

For Current journal content see individual journal page at <http://www.globalsciencebooks.info/Journals/GSBJournals.html>

Updated 15th February, 2010 (ordered alphabetically, unless in press)

✿ **Bioremediation, Biodiversity and Bioavailability**

SPECIAL ISSUE: Tree and Forest Biodiversity (Guest Editors: Madhugiri Nageswara-Rao and Jaya R. Soneji, University of Florida, IFAS, Citrus Research & Education Center, USA) ~ 2010

Baharul Choudhury (Canada/India), M. Latif Khan (India) Conservation and Management of Endangered Plant Species: A Case Study from Northeast India

H. S. Ginwal, Priti Chauhan, Shalini Singh Maurya, Vikas S. Jadon (India) Genetic Variability in *Pinus roxburghii* Sarg. Revealed by RAPD Markers

Aranzazu Gómez-Garay (Spain), Silvana Masselli (Guatemala), M^a Angeles Bueno (Spain) Distribution of the Genetic Diversity of *Pinus ayacahuite* (Ehrenberg) at the Communal Forest of Totonicapán, Guatemala

Rajanikanth Govindarajulu, Madhugiri Nageswara-Rao (USA/India), Bahusaheb Tambat, Ramanan Uma Shaanker, Kotiganahalli N. Ganeshiah, Chepudira G. Kushalappa (India) Are Small Forest Fragments More Heterogeneous among Themselves than Large Fragments?

Vladislav N. Kalaev, Svetlana S. Karpova, Valery G. Artyukhov (Russia) Cytogenetic Characteristics of Weeping Birch (*Betula pendula* Roth) Seed Progeny in Different Ecological Conditions

Maria Emila Malvolti, Paola Pollegioni, Alcide Bertani, Sergio Mapelli, Francesco Cannata (Italy) *Juglans regia* Provenance Research by Molecular, Morphological and Biochemical Markers: A Case Study in Italy

Saha Roy Olivia, Bantawa Pranay, Ghosh Swapan Kumar, Tripathi Shasi Bhusan, Ghosh Partha Deb, Mondal Tapan Kumar (India) Assessment of Genetic Diversity in Banana (*Musa* spp.) of North-Eastern India by RAPD

Madhugiri Nageswara-Rao (USA/India), Gudasalamani Ravikanth, Kotiganahalli N. Ganeshiah, Ramanan Uma Shaanker (India) Role of Protected Area in Conserving the Population and Genetic Structure of Economically Important Bamboo Species

Sanjay Singh, Rameshwar Das, Ravindra Krishnamurthy (India) Teak in Mixed Plantations: An Appraisal of Productivity, Compatibility and Ecological Sustainability

Konstantinos A. Spanos (Greece), Alan Feest (UK), Panos V. Petrakis, Evagelia Daskalaku (Greece) Salient Points on the Assessment and Monitoring of Forest Biodiversity

M. D. Subash Chandran, G. R. Rao, K. V. Gururaja, T. V. Ramachandra (India) Ecology of the Swampy Relic Forests of Kathalekan from Central Western Ghats, India

Amalendu Tikader, Kunjupillai Vijayan (India) Assessment of Biodiversity and Strategies for Conservation of Genetic Resources in Mulberry (*Morus* spp.)

Regular papers

Dariush Minai-Tehrani, Saeed Minoui, Asma Ghodsi (Iran) Biotreatment of Aliphatic and Aromatic Fractions of Crude Oil-contaminated Water by Oil-degrading Bacterial Consortium

Gopalakrishnan Suresh, Nagaiya Ravichandran, Balasubramanian Ramesh, Arumugam Suresh, Ganesan Vijaiyan Siva (India) Isolation and Characterization of Chromium-Tolerant Bacteria from Chromium-Containing Waste Water

Adewuyi Gregory Olufemi, Etchie Ogbemi Tunde, Ademoyegun Olufemi Temitope (Nigeria) Determination of Total Petroleum Hydrocarbons and Heavy Metals in Surface Water and Sediment of Ubeji River, Warri, Nigeria

G. Jasmin Bilba Rani, S. Viveka (India) Microbiota Diversity, Screening and Molecular Characterization of *Shigella* sp. from Estuarine Fishes

Kanivebagilu S. Vinayaka, Yelugere L. Krishnamurthy (India) Ecology and Distribution of Lichens in Bhadra Wildlife Sanctuary, Central Western Ghats, Karnataka, India

🌱 **Dynamic Biochemistry, Process Biotechnology and Molecular Biology**

SPECIAL ISSUE: Sustainable Aquaculture (Part II). Guest Editor: Riccardo Russo (USA) ~ December, 2010

Thaís Billalba Carvalho, Eliane Gonçalves-de-Freitas (Brazil) Social Stability Related to Sex Group Composition in the Cichlid Nile Tilapia

Emmanuel M. Vera Cruz (USA/The Philippines), Christopher L. Brown (USA) Dynamics of Increase in Insulin-like Growth Factor-I mRNA Expression in Nile Tilapia, *Oreochromis niloticus*, in Response to Elevated Temperature

Maria Gavrilescu (Romania) Environmental Biotechnology: Achievements, Opportunities and Challenges

Buddolla Viswanath, Taurai Mutanda, Sarah White, Faizal Bux (South Africa) The Microalgae – A Future Source of Biodiesel

Kianoosh Keyhanian (Iran), G. Ali Mansoori (USA), Mehdi Rahimpour (Iran/Spain) Prospects for Cancer Nanotechnology Treatment by Azurin

Ali Shakeri-Zadeh, G. Ali Mansoori (USA), A. Reza Hashemian, Hossein Eshghi, Ameneh Sazgarnia, A. Reza Montazerabadi (Iran) Cancerous Cells Targeting and Destruction Using Folate Conjugated Gold Nanoparticles

Kátia Nardelli Greco, Marta Cristina Souza, Laura Araujo Tome, Rita De Cássia Leone Figueiredo-Ribeiro, Rosemeire Aparecida Bom Pessoni (Brazil) Inulin of *Vernonia herbacea* from the Brazilian Cerrado Changes Colon Morphology and Lipid Metabolism in Swiss Mice

