

# Sesamum Indicum Seed Oil

**Sapna Langyan,Pranjal Yadava,Rashmi Yadav,Rakesh Bhardwaj**

*The Sesame Genome* Hongmei Miao,Haiyang Zhang,Chittaranjan Kole,2021-07-14 This book is the first comprehensive compilation of deliberations on whole genome sequencing of sesame including genome assembly, annotation, structure and synteny analysis, and sequencing of its chloroplast genome and also its wild species. It presents narratives on classical genetics and breeding, tissue culture and genetic transformation, molecular mapping and breeding. Other chapters describe the beneficial components in sesame protein and oil, botanical depictions and cytological features. Prospects of designed breeding in the post-genomics era including gene discovery have also been enumerated. Altogether, the book contains 19 chapters authored by globally reputed experts on the relevant field in this crop. This book is useful to the students, teachers, and scientists in the academia and relevant private companies interested in classical and molecular genetics, biotechnology, breeding, biochemistry, traditional and molecular breeding, and structural and evolutionary genomics. The work is also useful to seed and oil industries.

Sesame: Sustainable Production and Applications Sapna Langyan,Pranjal Yadava,Rashmi Yadav,Rakesh Bhardwaj,2025-04-18 This edited book systematically discusses the advances in biotechnology, agrotechnology, and food technology in shaping sesame production, cultivation and uses to meet the future needs. Sesame (*Sesamum indicum*) is the oldest oilseed crop known to humans. It has been recognized as one of the most nutritious and health-supportive crops, with several applications in food, cosmetics, and health products. A wide variety of sesame is grown throughout the world, primarily in Asia and Africa. It's seed and seed oil is being used widely in diverse cuisines. It is also used in cosmetic and health products. Advances in biotechnology, agrotechnology, and food technology in redefining sesame production and uses are of great importance. Various new advanced technologies have been employed to develop high yielding and disease resistant sesame varieties, for better cultivation, seed production, and for utilization of seeds and seed oil in a lot of foods, cosmetic, and health products. This book provides an overview of different advanced technologies, their mechanisms, and their effect on the quality of the sesame crop and sesame seeds/oil. The book also emphasizes the assessment of advanced technology on its limitations and advantages. This book offers the latest research on techniques, applications, and challenges of producing quality sesame crop with recommendations towards sustainable agriculture. The book is a valuable resource for students, researchers and scientists working in the field of sesame production and applications. Industry experts involved in

development and management of sustainable production technologies will also find the book beneficial.

*Production of Soap from Sesamum Indicum (sesame Seed)* Veroneka Semilin, 2014 Sesame (*Sesamum indicum* L.) seed is the oldest oil seed crop and the highest content of fats and oils among other seeds oil. The fats and oils of sesame contain good proteins and vitamins for body health and food. This research presents the study of soap from undehulled (coated) and dehulled sesame seed oil which derived from a soxhlet extraction method. Different treats of sesame seed were exposed to experiment that determine the value of physiochemical, such as saponification value (SV), acid value (AV), iodine value (IV), free fatty acid value (FFA) and peroxide value (PV). Sesame oils were saponified with two types of alkali which sodium hydroxide (NaOH) and potassium hydroxide (KOH) to give a solid and liquid soap, respectively. The analysis of the soap was carried out to determine the pH value, foam height, colour in solution, and solubility in water and foam structure. Further analysis of the soap was testing with a dirty cloth, hand washing and laboratory glassware. Results from the analysis were exposed that sesame seed can produce either solid or liquid soap with high of conditioning agent. Dehulled oil has saponification value of 186.5 mg KOH/ g, acid value of 109.4 g I<sub>2</sub>/100g, peroxide value of 14.8 meq H<sub>2</sub>O<sub>2</sub>/g, and free fatty acid value of 49.3 % (oleic) and undehulled seed oil has values 210.4 mg KOH/ g, 1.34 g I<sub>2</sub>/100g, 106.3 meq H<sub>2</sub>O<sub>2</sub>/g, 8 and 39.48 % (Oleic), respectively. In conclusion, the objective of this study is achieved where sesame seed soap can be established, whether from undehulled or dehulled oil. In future, sesame oil is potentially to use as an oil foundation in making soap.

