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second polar event The fusion of a male gamete with two haploid female nuclei at the time of the fertilisation of the ovule The resulting triploid nucleus divides to form the endosperm. seed coat See integuments. shoot apex See apical meristem. soft dough A description the grain at maximum fresh weight.

~~Glossary - Cereal Genomics Home Page~~

second cereal, when early or late sown and on light and heavy soil types. Xi19 is unusual in the nabim high quality Group 1 sector in that it has performed well when sown as a first or second cereal (table 4). Xi19 is very well suited to a range of soil types and has been proven to be an excellent choice for higher yielding situations.

~~E-mail: enquiries@nickerson.co.uk Tel: 01472 371471 Fax ...~~

The wheat genome is very large (5x the size of the human genome) and complex. The knowledge on cereal genome structure is used in our group for the molecular isolation of agronomically important genes from wheat and barley. We have recently isolated the first two resistance genes against the fungal diseases leaf rust and powdery mildew of wheat.

~~Keller Beat | Swiss Plant Science Web~~

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The ability to sequence genomes is being advanced by increasingly high throughput technology. This is driven by what has been termed next or second-generation sequencing. Second-generation sequencing describes platforms that produce large amounts (typically millions) of short DNA sequence reads of length typically between 25 and 400 bp.

~~De novo sequencing of plant genomes using second...~~

Cereal agriculture originated with the domestication of barley and early forms of wheat in the Fertile Crescent. There has long been speculation that barley was domesticated more than once. We use differences in haplotype frequency among geographic regions at multiple loci to infer at least two domestications of barley; one within the Fertile Crescent and a second 1,500–3,000 km farther east.

~~Genetic evidence for a second domestication of barley...~~

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~~Genomics Of Tropical Crop Plants Plant Genetics And ...~~

In a blow to hopes for better protection from seasonal flu, last week ' s phase III failure of BiondVax ' s universal flu vaccine follows the phase II flop of Vaccitech ' s flu vaccine in January. Last week proved a major setback for the Israeli biotech BiondVax. The company ' s vaccine -- designed to protect against multiple strains of flu -- failed in phase III.

The Encyclopedia of Food Grains is an in-depth and authoritative reference covering all areas of grain science. Coverage includes everything from the genetics of grains to the commercial, economic and social aspects of this important food source. Also covered are the biology and chemistry of grains, the applied aspects of grain production and the processing of grains into various food and beverage products. With the paramount role of cereals as a global food source, this Encyclopedia is sure to become the standard reference work in the field of science. Also available online via ScienceDirect – featuring extensive browsing, searching, and internal cross-referencing between articles in the work, plus dynamic linking to journal articles and abstract databases, making navigation flexible and easy. For more information, pricing options and availability visit www.info.sciencedirect.com. Written from an international perspective the Encyclopedia concentrates on the food uses of grains, but

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details are also provided about the wider roles of grains Well organized and accessible, it is the ideal resource for students, researchers and professionals seeking an authoritative overview on any particular aspect of grain science This second edition has four print volumes which provides over 200 articles on food grains Includes extensive cross-referencing and "Further Reading" lists at the end of each article for deeper exploration into the topic This edition also includes useful items for students and teachers alike, with Topic Highlights, Learning objectives, Exercises for Revision and exercises to explore the topic further

Our lives and well being intimately depend on the exploitation of the plant genetic resources available to our breeding programs. Therefore, more extensive exploration and effective exploitation of plant genetic resources are essential prerequisites for the release of improved cultivars. Accordingly, the remarkable progress in genomics approaches and more recently in sequencing and bioinformatics offers unprecedented opportunities for mining germplasm collections, mapping and cloning loci of interest, identifying novel alleles and deploying them for breeding purposes. This book collects 48 highly interdisciplinary articles describing how genomics improves our capacity to characterize and harness natural and artificially induced variation in order to boost crop productivity and provide consumers with high-quality food. This book will be an invaluable reference for all those interested in managing, mining and harnessing the genetic richness of plant genetic resources.

