

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

Updated 19th July, 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

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

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

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

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?

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

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

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

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 Shashi Bhushan, Ghosh Partha Deb, Mondal Tapan Kumar (India) Assessment of Genetic Diversity in Banana (*Musa* spp.) of North-Eastern India by RAPD

Regular papers

A. Ravi Charan, V. Prathap Reddy, P. Narayana Reddy, S. Sokka Reddy, S. Sivaramakrishnan (India) Assessment of Genetic Diversity in *Pseudomonas fluorescens* using PCR-based Methods

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

Naveen Danesh, Eralagere Thimmanaik Puttaiah (India), Jaime A. Teixeira da Silva (Japan), Bachi Eshwarappa Basavarajappa, Kanivebagilu Shankaranarayana Vinayaka (India) Sensitivity of Lichens to Air Pollution around the Industrial Area of Bhadravathi Town, India

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

Rajendra S. Chauhan, Mohan C. Nautiyal (India), Jaime A. Teixeira da Silva (Japan), Pratti Prasad, Harish Purohit (India) Habitat Preference, Ecological Parameters and Conservation of *Fritillaria roylei* Hook., an Endangered Medicinal Herb of the Astaverga Group

Santhebennur Jayappa Veeresh, Jogttappa Narayana (India), Jaime A. Teixeira da Silva (Japan) Agricultural Bio-Waste Management in the Bhadravathi Taluk of Karnataka State, India

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

Dynamic Biochemistry, Process Biotechnology and Molecular Biology

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

Esther Gómez, Jessica Méndez, Roberto Navais, Pilar Reimundo, David Pérez-Pascual, José A. Guijarro (Spain) Genetic Approaches for the Identification of Genes Involved in the Pathogenesis of Bacterial Infections in Fish

Sofia Carbajosa, Paloma Encinas, Amparo Estepa, Julio Coll (Spain) Possible Applications to Aquaculture of Salmonid *Sleeping Beauty* Transposon Vectors

Constantina Nasopoulou, Haralabos C. Karantonis, Ioannis Zabetakis (Greece) Nutritional Value of Gilthead Sea Bream and Sea Bass

Francesco Buonocore, Elisa Randelli, Daniela Casani, Catia Marozzi, Giuseppe Scapigliati (Italy) Cloning of Interferon in Sea Bream (*Sparus aurata*): An Important Marker for Immune Response after Viral Infection

Jenny Rodríguez, Ricardo Cedeño, Bonny Bayot, Fabrizio Echeverría (Ecuador), Jaime A. Teixeira da Silva (Japan), Alejandra Valladares, Daniel Aguayo, Stanislaus Sonnenholzner (Ecuador) Effects of the *Vibrio alginolyticus* Probiotic, β -1,3/1,6-Glucans and Temperature on Shrimp Production

Alfredo Mena-Herrera, Marco Agustín Liñán-Cabello, Fernando Díaz-Herrera (Mexico) Effects of Salinity on Electrolyte Levels (Na^+ , K^+ , and Cl^-) in the Hemolymph of the Pacific White Shrimp *Litopenaeus vannamei*

Yun-Peng Zhao, Tiao-Jian Xu, Guo-hai Dong (China) Hydrodynamic Behavior of Gravity Net Cage in Regular and Random Waves

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

Neeti Sanan-Mishra, Sumona Karjee, Sunil K. Mukherjee (India) Design and Delivery of Small RNAs for RNAi Technology

Next Issue: Including Proceedings of the 2nd International Conference for Applications of Biotechnology, October 17-18, 2009, Dokki, Egypt. Guest Editor: Ahmed Mansour Mohamed Mansour Alzohairy, Genetics Department, Faculty of Agriculture, Zagazig University, Egypt

Jason X. Feng, Bruce W. Stallsmith, Maria R. Davis, Gopi K. Podila (USA) PCR-enriched Differential Display of Gene Variation

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 Araújo Tomé, 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*

Haggag S. Zein (Egypt), Jaime A. Teixeira da Silva, Kazutaka Miyatake (Japan) Sequence Analysis of Monoclonal Antibodies Specific for CMV Coat Protein Subgroup II and Measuring their Affinity Constants with Competitive ELISA

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

Supriyo Basak, Meenakshi Kumari, Amrita Kumari, Prasanna Jyothi D (India) Production of Cellulase from *Myrothecium verrucaria* NCIM 903 by Solid State Fermentation Utilizing Wheat Bran as Substrate

Thanaa E. Helal, Monir A. El-Ganzuri, Ahmed M. Aref, Mohamed T. Badr (Egypt) Expression of p53 Protein in Hepatocellular Carcinoma: Relationships to Viral Infection and Prognostic Factors

Ahmed Mansour (Egypt), Jaime A. Teixeira da Silva (Japan), Eman E. El-Araby (Egypt) Molecular Markers Associated with the Development of New Phenotypes of Japanese Quail in Egypt

Hassan Moawad, Osama M. Darwesh, Wafaa M. Abd El-Rahim, Olfat S. Barakat, Mohamed Z. Sedik (Egypt) Evidence of Biodegradation of Reactive Red Textile Azo Dye in an Anoxic/Aerobic Bioremediation System

Tarek M. Salman, Mohamed M. El Zahaby, Ossama A. Mansour, Gamal A. Omran, Soad M. Gomaa, Hisham S. Gad (Egypt) Effect of Narcotic Addiction on Hypothalamic Pituitary Gonadal Axis Hormones

Tarek M. Salman, Mohamed M. El Zahaby, Ossama A. Mansour, Gamal A. Omran, Soad M. Gomaa, Hisham S. Gad (Egypt) Oxidative Stress and Lipotoxicity of Bhang and Opium Addiction. Effects on Adrenal Gland Secretions

Gamal Saadi, Mervat El-Ansary, Samah Abd El-Hamid, Iman Abd El-Aziz (Egypt) Mesenchymal Stem Cell Transfusion as a Novel Immunosuppressive Regimen with Possible Induction of Microchimerism

Mervat El-Ansary, Mervat Mattar, Shereen Kamel, Samah Abd El-Hamid, Rania Abou Elnour (Egypt) Dendritic Cell Vaccine as an Adjuvant Therapy in the Treatment of Chronic Myeloid Leukemia

Waleed Nazmy El Mazney, Mohamed Reda Mohamed Diab, Yasmine Mamdouh William (Egypt) Multifunctional Implantable Chitosan for Skin Tissue Engineering and Wound Healing

Khaled Adly Mohamed Khaled (Egypt), Jaime A. Teixeira da Silva (Japan) Molecular Profiling Using Protein Markers for

Salt Tolerance in Sugarcane

Khaled Adly Mohamed Khaled, Mohamed Abd-El-Kareem Fathalla (Egypt) Molecular Profiling and Genetic Diversity in Sugarcane using RAPD

Ibrahim M. Khater (Egypt) Homology Modeling of NS3 Protease of Hepatitis C Virus Genotype 4a

✿ **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 (India), Teixeira da Silva JA (Japan), Saroj Bhosle (India) Dynamics of the Soil-Earthworm-Plant Relationship: A Review

Rajiv K. Sinha, Dalsukh Valani (Australia), Natchimuthu Karmegam (India) Vermitechnology - The Emerging 21st Century Bioengineering Technology for Sustainable Development and Protection of Human Health and Environment: A Review

Alimardon Rakhmatullaev, Laziza Gafurova, Dilfuza Egamberdieva (Uzbekistan) Ecology and Role of Earthworms in Productivity of Arid Soils of Uzbekistan

Grazia Masciandaro, Veronica Bianchi, Cristina Macci, Eleonora Peruzzi, Serena Doni, Brunello Ceccanti, Renato Iannelli (Italy) Ecological and Agronomical Perspectives of Vermicompost Utilization in Mediterranean Agro-ecosystems

Santhebennur Jayappa Veeresh, Jogattappa Narayana (India), Jaime A. Teixeira da Silva (Japan) Influence of *Jeevamrutha* (Biodynamic Formulation) on Agro-Industrial Waste Vermicomposting

Thilagavathy Daniel, Balayogan Sivasankari, Muthu Malathy (India) Microbial and Nutrient Enhancement of *Gliricidia sepium* and *Leucaena leucocephala* Leaf Materials Using *Eisenia fetida*

Norliyana Sailila, Azizi Abu Bakar, Noor Zalina Mahmood (Malaysia), Jaime A. Teixeira da Silva (Japan), Noorlidah Abdullah, Adi Ainurzaman Jamaludin (Malaysia) Nutrient Elements of Different Agricultural Wastes from Vermicomposting Activity

✿ **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

Paveena Kaewubon, Supinya Sangdam, Kanchit Thammasiri, Upatham Meesawat (Thailand) Plant Regeneration through Somatic Embryogenesis from Callus-derived PLBs of Tropical Slipper Orchid (*Paphiopedilum niveum* (Rchb.f.) Pfitz.)