Irene Axarli, Nikolaos E. Labrou (Greece) Directed Evolution of Cytochrome P450 CYP102A2 from *Bacillus subtilis*

Yaswaree Mihilall, Ackmez Mudhoo, Romeela Mohee (Mauritius) Preliminary Study on Compost Production as Substrate for *Pleurotus sajor-caju* (Fr.) Singer Mushroom Cultivation in Mauritius

🌱 **Dynamic Soil, Dynamic Plant**

SPECIAL ISSUE: Vermitechnology II (Guest Editor: Prof. Natchimuthu Karmegam, Department of Biotechnology, V.M.K.V. Engineering College, Vinayaka Missions University, India) December, 2010

Prakash Mallappa Munnoli, Saroj Bhosle (India) Dynamics of the Soil-Earthworm-Plant Relationship: A Review

Mejda Daami-Remadi, Hayfa Jabnoun-Khiareddine, Fakhher Ayed, Mohamed El Mahjoub (Tunisia) Comparative Aggressiveness of *Verticillium dahliae*, *V. albo-atrum* and *V. tricorpus* on Potato as Measured by their Effects on Wilt Severity, Plant Growth and Subsequent Yield Loss

🌱 **Floriculture and Ornamental Biotechnology**

Wolf-Ekkehard Lönnig (F. R. Germany) Mutagenesis in *Physalis pubescens* L. ssp. *floridana*: Some Further Research on Dollo's Law and the Law of Recurrent Variation

Sasan Aliniaiefard, Seid Jalal Tabatabaei (Iran) Use of Chlorophyll Meter for Nitrogen Management and Recommendation of Optimum Nitrogen Concentration in Soilless Culture of Lily

🌿 Food

Fatma B. A. Mohy El-Din, Zahra S. Ahmed, Ahmed R. Abdel Latief, Ahmed T. El-Akel, Salah H. Abou-Raya (Egypt) Effect of Hydrocolloid and Surfactant Agents on the Chemical and Rheological Characteristics of Egyptian Balady Bread Dough

Esther Gyedu-Akoto, Ibok Oduro, William O. Ellis, Frank M. Amoah, James H. Oldham (Ghana) Utilization of Cashew Gum in the Production of Pineapple Jam and Cashew Apple Juice Drink

Silifat Ajoke Sanni, Clara R. B. Oguntona, E. B. Oguntona, Busie Maziya-Dixon (Nigeria) Chemical Composition, Pasting and Sensory Properties of Iron-Fortified Cassava *Gari*

Kevin Yi-Lwern Yap, Jian Min Yeh (Singapore) Differentiating *Panax ginseng* and *Panax quinquefolius* through SDS-PAGE Analysis

🌿 Fresh Produce

María Victoria Agüero, Alejandra Ponce, Alicia Bevilacqua, Sara Inés Roura (Argentina) Postharvest Quality Losses of Butter Lettuce as Affected by Leaf Age and Temperature

Victor Rodov, Beatrice Nafussi, Shimshon Ben-Yehoshua (Israel) Essential Oil Components as Potential Means to Control *Penicillium digitatum* Pers. (Sacc.) and Other Postharvest Pathogens of Citrus Fruit

Alfonso Vargas, Johnny A. Lopez (Costa Rica) Effect of Dose Rate, Application Method and Commercial Formulations of GA₃ on Banana (*Musa AAA*) Fruit Green Life

Cong Zhao, Leyuan Ma, Hui Hao, Xiyan Yu (China) Volatile Precursors and Aroma-Related Enzyme Activities during Fruit Maturation of Muskmelon

🌿 Fruit, Vegetable and Cereal Science and Biotechnology

SPECIAL ISSUE: Methods in Temperate Fruit Breeding. Guest Editors: Hendryk Flachowsky, Viola Hanke (Julius Kühn-Institut (JKI), Germany) ~ December, 2010

Jules Janick (USA) History of Fruit Breeding

Clovis N. B. Koffi, Hortense A. Diallo, Justin Y. Kouadio (Côte d'Ivoire), Paula Kelly, Alan G. Buddie, Lukasz M. Tymo (United Kingdom) Occurrence of *Pythium aphanidermatum* Root and Collar Rot of Papaya (*Carica papaya* L.) in Côte d'Ivoire

🌿 Functional Ecosystems and Communities

SPECIAL ISSUE: Forensic entomology. Guest Editors: Patricia Thyssen, Thiago de Carvalho Moretti (University of São Paulo State, Brazil) ~ December, 2010

R. Henry L. Disney (UK) Forensic Science is Not a Game

Kleber M. Mise, Rodrigo C. Corrêa, Lúcia M. Almeida (Brazil) Effects of Freezing and Thawing over the Coleopterofauna Found on Carcasses

🌿 Functional Plant Science and Biotechnology

SPECIAL ISSUE: Saffron. Guest Editor: Amjad M. Husaini (Division of Plant Breeding & Genetics, Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir, India) ~ December, 2010

Lourdes Gómez-Gómez, Ángela Rubio-Moraga, Oussama Ahrazem (Spain) Understanding Carotenoid Metabolism in Saffron Stigmas: Unravelling Aroma and Colour Formation

Ali Neamati, Mohammad Hossein Boskabady (Iran) Effect of *Crocus sativus* (Saffron) on Muscarinic Receptors of Guinea

✿ Genes, Genomes and Genomics

SPECIAL ISSUE: Tree and Forest Genetics (Guest Editors: Madhugiri Nageswara-Rao and Jaya R. Soneji, University of Florida, IFAS, Citrus Research & Education Center, USA), 2010

Leela Sahijram (India), Jaya R. Soneji, Madhugiri Nageswara Rao (USA) Molecular and Genetic Characterization of Somaclonal Variation in Micropropagated Bananas (*Musa* spp.)

Priyamvada Singh, Sanjay Singh, Satya Prakash Mishra, Sanjeev Kumar Bhatia (India) Molecular Characterization of Genetic Diversity in *Jatropha curcas* L.

Rajinder Kaur, Priyanka Sood, Yogesh Vikal, Krishan Kumar, Bhawna Saxena, Dile Ram Sharma (India) Genetic Characterization of Walnut (*Juglans regia* L.) by Random Amplified Polymorphic DNA

Aykkal Riju, Vadivel Arunachalam (India) Electronic Sorting of SNP/Indel Sites in Expressed Sequence Tag Libraries of Cocoa (*Theobroma cacao* L.)

