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2. WFL Publisher:

·WFL Publisher publishes the scientific Journal of Food, Agriculture and Environment (JFAE). However we do publish reports, proceeding, books, journals. For more details.click (www.isfae.org/aboutus.php)

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- Evaluation
- Education and Training

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- To advertise products, materials etc..
- To organize meetings, seminars, courses or exhibition.
- To publish scientific or professional materials.

6. We provide opportunities:

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Books

Book proposal

We invite scientists and experts to submit book proposal (s). We suggest that books are very focused and of high-level (research and development level). You may send by **email or air mail** in two pages the following details:

- Aims and scope of the book
- Chapter titles & proposed contents
- List of contributors
- Proposed time-frame

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Scientific Material For Sale

1-Effect of Nutritional Status and Calcium Uptake on the Quality of Outdoor Vegetables

Research report of a project on outdoor vegetables including white cabbage, Savoy cabbage, broccoli, cauliflower, Chinese cabbage, lettuce, cucumber, squash, onion, leek, red beetroot, rutabaga, carrot, celeriac and potato. Nutritional status and calcium uptake in outdoor vegetable stands during the growing season and effect on quality and storability was studied. ISBN : 952-5482-10-3; Length: 250 pages, Cost: 86 euro, In CD Rom: 150 euro

2-Nutritional status of apple orchards in the Åland Islands

(ISBN:951-45-7742-6; 120 pages; price: 100 euro)

3-Effect of preharvest calcium treatments on postharvest quality of apples grown in Finland

(ISBN:951-45-8381-7; 112 pages; 9 coloured photos; price 100 euro).

4-Leaf macronutrient composition in relation to growth and yield potential of currants

(ISBN:951-45-9670-6; 124 pages; price 100 euro)

5-Hedelmän-ja marjanviljelyyn soveltuvan sijoituslannoitusmenetelmän kehittäminen

(ISBN:951-45-8914-9; 110 pages; price 100 euro)

6-Efterskördskvalitet hos äpplen odlade på Åland 1993-1995 efter kalciumbehandling fore skörd

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- to invite libraries and the head of departments to subscribe the Journal of Food, Agriculture & Environment. For more details kindly check the website: www.isfae.org
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CONSULTANT

Consultant Service

Who are we?

- International consultant established by a team of well known experts based in Helsinki, Finland.
- Expertise of the entire group is available for any project dealing with Food, Health, Agriculture or Environment.

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- We introduce new technologies and concepts
- Turnkey solutions for setting up projects from "concept to commissioning and beyond".
- Networking with research centres, universities, companies and organisations
- We are actively associated with various trade and industrial forums.
- Technology assessment and know-how transfer
- Project profiles, feasibility studies, market studies and detailed project reports and publications.
- Assist, aid and promote the agro based, food and Industry through innovations and continuous improvements.
- Integrated planning and development.
- Add utilitarian value to the industries by sourcing newer technologies and techniques and act as a tool for their effective assimilation and publications through WFL Publisher and ISFAE.
- **We are willing to be your partner in any R&D projects (by offering our know how, assistance and publishing your materials -through WFL Publisher).**
- To investigate special issues in any part of the world. We may investigate on specific topics or to interview experts, decision makers or other professionals on hot topics. Kindly let us know your opinion.

Main Area of Expertise

- | | |
|---|--|
| -Agro business development | Development of rural organisations and co-operatives |
| -Integrated dairy, meat and other food processing | Food security |
| -Food Science and technology, food safety and quality control | Land tenure |
| -Seed production and seed industry development | Human Nutrition & health |
| -Organic farming | Rural education |
| -Integrated pest management | Sustainable management of natural resources |
| Environmental legislation | Biodiversity |
| Community forestry | Protected area management |
| Biosafety | etc. |

Note to experts

We would like to develop cooperation programmes with companies or institutions. We also would like to invite experts to send us a short Cv to be included in our roster. We appreciate if you can mention about 10 fields that you wish to get involved in or some key words. Thanking you in advance.

Contact us

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We welcome cooperation or partnership

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Note

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Our mission is to help you to fulfill your commitments in a timely manner!

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Agri-Food ‘Research & News’

ISSN: 1459-2029

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- Translated information or short summaries of topics from local journals (mention the source of the information)

Please feel free to contact us if we can be of further assistance.



ISFAE-Executive Secretariat

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Kindly inform us of foundations, organisations, institutions, companies or individuals to support ISFAE's journals or meetings. Thank you!