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

Sunita Chandel (India), Jaime A. Teixeira da Silva (Japan), Chhaya Sharma (India) Management of *Alternaria* Leaf Spot and Flower Blight of Marigold (*Tagetes erecta* L.) cv. 'Crackerjack' by Applications of Fungicides and Neem Formulation

Changxin He, Binxuan Wu, Guohua Ma (China) TDZ-induced Callus and Adventitious Shoot Formation from Leaf, Petiole and Calyx Explants of *Tigridiopalma magnifica* (Chen)

Neda Jalali, Rouhangiz Naderi (Iran), Jaime A. Teixeira da Silva (Japan), Mesbah Babalar, Masoud Mirmasoumi (Iran) Influence of Salt Concentration of Media and Plant Growth Regulator Combination on Callus Formation and Somatic Embryogenesis of *Cyclamen persicum* Mill.

Geetika Gambhir, Surinder Kumar, Shweta Sen (India) An Improved Regeneration System of Oriental Lily Hybrid from Ovary-Ovule Culture Using Plant Growth Regulators

🌱 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

Robert H. Glew (USA), John K. G. Kramer, Marta Hernandez (Canada), Andrzej Pastuszyn, Jennifer Ernst (USA), Ngouya Djomdi N. (Cameroun), Dorothy J. VanderJagt (USA) The Amino Acid, Mineral and Fatty Acid Content of Three Species of Human Plant Foods in Cameroun

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

Agnieszka Kita, Grażyna Lisińska (Poland) Effects of Package Damage on Quality of Fried Potato Snacks during Storage

Ejikeme Nwachukwu, Ijeoma Onyinyechi Ijeoma (Nigeria) Isolation and Characterization of Lactic Acid Bacteria Associated with the Fermentation of a Cereal-Based Product for the Development of a Starter Culture

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*

Rotimi A. Oderinde, Ibronke A. Ajayi, Abidemi A. Oyedele (Nigeria) Kinetic Studies in the Synthesis of Alkyd Resin Using Crude *Azadirachta indica* and Soybean Seed Oils as Modifiers

Chitra Rajagopal, K. Rajamani (India) Nutritional and Microbial Quality Evaluation of Herbal Drinking Water

🌱 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

George Sodah Ayernor, Emmanuel Ohene Afoakwa, Paa Kow Bartels, Agnes Simpson Budu (Ghana) Application of Response Surface Methodology for Studying the Effects of Gestation and Post-Harvest Storage on the Shrinkage Characteristics of Pineapple cv. 'Smooth Cayenne' Fruits

Olufunke O. Ezekiel, Rasheed K. Mustapha, Taiwo O. Olurin (Nigeria) Effect of Salt on Colour Degradation Kinetics of Visual Green Colour in Fluted Pumpkin (*Telfairia occidentalis*) Leaves

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 ISSUES: Pomegranate (Guest Editors: Ram Chandra, V. T. Jadhav, Jyotsana Sharma (National Research Council on Pomegranate, India)) ~ 2010

Ram Chandra, K. Dhinesh Babu, Vilas Tejrao Jadhav (India), Jaime A. Teixeira da Silva (Japan) Origin, History and Domestication of Pomegranate

Ram Chandra, Vilas Tejrao Jadhav, Jyotsana Sharma (India) Global Scenario of Pomegranate (*Punica granatum* L.) Culture with Special Reference to India

Tikam Singh Rana, Diganta Narzary, Shirish Anand Ranade (India) Systematics and Taxonomic Disposition of the Genus

Punica L.

S. H. Jalikop (India) Pomegranate Breeding

Sanjay Kumar Singh, Anita Singh, Nripendra Vikram Singh, D. Ramajayam (India) Pomegranate Tissue Culture and Biotechnology

Ram Chandra, K. Dhinesh Babu (India) Propagation of Pomegranate – A Review

K. Dhinesh Babu (India) Floral Biology of Pomegranate (*Punica granatum* L.)

Jyotsana Sharma, Ashis Maity (India) Pomegranate Phytochemicals: Nutraceutical and Therapeutic Values

Rufeng Wang, Yi Ding, Ruining Liu, Lan Xiang, Lijun Du (China) Pomegranate: Constituents, Bioactivities and Pharmacokinetics

Raj Nath Prasad, Ram Chandra (India), Jaime A. Teixeira da Silva (Japan) Postharvest Handling and Processing of Pomegranate

Kuldeep Kumar Sharma, Jyotsana Sharma, Vilas Tejrao Jadhav (India) Etiology of Pomegranate Wilt and its Management

Kuldeep Kumar Sharma, Jyotsana Sharma, Vilas Tejrao Jadhav (India) Status of Bacterial Blight of Pomegranate in India

Deodas Tarachand Meshram, Sunil Digambar Gorantiwar (India), Jaime A. Teixeira da Silva (Japan), Vilas Tejrao Jadhav, Ram Chandra (India) Water Management in Pomegranate

Ram Chandra, Deodas Tarachand Meshram (India) Pomegranate Culture in Deccan Plateau of India

Diganta Narzary, Tikam Singh Rana, Shirish Anand Ranade (India) Molecular Analyses of Genetic Diversity in Indian Pomegranates using RAPD, DAMD and ISSR

Kamlesh Kanwar, Kalpna Thakur, Vipasha Verma, R. K. Sharma (India) Genetic Variability of *in Vitro* Raised Plants of *Punica granatum* L. by RAPDs

Saeid Eshghi (Iran), Jaime A. Teixeira da Silva (Japan), Rouhollah Ranjbar (Iran) Molybdenum and Boron Affect Pollen Germination of Strawberry and Fertile and Infertile Flowers of Pomegranate

SPECIAL ISSUE: Sub-Saharan African Fruits. Guest Editor: Niéyidouba Lamien (Centre Régional de Recherches Environnementales et Agricoles (CRREA), Burkina Faso) ~ 2010

Abalo Atato, Kpérkouma Wala, Komlan Batawila, Agbelessessi Y. Woegan, Koffi Akpagana (Togo) Diversité des Fruitiers Ligneux Spontanés du Togo / Diversity of Edible Wild Fruit Trees Species of Togo (in French)

Mamounata Belem/Ouédraogo, Joséphine Yaméogo, Sita Guinko (Burkina Faso) Les Ligneux Alimentaires des Galeries Forestières de la Réserve de Biosphère de la Mare aux Hippopotames, Burkina Faso / Ligneous Edible Plants of Gallerie Forests of the Biosphere Reserve “de la Mare aux Hippopotames”, Burkina Faso (in French)

Armand Natta, Roméo Sogbégnon, Fidèle Tchobo (Bénin) Connaissances Endogènes et Importance du *Pentadesma butyracea* (Clusiaceae) pour les Populations Autochtones au Nord Ouest Bénin / Indigenous Knowledge and Importance of *Pentadesma butyracea* (Clusiaceae) for Rural Populations in North West Benin (in French)

Félix Kini, Sylvain Ouédraogo, Innocent Pierre Guissou (Burkina Faso) Propriétés Nutritionnelles et Thérapeutiques du Fruit de *Detarium microcarpum* Guill. et Perr / Nutritional and Therapeutic properties of the Fruit of *Detarium microcarpum* Guill. and Perr (in French)

Sylvain Ouédraogo, Félix Kini, Maminata Traoré-Coulibaly, Aristide Traore, Labarabonon Benjamin Tinguéri, Innocent Pierre Guissou (Burkina Faso) Etudes des Propriétés Pharmacologiques du Fruit de *Tamarindus indica* Linn, Utilisé comme Laxatif et Antipaludique en Médecine Traditionnelle / Pharmacological Properties of *Tamarindus indica* Linn. Fruit used as a