Aykkal Riju, Vadivel Arunachalam (India) Mining for Simple Sequence Repeats from Expressed Sequence Tag Libraries of Banana

Lining Tian, Antonet Svircev, Hélène Sanfaçon, Daniel Brown, Karin Schneider, Susan Sibbald, Tabita Malutan (Canada) Development of Plum Pox Virus Resistance in Plum via Expression of an Intron-Spliced Hairpin HC-Pro Transgene

✿ International Journal of Biomedical and Pharmaceutical Sciences

Manoranjan R. Adak (Nepal), Jaime A. Teixeira da Silva (Japan) Garlic [*Allium sativum*] and its Beneficial Effect on Cardiovascular Disease: A Review

Ibironke Adetolu Ajayi, Sarah O. Nwozo, Adewale Adewuyi (Nigeria) Antimicrobial Activity and Phytochemical Screening of Five Selected Seeds from Nigeria

Gunjan Biswas, Soumya Chatterjee, Sagartirtha Sarkar, Krishnendu Acharya (India) Evaluation of Antioxidant and Nitric Oxide Synthase Activation Properties of *Astraeus hygrometricus* (Pers.) Morg.

Dieudonne Kuate, Blanche Cunegonde Omgba Etoundi, Yves Bertrand Soukontoua, Judith Laure Ngondi, Julius Enyong Oben (Cameroon) Comparative Study of the Antioxidant, Free Radical Scavenging Activity and Human LDL Oxidation Inhibition of Three Extracts From Seeds of a Cameroonian Spice, *Xylopia parviflora* (A. Rich.) Benth. (Annonaceae)

Kartick Chandra Pramanik, Shayanki Lahiri, Debanjan Sen, Sumana Mallick, Joseph R. Vedasiromoni, Tapan Kumar Chatterjee (India) Antiproliferative Effect of Liposome Encapsulated PITC-2 on Cancer Cell Line (U937, K562 and HL60) *in Vitro*

Ashraf Taye (Egypt) Aldosterone Activates NADPH Oxidase and Dysregulates the Endothelial Nitric Oxide Synthase in Human Endothelial Cells

Kambalagere Yogendra, Sharma Prabhakar Arpana, Puttaiah, Reddy Aall Hanumanthareddy Manjunatha (India) Occurrence of Allergenic Fungi in the Ambient Air of Bhadravathi Town, Shimoga District, Karnataka State, India

✿ International Journal of Plant Breeding

Mejda Daami-Remadi, Hayfa Jabnoun-Khiareddine, Fakher Ayed, Mohamed El Mahjoub (Tunisia) Comparative Susceptibility of Potato Cultivars to Verticillium Wilt Assessed via Wilt Severity and Subsequent Yield Reduction

Hayfa Jabnoun-Khiareddine, Mejda Daami-Remadi (Tunisia), Harold W. Platt (Canada), Fakher Ayed, Mohamed El Mahjoub (Tunisia) Variation in Aggressiveness of Tunisian *Verticillium dahliae* Races 1 and 2 Isolates and Response of Differential Tomato Cultivars to Verticillium Wilt

Peter Ejimofor Ogbonna, Ignatus Ugwu-dike Obi (Nigeria) Studies of Gene Effects on Yield and Yield Components in “Egusi” Melon (*Colocynthis citrullus* L.)

🌱 International Journal of Plant Developmental Biology

SPECIAL ISSUE: Plant Development and Evolution. Guest Editor: Danilo D. Fernando (USA) (State University of New York) ~ 2010

Barbara A. Ambrose (USA) MADS-box Genes in Plant Evolution and Development

Joshua A. Banta, Massimo Pigliucci (USA) Genetic and Environmental Variation Affect the Ontogeny of Reproductive Traits in *Arabidopsis thaliana*

Claudia Erbar (Germany) Floral Organ Determination and Ontogenetical Patterns during Angiosperm Evolution

Danilo D. Fernando, Christina R. Quinn, Eric D. Brenner (USA), John N. Owens (Thailand) Male Gametophyte Development and Evolution in Extant Gymnosperms

Oriane Hidalgo, Stefan Gleissberg (USA) Evolution of Reproductive Morphology in the Papaveraceae s.l. (Papaveraceae and Fumariaceae, Ranunculales)

Florian Jabbour, H el ene L. Citerne (France) Modeling Flowers and Inflorescences

Catherine Anne Kidner, Saima Umbreen (United Kingdom) Why is Leaf Shape so Variable?

Alma Pi eyro-Nelson (Mexico), Eduardo Flores-Sandoval (Australia), Adriana Garay-Arroyo, Berenice Garc a-Ponce, Elena R.  lvarez-Buylla (Mexico) Development and Evolution of the Unique Floral Organ Arrangement of *Lacandonia schismatica*

Jill C. Preston (USA) Evolutionary Genetics of Core Eudicot Inflorescence and Flower Development

Cheng-Jiang Ruan (China) Review and Advances in Style Curvature for the Malvaceae

Chris Ojiewo (Japan/Tanzania), Yasutaka Kubo, Kenji Murakami, Masaharu Masuda (Japan) Comparative Analysis of Differential Gene Expression in Wild-type and ¹²C⁵⁺ Ion Beam-induced Abnormal Flower Mutant of *Solanum villosum* by Tomato cDNA Macroarray

🌱 Medicinal and Aromatic Plant Science and Biotechnology

SPECIAL ISSUE: Medicinal Plants of the Himalayas: Advances and Insights. Guest Editor: Amjad M. Husaini (India) (Division of Plant Breeding & Genetics, Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir), 2010

Pranay Bantawa, Swapan Kumar Ghosh, Pamita Bhandari, Bikram Singh, Partha Deb Ghosh, Paramvir Singh Ahuja, Tapan Kumar Mondal (India) Micropropagation of an Elite Line of *Picrorhiza scrophulariiflora*, Pennell, an Endangered High Valued Medicinal Plant of the Indo-China Himalayan Region

Mukesh Joshi, Munesh Kumar (India), Rainer W. Bussmann (USA) Ethnomedicinal Uses of Plant Resources of the Haigad Watershed in Kumaun Himalaya, India

Rafia Rasool, Bashir Ahmad Ganai, Azra Nahaid Kamili, Seema Akbar, Akbar Masood (India) Antioxidant and Antibacterial Activities of Extracts from Wild and *in Vitro*-Raised Cultures of *Prunella vulgaris* L.