Note to Head of Department

The Secretariat & the Executive Committee of the International Society of Food, Agriculture and Environment (ISFAE) cordially invite head of departments, head of institutes or decision makers to organize **self funded** local or international events such as:

- Meeting, workshop, symposium
- Conference
- Seminar
- Courses
- Training
- Exhibitions
- Other Related Happenings

ISFAE encourages organisers to organise some of the above events.

The ISFAE will take care of the followings:

- ISFAE will make an official contract with the organisers.
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- to disseminate the information, to send announcements and instructions to scientists and experts etc.
- with the collaboration of *WFL* Publisher, ISFAE will take charge of resulting publication, print and distribution of proceeding , report, or/and books etc.
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- It is forbidden to use any of our logos without the written agreement of the ISFAE ´secretariat office.
- We look forward to receiving your feedback.

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For more details please contact the secretariat:



ISFAE - Executive Secretariat

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ISFAE Scientific Meetings and Exhibitions



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Kindly inform us about Foundations, Companies, Institutions, Organisations or Individuals to support ISFAE's journals or meetings. Thank you!

(1) Silicon in Food, Agriculture and Environment

Period: 2 - 5 August 2004

For more details please take contact with Prof. Matichenkov, Vladimir: Institute Basic Biological Problems Russian Academy of Sciences, Pushchino, Moscow region, 142290, Russia. e-mail: vvmatichenkov@rambler.ru or vvmatichenkov@mail.ifas.ufl.edu. Tel: (772)468-3922 ext 166 / Fax: (772)468-5668

-The Secretary of the meeting: Dr. Elena Bocharnikova: Institute Physico-Chemical and Biological Problems of Soil Science, Russian Academy of Sciences, Pushchino, Moscow region, 142290, Russia. Email: mstk@rambler.ru

(2) Food and Environment Interactions

Location: Akure, Nigeria.

For more details Contact: Dr. Victor N. Enujiugha: Department of Food Science and Technology, School of Agric. and Agric. Technology, Federal University of Technology, P. M. B. 704, Akure, Nigeria. / Email: venujiugha@yahoo.com or or Isfae@isfae.org

(3) Food and Health (Nutritional Problems and Children Disease).

Location: Argentina. For more details please contact : Annie Hubert, Directeur de Recherche CNRS, 239 rue Mandron, 33 000 Bordeaux, France. E-mail: anahubert@club-internet.fr or or Isfae@isfae.org

(4) International Conference on Bioprocess in Food Industry (ICBF-2004)

Date and Location: 24-27 october, 2004 in Clermont-Ferrand, France. The organizer is Blaise Pascal University, ISFAE being one of the co-organizers. Convenor : Prof. Christian Larroche, Co-convenor : Prof. Ashok Pandey.

For more details please contact: Christian Larroche, Head of Biochemical Engineering department, Chemical and Biochemical Engineering Laboratory CUST - Blaise Pascal University 24, avenue des Landais - BP 206 F-63174 Aubière cedex, France. Tel : (33) 473407429 / Fax : (33) 473407829. URL: <http://www.univ-bpclermont.fr/LABOS/Igcb> Member of ISFAE : <http://www.isfae.org>

(5) International Conference on Postharvest Technology & Quality Management in Arid Tropics

24-26 January 2005

Sultan Qaboos University, Sultanate of Oman

Contacts: Assoc Prof. Linus U. Opara & Assoc Prof. Shyam S. Sablani, Department of Bioresource and Agricultural Engineering College of Agricultural and Marine Sciences, Sultan Qaboos University, P.O. Box 34, Al-Khod, Sultanate of Oman Fax: +968 513-418 Tel: +968 515-238 Emails: linus@squ.edu.om and shyam@squ.edu.om

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WFL Publisher Ltd.
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Managing Director

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Important Note:

This Scientific Journal of Food, Agric. & Envir. Accepts theFollowing:

Summary of Your Previous or Upcoming Meeting or Abstracts

Summary of Your Thesis /Hot Topic

Summary of Scientific Reports or Related Materials

Summary of Ongoing R&D Projects

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NEW BOOKS

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Crop Management and Postharvest Handling of Horticultural Crops

Vol. 1. Quality Management

Editor

Ramdane Dris PhD. World Food Ltd. Meri-Rastilantie 3 C, FIN-00980 Helsinki Finland , www.world-food.net

Raina Niskanen PhD. World Food Ltd. Meri-Rastilantie 3 C, FIN-00980 Helsinki, Finland. www.world-food.net

Shri Mohan Jain PhD. Plant Breeding and Genetics Section Join FAO/IAEA, Division of Nuclear Techniques in Food and Agriculture. Department of Nuclear Sciences and Applications, International Atomic Energy Agency, Vienna, Austria