Sylvain Nafiba Ouédraogo (Burkina Faso), Jean François Vayssières (République du Bénin), A. Rémy Dabiré (Burkina Faso), Corinne Rouland-Lefèvre (France) Fruitiers Locaux Hôtes des Mouches des Fruits (Diptera: Tephritidae) Inféodées au Manguier dans l'Ouest du Burkina Faso: Identification et Taux d'Infestation / Wild Fruit Crops as Hosts of Mango Fruit Flies (Diptera: Tephritidae) in Western Burkina Faso: Identification and Infestation Rates (in French)

Jean-François Vayssières, Antonio Sinzogan, Appolinaire Adandonon, David Ayegnon, Issa Ouagoussounon, Soumanou Modjibou (Bénin) Principaux Fruitiers Locaux des Zones Guinéo-Soudaniennes du Bénin: Inventaire, Période de Production et Dégâts dus aux Mouches des Fruits / Main Wild Fruit Trees of Guineo-Sudanian Zones of Benin: Inventory, Period of Production and Losses due to Fruit Flies (in French)

C. A. M. Sylvestre Djagoun, Romain Glele Kakai, Dieu-Donné Konnon, Clément Sewade, Méryas Kouton, Wilfried Bonou, Gérard Gouwakinnou, Berlamín Fandohan (Bénin) Potentiel des Ressources Végétales Forestières Alimentaires et Médicinales de la Forêt Classée de l'Ouémé Supérieur et N'Dali au Nord Bénin / Potential Food and Medicinal Use of Plant Resources of the Oueme Superieur and N'Dali Classified Forests (Northern Benin) (in French)

Joséphine Yameogo, Sibiri Jean Ouedraogo, Jules Bayala, Mamounata Belem Ouédraogo (Burkina Faso) Potentialités Médicinales et Alimentaires de Dix-sept Espèces Ligneuses Préférées dans les Parcs Agroforestiers au Sud-Ouest du Burkina Faso / n prep. (in French)

Roger Djoulde Darman, Jean-Justin Essia Ngang, François-Xavier Etoa (Cameroon) Fermentation of Cocoa Juice (*Theobroma cacao* L.) and Roselle (*Hibiscus sabdariffa* L) Extracts into a Wine-Like Alcoholic Drink

Hassan M. Emara, Mahmoud A. Swelim, Safwat A. Elhadad, Kamel M. Ata (Egypt) Efficiency of Some Chemical Inducers on Chemotactic Movement of *Ralstonia solanacearum* towards Potato Root Exudates

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

Dilip Nandwani (USA) Variety Trials, Sensory Evaluations and *In-vitro* Multiplication of Sweetpotato (*Ipomea batatas*) in the Western Pacific

Akhtar Shekafandeh (Iran), M. Margarida Oliveira (Portugal) Effects of Culture Medium and Mother Plant Condition on Almond (*Prunus dulcis* Mill.) Shoot Proliferation from Nodal Segments

Silvia Ross, Rafael Grasso (Uruguay) *In Vitro* Propagation of 'Guayabo del país' (*Acca sellowiana* (Berg.) Burret)

Mahmoud M. Shaaban, Mohamed M. Hussein, Abdel Karim M. El-Saad (Egypt) Growth of Sugar Beet as Affected by Diluted Sea Irrigation Water and Possible Enhancement of Salinity Stress Tolerance with KMP Foliar Fertilization

Samia Ben Mansour-Gueddes, Neji Tarchoun (Tunisia), Jaime A. Teixeira da Silva (Japan), Saâd Saguem (Tunisia) Agronomic and Chemical Evaluation of Seven Hot Pepper (*Capsicum annum* L.) Populations Grown in an Open Field

Kolawole O. Ajanaku, Kehinde O. Ogunniran, Olayinka O. Ajani, Oladele O. James, Obinna C. Nwinyi (Nigeria) Improvement of Nutritive Value of Sorghum-Ogi Fortified with Pawpaw (*Carica papaya* L.)

Masoomeh Amerian, Mahmood Esna-Ashari (Iran) Effect of NaCl Stress and Sucrose on Potato Microtuberization

Ahmad Dadashpour, Alireza Talaei, Mohammad Ali Asgari-Sarcheshmeh, Ali Shahi-Gharahlar (Iran) Variation of Physicochemical Fruit Characteristics of Different Apple Cultivars in 'Gutigen V' as a Training System

Elias Amri, Ali Reza Shahsavari (Iran) Comparative Efficacy of Citric Acid and Fe(II) Sulfate in the Prevention of Chlorosis in Orange Trees (*Citrus sinensis* L. cv 'Darabi')

Jules Janick (USA) History of Fruit Breeding

Henryk Flachowsky, Monika Höfer, Magda-Viola Hanke (Germany) Strawberry

David Ruiz, Pedro Martínez-Gómez, Manuel Rubio, Cesar Petri (Spain), Antonio Larios (Mexico), José Antonio Campoy, José Egea (Spain) Application of Biotechnology Tools to Apricot Breeding

John R. Clark, Chad E. Finn (USA) Blackberry Breeding and Genetics

🌱 **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

SPECIAL ISSUE: Forest restoration. Guest Editor: Weimin Xi (Department of Entomology, Texas A&M University, USA; University of Wisconsin-Madison) ~ December, 2010

Hai Ren, Hongfang Lu, Jun Wang, Nan Liu (China), Qinfeng Guo (USA) Forest Restoration in China: Advances, Obstacles, and Perspectives

🌱 **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

Maria Grilli Caiola, Antonella Canini (Italy) Looking for Saffron's (*Crocus sativus* L.) Parents

Kamal Dev Sharma (India), Abel Piqueras (Spain) Saffron (*Crocus sativus* L.) Tissue Culture: Micropropagation and Secondary Metabolite Production

Alessia Fiore, Daniele Pizzichini, Gianfranco Diretto, Federico Scossa, Laura Spanò (Italy) Genomics and Transcriptomics of Saffron: New Tools to Unravel the Secrets of an Attractive Spice

Athanasios S. Tsafaris, Apostolos Kalivas, Konstantinos Pasentsis, Anagnostis Argiriou (Greece) Expression Analysis of Flower MADS-box Genes in Saffron *Crocus* (*Crocus sativus* L.) Supports a Modified ABCDE Model

Luana Maggi, Manuel Carmona, Ana M. Sanchez, Gonzalo L. Alonso (Spain) Saffron Flavor: Compounds Involved, Biogenesis and Human Perception

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

Carmen Licón, Manuel Carmona, Silvia Llorens, Maria Isabel Berruga, Gonzalo L. Alonso (Spain) Potential Healthy Effects of Saffron Spice (*Crocus sativus* L. stigmas) Consumption

Lourdes Gómez-Gómez, Francisco Feo-Brito, Angela Rubio-Moraga, Almudena Trapero-Mozos, Alicia Prieto, Gabriel Salcedo, Oussama Ahrazem (Spain) Saffron and Other Spices as Potential Allergenic Sources

Oussama Ahrazem, Ángela Rubio-Moraga, Raquel Castillo-López, Almudena Trapero Mozos, Lourdes Gómez-Gómez (Spain) *Crocus sativus* Pathogens and Defence Responses

Evropi Botsoglou, Alexandros Govaris, Ilias Giannenas, nickolaos Botsoglou (Greece) Use of Saffron (*Crocus sativus* L.) as a Feed Additive for Improving Growth and Meat or Egg Quality in Poultry

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

SPECIAL ISSUE: Incl. Proceedings of First Euro-Med Symposium Plant Natural Products held in Egypt, December 8-10, 2009 (Guest Editor: Ashraf A Khalil, Egypt) ~ 2010

Hashim A. Abdel-Rahman, Abdel-Moty H. M. Hassanein, Nabawy A. I. Elkattan, Eman H. Ismail (Egypt) Evaluation of Twenty Botanical Extracts and Products as Sources of Repellents, Toxicants and Protectants for Stored Grains against the Almond Moth, *Cadra cautella*

Saadya M. Elbermawy, Nabawy A. I. Elkattan, Khalafalla S. Ahmed, Rabab M. Abdel-Gawad (Egypt) Screening for Bioactive Plant Materials against House Fly, *Musca domestica* L. (Diptera: Muscidae)

Maher M. Al-Dabbas, Ruba Abu-Taleb, Khalid Al-Ismael (Jordan) Antimicrobial and Antiproliferative Activities of Extracts and Compounds Isolated from *Varthemia* (*Varthemia iphionoides* Bloiss)