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For the first major update of this topic in 21 years, editors Webster and Wood have gathered an elite group of internationally recognized experts. This new edition addresses all aspects of oat chemistry, processing, nutrition, and plant genetics. It reflects the considerable changes in the science and food uses of oats that have occurred during the last two decades. Each chapter presents an in-depth review of a specific research area complete with an extensive bibliography. The book provides an important summary of oat nutritional research and associated health claims that have been granted in recognition of the nutritional benefits associated with oat consumption. The individual chapters on component chemistry and functionality provide an excellent resource for product developers in their quest to design new, healthy, oat-based food products. The chapters on oat molecular biology and oat breeding coupled with the extensive works on oat nutrition provide direction to researchers interested in developing oats with enhanced nutrition. Oats: Chemistry and Technology, Second Edition, is the only up-to-date review of oat chemistry and technology and will be a valuable resource for food science professionals including nutritionists, cereal chemists, plant biochemists, plant breeders, molecular biologists, grain millers, and product development and research scientists. Improve Your Knowledge About This Super Grain Covers all areas of oat technology - Single source provides in-depth review of all aspects of oat technology. Provides an excellent source of oat nutritional information - Includes details of oat nutritional studies and potential health claims with a special emphasis on β -glucans. Offers authoritative descriptions of oat composition and functional properties - Provides

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researchers and food scientists with key chemical and application information. Highlights oat improvement opportunities - Breeding and molecular information provides researchers direction on oat improvement opportunities. Updates our knowledge of oat-processing technology - Provides in-depth discussion of oat milling and oat fractionation. Demystifies oat phenolics - Provides a peer-reviewed, in-depth discussion of oat phenolic chemistry and functional attributes.

Cultivation of grain crops has been rightly recognized as one of the main drivers in shaping human civilizations. Considering their key role in fulfilling a major portion of the global food needs, grain crops are the most widely grown crops around the world. Unfortunately, like many other agronomic crops, grain crops are quite vulnerable to climate change and this has posed multifaceted threats to agricultural sustainability. To add to the menace, the deteriorating quantity and quality of both land and water as primary factors of production are further aggravating the scenario. Confronting such challenges demands innovative adaptation strategies through intensification of grain crop production that can ensure grain self-sufficiency worldwide.

This book presents state-of-the-art, authoritative chapters on contemporary issues in the broad areas of quantitative genetics, genomics and plant breeding. Section 1 (Chapters 2 to 12) emphasizes the application of genomics, and genome and epigenome editing techniques, in plant breeding; bioinformatics; quantitative trait loci mapping; and the latest approaches of examining and exploiting genotype-environment interactions. Section 2

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(Chapters 13 to 20) represents the intersection of breeding, genetics and genomics. This section describes the use of cutting-edge molecular breeding and quantitative genetics techniques in wheat, rice, maize, root and tuber crops and pearl millet. Overall, the book focuses on using genomic information to help evaluate traits that can combat biotic/abiotic stresses, genome-wide association mapping, high-throughput genotyping/phenotyping, biofortification, use of big data, orphan crops, and gene editing techniques. The examples featured are taken from across crop science research and cover a wide geographical base.

Wild crop plants play a significant part in the elucidation and improvement of the genomes of their cultivated counterparts. The 10-volume *Wild Crop Relatives: Genomic and Breeding Resources* offers a comprehensive examination of wild crops as a gold mine for breeding. It details the status, origin, distribution, morphology, cytology, genetic diversity and available genetic and genomic resources of numerous wild crop relatives, as well as of their evolution and phylogenetic relationship. Further topics include their role as model plants, genetic erosion and conservation efforts, and their domestication for the purposes of bioenergy, phytomedicines, nutraceuticals and phytoremediation. *Wild Crop Relatives: Genomic and Breeding Resources* comprises 10 volumes on cereals, millets and grasses, oilseeds, legume crops and forages, vegetables, temperate fruits, tropical and subtropical fruits, industrial crops, plantation and ornamental crops, and forest trees. It contains 126 chapters contributed by 380 authors from 39 countries.

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Genetics and breeding of agronomic traits. Genetic diversity, evolution, and alien introgression. Molecular markers, QTL mapping, and marker-assisted selection. Genomics. Gene isolation and function. Tissue culture and transformation. Genetics of rice pathogens.

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