The main focus of this book is on two major aspects, namely, mineral nutrition and quality management, and second, on the effect of preharvest or postharvest practices on quality of crops grown under different climatic conditions, worldwide. We have highlighted the achievements related to minimizing the postharvest loss by providing information on production, physiological changes, pre and postharvest storage requirements, storage problems, and nutrient management systems in relation to plant health and productions, environment protection in agriculture and in postharvest and processing aspects. Sixteen chapters are included in the first volume of this book: "The Quality Cycle; Testing Soils for Determining Fertilizers Needs of Horticultural Crops; Nutritional Management of Vegetables and Ornamental Plants in Hydroponics; Managing Crop Load; Low-alcohol Grape and Fruit Wine; Paprika Spice Production; Factors Associated with Peach Yield, Quality and Postharvest Behaviour; Influence of Calcium Nutrition on the Quality and Postharvest Behaviour of Apples; Economic analysis of Postharvest systems in Root and tuber Crops; Postharvest Handling of Strawberries for Fresh Market; Postharvest Biological Changes and Technology of Citrus Fruit; Ethylene Biosynthesis- Role in Ripening and Quality of 'Hayward' Kiwifruit after Harvest, During Storage and Shelf-Life; Postharvest Pests and Physiological Disorders of Cassava; Environmental Control for Storage of Rooted Propagation Material; Minimizing Postharvest Rots and Quality Loss in New Zealand Carrots; Minimal Processing of Fruits and Vegetables". For more information kindly visit the website www.worldfood.net or take contact with the Ramdane Dris , World Food Ltd. Meri-Rastilantie 3 C, Fin-00980 Helsinki Finland. Tel/Fax: 00 358 9 75 92 775, Email: Info@world food.net or news2100@yahoo.com. ISBN 1-57808-140-8/ 2001.

Vol. 2. Postharvest Technology of Fruits and Vegetables

Editor

Ramdane Dris PhD. World Food Ltd. Meri-Rastilantie 3 C, FIN-00980 Helsinki Finland , www.world-food.net

Raina Niskanen PhD. World Food Ltd. Meri-Rastilantie 3 C, FIN-00980 Helsinki, Finland. www.world-food.net

Shri Mohan Jain PhD. Plant Breeding and Genetics Section Join FAO/IAEA, Division of Nuclear Techniques in Food and Agriculture. Department of Nuclear Sciences and Applications, International Atomic Energy Agency, Vienna, Austria.

This book volume focuses on the influence of postharvest practices on the quality of horticultural commodities in order to enhance preservation of fresh fruits and vegetables (including root and tuber crops) grown under different climatic conditions, worldwide. We have provided information by high lighting the achievements related to minimizing the postharvest losses, postharvest technology, physiological changes, storage problems and processing aspects. Fifteen chapters are included in this book volume, which are: The Cool-Chain: An Integrated Temperature Management System For Fresh Produce; Techniques of Modified and Controlled Atmosphere Storage for Fresh Fruits and Vegetables; Quality, Handling and Storage of White Asparagus; Food Safety Practices in Vegetables; Postharvest Technology of Onions; Mechanics and Texture of Fruits and Vegetables; Modified and Controlled Atmospheres of Reduce Postharvest Quality Loss of Fresh Fruits and Vegetables; Physiology and Postharvest Quality of Date Palm Fruit; Citrus: Postharvest Cold Chain; Non-destructive Harvest Time Decision of Horticultural Crops; Development, Physiology and Postharvest Technology of Mango; Postharvest Biology and Technology of Longan; Postharvest Physiology and Quality Changes of Loquat; Postharvest Physiology and Handling of Litchi Fruit; Postharvest Technology of Root and Tuber Crops. For more information kindly visit the website www.worldfood.net or take contact with the Ramdane Dris , World Food Ltd. Meri-Rastilantie 3 C, Fin-00980 Helsinki Finland. Tel/Fax: 00 358 9 75 92 775, Email: Info@world food.net or news2100@yahoo.com. ISBN:1-57808-216-1; 2003.

