

Agricultural Research

Abstract Book

From the 4th Annual International
Symposium on Agricultural Research

18-21 July 2011,

Athens, Greece.

Edited by Gregory T. Papanikos



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Preface

This abstract book includes all the abstracts of the papers presented at the *4th Annual International Symposium on Agricultural Research, 18-21 July 2011*, organized by the Athens Institute for Education and Research. In total there were 63 papers and 69 presenters, coming from 24 different countries (Algeria, Austria, Belgium, Canada, Chile, China, Costa Rica, Egypt, Estonia, Finland, Germany, Hungary, India, Iran, Ireland, Malaysia, Mexico, the Philippines, Poland, South Africa, Thailand, Turkey, the United States of America, and Uruguay). The conference was organized into 14 sessions that included areas such as Policy Issues, Crops, Environment, e.t.c. As it is the publication policy of the Institute, the papers presented in this conference will be considered for publication in one of the books of ATINER.

The Institute was established in 1995 as an independent academic organization with the mission to become a forum where academics and researchers from all over the world could meet in Athens and exchange ideas on their research and consider the future developments of their fields of study. Our mission is to make ATHENS a place where academics and researchers from all over the world meet to discuss the developments of their discipline and present their work. To serve this purpose, conferences are organized along the lines of well established and well defined scientific disciplines. In addition, interdisciplinary conferences are also organized because they serve the mission statement of the Institute. Since 1995, ATINER has organized more than 100 international conferences and has published over 100 books. Academically, the Institute is organized into four research divisions and nineteen research units. Each research unit organizes at least one annual conference and undertakes various small and large research projects.

I would like to thank all the participants, the members of the organizing and academic committee and most importantly the administration staff of ATINER for putting this conference together.

Gregory T. Papanikos
President

FINAL CONFERENCE PROGRAM

Athens Institute for Education and Research **Arts & Sciences Research Division** **Environment & Agriculture Research Unit**

4th Annual International Conference on Agriculture
18-21 July 2011, Athens, Greece



Conference Venue: Titania Hotel, 52 Panepistimiou Avenue, Athens, Greece

Organization and Scientific Committee

- Dr. Gregory T. Papanikos, President, ATINER.
- Dr. Nicholas Pappas, Vice-President of Academics ATINER & Professor, Sam Houston University, USA.
- Dr. Costas Stathopoulos, Deputy Head, Environment and Agriculture Research Unit of ATINER & Lecturer, University of Newcastle, Australia.
- Dr. Eva Maleviti, Researcher, ATINER.
- Dr. Theofilos Theophanides, Head, Environment Research Unit, ATINER & Professor, Department of Chemical Engineering, National Technical University of Athens, Greece.
- Dr. John Hayes, Professor, Clemson University, USA.
- Dr. Reha Onur Azizoglu, Postdoctoral Research Associate, College of Veterinary Medicine, North Carolina State University, USA.
- Dr. Salah Er-Raki, Professor, University of Cadi Ayyad, Morocco.
- Ms. Lila Skountridaki, Researcher, ATINER & Ph.D. Student, University of Strathclyde, U.K.

Administration

Fani Balaska, Chantel Blanchette, Stavroula Kiritsi, Eirini Lentzou,
Konstantinos Manolidis, Katerina Maraki & Sylia Sakka

Monday 18 July 2011

08:00-08:30 Registration

08:30-09:00 Welcome and Opening Remarks

- Dr. Gregory T. Papanikos, President, ATINER.
- Dr. Costas Stathopoulos, Deputy Head, Environment and Agriculture Research Unit of ATINER & Lecturer, University of Newcastle, Australia.
- Dr. Nicholas Pappas, Vice-President of Academics, ATINER & Professor, Sam Houston University, USA.

09:00-11:00 Session I (Room A): Energy Crops-Waste

Chair: Pappas, N., Vice-President of Academics, ATINER & Professor, Sam Houston University, USA.