Ahmed M. Emam, Mamdouh A. Mohamed, Yasser M. Diab, Nadia Y. Megally (Egypt) Isolation and Structure Elucidation of Antioxidant Compounds from Leaves of *Laurus nobilis* and *Emex spinosus*

Iyad Musallam, Mahmud Duwayri, Rida A. Shibli (Jordan) Micropropagation of Caper (*Capparis spinosa* L.) from Wild Plants

Galila Yacout, Doaa A. Ghareeb, Nihal M. Elguindy, Alshimaa A. Abd Elmoneam (Egypt) Phytochemical Constituents and Bioscreening Activities of Alexandria Mediterranean Sea Green and Red Algae

Sameh AbouZid (Egypt) Evaluation of Usefulness of Wild Plants Growing in Beni-Sueif Region, Upper Egypt

Mejda Daami-Remadi, Hayfa Jabnoun-Khiareddine, Fakher 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

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, H  l  ne Sanfa  on, 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

Ahmed Mansour (Egypt), Jaime A. Teixeira da Silva (Japan), Sherif Edris, Rania A. A. Younis (Egypt) Comparative Assessment of Genetic Diversity in Tomato Cultivars using IRAP, ISSR and RAPD Molecular Markers

Dayananda Chandrappa, Venkatachalam Lakshmanan, Bhagyalakshmi Neelwarne, Ravishankar Gokare

Aswathanarayana (India) Assessment of Genetic Polymorphism among Green Microalgae *Botryococcus* of Distinct Origin by RAPD

Nariman A.H. Aly, Osama E. El-Sayed (Egypt) Nucleotide Variations and Base-pair Substitutions of 16S rRNA Gene in some Local *Bacillus thuringiensis* Isolates

SPECIAL ISSUE: Genomics, Transgenics, Molecular Breeding and Biotechnology of Strawberry. Guest Editors: Amjad M. Husaini (India) (Division of Plant Breeding & Genetics, Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir) and José A. Mercado (Departamento de Biología Vegetal, Universidad de Málaga, Spain) ~ 2010

Wilfried Schwab, Thomas Hoffmann, Gregor Kalinowski, Anja Preuß (Germany) Functional Genomics in Strawberry Fruit through RNAi-mediated Silencing

Jan G. Schaart, Elma M. J. Salentijn, Koen T. B. Pelgrom, Asaph Aharoni, Frans A. Krens (The Netherlands) Isolation and Characterisation of a Strawberry Fruit-Specific Promoter

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)

Koduvayur Habeebullah Sabeena Farvin (Denmark/India), Alagarsamy Surendraraj, Rangasamy Anandan (India) Protective Effect of Squalene on Mitochondrial Alterations in Isoprenaline-Induced Myocardial Injury

Nyemb Nyunaï, Adèle Manguelle-Dicoum, Njikam Njifutié (Cameroon), El Hassane Abdennebi (Morocco), Cros Gérard (France) Antihyperglycaemic Effect of *Ageratum conyzoides* L. Fractions in Normoglycemic and Diabetic Male *Wistar* Rats

Gaurav Mundra, Nitin Dubey, Subhash C. Chaturvedi, Dinesh K. Jain (India) Simultaneous Estimation of Amlodipine Besylate and Olmesartan Medoxomil in Combined Tablet Dosage Form Using UV-Spectroscopy and Reverse Phase High-Performance Liquid Chromatography Method

Kousik Santra, Anandamoy Rudra, Biswajit Mukherjee (India) Development, Physicochemical and *In-Vitro* Evaluation of Dexamethasone-Containing Liposomes

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*

Maji Sushomasri, Maji Himangshu S., Chakraborty Pranabesh, Ghosh Dastidar Sujata (India) Potential of Dopamine Hydrochloride as a Novel Antimicrobial Agent

Vellingiri Maheshu, Jagathala Mahalingam Sasikumar, Deivamarudhachalam Teepica Priya Darsini, G. Smilin Bell Aseervatham (India) *In vitro* antioxidant activity and polyphenolic contents of *Rauvolfia tetraphylla* L., *Rhinacanthus nasutus* Kurz. and *Solena amplexicaulis* (Lam.)

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

Sankhadip Bose, Arti Bose, Sushomasri Maji, Pranabesh Chakraborty (India) Lipid Lowering Activity of *Ixora coccinea* leaves in Hyperlipidemic Rats

Veldandi Uday Kiran, Malothu Nagulu, Martha Srinivas, Venkatesham Allenki, Porika Mahendar, Yellu Narsimha Reddy, Rama Krishna Devarakonda (India) Antitumor Activity of Flavonoids against Ehrlich Ascites Carcinoma-induced Mice

Nidhi Dubey, Nitin Dubey, Rajendra Mehta, Ajay Saluja (India) *In-Vitro* Antimicrobial Activity and Toxicological Aspects of a Polyherbal Oil Formulation: *Tuvaraka taila*

Francisca Iziegbe Okungbowa, Faith Efosa Oviasogie (Nigeria) Antimicrobial Effect of Grapefruit Crude Extracts on Selected Bacterial Isolates

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

SPECIAL ISSUE: Ginseng research in the era of systems biology. Guest Editor: Jian Yan (UTHSC-Molecular Resource Center, Memphis, USA), 2010/2011

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

International Journal of Plant Breeding

Michael D. Casler (USA) Genetics, Breeding, and Ecology of Reed Canarygrass

Abdullah A. Jaradat, Walter Goldstein (USA), Kenton Dashiell (Kenya) Phenotypic Structures and Breeding Value of Open-Pollinated Corn Varietal Hybrids

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

C. Indu Rani, D. Veeraragavathatham (India) Combining Ability and Gene Action for Yield and Processing Qualities in F₁ Tomato (*Lycopersicon esculentum* Mill.) Hybrids

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

Subas Malla, Amir M.H. Ibrahim, Yang Yen, William Berzonsky, Karl D. Glover, Jeffrey Stein (USA) QTL Analysis of a Putative Novel Source of Resistance to *Fusarium* Head Blight in Hard Winter Wheat

Ali Qaid Ahmed Yahya Algabal, Narayanaswamy Papanna (India), Luke Simon (India/UK) Estimation of Genetic Variability in Tamarind (*Tamarindus indica* L.) using RAPD Markers

Sunil Dutt Tyagi, Mudasir Hafiz Khan (India), Jaime A. Teixeira da Silva (Japan) Yield Stability of some Soybean Genotypes across Diverse Environments

Peter Ejimofor Ogbonna, Ignatus Ugwudike Obi (Nigeria) Studies of Gene Effects on Yield and Yield Components in "Egusi" Melon (*Colocynthis citrullus* L.)

Simcha Lev-Yadun (Israel), Sarah E. Wyatt (USA), Moshe A. Flaishman (Israel) Unconscious Selection and Domestication in "Wild-type" *Arabidopsis thaliana* (Brassicaceae)

Dorcias Olubunmi Ibitoye, Pamela Eloho Akin-Idowu (Nigeria) Intra-specific Hybridization in Cultivated Papaya (*Carica papaya* L.) Genotypes

International Journal of Plant Developmental Biology

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

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

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

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

Florian Jabbour (Germany), H  l  ne L. Citerne (France) Modeling Flowers and Inflorescences

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

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

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

Alma Pi  neyro-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*

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

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

Omar Aldahhak, Zaid Salim (Syria), Jaime A. Teixeira da Silva (Japan), Ahmad M. Abdul-Kader (Syria) *In Vitro* Approach to the Multiplication of a Halophyte Species Forage Shrub *Atriplex halimus* L. and *in Vitro* Selection for Salt Tolerance

Mohamed Reda Abd Almegid Abd Alhady, Mohamed Mohamed Abd Alla, Ghada Abd El-moneim Hegazi, Mahdia Farid Gabr. (Egypt) Rapid Propagation of *Periploca angustifolia* Labill. by Tissue Culture

Mohamed H. Al-Whaibi, Manzer H. Siddiqui, Abdullah Al-Amri, Mohammed O. Basalah (Kingdom of Saudi Arabia) Performance of Faba Bean under Calcium and Gibberellic acid Application

Kambaska Kumar Behera, Biswanath Bhunia (India), Jaime A. Teixeira da Silva (Japan), Santilata Sahoo (India) Plantlet Regeneration of Potato Yam (*Dioscorea bulbifera* L.) through *in Vitro* Culture from Nodal Segments