Vol. 3. Crop Fertilisation, Nutrition and Growth

Editor

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Raina Niskanen PhD. World Food Ltd. Meri-Rastilantie 3 C, FIN-00980 Helsinki, Finland. www.world-food.net

Shri Mohan Jain PhD. Plant Breeding and Genetics Section Join FAO/IAEA, Division of Nuclear Techniques in Food and Agriculture. Department of Nuclear Sciences and Applications, International Atomic Energy Agency, Vienna, Austria

This book has compiled information on management tools, and also to review factors affecting the plant mineral nutrition and growth. We have highlighted the importance of fertilizers and mineral nutrition to improve agricultural production, yield, and amelioration of soil fertility. This book also highlights growth, production, yield and quality which can be limited by suboptimal conditions such as soil, salinity, poor drainage, water supply, fertilization programs, physical conditions affecting root growth and function or handling operations. The production of good quality food can not be achieved without the strict control of the use of fertilizers and other pesticide sprays. Thirteen chapters are included in the present book volume and they are as follows: Environmental Effects of Fertilizers; Crop Quality Under Adverse Conditions: Importance of Determining the Nutritional Status; The Importance of Boron in Apple Production; Integrated Nutrient Management in Indian Soils for Sustainable Crop Production; Role of Phosphorus in Carbon Uptake, Fruit Yield and Quality in Strawberry; Nutrition of Tropical Horticulture Crops and Quality Products; Soil Fertility Management with Wood Ash; Role of Grafting in Horticultural Plants; Domestication of Jujube Fruit Trees. For more information kindly

visit the website www.world-food.net or take contact with the Ramdane Dris , World Food Ltd. Meri-Rastilantie 3 C, Fin-00980 Helsinki Finland. Tel/Fax: 00 358 9 75 92 775, Email:Info@world-food.net or news2100@yahoo.com. ISBN:1-57808-278-1; 2003.

Vol.4. Disease and Disorder of Fruit and Vegetables

Editor

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This book covers various aspects of quality losses of fruits and vegetables, and the different treatments to be assessed. For the most part, the book deals with interactions between pre- or postharvest treatments and quality performance for a wide variety of food crops. It provides information on latest methods, techniques or treatments, which should be more meaningful to scientists and the other readers, and allow them to apply such techniques. The book has nine chapters: Control of Postharvest Diseases of Fresh Fruits and Vegetables by Preharvest Application of Antagonistic Microorganisms; Influence of Calcium on Tipburn in Vegetables; Characteristics and Control of Harvest and Postharvest Disorders in Apples and Pears; Postharvest Biological and Integrated Control of Fungal Pathogens on Fruit; Biosynthesis of Flavonoids in Citrus and Its Involvement in the Antifungal Defence Mechanisms; Reduction of Chilling Injury Disorders in Citrus Fruit; Strawberry Fungal Diseases; Hop and Olive Diseases; Fungal Diseases of Grape. For more information kindly visit the website www.world-food.net or take contact with the Ramdane Dris , World Food Ltd. Meri-Rastilantie 3 C, Fin-00980 Helsinki Finland. Tel/Fax: 00 358 9 75 92 775, Email:Info@world-food.net or news2100@yahoo.com. ISBN 1-57808-279-X.

Plant Physiology - Characteristics-Breeding-Genetics

Editor

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Catherine Barry-Rayan PhD. Food Science Research Center, University of Limerick, Ireland

This book contains a compilation of articles with a great number of information dealing with different issues related to plant physiology, genetics and breeding. This book includes recent information on scientific research, worldwide. The main focus of this book is to review factors affecting physiological changes occurring during the growth and development and view on breeding of crops. Actually, there is still a lack of fresh information on the impact of physiological changes on the activity of some metabolisms and similar changes. The breeding is also considered as an approach to improve the quality traits of some crops. The book can be useful for scientists, researchers, students or experts dealing with plant physiology, plant biotechnology, plant pathology breeding and genetics. The 26 chapters of the book cover the following topics: Chilling Stress Response of Crop Plant to Low Non Freezing Temperatures; Fractionation of Wheat Gliadins; Characterisation and Inhibition of Polyphenoloxidase of Yellow Mombin (*Spondias mombin* L.) Fruit; Floral Morphogenesis of Tomato Plants Subjected to Application of Bioactive Substances; Influence of PPO Activity on Quality of Pear; Comparative Study between Coloured and White-blossom field Pea in Latvia; Chip Quality Determination Traits: Variability and Heritability in Potato Clone Population; Sink Activity of Cytokinins and Plant Productivity; Columnar Growth in Apple Breeding; Characterisation of Latvian Red and White Currant (*Ribes rubrum* L.) Genetic Resources; Phaseolus Germplasm Collection Management System in Belarus; Flowering and Productivity Stimulation of *Pisum sativum* L. Plants after Spraying with Potassium Orate; Low Temperature Effects on Dry Matter Partitioning and Yield of Cassava Clones; *Bacillus subtilis* BS 934 Antagonistic Action upon Soft Rot and Black Leg Agents; Cytogenetic Analysis of Cell Abnormalities in root Meristem of Peas (*Pisum sativum* L.) after Treatment with Herbicides; Highly Productive and Adaptive Common Bean Samples from the Collection of Belarus State University; In vitro Preliminary Test: Antagonism of Some Microbial Organisms and *Pseudomonas syringae*; Potential and Possibilities of Using Gametophytic Generation in Conventional Plant Breeding Methods: A Synergy for Rapid Plant Improvement; Pollen response as Marker (PRM) and Pollen Selection: Novel Tools in Crop Improvement; Study of Antifungal Effect and Nature of Suppressive Volatile Produced by *Bacillus subtilis* BS 2924; Alternative Method for Evaluation of Soybean (*Glycine max* (L.) Merr): Advance Lines based on Genotype Ranking; Accumulation and Preservation of the Gene Fund of Flower, Breeds and Hybrids Developed by Lithuanian Selectionists; Introduction and Selection of Fruit Plants in Pomology Department of Vilnius University Botanical Garden; Study on Inheritance of Characteristics Related to the Phosphorus Efficiency in Varieties of Spring Wheat; Evaluation of Ornamentation of Gladioli Cultivars in Vilnius University Botanical Garden; Standardisation of in-vitro Pollen Screening for Osmotic Stress in Sorghum. For more information kindly visit the website www.world-food.net or take contact with the Ramdane Dris , World Food Ltd. Meri-Rastilantie 3 C, Fin-00980 Helsinki Finland. Tel/Fax: 00 358 9 75 92 775, Email:Info@world-food.net or news2100@yahoo.com. ISBN:1-57808-240-4; Year: 2002.