Venkat Kishore Ryakala (India), Shahin Sharif Ali (Ireland/India), Hallihosur Sharanabasava, Naushaba Hasin, Pragya Sharma, Utpal Bora (India) Ethnobotany of Plants Used to Cure Diabetes by the People of North East India

P. E. Rajasekharan, S. Ganeshan, Sunitha Bhaskaran (India) *In Vitro* Regeneration and Conservation of Three *Coleus*

Species

Mahmoud Saker, Souad El Gengaihi, Ayman Kamel, Mai Farid (Egypt) Influence of Differentiation State, Salt Stress and Methyl Jasmonate on *in Vitro* Production of Cucurbitacins from Tissue Cultures of *Ecballium elaterium* and *Cucumis prophetarum* Endemic to Egypt

🌱 **Middle Eastern and Russian Journal of Plant Science and Biotechnology**

🌱 **Pest Technology**

Vamsi Pallam Reddy, Madhurababu Kunta, Shad. D. Nelson, John V. da Graça, Mani Skaria (USA) Gene Expression Studies in Sour Orange and C-22 Rootstocks Challenged with the Fungus, *Phytophthora nicotianae* and the Nematode, *Tylenchulus semipenetrans* **Ipublish™**

Hayfa Jabnoun-Khiareddine, Mejda Daami-Remadi, Fakher Ayed, Mohamed El Mahjoub (Tunisia) Evaluation of Several Indigenous Microorganisms and Some Bio-Fungicides for Biocontrol of Potato Verticillium Wilt

Madhurababu Kunta (USA), Hongqin Miao (China), Toshiro Shigaki, Jose Luis Perez, Mani Skaria (USA) *Ganoderma* Infecting Citrus in Texas is a Unique Taxon within the *G. lucidum* Complex: Evidence from the ITS Region

🌱 **Plant Stress**

Sandeep Kumar, Geetika Sirhindi, Renu Bhardwaj, Manish Kumar, Priya Arora (India) Role of 24-Epibrassinolide in Amelioration of High Temperature Stress through Antioxidant Defense System in *Brassica juncea* L.

SPECIAL ISSUES: PLANT NUTRITION AND ABIOTIC STRESS TOLERANCE (Guest Editor: Naser A. Anjum (Aligarh Muslim University, India)), 2010

Cesar Arrese-Igor (Spain/USA), Esther M. González (Spain), Daniel Marino (France), Rubén Ladrera, Estibaliz Larrainzar, Erena Gil-Quintana (Spain) Physiological Responses of Legume Nodules to Drought

Helen Belefant-Miller (USA) Non-nutritive Mineral Effects on Rice

Elizamar Ciriaco da Silva, Rejane Jurema Mansur Custódio Nogueira, Marcelle Almeida da Silva, Manoel Bandeira de Albuquerque (Brazil) Drought Stress and Plant Nutrition

Mudawi Elobeid (Germany/Sudan), Andrea Polle (Germany) Response of Grey Poplar (*Populus x canescens*) to Copper Stress

Masoomah Etehadnia, Jeff Schoenau, Doug Waterer, Tanino Karen (Canada) The Effect of CaCl₂ and NaCl Salt Acclimation in Stress Tolerance and its Potential Role in ABA and Scion/Rootstock-Mediated Salt Stress Responses

B. K. Garg, Uday Burman (India) Physiological Basis of Yield Improvement of Arid Zone Crops through Nutrient Management

Jie He (Singapore) Mineral Nutrition of Aeroponically Grown Subtropical and Temperate Crops in the Tropics with Manipulation of Root-Zone Temperature at Different Growth Irradiances

María Begoña Herrera-Rodríguez, Agustín González-Fontes, Jesús Rexach, Juan J. Camacho-Cristóbal, José M. Maldonado, María Teresa Navarro-Gochicoa (Spain) Role of Boron in Vascular Plants and Response Mechanisms to Boron Stresses

Noushina Iqbal, Nafees A. Khan (India) Variation in Growth, Photosynthesis Functions and Yield of Five Mustard (*Brassica juncea* L.) Cultivars under High Cadmium Stress

Renu Khanna-Chopra, Srivalli Singh (India) Approaches to Increase Water Use Efficiency in Horticultural and Grain Crops – An Overview

Afaq A. Mian, Prasad Senadheera, Frans JM Maathuis (UK) Improving Crop Salt Tolerance: Anion and Cation Transporters

as Genetic Engineering Targets

Ramzi Murshed, Franck Lacroix, Huguette Sallanon, Félicie Lopez-Lauri (France) Effect of Water Deficit and Salt Stress on Oxidative Parameters and Antioxidant Systems in Tomato (*Solanum lycopersicum* L.) Fruits

Girdhar K. Pandey, Akhilesh K. Yadav, Poonam Kanwar, Narendra Tuteja (India) Role of Calcium in Regulating Potassium-Sodium Homeostasis and Potassium as Nutrient Signal during Abiotic Stress Conditions

Nalini Pandey (India) Role of Micronutrients in Reproductive Physiology of Plants

Kanwar L. Sahrawat (India) Reducing Iron Toxicity in Lowland Rice with Tolerant Genotypes and Plant Nutrition

Farida M. Shakirova, Azamat M. Avalbaev, Marina V. Bezrukova, Guzel R. Kudoyarova (Russia) Role of Endogenous Hormonal System in the Realization of the Antistress Action of Plant Growth Regulators on Plants

Sarvajeet Singh, Nafees A. Khan, Naser A. Anjum, Narendra Tuteja (India) Amelioration of Cadmium Stress in Crop Plants by Nutrients Management: Morphological, Physiological and Biochemical Aspects

Raul Antonio Sperotto, Felipe Klein Ricachenevsky, Ricardo José Stein, Vinicius de Abreu Waldow, Janette Palma Fett (Brazil) Iron Stress in Plants: Dealing with Deprivation and Overload

