

SOYBEANS

Chemistry, Technology,
and Utilization

KeShun Liu



AN ASPEN PUBLICATION

Soybeans Chemistry Technology And Utilization

**Colin W. Wrigley, Harold Corke, Charles
Walker**

Soybeans Chemistry Technology And Utilization:

Soybeans KeShun Liu,2012-12-06 The soybean Glycine max L Merrill a native of China is one of the oldest crops of the Far East For centuries the Chinese and other Oriental people including Japanese Korean and Southeast Asians have used the bean in various forms as one of the most important sources of dietary protein and oil For this reason and because the amount of protein produced by soybeans per unit area of land is higher than that of any other crop this little old bean has been called yellow jewel great treasure nature s miracle protein and meat of the field Now this bean is seen by some as a weapon against world hunger and a protein of the future Most recently the soybean has been touted as a possible weapon against chronic diseases Since large scale introduction to the Western world at the beginning of the twentieth century the cultivation and use of soybeans have undergone a dramatic revolution from traditional soyfoods in the Orient to a new generation of soyfoods in the West from animal feed to value added food protein ingredients from industrial paints to affordable table oils and spreads from an old field crop to a new crop with wide regions of adoptability herbicide tolerance pest resistance and or altered chemical composition and from limited regional cultivation to expanded worldwide production *Soybeans* Lawrence A. Johnson,Pamela J. White,Richard Galloway,2015-08-08 This comprehensive new soybean reference book disseminates key soybean information to drive success for soybeans via 23 concise chapters covering all aspects of soybeans from genetics breeding and quality to post harvest management marketing and utilization food and energy applications U S domestic versus foreign practices and production methods The most complete and authoritative book on soybeans Features internationally recognized authors in the 21 chapter book Offers sufficient depth to meet the needs of experts in the subject matter as well as individuals with basic knowledge of the topic *History of Soybeans and Soyfoods in China and Taiwan, and in Chinese Cookbooks, Restaurants, and Chinese Work with Soyfoods Outside China (1024 BCE to 2014)* William Shurtleff,H.T. Huang,Akiko Aoyagi,2014-06-22 The world s most comprehensive well documented and well illustrated book on this subject With extensive index 372 photographs and illustrations Free of charge in digital format on Google Books

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Soybeans H. Roger Boerma,James Eugene Specht,2004 The complete sourcebook for soybean information this monograph combines concise information and the scope of a monograph Topics include morphology production disease management genomics and genetic improvement economics and marketing processing and use and even the role of soybean in human health Soybean is a global crop and the contents of this edition span the breadth of its worldwide significance

Soybeans: Chemistry and Technology: Proteins Allan Kay Smith,Sidney Joseph Circle,1972 *Soybeans* ,2008
World Soybean Research Conference VI ,1999 **The Effects of Extrusion Cooking and Milling on the Instant Properties of Wheat and Soy Powders** Edmund John Tanhehco,2002 *Soybean Chemistry and Technology* Klare Stephen Markley,Warren H. Goss,1944 Composition and properties Mineral constituents Protein and other nitrogenous constituents Enzymes Carbohydrates Glycosides Pigments Vitamins Oil and oil soluble constituents Physical and chemical characteristics of soybean oils Fatty acids and glycerides Oil soluble pigments Antioxidants Phosphatides **Functional Foods and Dietary Supplements** Athapol Noomhorm,Imran Ahmad,Anil Kumar Anal,2014-03-11 Functional foods are foods which contain bioactive components either from plant or animal sources which can have health benefits for the consumer over and above their nutritional value Foods which have antioxidant or cancer combating components are in high demand from health conscious consumers much has been made of the health giving qualities of fruits and vegetables in particular Conversely foods which have been processed are suffering an image crisis with many consumers indiscriminately assuming that any kind of processing robs food of its natural goodness To date there has been little examination of the actual effects whether positive or negative of various types of food processing upon functional foods This book highlights the effects of food processing on the active ingredients of a wide range of functional food materials with a particular focus on foods of Asian origin Asian foods particularly herbs are becoming increasingly accepted and demanded globally with many Western consumers starting to recognize and seek out their health giving properties This book focuses on the extraction of

ingredients which from materials which in the West are seen as alternative such as flour from soybeans instead of wheat or bran and starch from rice but which have long histories in Asian cultures It also highlight the incorporation of those bioactive compounds in foods and the enhancement of their bioavailability Functional Foods and Dietary Supplements Processing Effects and Health Benefits will be required reading for those working in companies research institutions and universities that are active in the areas of food processing and agri food environment Food scientists and engineers will value the new data and research findings contained in the book while environmentalists food regulatory agencies and other food industry personnel involved in functional food production or development will find it a very useful source of information

Using Developed Laboratory Procedures for Discriminating Potential of Selected Michigan-grown Soybean Varieties for Soymilk and Tofu Production Dianne Thuy Trinh,2001

Encyclopedia of Bioprocess Technology Michael C. Flickinger,Stephen

W. Drew,1999 Encyclopedia of Grain Science Colin W. Wrigley,Harold Corke,Charles Walker,2004

Polymer Degradation and Performance American Chemical Society. Meeting,2009 This book focuses on the current scientific trends in polymer material property optimization and degradation with an emphasis on lifetime prediction and reliability and new avenues for the design of materials and bio polymers with improved performance

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