Food Technology and Quality Evaluation

Editor

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Arun Sharma PhD. Food Science & Safety Section Food Technology Division, Bhabha Atomic Research Centre, Mumbai 400 085, India

The book contains a great number of information dealing with different issues related to crop science and technology with its broad aspect. The attempts to prolong and preserve the freshlike attributes of horticultural food crops date back to historic times. This fact has been very interestingly brought forward in this book in an article authored by the Chinese scientists. The book also contains a number of articles with valuable information on the application of recent techniques and development of methodologies. The present book describes the impact of environmental factors on food crop quality, including handling parameters, quality evaluation, CA and MAP storage conditions, worldwide. A few articles contain frontline research and development in this area. Though only a few horticultural commodities have been included, the book covers the entire spectrum of activities in the area of fruit and vegetable and few other plant products such as medicinal plants, production, yield, and quality assessment. The book should equally interest both the researchers and lay persons. The book contains 43 chapters: Influence of field conditions and handling operations of fruit quality; Development and prospects for fruit and vegetable storage and transport industry in China; Biochemistry and molecular biology of papaya fruit softening during ripening; Quality maintenance of apples after harvest; Improving control of storage regimens using computer-based control system; Influence of

storage conditions on quality performance on mamey amarillo fruits; Quality changes in sweet corn (*Zea mays* L. ssp. *saccharata*) cv. Trophy F under various storage conditions; Prolonging the self life of apples by modified atmosphere packaging; Shelflife of minimally-processed fruits and vegetables; Postharvest handling of pineapple; Postharvest quality of red currant; Impact of postharvest conditions on processing quality of potato; Nondestructive determination of soluble solids in horticultural crops by near-infrared spectroscopy; Controlling of enzymatic browning in processing of fruits and vegetables; Relation between water-soluble and total Ca content and bitter pit occurrence in 'Idared' apple; Controlled atmosphere temperature treatment system (CATTS); Relations between mineral element contents in 'Jonica' apples and their liability to physiological disorders during storage; Quality of commercialized oregano (*Oreganum vulgare* L.) in Argentina; Effect of saline water irrigation and storage temperature on sensory evaluation of tomato fruits; Influence of controlled atmosphere storage on apple quality; Suitability of frozen raspberry cultivars for puree; Improved cold storage of vegetables by treatment with microbiological cultures; Biochemical and physico-chemical characteristics of dehydrofrozen and frozen sweet pepper; Postharvest storage improvement in pineapples by irradiation; Extension of self life of mushroom (*Agaricus bisporus*) by using gamma radiation; Potential use of plant extracts to reduce postharvest fungal rots of fruits and vegetables; Evaluation of the behaviour of two redcurrant varieties (*Ribes rubrum* L.); New Romanian apricot varieties; Fruit juice quality evaluation according to anionic profile determined by capillary isotachopheresis; Chemical composition and storability of cranberry; Biochemical composition of *Sorbus* fruits and its change during ripening; Radical scavenging and antioxidant activity of various plants grown in Lithuania; Antioxidant constituents in Moldavian dragonhead (*Dracocephalum moldavica* L.) extracts; Application of plant extracts and synthetic antioxidants for rapeseed oil stabilization; Extraction of aromatic and medicinal plants with supercritical carbon dioxide; Physiology of red bayberry during preharvest and harvest time; Current trends in postharvest technology; Injury of red bayberry during storage and transportation; Development of irradiation system to enhance postharvest quality of vegetables; Influence of chilling injury on horticultural commodities; Storage technology to improve fruit and vegetable quality performance; Harvest season changes the textural and compositional quality of long-term harvested green asparagus from mother stalk culture. For more information kindly visit the website www.world-food.net or take contact with the Ramdane Dris, World Food Ltd. Meri-Rastilantie 3 C, Fin-00980 Helsinki Finland. Tel/Fax: 00 358 9 75 92 775, Email: Info@world-food.net or news2100@yahoo.com. Publisher: Science publisher; ISBN:1-57808-235-8; Year: 2002