*Oilseeds: Health Attributes and Food Applications* Beenu Tanwar, Ankit Goyal, 2020-10-30 Oilseeds offer a plethora of opportunities for the food and feed industry, thanks to their high oil and protein content. Their phytonutrients and functional components have attracted the interest of researchers, leading to the development of functional foods. This book gathers the latest scientific information on the nutrients, phytonutrients and health benefits as well as the adverse effects of consuming various conventional and non-conventional oilseeds. In addition, each chapter includes a section comprehensively explaining the use of oilseeds in functional bakery, dairy, and other food products. Given its scope, the book is a valuable resource for students, researchers, nutritionists, food scientists and technologists, and for anyone involved in product development based on oilseed and its components.

*Cold Pressed Oils* Mohamed Fawzy Ramadan, 2020-07-23 Cold Pressed Oils: Green Technology, Bioactive Compounds, Functionality, and Applications creates a multidisciplinary forum of discussion on recent advances in chemistry and the functionality of bioactive phytochemicals in lipids found in cold pressed oils. Chapters explore different cold pressed oil, focusing on cold press extraction and processing, composition, physicochemical characteristics, organoleptic attributes, nutritional quality, oxidative stability, food applications, and functional and health-promoting traits. Edited by a team of experts, the book brings a diversity of developments in food science to scientists, chemists, nutritionists, and students in

nutrition, lipids chemistry and technology, agricultural science, pharmaceuticals, cosmetics, nutraceuticals and many other fields. - Thoroughly explores novel and functional applications of cold pressed oils - Shows the difference between bioactive compounds in cold pressed oils and oils extracted with other traditional methods - Elucidates the stability of cold pressed oils in comparison with oils extracted using other traditional methods

Monographs in Contact Allergy, Volume 1 Anton C. de Groot, 2021-03-22 Monographs in Contact Allergy, Volume 1: Non-Fragrance Allergens in Cosmetics (Part 1 and Part 2) is the first 2-part volume in an exciting series on contact allergy. It presents over 500 natural or synthetic chemicals and compounds which have caused allergic contact dermatitis in cosmetic products. Included here are INCI names, synonyms, description/definition, CAS and EU numbers, chemical class, function in cosmetics, molecular formula, structural formula and advice on patch tests. A full literature review is given of patch testing in patients, case reports of cosmetic allergic contact dermatitis, irritant contact dermatitis, photosensitivity, immediate contact reactions and systemic side effects. This text is suitable for anyone with an interest in contact allergy, from university students to professionals, and all readers will find this informative and detailed series an invaluable resource. Key Features: Monographs of all known non-fragrance chemicals and substances which have caused allergic contact dermatitis from their presence in cosmetic products Provides lists of all functional groups (such as antioxidants, preservatives, artificial nail building, emollients, hair dyeing, hair colorants) in both the EU and US formats and all chemicals in these groups which have caused cosmetic allergy Presents an alphabetical list of all synonyms indicating their INCI names Reported cross-reactions, pseudo-cross-reactions and co-reactions, patch test sensitization and presence in cosmetic products (including data from FDA's Voluntary Cosmetic Registration Program) and chemical analyses are discussed Covers an extensive amount of information to benefit dermatologists, allergists, and non-medical professionals involved with the research, development and marketing of cosmetic products