Ananya Das, Shyamal Ghose, Anjan Bhattacharyya, Animesh K. Datta (India) *In Vitro* Biogenesis of Alkaloids and Withanolides in *Withania somnifera* (L.) Dunal (Solanaceae) var. 'Poshita' and 'Jawahar 22'

Saikat Gantait, Nirmal Mandal, Somnath Bhattacharyya, Prakash Kanti Das (India) Sustainable *in Vitro* Propagation and Clonal Fidelity in Strawberry

Parvatam Giridhar, Krishnaswamy Subbarayanakoppalu Sowmya, Akula Ramakrishna, Gokare Aswathanarayana Ravishankar (India) Rapid Clonal Propagation and Stevioside Profiles of *Stevia rebaudiana* Bertoni

Emilio Mendoza-de Gyves, Maurizio Enea Picarella, Fabrizio Ruiu (Italy), Jaime A. Teixeira da Silva (Japan), Youssef Rouphael (Lebanon), Rosario Muleo, Eddo Rugini (Italy) Inhibition of *Agrobacterium tumefaciens* Growth by Silver Nitrate

M. Naeem, Mohd. Idrees, Tariq Aftab, M. Masroor A. Khan, Moinuddin (India) Changes in Photosynthesis, Enzyme Activities and Production of Anthraquinone and Sennoside Content of Coffee Senna (*Senna occidentalis* L.) by Triacantanol

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

Gulzar S. Sanghera, Manjit S. Gill, Satbir S. Gosal (India) Optimization of Shoot Tip-Based *in Vitro* Plant Regeneration in Cotton (*Gossypium* spp.)

H. P. Shilpashree, V. Ravishankar Rai (India) Effect of Plant Growth Regulators on Callus Formation, Plant Regeneration and Hypericin Production in *Hypericum mysorense* Hyne

Emilio Cervantes, Juana G. de Diego (Spain) Morphological Description of Plants: New Perspectives in Development and Evolution

✿ 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

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.

Manoj Kumar Goel, Shilpa Goel, Suchitra Banerjee, Karuna Shanker, Arun Kumar Kukreja (India) *Agrobacterium rhizogenes*-Mediated Transformed Roots of *Rauwolfia serpentina* for Reserpine Biosynthesis

Amita Misra, Ashutosh K. Shukla, Ajit K. Shasany, V. Sundaresan, Shital P. Jain, Subhash C. Singh, Guru D. Bagchi, Suman P. S. Khanuja (India) AFLP Markers for Identification of *Aconitum* Species

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

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

Rehana Hamid, Azra N. Kamili, Mahmood uz Zaffar (India), Jaime A. Teixeira da Silva (Japan), A. Mujib, Javid Ahmad Parray (India) Callus-Mediated Shoot Organogenesis from Shoot Tips of *Cichorium intybus*

SPECIAL ISSUE: *Hypericum*. Guest Editors: Mehmet Serhat Odabas, Cüneyt Çırak (The University of Ondokuz Mayıs, Samsun, Turkey), 2010

Sara L. Crockett (Austria), Norman K. B. Robson (Great Britain) Taxonomy and Chemotaxonomy of the Genus *Hypericum*

Nicolai M. Nürk (Germany), Sara L. Crockett (Austria) Morphological and Phytochemical Diversity among *Hypericum* Species of the Mediterranean Basin

Pavol Mártonfi, Lenka Mártonfióvá (Slovak Republic) Reproduction Mode in *Hypericum* and its Consequences

Jana Koperdáková, Hedviga Komarovská, Ján Košuth, Eva Čellárová (Slovak Republic) Transgenesis in the Genus *Hypericum*: Transgenic St. John's Wort Plants

Eva Čellárová (Slovak Republic) Effect of Exogenous Morphogenetic Signals on Differentiation *in Vitro* and Secondary Metabolite Formation in the Genus *Hypericum*

Ludger Beerhues (Germany) Biosynthesis of the Active *Hypericum perforatum* Constituents

Silvio Caccia, Marco Gobbi (Italy) Hyperforin in St. John's Wort's Central Effects: What is the Mechanism of Action?

Umit Bingol, Belgin Cosge, Bilal Gurbuz (Turkey) *Hypericum* Species in Flora of Turkey

Karim Hosni, Kamel Msaada, Thouraya Chahed, Mouna Ben Taarit, Brahim Marzouk (Tunisia) Comparative Analysis of the Essential Oils of *Hypericum triquetrifolium* Turra. Extracted by Ultrasound, Hydrodistillation and Soxhlet/Dynamic Headspace

Cüneyt Çırak, Ali Kemal Ayan, Mehmet Serhat Odabas (Turkey) Seed Germination of *Hypericum triquetrifolium* and *Hypericum heterophyllum*

Evrin Taşkın, Ergün Taşkın, Mehmet Öztürk (Turkey), Jaime A. Teixeira da Silva (Japan) Natural Compounds with Bioactive Properties from Marine Algae

Arnab Bhattacharya, Animesh K. Datta (India) *Uraria picta*: An Overview

M. Chandrika, V. Ravishankar Rai (India) RAPD Markers for Genetic Analysis in Micropropagated Plants of *Dictyospermum ovalifolium*, a Rare Plant of Western Ghats, 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

Shiwali Sharma, Anwar Shahzad, Mohammad Anis (India) *In Vitro* Shoot Organogenesis and Regeneration of Plantlets from Nodal Explants of *Murraya koenigii* (L.) Spreng. (Rutaceae), a Multipurpose Aromatic Medicinal Plant

Shuying Zhu, Tao Liu, Zhongming Fang, Kuaifei Xia, Songjun Zeng (China), Jaime A. Teixeira da Silva (Japan), Mingyong Zhang (China) Micropropagation and Pharmacological Analysis of a Medicinal Herb *Sarcandra glabra*

SPECIAL ISSUE: Antimicrobial activity of MAPs. Guest Editors: Profs. Natchimuthu Karmegam (Vinayaka Missions University, India), Kumuthakalavalli Sekhar (Gandhigram Rural University, India)

Sarah Onyenibe Nwozo, Ibronke Adetolu Ajayi, Margaret Obadare (Nigeria) Phytochemical Screening and Antimicrobial Activity of 10 Medicinal Seeds from Nigeria

Pest Technology

SPECIAL ISSUE: Bioherbicides. Guest Editors: Gary Peng, Thomas M. Wolf (Agriculture and Agri-Food Canada, Saskatoon Research Centre, Canada), 2010

Antonio Evidente, Anna Andolfi, Alessio Cimmino (Italy) Fungal Phytotoxins for Control of *Cirsium arvense* and *Sonchus arvensis*

A. J. Caesar (USA) The Importance of Intertrophic Interactions in Biological Weed Control

Jianping Zhang, Shuang Yang, Yongjun Zhou, Liuqing Yu (China) Development of Bioherbicides for Control of Barnyard Grass in China

Sumona Karjee, Neeti Sanan-Mishra, Sunil Kumar Mukherjee (India) Viral Suppressors of RNA Silencing in Plants

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, Fakhher 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

Adeline Su Yien Ting, Tan Siew Hoon, Wai Mei Kay, Chee Li Ern (Malaysia) Characterization of Actinobacteria with Antifungal Potential against Fusarium Crown-Rot Pathogen

Plant Stress

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, Estíbaliz 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

Allen V. Barker, Ellen J. Pader (USA) Health Correlates of Nutrients in Soils and Foods

Shamsul Hayat, Syed Aiman Hasan, Qaiser Hayat, Mohd Irfan (India), Aqil Ahmad (Sultanate of Oman) Effect of Salicylic Acid on Net Photosynthetic Rate, Chlorophyll Fluorescence, and Antioxidant Enzymes in *Vigna radiata* Plants Exposed to Temperature and Salinity 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 Gill, 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 Saeed, Nafees A. Khan (India) Physiological Aspects of Salicylic Acid-Mediated Salinity Tolerance in Plants

Narendra Tuteja, Sarvajeet Singh Gill, 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, Gian Piero Soressi, Stefania Astolfi (Italy) Salt Stress: Effects on Nitrogen Metabolism in Tomato Plants Differing in Salt Tolerance

Vladimir Kuznetsov, Lily Polyakova (Russia) The Role of Professor Boris B. Vartapetian in the Foundation of the International Society for Plant Anaerobiosis and a New Avenue in Ecological Biology

Sotiria Stavrianiakou, Georgios Liakopoulos, Despoina Miltiadou, Anastasios N. Markoglou, Basil N. Ziogas, George Karabourniotis (Greece) Antifungal and Antibacterial Capacity of Extracted Material from non-Glandular and Glandular Leaf Hairs Applied at Physiological Concentrations

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.