Environment and Crop Production

Editor

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The book contains a compilation of articles with a great number of information dealing with different issues related to environment, crop cultivation, growth, physiology and disease incidence. The main focus of this book is to review environment factors influencing the physiological changes and quality of food crops and plant. Actually, there is still a lack of recent information on the physiological changes and quality control strategies of various crop. The contents of the book are as follows: Influence of orchard management on growth and production of fruits; Abscisic acid content of grape during storage; Influence of environmental conditions at sowing on quality on broad-bean seed production; Influence of calcium and glycinebetaine on yield and storage of pome fruit; Viscosity behaviour of some enzymatically extracted tropical fruit juices; Sustainable production and plant growth: Interaction between crop yield and quality of winter wheat; Apple flower and fruit thinning; Effects of chemical thinners on apple; Evaluation of flowering crab-apples as pollinizers of commercial apple cultivars; Responses of crop plants to low, non-freezing temperatures; Pollination- food crops and bees. The book can be useful for scientists, researchers, students or experts dealing with various fields such as agriculture, horticulture, plant physiology, plant pathology, plant nutrition, agriculture, food technology, food science and biotechnology. For more information kindly visit the website www.world-food.net or take contact with the Ramdane Dris, World Food Ltd. Meri-Rastilantie 3 C, Fin-00980 Helsinki Finland. Tel/Fax: 00 358 9 75 92 775, Email: Info@world-food.net or news2100@yahoo.com. ISBN:1-57808-257-9; Year: 2002

Plant Nutrition - Growth and Diagnosis *Current Status and Future Prospects*

Editor

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The main focus of this book is also to deliver knowledge-based management tools. The use of recent methods or advanced techniques should make the information more meaningful to scientists and other readers and allow them to apply techniques to a wider range of crops. The manuscripts of this book interactions between growth, mineral nutrition and quality performance for a wide variety of crops. There are 43 chapters that cover the following topics: Influence of mineral nutrition on yield and quality of apples; Uptake of N, P, K and Ca by onion plants (*Allium cepa* L.); Influence of crop residue compost and nitrogenous fertilizer on growth, nutrient uptake and fruit yield of tomato; Sweet cherry fruit cracking as a result of different modes of calcium application; Evaluation of nutritional status of different strawberry varieties; Effect of mineral composition on quality changes in lettuce; Influence of mineral composition on storability of cucumber; Mineral composition and its impact on quality of onions (*Allium cepa* L.); Effect of fertilization on yield and postharvest quality of vegetables; Impact of nitrogen and calcium availability on apple quality; Effect of fruit nutrient content and storage conditions on quality and storability of apple; Impact of nitrogen nutrition on yield and quality of bean; Cytokinins and potato productivity; Response of 'Ewaise' mango trees to application of some slow-release nitrogenous fertilizers; Crop management and sustainable production; Influence of Lactofol on quality of pepper seed after storage; Relationship between nutrient content of soil, leaves and trunk circumference of apricot grown on sandy soils; Evaluation of chemical quality in fruit during maturation of soursop (*Annona muricata* L.); Red beet as bioindicator of urban soil pollution by heavy metals; Fertilization of apple trees on Shandong province of China; Nitrate levels in vegetables grown in Lithuania and factors influencing their accumulation; Effect of nitrogenous fertilizers on yield and chemical composition of thyme; Influence of nitrogenous fertilizers on onion yield, quality and storability; Ecological and agronomical aspects of associative nitrogen fixation in vegetable growing; Apricot nutritional imbalances as determined by foliar diagnosis and Dris norms; Influence of selenium in nature and human diet; Mineral nutrition of fruits; Interactions of orchard factors and phosphorus nutrition on quality of pome fruits; Effect of copper nutrition in commercial apple orchards; Role of iron nutrition in commercial apple orchards; Interaction of nutrition and environment on manganese status in apple orchards; Influence of potassium nutrition in commercial apple orchards; Magnesium nutrition in apple orchards; Studies on the influence of spraying some nutrients and ascorbic acid on inflorescence malformation and fruiting of 'Taimour' mangos; Attempt at producing Egyptian lime fruits year round by fruit thinning using NAA; Effect of phenyl urea cytokinin on yield, berry development, maturity and fruit quality of Flame vines; Trace elements and heavy