Jai Prakash Srivastava, Pratap Singh, Vinay Pratap Singh, Ruchi Bansal (India) Effect of Waterlogging on Carbon Exchange Rate, Stomatal Conductance and Mineral Nutrient status in Maize and Pigeonpea

Shabina Syeed, Nafees A. Khan (India) Physiological Aspects of Salicylic Acid-Mediated Salinity Tolerance in Plants

Narendra Tuteja, Sarvajeet Singh, Prabodh Kumar Trivedi, Mehar Hasan Asif, Pravendra Nath (India) Plant Growth Regulators and their Role in Stress Tolerance

Yankun Zhao, Tao Wang, Wensheng Zhang, Xia Li (China) The Role of Auxin in Plastic Development of Plant Root System Architecture in Response to Abiotic Stimuli

Sabrina Zuchi, Maurizio Enea Picarella, Giampiero Soressi, Stefania Astolfi (Italy) Salt Stress: Effects on Nitrogen Metabolism in Tomato Plants Differing in Salt Tolerance

🌱 Seed Science and Biotechnology

Abdullah A. Jaradat, Jana L. Rinke (USA) Nutrient Homeostasis, C:N:S Ratios, Protein, and Oil Content in *Cuphea* Seed

Afsheen Aman, Abid Azhar, Shah Ali Ul Qader, M. Ajmal Khan (Pakistan) Screening of Halophytic Oil Seed Species as a Potential source of Protein and Oil Seed Crops

Shashi Bala, Bavita Asthir, Navtej Singh Bains (India) High Temperature Response Leads to Altered Membrane Permeability in Conjunction with Carbon Utilization in Wheat

🌱 Terrestrial and Aquatic Environmental Toxicology

SPECIAL ISSUE: Olive mill waste water in the Mediterranean area. Guest Editor Adele Musculo (in co-operation with Agriculture Faculty of "Mediterranea" University of UNIRC (Dipartimento GESAF, Facoltà di Agraria Università "Mediterranea" Reggio Calabria Feo di Vito)), 2010

Marianna Giuffrida (Italy) European and Italian Laws for the Agronomic Use of Olive-Oil Mill Wastewaters

Dimitrios Kalderis, Evan Diamadopoulos (Greece) Valorization of Solid Waste Residues from Olive Oil Mills: A Review

Georgia Ouzounidou, Georgios I. Zervakis, Fragiskos Gaitis (Greece) Raw and Microbiologically Detoxified Olive Mill Waste and their Impact on Plant Growth

Giuseppe Celano, Assunta Maria Palese, Mimmo Parente, Luca Rizzuti, Nicola Silvestri (Italy) Environmental Impact Evaluation of Olive Mill Wastewater Shedding on Cultivated Fields

Carla Amaral, Rosário Anjos, Célia Pais (Portugal) Bioremediation of Olive Mill Wastewaters with Fungi

Serafina Andiloro, Giovanni Aramini, Anna Maria Corea, Vincenzo Tamburino, Demetrio Antonio Zema, Santo Marcello Zimbone (Italy) Planning Agricultural Utilization of Olive Oil Mill Wastewater: A Framework Model and Implementation Example in a Mediterranean Area

Antonina Capra, Vincenzo Tamburino, Santo Marcello Zimbone (Italy) Irrigation Systems for Land Spreading of Olive Oil Mill Wastewater

Adele Muscolo, Maria Sidari, Carmelo Mallamaci, Emilio Attinà (Italy) Effects of Olive Mill Wastewater on Seed Germination and Seedling Growth

Gregorio Gullo, Valentino Branca, Serafino Cannavò, Antonio Dattola, Rocco Zappia (Italy) Irrigation Effects with Different Mixtures of Olive Mill Wastewater (OMW) and Clean Water on the Growth and Quality of Young Olive Plants cv. 'Ottobratica', in a Nursery

Carmelo Santonoceto, Umberto Anastasi (Italy) Agronomic Exploitation of Olive Oil Mill Wastewater: Effect on Growth and Yield of Field Crops and Impact on Soil Fertility

Maria Sidari, Carmelo Mallamaci, Emilio Attinà, Adele Muscolo (Italy) Response of Soil Properties and Microbial Communities to the Application of Olive Mill Wastewaters

Ben Sassi Abdelhadi, Mohamed Benlemlih, Saad Ibsouda Koraichi, Lahcen Ahansal, Abdellatif Boussaid (Morocco) Suitability of Yeasts for the Treatment of Olive Mill Wastewater

Serap Saglik Aslan (Turkey) Olive Oil Recovery Methods

Monika Das, Md. Kawser Ahmed, Md. Shahidul Islam, Md. Monirul Islam, Mosammat Salma Akter (Bangladesh) Heavy Metal in Industrial Effluents (Tannery and Textile) and Adjacent Rivers of Dhaka City, Bangladesh

Jude C. Igwe, Augustine A. Abia, Felix H. Okereke (Nigeria) Kinetic Studies on the Sorption of Ag^+ and Al^{3+} from Aqueous Solutions by Coconut Fibre

Kolawole Ajanaku, Abiola Taiwo (Nigeria) Heavy Metal Analysis of Industrial Discharges in Lagos, Nigeria

The African Journal of Plant Science and Biotechnology

Special Issue: Tunisian Plant Science and Biotechnology II (Guest Editor: Mejda Daami-Remadi, Centre Régional des Recherches en Horticulture et Agriculture Biologique, Chott-Mariem, Tunisia), December, 2010

Nadia Chaieb (Tunisia), Jaime A. Teixeira da Silva (Japan), Mohamed Bouslama (Tunisia) Diversity of Growth and Yield Parameters of Seven *Vicia faba* L. Genotypes

Sihem Ben Maachia, Noura Omri, Samir Chebil (Tunisia), Majida El Hassni, Ismail El Hadrami (Morocco), Mohamed Chérif (Tunisia) *Bacillus* Induces Phenolic Compounds and Enhances Resistance to *Uncinula necator* Infection in Grapevine Leaves