Natural Products for Skin Diseases: A Treasure Trove for Dermatologic Therapy Heba Abd El-Sattar El-Nashar, Mohamed El-Shazly, Nouran Mohammed Fahmy, 2023-10-12 Natural Products for Skin Diseases: A Treasure Trove for Dermatologic Therapy is an enlightening journey through the realm of natural remedies for various skin diseases. The editors have compiled information on effective and holistic treatment approaches that can be applied in clinical settings. This book brings diverse range of topics, including skin protection against harmful radiation, natural remedies for burns and wounds, management of skin pigmentation issues, and herbal treatments for scabies. It also explores the potential of natural cosmetics and their future applications, along with the use of natural products and nanoparticles in skin delivery. All chapters are contributed by experts in dermatology and herbal medicine, and are supplemented with scientific references for advanced readers. The book primarily serves as a textbook for students in medicine and dermatologists in training. It also serves as a valuable guide for dermatologists, researchers, and healthcare professionals, revealing the treasure trove of

benefits that natural products offer for treating skin diseases.

**Sesame** Dorothea Bedigian, 2010-10-14 The first comprehensive review of sesame and its close relative, Sesame: the genus *Sesamum* covers ethnographic data, modern use, linguistic analysis of sesame names from around the world, market size, export and import data, geographical sources, use in the food and cosmetic industries, and much more. The book includes a historical review of the ge

**Inheritance of Oil Composition in Sesame (*Sesamum Indicum* L.)** Gurdip Singh Brar, 1974

Handbook of Herbs and Spices K. V. Peter, 2012-09-21 Herbs and spices are among the most versatile ingredients in food processing, and alongside their sustained popularity as flavourants and colourants they are increasingly being used for their natural preservative and potential health-promoting properties. An authoritative new edition in two volumes, Handbook of herbs and spices provides a comprehensive guide to the properties, production and application of a wide variety of commercially-significant herbs and spices. Volume 2 begins with a discussion of such issues as the medicinal uses of herbs and spices and their sustainable production. Herbs and spices as natural antimicrobials in foods and the effect of their natural antioxidants on the shelf life of food are explored, before the book goes on to look in depth at individual herbs and spices, ranging from ajowan to tamarind. Each chapter provides detailed coverage of a single herb or spice, and begins by considering origins, chemical composition and classification. The cultivation, production and processing of the specific herb or spice is then discussed in detail, followed by analysis of the main uses, functional properties and toxicity. With its distinguished editor and international team of expert contributors, the two volumes of the new edition of Handbook of herbs and spices are an essential reference for manufacturers using herbs and spices in their products. They also provide valuable information for nutritionists and academic researchers. - Provides a comprehensive guide to the properties, production and application of a wide variety of commercially-significant herbs and spices - Begins with a discussion of such issues as the medicinal uses of herbs and spices and their sustainable production - Explores herbs and spices as natural antimicrobials in foods and the effect of their natural antioxidants on the shelf life of food

**Bioactive Phytochemicals from Vegetable Oil and Oilseed Processing By-products** Mohamed Fawzy Ramadan Hassanien, 2023-03-21 This book comprehensively reviews the phytochemistry, functional properties, and health-promoting effects of bioactive compounds found in oil processing by-products, and it also explores the food and non-food applications of these by-products. Several oilseeds, vegetables, and fruits are cultivated for their oils and fats, wherein the oil extraction industry generates a huge amount of waste (meal or cake). The valorisation of this waste would be very beneficial not only from the economic and environmental perspectives, but also for the potential applications in food, cosmetics and pharmaceutical industries, in which phytochemicals derived from vegetable oil and oilseed processing by-products play an important role in, for instance, extending the shelf life of several products and providing added-value properties with their

antioxidant and antimicrobial properties. In this work, expert contributors discuss about the added-value of biowaste from common and non-traditional vegetable oils and oilseeds processing, as well as fruit oils processing, and offer an extensive overview of the different bioactive compounds found in extracts from oil processing by-products and their chemical composition. The book also collects several examples in which oil processing by-products are integrated into industrial activities such as food production, livestock production and in pharmaceutical and cosmetics industries. Professionals and scholars alike interested in the recycling of agro-industrial wastes derived from vegetable oil and oilseed processing by-products will find this book a handy reference tool.