metal contents of fruits and vegetables in the environs of Gediz river; Nitrogen metabolism in roots and leaves of green bean plants (*Phaseolus vulgaris* L. cv. Strike) under nitrogen deficiency; Irrigation capacity and prospects for developing crop production in Algeria; Mineral composition of carrot (*Daucus carota* L.); Role of farmyard manure in integrated nutrient management in Indian soils for sustainable crop production; Influence of zinc nutrition in apple orchards; Influence of calcium on calcium deficiency related disorders in vegetables. For more information kindly visit the website www.world-food.net or take contact with the Ramdane Dris, World Food Ltd, Meri Rastilantie 3 C, Fin 00980 Helsinki Finland. Tel/Fax: 00 358 9 75 92 775, Email: Info@world-food.net or news2100@yahoo.com. Publisher: ISBN :1-57808-230-7; 2002.

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Vol.1: Preharvest Practice

Edited by

Ramdane Dris PhD. World Food Ltd., Helsinki, Finland (www.isfae.org)

S. Mohan Jain PhD. FAO/IAEA Joint Division, International Atomic Energy Agency, Vienna, Austria

Worldwide climatic changes have been raising concerns about potential changes to crop yields and production systems. Such concerns include the ability to accommodate these uncertain effects in order to ensure an adequate food supply for an ever increasing human population. To increase food security and alleviate poverty there is a need to introduce improved crop-production technologies to farmers or growers and by promoting appropriate policies that help them to adopt new technologies. Responsible agriculture must be viable yet sustainable - economically, environmentally and socially. This book focuses on the preharvest practices on the production and quality of food crops. Nine chapters are included in this book, which are: Effect of Preharvest Factors on the Quality of Vegetables Produced in the Tropics - Vegetables: Growing Environment and the Quality of Produce; Effects of Agronomic Practices and Processing Conditions on Tomato Ingredients; Modelling Fruit Quality: Ecophysiological, Agronomical and Ecological Perspectives; Spray Technology in Perennial Tree Crops; Chestnut, an Ancient Crop With Future; Improvement of Grain Legume Production in Semi-Arid Kenya Through Biological Nitrogen Fixation: The Experience With Tepary Bean (*Phaseolus Acutifolius* A. Gray Var. *Latifolius*); Impact of Ozone on Crops; Saffron Quality: Effect of Agricultural Practices, Processing and Storage; Fruit and Vegetables Harvesting Systems. It will stimulate readers thinking on key constraints in agriculture and horticulture. Readers will get acquainted with a wide range of information, technologies and methodologies. This book will be especially useful to researchers engaged in post harvest research. Also, it will be valuable for the graduate and post-graduate students majoring in food sciences and researchers. Hardbound ISBN: 1-4020-1698-0.

Vol. 2: Plant Mineral Nutrition and Pesticide Management

Edited by

Ramdane Dris PhD. World Food Ltd., Helsinki, Finland (www.isfae.org)

S. Mohan Jain PhD. FAO/IAEA Joint Division, International Atomic Energy Agency, Vienna, Austria

Nutrients are essential for plant growth, development and completion of their life cycle. Mineral fertilizers are keys to the world food supplies. However, there is a growing concern about the safety and quality of food due to over fertilization. Their excessive use is a cause of serious concern on food quality and human health. This book covers various aspects on mineral nutrition, fertilizers and pesticide management to improve agricultural production, yield and to amelioration of soil fertility. It contains nine chapters on Environmental and Biological Monitoring of Exposure to Pesticides in occupationally Exposed Subjects; Crop Quality Under Adverse Conditions: Importance of Determining the Nutritional Status; Phosphorus Management in French Bean (*Phaseolus Vulgaris* L.); Nutrition and Calcium Fertilization of Apple Tree; Diagnosis, Prediction and Control of Boron Deficiency in Olive Trees; Boron-Calcium Relationship in Biological Nitrogen Fixation Under Physiological and Salt-Stressing Conditions; Lime-Induced Iron Chlorosis in Fruit Trees; Si in Horticultural Industry; Biological Monitoring of Exposure to pesticides in the General Population (Non-Occupationally Exposed to Pesticides). This book will be especially useful to researchers, the graduate and post-graduate students majoring in food sciences and researchers. Kluwer Publisher; Hardbound ISBN: 1-4020-1699-9.