Ben Chaaban Samah, Brahim Chermiti (Tunisia) *Oligonychus afrasiaticus* (Acarina: Tetranychidae). Seasonal Abundance and Life History of the Old World Mite on Various Date Palm Cultivars in Segdoud Oasis, South Tunisia

Rafika Sta-Baba, Mohamed Hachicha, Mohsen Mansour, Hassan Nahdi, Mohamed Ben Kheder (Tunisia) Response of Onion to Salinity

Ahmed Namsi, Ali Zouba, Mohamed Ali Triki, Mohamed Okacha Ben Mahmoud, Mohamed Laïd Takrouni (Tunisia) Study on *Natrassia mangiferae*, the Causal Agent of Apricot Tree Decline Disease in the Oases of South Tunisia: Biology and *in Vitro*

Suzan A. Abdallah, Hassan M. Emara, Awatif I. El-Nahas (Egypt) Ultrastructural Responses of Faba Bean (*Vicia faba* L.) Plants Irrigated by Treated and Untreated Sewage Water

Wafaa M. Kamel, Monier M. Abd El-Ghani, Mona M. El-Bous (Egypt) Cleomaceae as a Distinct Family in the Flora of Egypt

Badru Mugerwa, John Bosco Lamoris Okullo (Uganda) Grafting Success of *Pinus caribaea* under Varying Shade Intensities at National Tree Seed Center, Namanve, Uganda

Samiha A. Ouda, Fouad A. Khalil, Gamal El Afandi, Mohamed M. Ewis (Egypt) Using CropSyst Model to Predict Barley Yield under Climate Change Conditions in Egypt: I. Model Calibration and Validation under Current Climate

Gamal El Afandi, Samiha A. Ouda, Fouad A. Khalil, Mohamed M. Ewis (Egypt) Using CropSyst Model to Predict Barley Yield under Climate Change Conditions in Egypt: II. Simulation of the Effect Rescheduling Irrigation on Barley Yield

Marian Dorcas Quain, Priscilla Adofo-Boateng, Beloved Mensah Dzomeku, Adelaide Agyeman, Ruth Fosu (Ghana) Multiple Shoot Generation Media for *Musa sapientum* L. (False Horn, Intermediate French Plantain and Hybrid Tetraploid French Plantain) Cultivars in Ghana

Luke N. Ukiwe, Ndubuisi J. Aneke (Nigeria) Hyperaccumulation: An Aspect of EDTA Chelate-Assisted Phytoextraction by Water Hyacinth

The Americas Journal of Plant Science and Biotechnology

Marcelo Guerra Santos, Alphonse Kelecom, Selma Ribeiro Paiva, Moemy Gomes Moraes, Leandro Rocha, Rafael Garrett (Brazil) Phytochemical Studies in Pteridophytes Growing in Brazil: A Review

Marina Sisterna, Lía Ronco, Claudio Voget, Mariana Marasas, Esteban Abbona, María Romero, Jorge Daniele, Silvina Artaza, Joaquín Otero, Claudia Sepúlveda, Germán Avila, Claudia Loviso, Eugenia Orosco, Margarita Bonicatto, Cecilia Condes, Irene Velarde (Argentina) American Grapevine Culture and Research in Berisso, Argentina

Khalil I. Al-Mughrabi (Canada) Post Harvest Treatment with Hydrogen Peroxide Suppresses Silver Scurf (*Helminthosporium solani*), Dry Rot (*Fusarium sambucinum*), and Soft Rot (*Erwinia carotovora* subsp. *carotovora*) of Stored Potatoes

Androniki C. Bibi, Derrick M. Oosterhuis, Evangelos D. Gonias, James McD. Stewart (USA) Comparison of Responses of a Ruderal *Gossypium hirsutum* L. with Commercial Cotton Genotypes to High Temperature Stress

Evangelos D. Gonias, Derrick M. Oosterhuis, Androniki C. Bibi (USA) Measurement of Internal Temperature of Cotton Bolls

SPECIAL ISSUES: Rusts. Guest Editors: Márcia Soares Chaves, José Antônio Martinelli (Embrapa - National Wheat Research Center, and UFRGS – Federal University of Rio Grande do Sul, Brazil), 2010/2011

Cheng-ming Tian (China), Peng Zhao (Japan), Ying-mei Liang, Zhi-min Cao (China) Research Progress on Poplar Leaf Rust in China

Francisco das Chagas Oliveira Freire (Brazil), Reinhard Berndt (Switzerland) An Updated List of Rust Species on Plants from Ceará State (Brazil)

SPECIAL ISSUES: Plant science and biotechnology in Argentina. Guest Editor: Adalberto Di Benedetto (Facultad de Agronomía, Universidad de Buenos Aires and Facultad de Ciencias Agrarias, Universidad de Mar del Plata, Argentina), 2010/2011

Paula Bey, Maria Binaghi, Alejandro Néstor Mentaberry, Alicia Mercedes Zelada (Argentina) Plant Viral Vectors as a Tool for Recombinant Vaccine Production

Elsa L. Camadro (Argentina) Characterization of the Natural Genetic Diversity of Argentinean Potato Species and Manipulations for its Effective Use in Breeding

Octavio P. Caviglia, Fernando H. Andrade (Argentina) Sustainable Intensification of Agriculture in the Argentinean Pampas: Capture and Use Efficiency of Environmental Resources

Adalberto Di Benedetto, Jorge Tognetti, Claudio R. Galmarini (Argentina) Biomass Production in Ornamental Foliage Plants: Crop Productivity and Mechanisms Associated to Exogenous Cytokinin Supply

SPECIAL ISSUES: Plant science and biotechnology in Canada. Guest Editor: Khalil Al-Mughrabi (Potato Development Centre, New Brunswick Department of Agriculture and Aquaculture, Canada), 2010/2011

Yousef Abu-Nada, Ajjamada C. Kushalappa, Shiv O. Prasher, Khalil I. Al-Mughrabi, Agnes Murphy (Canada) Metabolic Profiling to Phenotype Potato Genotypes Varying in Horizontal Resistance to Leaf Infection by *Phytophthora infestans*

The Asian and Australasian Journal of Plant Science and Biotechnology

SPECIAL ISSUE: Khazakistan plant science and biotechnology. Guest Editor: Yerlan Turuspekov (Institute of Plant Biology and Biotechnology, National Center of Biotechnology, Ministry of Education and Science, Republic of Kazakhstan), 2010