**Nuts and Seeds in Health and Disease Prevention** Victor R Preedy, Ronald Ross Watson, 2020-04-24 Nuts and Seeds in Health and Disease Prevention, Second Edition investigates the benefits of nuts and seeds in health and disease prevention using an organizational style that will provide easy-access to information that supports identifying treatment options and the development of symptom-specific functional foods. This book examines seeds and nuts as agents that affect metabolism and other health-related conditions and explores the impact of compositional differences between various seeds and nuts, including differences based on country of origin and processing technique. Finally, the book includes methods for the analysis of seed and nut-related compounds. Written for nutrition researchers, nutritionists, food scientists, government regulators of food, and students of agriculture, oils and feeds, nutrition and life sciences, this book is sure to be a welcomed resource.

**Compendium of Crop Genome Designing for Nutraceuticals** Chittaranjan Kole, 2023-12-14 The crop plants cater not only to our basic F5 (food, feed, fiber, fuel, and furniture) needs but also provide a number of nutraceuticals with potential nutritional, safety and therapeutic properties. Many crop plants provide an array of minerals, vitamins, and antioxidant-rich bioactive phytochemicals. Increasing incidences of chronic diseases such as cancer, diabetes and HIV, and malnutrition necessitate global attention to health and nutrition security with equal emphasis to food security. This compendium compiles results of researches on biochemical, physiological and genetic mechanisms underlying biosynthesis of the health and nutrition related nutraceuticals. It also explores the precise breeding strategies for augmentation of their content and amelioration of their quality in crop plants under all commodity categories including cereals and millets, oilseeds, pulses, fruits and nuts, and vegetables. The compendium comprise 5 sections dedicated to these 5 commodity groups and presents enumeration on the concepts, strategies, tools and techniques of nutraceutomics. These sections include 50 chapters devoted to even number of major crop plants. These chapters present deliberations on the biochemistry and medicinal properties of the nutraceuticals contained; genetic variation in their contents; classical genetics and breeding for their quantitative and qualitative improvement; tissue culture and genetic engineering for augmentation of productivity and quality; and sources of genes underlying their biosynthesis. They also include comprehensive enumeration on genetic mapping of the genes and

QTLs controlling the contents and profile of the nutraceuticals and molecular breeding for their further improvement through marker assisted selection and backcross breeding tools. Prospects of post-genomic precise breeding strategies including genome-wide association mapping, genomic selection, allele mining, and genome editing are also discussed. This compendium fills the gap in academia, and research and development wings of the private sector industries interested in an array of subjects including genetics, genomics, tissue culture, genetic engineering, molecular breeding, genomics-assisted breeding, bioinformatics, biochemistry, physiology, pathology, entomology, pharmacognosy, IPR, etc., and will also facilitate understanding of the policy making agencies and people in the socio-economic domain and research sponsoring agencies.

*Edible Medicinal And Non-Medicinal Plants* T. K. Lim, 2012-06-11 This book continues as volume 4 of a multi-compendium on Edible Medicinal and Non-Medicinal Plants. It covers edible fruits/seeds used fresh or processed, as vegetables, spices, stimulants, edible oils and beverages. It encompasses selected species from the following families: Fagaceae, Grossulariaceae, Hypoxidaceae, Myrsinaceae, Olacaceae, Oleaceae, Orchidaceae, Oxalidaceae, Pandanaceae, Passifloraceae, Pedaliaceae, Phyllanthaceae, Pinaceae, Piperaceae, Rosaceae and Rutaceae. This work will be of significant interest to scientists, researchers, medical practitioners, pharmacologists, ethnobotanists, horticulturists, food nutritionists, agriculturists, botanists, conservationists, lecturers, students and the general public. Topics covered include: taxonomy; common/English and vernacular names; origin and distribution; agroecology; edible plant parts and uses; botany; nutritive and pharmacological properties, medicinal uses and research findings; nonedible uses; and selected references.