Vol. 3: Quality Handling and Evaluation

Edited by

Ramdane Dris PhD. World Food Ltd., Helsinki, Finland (www.isfae.org)
S. Mohan Jain PhD. FAO/IAEA Joint Division, International Atomic Energy Agency, Vienna, Austria

An effective food quality assurance system is essential throughout during harvest and retail display to provide a consistently good quality supply of fresh food crops to the consumers and to protect the reputation of a given marketing label. This book covers various aspects of quality handling and assessment, including handling parameters, quality evaluation, CA and MAP storage conditions in a broad sense. It emphasises on developing better methods of monitoring quality and safety attributes of fresh produce as part of a quality assurance system and quality assessment and maintenance. To meet the changing demands for quality, availability, cost, appearance and service the actors in the supply chain need to cooperate. We have included eighteen chapters such as Enzymes and Quality Factors of Fruits and Vegetables; Volatile Flavours in Strawberries: A Description of The Components, and How to Analyse Them; Methods to Evaluate the Antioxidant Activity; Essential Oil Drugs - Terpene Composition of Aromatic Herbs; Fruit and Vegetables Harvesting Systems; Integral Handling of Banana; Economics and Organisation of Horticultural Postharvest Production; Handling Machinery and Damage Inflicted to the Product; Mechanical Damage During Fruit Post-Harvest Handling; Technical and Physiological Implications; Harvest and Postharvest Conditions for Apples and Pears; Rapid Quality Evaluation Techniques of Horticultural Crops; Table Grape Postharvest Management and Safety Issues ; Fruit Postharvest Technology: Instrumental Measurement of Ripeness and Quality; Developmental Changes During Strawberry Fruit Ripening and Physico-Chemical Changes During Postharvest Storage; Processing of horticultural Crops in the Tropics; Quality Dynamics and Quality Assurance of Fresh Fruits and Vegetables in Pre- and Postharvest; Modification of Fruit Ripening by Genetic Transformation; Quality of Equilibrium Modified Atmosphere Packaged (EMAP) Fresh-Cut Vegetables. This book will be especially useful to researchers engaged in post harvest research, the graduate and post-graduate students majoring in food sciences and researchers. Hardbound ISBN: 1-4020-1700-6.

Vol. 4: Postharvest Treatment and Technology

Edited by

Ramdane Dris PhD. World Food Ltd., Helsinki, Finland (www.isfae.org)
S. Mohan Jain PhD. FAO/IAEA Joint Division, International Atomic Energy Agency, Vienna, Austria

Fresh fruits and vegetables are susceptible to a number of postharvest diseases and disorders. Postharvest operations are predominately aimed at maintaining the harvest quality. The challenge facing industries is to produce food of good quality with few chemical inputs as public concern increases over food safety, environmental issues and chemical resistance. This book has eleven chapters on: Application of Sensitive Trace Gas Detectors in Post-Harvest Research; Radio Frequency Post-Harvest Quarantine and Phytosanitary Treatments to Control Insect Pest in Fruits and Nuts; Calcium, Polyamine and Gibberellin Treatments to Improve Postharvest Fruit Quality; Ionization of Fruits and Vegetables for Fresh Consumption - Effect on Detoxication Enzymatic Systems and the Lipid Fraction; Treatments and Techniques to Minimise The Postharvest Losses of Perishable Food Crops; Strategies for the Regulation of Postharvest Fruit Softening by Changing Cell Wall Enzyme Activity; Postharvest Treatment of Fruits; Postharvest Treatments of Satsuma Mandarin (Citrus Unshiu Marc.) for the Improvement of Storage Life and Quality; Sprouting Radioinhibition: A Method to Extend the Storage of Edible Garlic Bulbs; Postharvest Processing of Fruits and Vegetables by Ionizing Radiation; Desinfestation of Fresh Horticultural Commodities by Using Hot Forced Air With Controlled Atmospheres.

. This book will be especially useful to researchers engaged in post harvest research, the graduate and post-graduate students majoring in food sciences and researchers. Kluwer Publisher; Hardbound ISBN: 1-4020-1701-4.

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