Saule Abugalieva, Yuriy Ledovskoy, Aigul Abugalieva (Kazakhstan), Steve Quarrie (UK/Serbia), Yerlan Turuspekov (Kazakhstan) Mapping of Quantitative Traits Loci for Grain Protein Content in Common Wheat

Yuriy Ledovskoy, Saule Abugalieva, Yerlan Turuspekov (Kazakhstan) Comparative Assessment of the Genetic Variation in Wild and Cultivated Barley Based on SSR Markers

Svetlana Kushnarenko, Eugene Salnikov, Marat Nurtazin, Zinat Mukhitdinova, Izbasar Rakhimbaev (Kazakhstan), Barbara M. Reed (USA) Characterization and Cryopreservation of *Malus sieversii* Seeds

Svetlana Kushnarenko, Irina Kovalchuk, Zinat Mukhitdinova, Elena Rakhimova (Kazakhstan), Barbara M. Reed (USA) Ultrastructure Study of Apple Meristem Cells during Cryopreservation

Mekhlis Suleimenov, Aldabergen Kiyas, Zheksenbai Kaskarbayev (Kazakhstan) Replacement of Summer Fallow with Oats and Food Legumes on Black Soils of Northern Kazakhstan

Gunnaiah Raghavendra, Gollarahalli Kenchappa Kumaraswamy, Boregowda Ramya, Hakkare Swamidatta Sandesh, Kalenahalli Narasimhamurthy Yogendra, Nanjappa Deepak, Paramanahally Hanumanthegowda Ramanjini Gowda (India) Direct Multiple Shoot Regeneration of *indica* Rice (*Oryza sativa*) Var. 'Rasi'

M. Naeem, M. Masroor A. Khan, Moinuddin, Minu Singh (India) Calcium Chloride Stimulates Crop Yield, Photosynthetic Efficiency, Enzyme Activities and Nutraceuticals of Coffee Senna (*Senna occidentalis* L.) under Calcium-Deficient Soil

Amalendu Tikader, Chandrakant Kamble (India) Seri-biodiversity with Reference to Host Plants in India

The European Journal of Plant Science and Biotechnology

SPECIAL ISSUE 2: Buckwheat. Guest Editor: Judit Dobranszki (Research Centre of University of Debrecen Centre of Agricultural Sciences and Engineering, Hungary) ~ December, 2010

Sun-Hee Woo, Abu Hena Mostafa Kamal (Korea), Suzuki Tatsuro (Japan), Clayton G. Campbell (Canada), Taiji Adachi (Japan), Young-Ho Yun, Keun-Yook Chung, Jong-Soon Choi (Korea) Buckwheat (*Fagopyrum esculentum* Moench.): Concepts, Prospects and Potential

Shiny Ch. Sangma, Nikhil K. Chungoo (India) Buckwheat Gene Pool: Potentialities and Drawbacks for Use in Crop Improvement Programmes

László Radics, Dóra Mikóházi (Hungary) Principles of Common Buckwheat Production

Małgorzata Wronkowska, Maria Soral-Śmietana, Urszula Krupa-Kozak (Poland) Buckwheat, as a Food Component of a

High Nutritional Value, Used in the Prophylaxis of Gastrointestinal Diseases

Marta S. Izydorczyk, Dagmara Head (Canada) Characterization and Potential Uses of Functional Buckwheat Fractions Obtained by Roller Milling of New Canadian Buckwheat Genotypes

Andreas Baumgertel, Andreas Loebers, Wolfgang Kreis (Germany) Buckwheat as a Source for the Herbal Drug *Fagopyri herba*: Rutin Content and Activity of Flavonoid-Degrading Enzymes during Plant Development

Jakab Loch, János Lazányi (Hungary) Soil Nutrient Content in Buckwheat Production

Carolín Öschlänger, Friedrich J. Zeller, Dieter Treutter (Germany) Rutin and Proanthocyanidin Contents in Buckwheat Grains: Combined Biosynthesis in Interspecific Hybrids between *Fagopyrum esculentum* Moench x *F. homotropicum* Ohnishi and their Progeny

Chuan-He Tang, Qin Gong, Xin Sun (China) Functional Properties of Buckwheat (*Fagopyrum esculentum* Moench) Seed Protein Isolate: Effects of Limited Enzymatic Hydrolysis with Trypsin

Olga Romanova, Vladimir Koshkin (Russia) Photoperiod Response of Landraces and Improved Varieties of Buckwheat from Russia and from the Main Buckwheat Cultivating Countries

Regular Papers

Maria Gonnella, Monia Charfeddine, Giulia Conversa, Pietro Santamaria (Italy) Purslane: A Review of its Potential for Health and Agricultural Aspects

Dimitris L. Bouranis, Christine K. Kitsaki, Styliani N. Chorianopoulou, Alexandros Papadimitriou, Vassiliki Chondroyianni (Greece) Does the Nutritional Status of Reproductive Shoots of Olive Tree (cv. 'Kalamon') Differ from that of Vegetative Shoots during Inflorescence Development?

🌱 Transgenic Plant Journal

SPECIAL ISSUE: TRANSGENIC PAPAYA (Guest Editor: Paula Tennant (Jamaica) (in co-operation with The University of the West Indies, Mona)), 2010

Maureen M. M. Fitch (USA) *Papaya Ringspot Virus* (PRSV) Coat Protein Gene Virus Resistance in Papaya: Update on Progress Worldwide

Marisela Hernández González, Jacquelynne Cervantes Torres, Jose Luis Cabrera Ponce, Luis Herrera Estrella, Gabriela Rosas Salgado, Maria Luisa Villarreal, Gladis Fragoso González, Edda Sciutto Conde (Mexico) Development of an Oral Anti-Cysticercosis Vaccine Delivered in Genetically Modified Embryogenic Callus of Papaya

Chi-Chu Lo, Huey-Jiunn Bau, Shu-Chuan Chen, Chien-Ju Lin, Yi-Chien Huang, Shyi-Dong Yeh (Republic of China) Persistence and Bioavailability of Transgenic Genes Released from Genetically Modified Papaya and the Influence on Soil Bacterial Communities in Taiwan

