

1. Record Nr.	UNINA9910583085203321
Titolo	Cereal grains : assessing and managing quality // editors, Colin Wrigley, Ian Batey, Diane Miskelly
Pubbl/distr/stampa	Cambridge, Massachusetts : , : Woodhead Publishing, , 2017 ©2017
ISBN	0-08-100730-2
Edizione	[Second edition.]
Descrizione fisica	1 online resource (832 pages) : illustrations, tables
Collana	Woodhead Publishing Series in Food Science, Technology and Nutrition
Disciplina	641.331
Soggetti	Cereals as food Grain Grain - Quality
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Preface to the second edition -- Preface to the first edition -- Assessing and managing quality at all stages of the grain chain / Colin Wrigley -- The cereal grains: Providing our food, feed and fuel needs / Colin Wrigley -- The diversity of uses for cereal grains / Ian Batey -- Cereal-grain morphology and composition / Colin Wrigley -- Wheat: Grain-quality characteristics and management of quality requirements / Surjani Uthayakumaran and Colin Wrigley -- Durum wheat: Grain-quality characteristics and management of quality requirements / Ray Hare -- Rye: Grain-quality characteristics and management of quality requirements / Colin Wrigley and Walter Bushuk -- Triticale: Grain-quality characteristics and management of quality requirements / Colin Wrigley and Walter Bushuk -- Barley: Grain-quality characteristics and management of quality requirements / Marta S. Izydorczyk and Michael Edney -- Oats: Grain-quality characteristics and management of quality requirements / Pamela Zwer -- Corn: Grain-quality characteristics and management of quality requirements / Zoltan Gyori -- Rice: Grain-quality characteristics and management of quality requirements / Melissa Fitzgerald -- Sorghum and millets: Grain-quality characteristics and management of quality requirements / John R.N. Taylor and Kwaku G. Duodu -- Ancient wheats and pseudocereals for possible use in

cereal-grain dietary intolerances / Ferenc Bekes, Regine Schoenlechner, and Sandor Tomoskozi -- Food safety aspects of grain and cereal product quality / Anton J. Alldrick -- Breeding for grain-quality traits / Zoltan Bedo, Laszlo Lang, and Mariann Rakszegi -- Identification of grain variety and quality type / Crispin A. Howitt and Diane Miskelly -- The effects of growth environment and agronomy on grain quality / Michael Gooding -- Analysis of grain quality at receival / Stephen Delwiche and Diane Miskelly -- Maintaining grain quality during storage and transport / Ian Batey -- Biosecurity: Safe-guarding quality at all stages of the grain chain / David R. Eagling, Bill Magee, Pat J. Collins, Yong Lin Ren, Yang Cao, and Fujun Li -- Assessing and managing wheat-flour quality before, during, and after milling / Diane Miskelly and Dai Suter -- Industrial processing of grains into co-products of protein, starch, oils, and fibre / Ian Batey, Colin Wrigley, and Diane Miskelly -- Optimisation of end-product quality for the consumer / Diane Miskelly -- Grain quality: The future is with the consumer, the scientist, and the technologist / Colin Wrigley, Ian Batey, and Diane Miskelly -- Appendix 1: Composition of grains and grain products / Denise L. King, Bhaskarani Jasthi, and Janet Pettit -- Appendix 2: Equivalence between metric, U.S., and Chinese units for the grain industry / Colin Wrigley.

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### Sommario/riassunto

Quality and food safety are important throughout the value-addition chain, from breeding, production, harvest, storage, transport, processing, and marketing. At all stages, analysis is needed so that quality management can proceed intelligently. These considerations are examined for each of the major cereal species, including wheat (common and durum), rye and triticale, barley and oats, rice, maize (corn), pseudocereal species, sorghum, and the millets. Divided into five sections, the book analyses these for the range of cereal species before a final section summarizes key findings.--

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