Nemat A. Naguib, Eman A. I. Mohamed, Yasser M. Abdel-Tawab (Egypt) Laboratory Evaluation of Some Barley Genotypes under Drought and Salinity Stresses

Dmitriy V. Tereshonok, Anna Yu. Stepanova, Yulia I. Dolgikh, Ekaterina S. Osipova, Denis V. Belyaev, Boris B. Vartapetian (Russia) Tolerance to Root Flooding of Wheat Plants (*Triticum aestivum* L.) Produced with Biotechnological Approaches

Seed Science and Biotechnology

Ali Shahi-Gharahlar, Rozbeh Farhoudi (Iran), Jaime A. Teixeira da Silva (Japan) Influence of Snake Melon (*Cucumis melo* var. *flexuosus*) Seed Priming on Seedling Emergence and Seedling Electrolyte Leakage under Salinity

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

Eman Anwar Ibrahim Mohamed, Yasser Mohamed Abdel-Tawab, Sara El-Sayed Ibrahim El-Dessouky (Egypt) Evaluation of Sesame, Peanut and Canola Seed Quality Using Accelerated Ageing

Ali Shahi-Gharahlar, Orang Khademi, Rozbeh Farhoudi, Seyed Fazel Mirahmadi (Iran) Influence of Salt (NaCl, CaCl₂, KNO₃) Stress on Germination and Early Seedling Growth Traits of Cumin (*Cuminum cyminum* L.) Seed

Rozbeh Farhoudi, Ali Shahi-Gharahlar (Iran), Jaime A. Teixeira da Silva (Japan) *Echinacea purpurea* L. seed pretreatment with GA₃, stratification and light to improve germination

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 Muscolo (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

Giorgos Markou, Dimitris Georgakakis, Katerina Plagou, Georgia Salakou, Nikoletta Christopoulou (Greece) Balanced Waste Management of 2- And 3-Phase Olive Oil Mills in Relation to the Seed Oil Extraction Plant

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

Serap Saglik Aslan (Turkey) Olive Oil Recovery Methods

Priya Arora, Renu Bhardwaj, Mukesh Kumar Kanwar (India) Presoaking Seed Treatment of 24-epiBL Modulates Cr Stress in *Brassica juncea* L.

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 Al³⁺ from Aqueous Solutions by Coconut Fibre

Shih-Hao Jien, Chen-Chi Tsai, Zeng-Yei Hseu, Zueng-Sang Chen (Taiwan) Baseline Concentrations of Toxic Elements in Metropolitan Park Soils of Taiwan

Godwin O. Olutona, Oluwaseun R. Ishola, Oluwatosin E. Atobatele (Nigeria) Trace Metal Assessment in a Water Hyacinth (*Eichhornia crassipes*)-Infested Reservoir: A Study of Awba Reservoir, Ibadan, Nigeria

Princewill C. Ogonna, Nkechinyere Okezie (Nigeria) Heavy Metal Level and Macronutrient Contents of Roadside Soil and Vegetation in Umuahia, Nigeria

Princewill C. Ogonna, Vivian I. Okeke (Nigeria) Heavy Metal Level of Soil and Gmelina Plantation in Umuahia, Nigeria

Elora Parvin, Md. Kawser Ahmed, Md. Monirul Islam, Mosammat Salma Akter, Md. Alamgir Kabir (Bangladesh) Preliminary Acute Toxicity Bioassays of Lead and Cadmium on Fresh Water Climbing Perch, *Anabas testudineus* (Bloch)

Awodele Olufunsho (Nigeria), Jaime A. Teixeira da Silva (Japan), Alade Akintonwa (Nigeria) Toxicity Testing of Paraquat and 2,4-Dimethylamine on *Lumbricus terrestris*, *Palaemonetes africanus* and *Tilapia guineensis*

Luke N. Ukiwe, Christopher I. A. Nwoko (Nigeria) The Influence of Acids and pH in Removal Efficiency of Heavy Metals by Inorganic Coagulants

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

Sofiane Abdelhamid, Naziha Grati-Kamoun (Tunisia), Francesco P. Marra, Tiziano Caruso (Italy) Genetic Characterization of Tunisian Olive Table Cultivars (*Olea europaea* L.): Inventory Based on Microsatellite Analysis

Abdessatar Omezine (Tunisia), Jaime A. Teixeira da Silva (Japan) Using Growth Analysis to Interpret Competition between *Cynodon dactylon* (L.) Beauv. (Bermudagrass) and Newly Planted *Olea europaea* L. (Olive Seedlings)

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

Cherif Mejda, Rezgui Salah (Tunisia) Genotype × Environment Interactions and Heritability Estimates of Agronomic Traits in Selected Tunisian Barley Cultivars

Abdessatar Omezine, Fethia Harzallah-Skhiri (Tunisia) Field Bindweed Biology and Growth Resumption

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

Imen Tiili, Chafik Hdidier, Riadh Ilahy, Hager Jebari (Tunisia) Phytochemical Composition and Antioxidant Activity of Selected Watermelon Varieties Grown in Tunisia

Thouraya R'him, Imen Tiili, Riadh Ilahy (Tunisia), Jaime A. Teixeira da Silva (Japan), Naceur Hamza (Tunisia) The Effect

of Growing Season and Culture Media on Anther Culture Response of Some Pepper Cultivars (*Capsicum annum* L.) Grown in Tunisia

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* Evaluation of Some Fungicides

Mohamed A. Abbas, Wafaa M. Shukry, Samia A. Haroun (Egypt), Jaime A. Teixeira da Silva (Japan), Amr A. Mowafy (Egypt) Biochemical and Physiological Mechanisms Related to Vernalization, Atonik and Benzyl Adenine in *Pisum sativum*

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

AME Abd El-Salam (Egypt), Jaime A. Teixeira da Silva (Japan) Field Evaluation in Egypt of Two Biorational Insecticides (Nimbecidine[®] and Bio-Power[®]) against the Potato Tuberworm, *Phthorimaea operculella* (Zeller)

Godwin Norensé Osarumwense Asemota (Rwanda) Alternating Electromagnetic Fields in Plantains

Hassan M. Emara, Safwat A. Elhadad, Mahmoud A. Swelim, Kamel M. Ata (Egypt) Effect of Soil Amendments with Different Chemical Inducers on the Pathogenicity of *Ralstonia solanacearum* to Tomato and Potato Plants

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

Francis A. Nkaa, Chuks I. Ogbonnaya, Nwanma B. Onyike (Nigeria) Growth Performance of Three Kenaf Varieties Grown under Water Stress in Eastern Nigeria

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

Bahaa El Din Bastawy Mekki (Egypt), Jaime A. Teixeira da Silva (Japan), Salwa Ahmed Ali Orabi (Egypt) Yield, Fatty Acids and Antioxidant Enzymes of Two Canola (*Brassica napus* L.) Cultivars in Response to Stigmasterol

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

Refat A. Youssef, Mohammed A. Rasheed, El-Sayed I. Gaber, Jaime A. Teixeira da Silva (Japan), Abd El Kader A. A., Nesreen H. Abou-Baker (Egypt) Evaluation of Banana Compost Enriched with Microorganisms on Concentrations of Heavy Metals in Corn and Bean Plants

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

O. Samuel Olabode, G. Olulakin Adesina, S. Adelani Babarinde, E. Olabimpe Abioye (Nigeria) Preliminary Evaluation of *Tithonia diversifolia* (Helms.) A. Gray for Allelopathic Effects on Some Selected Crops under Laboratory and Screenhouse Conditions

Awodele Olufunsho (Nigeria), Jaime A. Teixeira da Silva (Japan), Alade Akintonwa (Nigeria) Mitodepressive Effect of Four Food Additives Using the *Allium Cepa* Assay

Godwin Norensé Osarumwense Asemota (Rwanda) Evidence-Based Wind-Felled Recovery of Plantains

Godwin Norense Osarumwense Asemota (Rwanda) Velocity of Light in Plantains

James N. Aneke, Chris O. Akalezi, Maximillian I. Chibuike, Emeka E. Oguzie (Nigeria) Proximate Characterization of the Methanolic Extract of *Cassia alata* Leaves

