1. Record Nr. UNISALENTO991000877089707536

Autore	Knight, Frank B.
Titolo	Essays on prediction process / Frank B. Knight
Pubbl/distr/stampa	Hayward, Calif : IMS (Institute of Mathematical Statistics), c1981
Descrizione fisica	vii, 108 p. ; 26 cm.
Collana	Lecture notes-monograph series ; 1
Classificazione	AMS 60G07 AMS 60J55
Disciplina	519.23
Soggetti	General theory of processes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910765746603321

Titolo	Design and applications of coordinate measuring machines / / edited by Kuang-Chao Fan
Pubbl/distr/stampa	Basel, Switzerland : , : MDPI, , [2016] ©2016
ISBN	3-03842-277-0
Descrizione fisica	1 online resource (v, 183 pages) : illustrations
Disciplina	670.425
Soggetti	Coordinate measuring machines
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	Coordinate measuring machines (CMMs) have been conventionally used

	in industry for 3-dimensional and form-error measurements of macro parts for many years. Ever since the first CMM, developed by Ferranti Co. in the late 1950s, they have been regarded as versatile measuring equipment, yet many CMMs on the market still have inherent systematic errors due to the violation of the Abbe Principle in its design. Current CMMs are only suitable for part tolerance above 10 m. With the rapid advent of ultraprecision technology, multi-axis machining, and micro/nanotechnology over the past twenty years, new types of ultraprecision and micro/nao-CMMs are urgently needed in all aspects of society. This Special Issue accepted papers revealing novel designs and applications of CMMs, including structures, probes, miniaturization, measuring paths, accuracy enhancement, error compensation, etc. Detailed design principles in sciences, and technological applications in high-tech industries, were required for submission.

3.

Record Nr.	UNINA9910770265903321
Autore	Kole Chittaranjan
Titolo	Compendium of Crop Genome Designing for Nutraceuticals [[electronic resource] /] / edited by Chittaranjan Kole
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	9789811941696 9789811941689
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (1630 pages)
Disciplina	631.5233
Soggetti	Agronomy Agricultural biotechnology Agricultural genome mapping Agricultural Biotechnology Agricultural Genetics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Nutraceutical Usages and Nutrigenomics of Castor -- Genetic

Enhancement of Nutraceuticals in Linseed: Breeding and Molecular Strategies -- Increasing Nutraceutical and Pharmaceutical Applications of Safflower: Genetic and Genomic Approaches -- Oil Palm: Genome Designing for Improved Nutritional Quality -- Nutritional Traits of Beans (Phaseolus vulgaris): Nutraceutical Characterization and Genomics -- Genetic Improvement of Nutraceutical Traits in Chickpea (Cicer arietinum L.) -- Nutrient-Dense Pea (Pisum sativum L.): Genetics and Genomics Mediated Developments -- Breeding Cowpea: A Nutraceutical Option for Future Global Food and Nutritional Security -- Lentils (Lens culinaris Medik): Nutritional Profile and Biofortification Prospects -- Grain Micronutrients in Pigeonpea: Genetic Improvement Using Modern Breeding Approaches -- Rice Bean: A Neglected and Underutilized Food Crop Emerges as a Repertory of Micronutrients Essential for Sustainable Food and Nutritional Security -- Improvement of Nutraceutical Traits of Banana: New Breeding Techniques -- Apples: Role of Nutraceutical Compounds -- Integrating Omic Tools to Design Nutraceutically Rich Citrus -- Watermelon: Advances in Genetics of Fruit Qualitative Traits -- Grapes: A Crop with High Nutraceuticals Genetic Diversity -- .

Sommario/riassunto

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 nutracuticals 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.