Rodolfo López-Gómez, Plinio Guzmán (Mexico) Toward the Control of Ethylene Production in Papaya Fruit: A Model for Tropical Fruits

Katherine Noorda-Nguyen, Heather McCafferty, Ayumi Aoki, Wayne Nishijima, Yun J. Zhu (USA) *Agrobacterium rhizogenes* Generates Transgenic Hairy Roots in *Carica papaya* L.: A New Approach for Studying and Improving Resistance to the Root-rot Pathogen *Phytophthora palmivora*

Laura Silva-Rosales, Diego González-de-León, Michelle Chauvet (Mexico) Why there is no Transgenic Papaya in Mexico

Paula F. Tennant, Simone E. Pinnock, Melissa Powell, Andrew O. Wheatley, Donna A. Minott (Jamaica) An Overview of the Safety Assessment of Transgenic Papaya for the Management of *Papaya ringspot virus* in Jamaica

🌱 Tree and Forestry Science and Biotechnology

SPECIAL ISSUES: BANANAS, PLANTAINS AND ENSETE (Guest Editor: Leena Tripathi (Uganda) (in co-operation with IITA, International Institute of Tropical Agriculture)), 2010

Special Issue 1

Temesgen Addis, Ferdu Azerefeagne, Tameru Alemu, Sisay Lemawork, Eyob Tadesse, Mesele Gemu (Ethiopia), Guy Blomme (Uganda) Biology, Geographical Distribution, Prevention and Control of the Enset Root Mealybug, *Cataenococcus ensete* (Homoptera: Pseudococcidae) in Ethiopia

Erval Rafael Damatto Junior, Roberto Lyra Villas Bôas, Sarita Leonel (Brazil), Juan Cabrera Cabrera, Víctor Galán Saúco (Spain) Quality of Banana Fruit Produced in Different Locations (Greenhouse and Open Air) of the Canary Islands

Jeff Daniells (Australia) Fusarium Wilt of Banana – An Integrated Approach to Disease Management

Nzawe Benjamin Dowiya (Democratic Republic of Congo), Guy Blomme (Uganda), Djailo Benoit Dheda (Democratic Republic of Congo), Cornel Rweyemamu (Tanzania), Devrig Velly, Ndungo Vigheri, Augustin Milambo (Democratic Republic of Congo), Simon Eden-Green (UK), Eldad Karamura (Uganda), Amon Maerere (Tanzania) The Alarming Spread of Banana Xanthomonas Wilt in Eastern Democratic Republic of Congo and its Impact on Food Security and Income

Mathiyazhagan Kavino, Sankarasubramanian Harish, Duraisamy Saravanakumar, Prabhakaran Jeyakumar, Neelakandan Kumar, Ramasamy Samiyappan (India) Biological Hardening - A New Approach to Enhancing Resistance against Biotic and Abiotic Stresses in Micropropagated Plants

Korn Koarapatchaikul, Kamnoon Kanchanapoom (Thailand) Plant Regeneration from Callus Cultures of Diploid Bananas (*Musa acuminata*, AA Group) 'Kluai Sa' and 'Kluai Leb Mu Nang' and Analysis of Ploidy Stability Using Flow Cytometry

Kazumitsu Matsumoto, Damares de Castro Monte, João Batista Teixeira (Brazil), Robert Haïcour (France), Michael R. Davey (UK) Banana Protoplasts: Culture and its Applications

Dilip Nandwani (USA) Constraints in the Production of Banana (*Musa* spp.) in the Northern Mariana Islands

Jules Ntamwira, Dowiya Benjamin Nzawe, Dieudonné Katunga (Democratic Republic of Congo), Piet Van Asten, Guy Blomme (Uganda) The Effect of Application of Organic Matter during Planting on Growth of an East African Highland Cooking Banana Grown on Two Contrasting Soils in South Kivu, Eastern DR-Congo

Amin Retnoningsih, Rita Megia, Alex Hartana (Indonesia) Molecular Verification and Diversity Analysis of Indonesian BB, AAB and ABB Banana Cultivars

Candice Mello Romero Santos, Claudia Fortes Ferreira, Lizangela Pinheiro Cassiano, Marly Catarina Felipe Coelho, Roberto Coiti Togawa, Natalia Florêncio Martins (Brazil), Manoel Teixeira Souza Júnior (The Netherlands) Transcriptome Analysis of Leaves and Roots of *Musa balbisiana* var. 'Pisang Klutuk Wulung'

Meki Shehabu, Temesgen Addis (Ethiopia), Laban Frank Turyagyenda (Uganda), Tamiru Alemu, Shiferaw Mekonen (Ethiopia), Guy Blomme (Uganda) The Efficiency of Air-Drying Pared Corms of Banana Suckers in Reducing the Risk of Soil-Mediated Xanthomonas Wilt Infections in Ethiopia

Meki Shehabu, Temesgen Addis, Shiferaw Mekonen (Ethiopia), Dirk De Waele (Belgium), Guy Blomme (Uganda) Nematode Infection Predisposes Banana to Soil-borne *Xanthomonas campestris* pv *musacearum* Transmission

Sreeramanan Subramaniam, Maziah Mahmood, Sariah Meon, Xavier Rathinam (Malaysia) Genetic Engineering for Tolerance to Fusarium Wilt Race 1 in *Musa sapientum* cv. Rastali (AAB) Using Biolistic Gun Transformation System

Eyob Tadesse, Ferdu Azerefeagne, Tameru Alemu, Temesgen Addis (Ethiopia), Guy Blomme (Uganda) Studies on the Efficacy of Some Selected Botanicals against Enset Root Mealybug (*Cataenococcus ensete*) Williams and Matile-Fererro (Homoptera: Pseudococcidae)

Taulya, G., van Asten P., Nowakunda, K., Kaddu-Mukasa, P (Uganda) Mineral Fertilizers Improve the Sensory Quality of

East African Highland Bananas (*Musa* AAA-EA, cv. 'Kisansa')

Abdou Tenkouano, Babatunde Olusegun Fatureti, Paul Kayode Baiyeri (Nigeria) On-farm Evaluation of *Musa* Hybrids in Southern Nigeria