# IMPROVEMENT OF QUALITY TRAITS OF MAIZE FOR GRAIN AND SILAGE USE

A seminar in the EEC Programme of Coordination of Research on Plant Protein Improvement held at Schwäbisch Hall, Federal Republic of Germany, November 29 - December 1, 1978

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# <u>Improvement Of Quality Traits Of Maize For Grain And Silage Use</u>

**Jules Janick** 

# **Improvement Of Quality Traits Of Maize For Grain And Silage Use:**

**Improvement of Quality Traits of Maize for Grain and Silage Use** Pallmer,1974 **Improvement of Quality** Traits of Maize for Grain and Silage Use W. G. Pollmer, R. H. Phipps, 1980 Improvement of Quality Traits of Maize for Maize Y. P. S. Bajaj, 2012-12-06 Forty chapters deal with various Grain and Silage Use W. G. Pollmer, R. H. Phipps, 1980 aspects of tissue culture in vitro manipulation and other biotechnological approaches to the improvement of maize They are arranged in eight sections In Vitro Technology Callus Cultures and Regeneration of Plants Somatic Embryogenesis Wide Hybridization Embryo Ovule and Inflorescence Culture in Vitro Fertilization Production of Haploids and Double Haploids Anther and Pollen Culture Protoplast Culture Genetic Transformation Somaclonal Variation and Mutations Molecular Biology and Physiological Studies Proteins and Nutritional Improvement Pollen Storage Cryopreservation of Germplasm **Breeding Reviews** Jules Janick, 2008-01-14 Plant Breeding Reviews presents state of the art reviews on plant breeding and genetics covering horticultural agronomic and forestry crops incorporating both traditional and molecular methods The contributions are authored by world authorities anonymously reviewed and edited by Professor Jules Janick of Perdue University USA The series is an indispensible resource for crop breeders plant scientists and teachers involved in crop improvement and genetic resources Initiated in 1983 Plant Breeding Reviews is published in the form of one or two volumes per year Recently published articles include Epigenetics and Plant Breeding v30 Enhancing Crop Gene Pools with Beneficial Traits Using Wild Relatives v30 Coffee Germplasm Resources Genomics and Breeding v30 Molecular Genetics and Breeding for Fatty Acid Manipulation in Soybean v30 Breeding Southern Highbush Blueberries v30 Development of Fire Blight Resistance by Recombinant DNA Technology v29 Improvement of Quality Traits of Maize for Grain and Silage Use Wolfgang Gerhard Pollmer, R. H. Phipps, 1980 Specialty Corns Arnel R. Hallauer, 2000-08-23 Completely revised and updated the Second Edition of Specialty Corns includes everything in the first edition and more Considered the standard in this field significant changes have been made to keep all the information current and bring the references up to date Two new chapters have been added to keep up with the latest trends Blue Corn and Baby Corn Access the latest methods in developing specialty corns with this standard setting reference Edited by an expert in the field who has spent his professional life working with corn Specialty Corns Second Edition discusses the genetic variation inherent in corn genetic materials available breeding methods and special problems associated with the development of specialty corns Hallauer has assembled **Plant Breeding Reviews, Volume 9** Jules a team of international experts who have contributed to this work Janick, 1992-08-04 Plant Breeding Reviews is an ongoing series presenting state of the art review articles on research in plant genetics especially the breeding of commercially important crops Articles perform the valuable function of collecting comparing and contrasting the primary journal literature in order to form an overview of the topic This detailed analysis bridges the gap between the specialized researcher and the broader community of plant scientists **Maize: Nutrition** 

**Dynamics and Novel Uses** Dharam Paul Chaudhary, Sandeep Kumar, Sapna Langyan, 2013-12-03 Maize is a globally important crop mainly utilized as feed food and raw material for diverse industrial applications Among cereals it occupies third place after rice and wheat and is a staple food for a large segment of population worldwide particularly in the Asian as well as African countries This monogram discusses various aspects of nutritional quality of maize such as quality protein maize which has been considered as most significant discovery in enhancing nutritional quality of cereals in terms of increasing the concentration of essential amino acids The biochemistry of starch which is an important industrial product of maize has been discussed in detail Further the role of maize oil which is highly regarded for human consumption as it reduces the blood cholesterol concentration has also been elaborated Naturally maize is a rich source of carotenoids such as beta carotene zeaxanthin lutein cryptoxanthin which have highly diverse health benefits ranging from maintaining normal vision to lowering of oxidative stress The need for biofortification of maize for provitamin A carotenoids and their role in alleviating vision impairments have also been discussed The effect of various biotic and abiotic stresses particularly carbon dioxide and temperature on quality has been discussed thoroughly Many value added products as well as fermented foods that have been produced from maize which is consumed in different forms worldwide are also discussed The aspects related to the maize application as fodder and as a source of malting have also been covered concisely Overall the book provides complete information about various quality aspects of maize The various stakeholders such as maize researchers extension specialists students teachers as well as farmers will be immensely benefitted from this monogram Genetic Resources, **Chromosome Engineering, and Crop Improvement** Ram J. Singh, Prem P. Jauhar, 2006-01-13 Summarizing landmark research Volume 2 of this essential series furnishes information on the availability of germplasm resources that breeders can exploit for producing high yielding cereal crop varieties Written by leading international experts this volume offers the most comprehensive and up to date information on employing genetic resources t **Food Systems for Improved Human** Nutrition Palit Kataki, Suresh Chandra Babu, 2024-11-01 Learn to produce crops with improved nutrition to alleviate malnourishment using sustainable agriculture techniques Utilizing complete food systems to improve nutrition has become a priority in the fight against malnutrition This book examines all aspects of food systems drawing on examples from various countries and geographical regions Bringing together the most recent work of international experts Food Systems for Improved Human Nutrition provides an important overview of the food systems approach It also explores the extent of malnourishment in different areas presents case studies from South Asia China India Bangladesh and East Africa points to ways to improve food production and nutrient quality and suggests directions for future research Helpful charts and tables make the information in this well referenced book easy to access and understand Food Systems for Improved Human Nutrition brings you state of the art information on the potential benefits of agroforestry systems how to fortify food with micronutrients how to design population appropriate nutrition interventions the ways that rapid economic change can affect

