic Plant Polyphenols is the first book to systematically exhibit the powerful pleiotropic pharmacological effects on Alzheimer's disease of plant based compounds from ancient foods that humans have been consuming safely with substantial health benefits for thousands of years These plant based compounds include curcuminoids from turmeric resveratrol from red wine and grape seed extract from other grape products epigallocatechin gallate EGCG from green tea and oleocanthal and oleuropein from olive oil in addition to a special extract EGb 761 from the leaves of Ginkgo biloba the oldest living species of tree on earth This book also presents a new analytical framework that convincingly favors a multi targeting pleiotropic approach to the prevention and treatment of complex chronic diseases in contrast to the mono targeting of the pharmaceutical model A Paradigm Shift to Prevent and Treat Alzheimer's Disease is a unique and exciting resource for pharmaceutical scientists pharmacologists neurologists general practitioners research scientists in various medical and life sciences healthcare professionals in clinical and executive positions conventional medical schools schools of naturopathic medicine healthcare and medical journalists executives in both national public healthcare systems and private insurers and informed general readers Presents carefully compiled evidence supporting the need to shift from pharmaceutical based mono targeting to plant polyphenol based pleiotropic targeting for the prevention and treatment of Alzheimer's disease Includes valuable tables that aggregate pleiotropic pharmacological effects of the plant polyphenols on Alzheimer's disease related pathogenic hallmarks Highlights regulatory aspects and discusses the challenges and potential solutions with respect to bioavailability of certain plant polyphenols *Select Extra-tropical Plants, Readily Eligible for Industrial Culture Or Naturalisation, with Indications of Their Native Countries and Some of Their Uses* Ferdinand von Mueller, 1895 Diabetic Neuropathy Mitra Tavakoli, 2022-02-16 Diabetic Neuropathy identifies the most

accurate early biomarkers of nerve damage to better understand pathophysiology and diagnose diabetic neuropathy in the clinical care of patients and in particular permit an accurate evaluation of future therapies in clinical trials This succinct reference focuses on the current data and research on diabetic neuropathy and is essential reading for researchers in endocrinology neurology and pharmacology along with clinicians that need to better understand the novel pathogenetic pathways leading to diabetic neuropathy and the treatments Serves as a starting point for researchers and medical professionals on risk factors prevention and newly discovered mechanisms involved in the pathogenesis and eventually treatments of diabetic neuropathy Discusses a broad range of issues relating to diabetic neuropathy from epidemiology to pathophysiology genetics advances in diagnostic techniques and the latest clinical trials and clinical management

Neurodegenerative Diseases: Looking Beyond the Boundaries of the Brain Elena Zenaro, Marietta Zille, Claudia Perez-Cruz, Gabriel Gutiérrez-Ospina, 2022-07-25 *Ketogenic Diet and Metabolic Therapies* Susan A Masino, 2016-10-20

Ketogenic Diet and Metabolic Therapies is the first comprehensive scientific resource on the ketogenic diet covering the latest research including the biomedical mechanisms established and emerging applications metabolic alternatives and implications for health and disease Experts in clinical and basic research share their research into mechanisms spanning from ion channels to epigenetics their insights based on decades of experience with the ketogenic diet in epilepsy and their evidence for emerging applications ranging from autism to Alzheimer's disease to brain cancer Research in metabolic therapies has spread into laboratories and clinics of every discipline and is yielding to entirely new classes of drugs and treatment regimens

Type 2 Diabetes Robert Fried, Richard M. Carlton, 2018-10-25 Approximately 29 million Americans are diagnosed with Type 2 diabetes annually Of that number only about 36 percent 10 44 million diabetes sufferers achieve satisfactory medical outcomes and would need additional help rarely available to reliably control their glucose levels Contrary to popular belief although anti diabetic medications can lower sugar levels nevertheless they have a poor performance track record because inflammation in the blood vessels persists This book details recent scientific findings that cardiovascular kidney vision peripheral nervous system and other body damage caused by chronic high levels of blood sugar hyperglycemia in Type 2 diabetes is actually due to excessive generation of unopposed free radicals and reactive oxygen species ROS These in turn cause chronic systemic inflammation and dysfunction of the endothelial lining of the arterial blood vessels jeopardizing the formation of the protective molecule nitric oxide NO thus severely impairing the blood supply to every organ and tissue in the body This book also catalogues the evidence that chronic hyperglycemia causes profound and often irreversible damage even long before Type 2 diabetes has been diagnosed In addition because conventional prescription treatments are unfortunately often inadequate the book details evidence based complementary means of blood sugar control

Environmental Contaminants and Endocrine Health Oliana Carnevali, Gary Hardiman, 2023-05-30 *Environmental Contaminants and Endocrine Health* focuses specifically on contaminants with hormonal disrupting activities