Special Issue: Botswana Plant Research I (Guest Editor: Tabo Mubyana-John, Dept of Biological Sciences, University of Botswana, Botswana), 2011

Olusegun Areola, Oagile Dikinya, Larona Mosime (Botswana) Comparative Effects of Secondary Treated Waste Water Irrigation on Soil Quality Parameters under Different Crop Types

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

Robert S. Brown, Derrick M. Oosterhuis (USA) High Daytime Temperature Stress Effects on the Physiology of Modern Versus Obsolete Cotton Cultivars

Pedro Jose González, Andrea Arias (USA), Venancio Arahana, Maria de Lourdes Torres (Ecuador) Cryopreservation of Naranjilla (*Solanum quitoense* var. *quitoense*) Shoot-tips by Vitrification

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

Cecilia M. Creus, María A. Pereyra, Elda M. Casanovas, Rolando J. Sueldo, Carlos A. Barassi (Argentina) Plant Growth-Promoting Effects of Rhizobacteria on Abiotic Stressed Plants. *Azospirillum*-Grasses Model

Silvia G. Assuero, Jorge Tognetti (Argentina) Tillering Regulation by Endogenous and Environmental Factors and its Agricultural Management

Fernando H. Andrade, Pablo E. Abbate, María E. Otegui, Alfredo G. Cirilo, Anibal A. Cerrudo (Argentina) Ecophysiological Basis for Crop Management

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

Olga Marcellán, Elsa Camadro, Ana Clara Pontaroli (Argentina) Contributions of Biotechnology to Asparagus Breeding in Argentina

Sergio E. Feingold, Gabriela A. Massa, Natalia S. Norero (Argentina), Jim Lorenzen (USA/Uganda) Potato Functional Genetics

Pablo Marinangeli, Nestor Curvetto (Argentina) Improvement of *in Vitro* Plant Regeneration for Genetic Transformation of Argentinean Onion Varieties

Marina Sisterna, Santiago Sarandón (Argentina) Wheat Grain Discoloration in Argentina: Current Status

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

Andrea M. Clausen, Verónica N. Ispizúa, Ariana Digilio (Argentina) Native Andean Potato Varieties in Argentina: Conservation and Evaluation of an Endangered Genetic Resource

Sandra García Lampasona, José Luis Burba (Argentina), Philipp W. Simon (USA) Molecular Markers: Are They Really Useful to Detect Genetic Variability in Local Garlic Collections?

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

Edmundo L. Ploschuk, Liliana B. Windauer (Argentina) Development of New Perennial Oil-Crops for Marginal Environments: Productivity of *Lesquerella mendocina* under Different Nitrogen Availability

Paula Calvo, Alicia Carrera, Enrique Sánchez, Mónica Poverene (Argentina) Genetic Diversity in Wild Apple (*Malus sp.*) Populations in Argentina

Natacha P. Chacoff, Carolina L. Morales, Lucas A. Garibaldi, Lorena Ashworth, Marcelo A. Aizen (Argentina) Pollinator Dependence of Argentinean Agriculture: Current Status and Temporal Analysis

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

SI 1

Kevin Baron, Claudio Stasolla (Canada) The Role of Stress during *in Vivo* and *in Vitro* Plant Reproductive Development: Implications for Cropping Systems and Germplasm Enhancement in Canada

M. Aminul Islam, Rona N. Sturrock, Abul K.M. Ekramoddoulla (Canada) Conifer Chitinases

Godfrey P. Miles (USA), Marcus A. Samuel (Canada) Living in the O-zone: Ozone Formation, Ozone-Plant Interactions and the Impact of Ozone Pollution on Plant Homeostasis

Mohammad Khakbazan, Cliff Hamilton, Ramona Mohr, Cynthia Grant (Canada) Water and Nutrient Crop Sufficiency Models for Potato, Wheat, Canola, Oats, Alfalfa, and Corn

Jaswinder Singh, Michael Ngadi, Anuradha Varier, Suha Jabaji (Canada) Jerusalem Artichoke: An Emerging Crop for Bioenergy and Bioproducts in North America

Bin Zhu, Bao-Luo Ma (Canada) Genetically-Modified Crop Production in Canada: Agronomic, Ecological and Environmental Considerations

Hugo Germain, Xin Li (Canada) Research on Molecular Plant-Microbe Interactions in Canada

Teresa de Kievit, Bee Hameeda, Carrie Selin, W. G. Dilantha Fernando (Canada) Using Molecular Techniques to Understand and Enhance Biological Control by *Pseudomonas* spp.

SI 2

Jun-Jun Liu, Abul K. M. Ekramoddoullah (Canada) Stable Reporter Gene Expression in Western White Pine (*Pinus monticola* Dougl. ex D. Don) by *Agrobacterium*-mediated Genetic Transformation

Godfrey P. Miles (USA), Rishi I. S. Gill (India), Marcus A. Samuel (Canada) Ectopic Overexpression of SIPK in Poplar Renders Plants Hypersensitive to Ozone

Karen L. Bailey (Canada), Wayne M. Pitt (Australia), Jo-Anne Derby, Stephen Walter, Wesley Taylor (Canada), Stuart Falk (USA) Efficacy of *Phoma macrostoma*, a Bioherbicide, for Control of Dandelion (*Taraxacum officinale*) Following Simulated Rainfall Conditions

Michael W. Harding, Lyriam L. R. Marques, Ronald J. Howard, Merle E. Olson (Canada) Biofilm Morphologies of Plant Pathogenic Fungi

Allen G. Xue, Sylvie Rioux, Malcolm J. Morrison, Yuanhong Chen, Jinxiu Zhang, Weikai Yan (Canada) Resistance and Tolerance to Sclerotinia Stem Rot in Selected Short-Season Soybean Cultivars in Canada

Gefu Wang-Pruski, Robert H. Coffin, Rick D. Peters, Khalil I. Al-Mughrabi, Harold W. Platt, Devanand Pinto, Stephanie Veenhuis-MacNeill, William Hardy, Sangyuh Lim, Tess Astatkie (Canada) Phosphorous Acid for Late Blight Suppression in Potato Leaves

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*

Khalil I. Al-Mughrabi, Appanna Vikram, René Poirier (Canada) Effect of Saponins of *Chenopodium quinoa* Applied as Seed or Foliar Treatments on Dry Rot, Common Scab and Black Scurf Diseases of Potato

The Asian and Australasian Journal of Plant Science and Biotechnology

SPECIAL ISSUE: Kazakhstan 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

Saule Atabayeva, Batyrbek Sarsenbayev (Kazakhstan), Majeti Narashimha Vara Prasad (India), Jaime A. Teixeira da Silva (Japan), Shahizada Kenzhebayeva, Bakdaulet Usenbekov, Yerlan Kirshibayev, Saltanat Asrandina, Aizhan Beisenova, Alevtina Danilova, Yuryu Kotuhov (Kazakhstan) Accumulation of Trace Metals in Grasses of Kazakhstan: Relevance to Phytostabilization of Mine Waste and Metal-smelting Areas

Amangeldy K. Bissenbaev, Nazgul A. Altybaeva, Albina A. Musina (Kazakhstan) Role of Reactive Oxygen Species and Nitric Oxide in Gibberellic Acid-Induced Programmed Cell Death of Wheat Aleurone Layer Cells

Amangeldy K. Bissenbaev (Kazakhstan), Murat K. Saparbayev (France) Gibberellin-induced Nuclear Ca^{+2} -dependent Deoxyribonucleases and DNA Glycosylases Regulate DNA Degradation of Wheat Aleurone Cells Undergoing Programmed Cell Death

Nadejda Gemedjieva (Kazakhstan), Jaime A. Teixeira da Silva (Japan), Natalya Ryabushkina (Kazakhstan) Representation of Endemics in Floristic Subprovinces of Kazakhstan

Olga I. Kershanskaya (Kazakhstan), Jaime A. Teixeira da Silva (Japan) Photosynthetic Basis for Wheat Crop Improvement:

Alma Kokhmetova (Kazakhstan), Xianming Chen (USA), Shynbolat Rsaliyev (Kazakhstan) Identification of *Puccinia striiformis* f.sp. *tritici*. Characterization of Wheat Cultivars for Resistance, and Inheritance of Resistance to Stripe Rust in Kazakhstan Wheat Cultivars