**Food and Drug Analysis** Ping-Chung Kuo, 2020-11-13 Aspects of food and drug analysis include exploring natural sources as healthy food, characterizing the molecular structures of bioactive principles, identifying novel drugs, assessing their affinity and specificity, and examining their bioactivities in vitro and in vivo. In addition to extensively applied chromatographic methods, nuclear magnetic resonance (NMR) spectroscopy is also used to screen for novel bioactive molecules. Various new sample preparation methods have been reported, especially for analysis in biological sample matrices. All these new analytical methods accelerate research and will make potential targets available in the near future.

**Genetic Resources, Chromosome Engineering, and Crop Improvement** Ram J. Singh, 2006-11-02 Summarizing landmark research, Volume 4 of this essential series furnishes information on the availability of germplasm resources that breeders can exploit for producing high-yielding oilseed crop varieties. Written by leading international experts, this volume presents the most up-to-date information on employing genetic resources to increase

*Ethnoveterinary Botanical Medicine* David R. Katerere, Dibunji Luseba, 2010-06-23 Despite the undoubted success of a scientific approach to pharmaceuticals, the last few decades have witnessed a spectacular rise in interest in herbal medicinal products. This general interest has been followed by increasing scientific and commercial attention that led to the coining of the term ethnopharmacology to describe the scientific discipline

**Medicinal Plants of South Asia** Muhammad Asif Hanif, Haq Nawaz, Muhammad Mumtaz Khan, Hugh J.

Byrne, 2019-09-14 Medicinal Plants of South Asia: Novel Sources for Drug Discovery provides a comprehensive review of medicinal plants of this region, highlighting chemical components of high potential and applying the latest technology to reveal the underlying chemistry and active components of traditionally used medicinal plants. Drawing on the vast experience of its expert editors and authors, the book provides a contemporary guide source on these novel chemical structures, thus making it a useful resource for medicinal chemists, phytochemists, pharmaceutical scientists and everyone involved in the use, sales, discovery and development of drugs from natural sources. - Provides comprehensive reviews of 50 medicinal plants and their key properties - Examines the background and botany of each source before going on to discuss underlying phytochemistry and chemical compositions - Links phytochemical properties with pharmacological activities - Supports data with extensive laboratory studies of traditional medicines

**Allele Mining for Genomic Designing of Oilseed Crops** Chittaranjan Kole, Manish Kumar Pandey, Naveen

Puppala, 2024-09-18 This book deliberates on the concept, strategies, tools, and techniques of allele mining in oilseed crops and its application potential in genome elucidation and improvement, including studying allele evolution, discovery of superior alleles, discerning new haplotypes, assessment of intra- and interspecific similarity, and studies of gene expression and gene prediction. Available gene pools in global germplasm collections, specifically consisting of wild allied species and local landraces for almost all major crops, have facilitated allele mining. The development of advanced genomic techniques, including PCR-based allele priming and Eco-TILLING-based allele mining, is now widely used for mining superior alleles. Allele's discovery has become more relevant now for employing molecular breeding to develop designed crop varieties matching consumer needs and with genome plasticity to adapt to climate change scenarios. All these concepts and strategies, along with precise success stories, are presented in the chapters dedicated to the major oilseed crops. 1. This is the first book on the novel strategy of allele mining in oilseed crops for precise breeding. 2. This book presents genomic strategies for mining superior alleles underlying agronomic traits from genomic resources. 3. This book depicts case studies of PCR-based allele priming and Eco-TILLING based allele mining. 4. This book elaborates on gene discovery and gene prediction in major oilseed crops. This book will be useful to students and faculties in various plant science disciplines, including genetics, genomics, molecular breeding, agronomy, and bioinformatics; scientists in seed industries; and policymakers and funding agencies interested in crop improvement.

**Chemical Technology and Analysis of Oils, Fats and Waxes** Julius Lewkowitsch, 1922

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