The book provides insights into the multiple effects of endocrine disrupting chemicals EDCs and their mechanism of action MoA on metabolism reproduction and the multiple physiological roles of the endocannabinoid system which has recently been indicated as new target The content systematically covers EDC sources and effects EDCs as sources of disease and health impairment in laboratory models EDCs as the cause of disease and health impairment in humans and wild species and the removal of hazardous pollutants from wastewaters to highlight intervention mitigation and adaptation for reduced threat This content will be a foundational resource for academic and research staff in endocrinology and hormone toxicology as well as for professors researchers and students in these areas Includes important foundational coverage of the endocrine system definitions of EDC sources and descriptions model examples and mechanisms of action biological effects Provides coverage of EDC effects in humans and animals from metabolic alterations to epidemiological studies of fertility and metabolism Presents insights into the confirmed and suspected human diseases spectrum with origins linked to EDC exposure including cancers intellectual disabilities autism birth defects of the urethra hypospadias decreased sperm count increased rates of miscarriage obesity type 2 diabetes and more

Neurodegeneration: From Genetics to Molecules Victoria Campos-Peña, Marco Antonio Meraz-Ríos, Rosalinda Guevara-Guzmán, Karla Guadalupe Carvajal, 2016-11-15 Chronic degenerative diseases are one of the major public health problems particularly those affecting the nervous system They are characterized by the degeneration of specific cell populations that include several pathologies which contribute significantly to morbidity and mortality in the elderly population Therefore in recent years the study of neuroscience has gained significant importance Most of these neurodegenerative disorders are the result of a complex interaction between genetic and environmental factors that generate progression and can even determine its severity The presence of mutations in genes as LRRK2 SNCA PARK7 PARK2 or PINK1 is associated with Parkinson s disease Mutations in genes such as APP PS1 and PS2 are associated with familial Alzheimer s disease while HTT gene mutations are the cause of Huntington s disease In most cases this condition is inherited in an autosomal dominant pattern which means one copy of the altered gene in each cell is sufficient to cause the disorder It is known that these mutations can also alter the proteins function however it has not yet been possible to fully understand how some genetic changes cause the disease or influence the risk of developing these disorders Most symptoms seen in these conditions occurs when specific nerve cells are damaged or die generating a loss in brain communication Also many of these mutations generate aggregation of intracellular or extracellular proteins affecting cell function and eventually causing neuronal death It is unclear whether the presence of these aggregates play an important role in nerve cell death during the development of neurodegenerative diseases or if they are simply part of the response of cells to the disease Other mutations affect the mitochondrial function generating alterations in energy production and promoting the formation of unstable molecules such as free radicals Under normal conditions the harmful effects caused by free radicals are offset within the cell However in pathological conditions the presence of mutations can alter this process by allowing the

accumulation of radicals and damaging or killing cells On the other hand we also know that these diseases may not have a direct genetic component thus the study of sporadic type neurodegenerative diseases is much more complex Histopathological lesions as well as the cellular and molecular alterations are generally indistinguishable from familial cases For this reason it is important to understand the genetic and molecular mechanisms associated with this type of pathologies In this sense this issue aims to understand the molecular processes that occur in the brain and how these are influenced by the environment genetics and behavior

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angular speed control Sep 1, 2022 — Universiti Teknologi Malaysia. 81310 Johor Bahru, Johor. Date. : 1 September ... Figure C.1: Open loop DC motor Speed control with square wave ... SENSORLESS POSITION CONTROL OF DC MOTOR ... Nov 17, 2015 — ... Universiti Teknologi Malaysia, 81310, UTM Johor Bahru, Johor Malaysia ... Speed Control of D.C. Motor Using PI, IP, and Fuzzy Controller. Speed control of dc motor using pid controller - Universiti ... Nov 28, 2012 — Speed control of dc motor using pid controller - Universiti Malaysia UNIVERSITI TEKNOLOGI MALAYSIA - Universiti Malaysia Pahang. CHAPTER 1 ... Brushless DC Motor Speed Control Using Single Input ... Abstract: Many Industries are using Brushless Direct Current (BLDC) Motor in various applications for their high torque performance, higher efficiency and low ... Design a Speed Control for DC Motor Using an Optimal ... by AI Tajudin · 2022 · Cited by 1 — Abstract—The project purpose to implement Artificial Bee Colony (ABC) algorithm optimization technique for controlling the speed of the DC motor. (PDF) A response time reduction for DC motor controller ... This paper proposes an alternative solution to maximize optimization for a controller-based DC motor. The novel methodology relies on merge proper tuning with ... Modelling and Simulation for Industrial DC Motor Using ... by AAA Emhemed · 2012 · Cited by 61 — The main objective of this paper illustrates how the speed of the DC motor can be controlled using different controllers. The simulation results demonstrate ... Stability and performance evaluation of the speed control ... by SA Salman · 2021 · Cited by 3 — This paper presents the design of a state-feedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEDGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ... Derivatives Markets (Pearson Series in

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