human nutrition in a given area biotech approaches to improve nutrition in rice and maize crops crossbred cow technologies in the East African highlands and much more **Maize Kernel Development** Brian A Larkins,2017-11-21 This is an authoritative book that acts as a guide to understanding maize kernel development Written by a team of experts it covers topics spanning pre and post fertilization events embryo and endosperm development grain filling and maturation and factors influencing crop yield It explores the significance of maize and other cereal grains existing hypotheses and research and important gaps in our knowledge and how we might fill them This is a valuable resource for researchers of maize and other cereals and anyone working on basic or applied science in the fields of seed development plant genetics and crop physiology

Intensified Plant Breeding and Seed Production in Poland Food and Agriculture Organization of the United Nations, 1985-01-01 Rye and triticale Barley Maize Pea Soybean Rapeseed Gene banks Seed quality control Agronomica Hungarica ,1986 *Induced Mutations in Plant Breeding* W. Gottschalk, G. Wolff, 2012-12-06 Mutation breeding has been introduced into modern plant breeding in the early 1940 s In spite of pessimistic predictions the application of experimental mutagenesis has led to encouraging results demonstrating that mutation breeding is a well functioning method in many crops So far more than 500 varieties developed by means of induced mutations have been officially released others have been approved for registration Many mutants with characters of agronomic interest cannot be utilized directly because of their unsatisfying yielding capacities or of other negative traits which are partly due to the pleiotropic action of the mutant genes Sometimes their negative selection value can be overcome by transferring them into the genomes of other varieties According to experience available the efficiency of mutant genes can conSiderably vary depending on the genotypic background in which they become effective The interactions between mutant genes and genotypic back ground cannot be predicted Therefore mutants with valuable traits should be crossed with many varieties and strains in order to discern positive and negative interactions In this way genotypes can be selected in which the mutant gene is able to express its action without showing negative by effects This procedure has been used for about 10 years by combining the methods of mutation and crossbreeding Mutation breeding is predominantly used in annual diploid and allo polyploid self fertilizing crops while it causes much more difficulties in cross pollinating species Glucosinolates in **Rapeseeds: Analytical Aspects** J.-P. Wathelet, 2012-12-06 Proceedings of a Seminar in the CEC Programme of Research on Plant Productivity held in Gembloux Belgium October 1 3 1986 **The Impact of Plant Molecular Genetics** Bruno W.S. Sobral, 2012-12-06 The impact of molecular genetics on plant breeding and consequently agri culture is potentially enonnous Understanding and directing this potential im pact is crucial because of the urgent issues that we face concerning sustainable agriculture for a growing world population as well as conservation of the world's rapidly dwindling plant genetic resources This book is largely devoted to the applications of genetic markers that have been developed by the application of molecular genetics to practical problems These are known as DNA markers They have gained a certain notoriety in foren sics

but can be used in a variety of practical situations We are going through a period of accelerated breakthroughs in molecular ge netics Therefore the authors of each chapter were encouraged to speculate about both current bottlenecks and the future of their subfields of research We can cer tainly apply molecular genetic tools and approaches to help resolve crucial genetic resource problems that face humanity However little has been discussed with respect to when or how we should use such tools nor to who specifically should use them therefore social and economic analyses are important in the planning stages of projects that are aimed at practical results Achieving sustainable cultivation of maize Volume 1 Dr Dave Watson, 2017-06-09 Reviews key challenges and advances in maize breeding methods Discusses the development of varieties with enhanced nutritional and other properties such as improved protein content and abiotic stress resistance Summarises key steps being taken to support smallholders growing maize in developing countries **Advances in Agronomy** ,1991-12-02 Under new editorial direction Advances in Agronomy both continues its long tradition and expands to include innovative methods and technologies Leading international scientists cover topics in plant and soil sciences biotechnology terrestrial ecosystems and environmental concerns This volume presents three articles devoted to plant productivity and improvement and three articles devoted to advances in soil science This and future volumes will be of interest to agronomists in academe industry and government The field of agronomy has changed greatly since the publication of the first volume of Advances in Agronomy in 1949 Many innovations and advances have occurred yet many challenges remain Key Features Influence of soil structure and physical properties on environmental quality Application of nuclear magnetic resonance spectroscopy to soil chemistry Use of low lignin mutants for improving forage quality Application of DNA markers and genetic strategies to plant improvement **Plant Breeding Reviews, Volume 14** Jules Janick, 2010-04-07 A state of the art overview on important topics relating to the breeding of agriculturally and horticulturally important plants It continually monitors developments in plant breeding research and covers major field crops horticultural crops and specialties

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