Irina Kovalchuk, Timur Turdiev, Svetlana Kushnarenko, Izbasar Rakhimbaev (Kazakhstan), Barbara M. Reed (USA) Cryopreservation of Raspberry Cultivars: Testing Techniques for Long-Term Storage of Kazakhstan's Plant Germplasm

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

Anna S. Nizkorodova, Bulat K. Iskakov (Kazakhstan) Cell-Free Synthesis Optimization of Barley Vacuolar Na⁺/H⁺-Antiporter, a Highly Hydrophobic Protein

Rsaliyev Shynbolat, Tileubayeva Zhanar, Agabayeva Altynkul, Rsaliyev Aralbek (Kazakhstan) Virulence of Wheat Leaf, Stem and Yellow Rust Pathotypes in Kazakhstan

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

Rsaliyev Shynbolat, Rsaliyev Aralbek (Kazakhstan) Evaluation of Leaf Rust Resistance Genes in Durum Wheat Varieties in Kazakhstan

Aigul Abugalieva (Kazakhstan), Roberto J. Peña (Mexico) Grain Quality of Spring and Winter Wheat of Kazakhstan

Asil Nurzhanova, Izbasar Rakhimbaev, Kabl Zhambakin, Anatoly Sedlovskiy (Kazakhstan) The Problem of Obsolete Pesticides Pollution for the Kazakhstan Environment and Soil Remediation by Wild Plants

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

Ehab AbouKheir, Trichy Ganesh Prasad, Madavalam Sreeman Sheshshayee, Makarla Udayakumar (India) Dual Stable Isotopes Carbon (¹³C) and Oxygen (¹⁸O) – An Approach to Identify Desirable Cotton Lines

Esmail Bakhshandeh, Rahman Ghadiryan, Behnam Kamkar (Iran) A Rapid and Non-Destructive Method to Determine the Leaflet, Trifoliolate and Total Leaf Area of Soybean

Swarnendu Chandra, Soumya Chatterjee, Krishnendu Acharya (India) Biological Control of Fruit Rot and Die Back Disease of *Capsicum annuum* with *Pseudomonas aeruginosa* WS-1

Mohd. Idrees, M. Masroor A. Khan, Tariq Aftab, M. Naeem (India) Synergistic Effects of Gibberellic Acid and Triaccontanol on Growth, Physiology, Enzyme Activities and Essential Oil Content of *Coriandrum sativum* L.

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

S. Sree Lekha, J. Sree Kumar, Santha V. Pillai (India) Assessing Genetic Diversity of Indian Cassava: A Comparison of Old and New Collections Using Microsatellite Markers

Shabir H. Wani, Ajaz A. Lone (India), Jaime A. Teixeira da Silva (Japan), Satbir S. Gosal (India) Effects of NaCl Stress on Callus Induction and Plant Regeneration from Mature Seeds of Rice (*Oryza sativa* L.)

Gaurav Aggarwal, Amarjit Kaur Nath, Chhaya Sharma, Satya Vrat Bhardwaj, S.K. Chakaravarty (India) Characterization of *Prunus armeniaca* L. Germplasm using RAPDs

Chitra Rajagopal, E. Vadivel (India) *In Vitro* Organogenesis in *Phyllanthus amarus* Schum. and Thonn.

I. N. Bheema Lingeswara Reddy, D. Srinivas Reddy, M. Lakshmi Narasu, S. Sivaramakrishnan (India) Development and Evaluation of SCAR Marker for Blast Resistance in Finger Millet (*Eleusine coracana* (L.) Gaertn)

Ashok K. Agarwal, Govind S. Rajwar (India) Macrophytes of Tehri Dam Reservoir, Garhwal Himalaya, 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

István Gondola, Peter P. Papp (Hungary) Origin, Geographical Distribution and Phylogenetic Relationships of Common Buckwheat (*Fagopyrum esculentum* Moench.)

Rajinder S. Chauhan, Nidhi Gupta, Sunil K. Sharma, Jai C. Rana, Tilak R. Sharma, Sakti Jana (India) Genetic and Genome Resources in Buckwheat – Present Status and Future Perspectives

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

Jovanka Miljuš-Đukić, Bojana Banović, Slavica Ninković, Svetlana Radović (Serbia) The Heteromorphic Sporophytic Self-Incompatibility System of Buckwheat (*Fagopyrum esculentum* Moench)

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

Irén Léder, Nóra Adányi, Hussein G. Daood, Ágnes Sass-Kiss, Ágnes Kardos-Neumann (Hungary) Study of the Composition and Radical Scavenging Capacity of Buckwheat Seed and Buckwheat Leaf Flour of Two Cultivars Grown in Hungary

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

Carolin Ötschläger, 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

Irén Léder, Nóra Adányi, Ágnes Sass-Kiss, Ágnes Kardos-Neumann (Hungary) Investigation of New Food Processing Possibilities for Buckwheat

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

Natalia V. Budagovskaya (Russia) Rapid Response Reactions of Buckwheat Plant Shoots to Changes in Sodium Chloride Concentration at the Root Zone and Blockage of Calcium Channels

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?

Andrea Plackova (Slovakia), Maria Geneva, Yuliana Markovska (Bulgaria), Ivan Salamon (Slovakia), Ira Stancheva (Bulgaria) Antioxidant Potential of Marigold (*Calendula officinalis* Linn.) Flowers Grown in Slovakia and Bulgaria

Transgenic Plant Journal

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

Gustavo A. Fermin, Luz T. Castro (Venezuela), Paula F. Tennant (Jamaica) CP-Transgenic and non-Transgenic Approaches for the Control of Papaya Ringspot: Current Situation and Challenges

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

Laura Silva-Rosales, Diego González-de-León, Salvador Guzmán-González, 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

Sunee Kertbundit (Thailand/Czech Republic), Miloslav Juříček (Czech Republic) Application of Transgenic Technologies to Papaya: Developments and Biosafety Assessments in Thailand

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

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

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

Namthip Phironrit, Bencharong Phaungrat, Parichart Burns, Wichai Kositratana (Thailand) Resistance of Coat Protein Transgenic Papaya and Development of Homozygous Transgenic Papaya Line 116/5 Resistant to *Papaya ringspot virus* (PRSV) under Screenhouse Conditions in Thailand

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*

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 Issues 1 & 2

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

Yohannes Ogbalidet Drar (Eritrea), Anthony Keith Thompson (Eritrea/UK) Challenges for Certified Organic Banana Production in Eritrea

Mathiyazhagan Kavino, Sankarasubramanian Harish (India/Taiwan R.O.C.), Duraisamy Saravanakumar, Prabhakaran Jeyakumar, Neelakandan Kumar, Ramasamy Samiyappan (India) Biological Hardening - A New Approach to Enhance 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

Savarimuthu Mukunthakumar, Govindh Praveen, Sooriamuthu Seeni (India) Rapid Propagation of Two Seedless Diploid (AB) Land Races of *Musa* through *in Vitro* Culture of Shoot and Inflorescence Apices

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

Charles Staver, Inge van den Bergh (France), Eldad Karamura, Guy Blomme (Uganda), Thierry Lescot (France) Targeting Actions to Improve the Quality of Farmer Planting Material in Bananas and Plantains – Building a National Priority-setting Framework

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 Azerefegne, 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)

Eyob Tadesse, Ferdu Azerefegne, Tameru Alemu (Ethiopia), Guy Blomme (Uganda), Temesgen Addis (Ethiopia) The Effect of Insecticides against the Root Mealybug (*Cataenococcus ensete*) of *Ensete ventricosum* in Southern Ethiopia

Godfrey Taulya, Piet van Asten, Kephass Nowakunda, Phoebe Kaddu-Mukasa (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

Raman Thangavelu, Mohammed Mustaffa (India) A Potential Isolate of *Trichoderma viride* NRCB1 and its Mass Production for the Effective Management of Fusarium Wilt Disease in Banana

Roberto C. Togawa, Candice Mello Romero Santos, Robert N. G. Miller (Brazil), Manoel Teixeira Souza Júnior (The Netherlands), Natália Florêncio Martins (Brazil) DATAMusa - a Database for Ortholog Genes from *Musa*

Masamba Jean Walangululu, Murhonyi Rodrigue Matara, Lukangira Bahati (Rwanda), Célestin Niyongere (Burundi), Pascale Lepoint, Guy Blomme (Uganda) Assessing the Spread and Seasonal Influence of Fruit Peel Disease and Banana Bunchy Top Disease in South Kivu, Eastern DR-Congo