1. Madani, A., Professor, Nova Scotia Agricultural College, Canada, Gordon, R., Wood, J., Smith, E., Haverstock, M., Carreau, R., & Stratton, G., Nova Scotia Agricultural College, Canada. Using Constructed Wetlands to Treat Agricultural Wastewater.
2. Diepenbrock, W., Full Professor, Martin-Luther-University of Halle, Germany. Energy Balancing in Crop Production.
3. Almodares, A., Associate Professor, University of Isfahan, Iran & Goli, M., Graduate student, University of Isfahan, Iran. Bioethanol Production from Sweet Sorghum under Hot and Dry Climatic Condition.
4. Dallos, A., Associate Professor, University of Pannonia, Hungary, Hoffmann, S., Professor, University of Pannonia, Hungary, Tóth, Z., University of Pannonia, Hungary, Tollar, A.N., University of Pannonia, Hungary, Hoffmann, B., University of Pannonia, Hungary & Marton, C., Agricultural Research Institute of the Hungarian Academy of Sciences, Hungary. Studies on New Corn Hybrids for Bioethanol Industries in Hungary.
5. *Zekker, I., Ph.D. Student, Institute of Chemistry, University of Tartu, Estonia, Rikmann, E., Institute of Chemistry, University of Tartu, Estonia, Tenno, T., Institute of Chemistry, University of Tartu, Estonia, Menert, A., Tallinn University of Technology, Estonia, Kroon, K., Institute of Chemistry, University of Tartu, Estonia, Tomingas, M., Institute of Chemistry, University of Tartu, Estonia, Vabamäe, P., Institute of Chemistry, University of Tartu, Estonia & Tenno, T., Institute of Chemistry, University of Tartu, Estonia. Anaerobic Ammonium Oxidation Process Performance with Optimum Bicarbonate Concentration.

<p>11:00-13:00 Session II (Room A): Crops I Chair: Maleviti, E., Researcher, ATINER.</p>	<p>11:00-13:00 Session III (Room B): Policy Issues I Chair: Kefalaki, M., Researcher, ATINER.</p>
<ol style="list-style-type: none"> 1. Johnston, W., Professor, Washington State University, USA, Dodson, K.L., Washington State University, USA, Silbernagel, D.A., Washington State University, USA, Johnson, R.C., Washington State University, USA & Golob, C.T., Washington State University, USA. Kentucky Bluegrass (<i>Poa pratensis</i> L.) Germplasm for Seed Production without Field Burning. 2. Modhej, A., Faculty Member, Islamic Azad University, Shoushtar Branch, Iran & Jafari, S., Islamic Azad University, Shoushtar Branch, Iran. Effect of Common Mallow (<i>Mava spp</i>) Competitiveness on Grain Yield and Yield Components in Wheat under Different Levels of Nitrogen. 3. Suheri, S., Research Assistant, Selcuk University, Turkey, Yavuz, D., Research Assistant, Selcuk University, Turkey & Topak, R., Professor, Selcuk University, Turkey. Determining Yield Response Factor of Sugarbeet in Konya Region. 	<ol style="list-style-type: none"> 1. Gajewska, M., Ph.D. Student, Wroclaw University of Economics, Poland. The Agricultural Productive Cooperatives in Poland. 2. Kalandarova, U., Researcher, University College Cork, Ireland. Analysis of community based rural development project implemented by LEADER program: Case Study in North Tipperary region, Ireland. 3. Grammatikopoulou, I., Researcher, MTT Agrifood Research, Finland, Sami, M., Researcher, MTT Agrifood Research, Finland & Eija, P., Professor, Researcher, MTT Agrifood Research, Finland. How Does the Proximity of a Field Plot Affect Land-Use Choices? Using Stated Preference Data to Examine Landowners' Preferences.

12:30-13:30 LUNCH

<p>14:00-16:00 Session IV (Room B): Soil Chair: Grammatikopoulou, I., Researcher, MTT Agrifood Research, Finland</p>
<ol style="list-style-type: none"> 1. Sager, M., Deputy Head, Austrian Agency for Health and Food Safety (AGES), Austria. Input of Accessory Elements from Various Mineral and Organic Fertilizers to Arable Soils. 2. Seyedashrafy, H., Ph.D. Student, Young Researchers Club, Arak Branch, Islamic Azad University, Arak, Iran, Majidian, M., Department of Crop Production and Plant Breeding, College of Agriculture, University of Guilan, Rasht, Iran, Baghaie, A.H., College of Agriculture and Natural Resources, Islamic Azad University, Arak Branch, Arak, Iran & Gomarian, M., College of Agriculture and Natural Resources, Islamic Azad University, Arak Branch, Arak, Iran. Soil Extractable Zn and the Translocation Factor in the Barley as Affected by Organic and Inorganic Zn Sources. 3. Majidian, M., Assistant Professor, University of Guilan, Rasht, Iran, Tarighi, H., Student, Islamic Azad University, Arak Branch, Young Researchers Club, Arak, Iran, Baghaie, A.H., Islamic Azad University, Arak Branch, Department of Agronomy and Plant Breeding, Arak, Iran & Gomarian, M., Islamic Azad University, Arak Branch, Department of Agronomy and Plant Breeding, Arak, Iran. Zn Efficiency in Two Wheat Cultivars in Soil Amended with Organic and Inorganic Amended Soil. 4. Abdel-Salam Mahmoud, M.S., Head of Microbial Genetics Department, National Research Centre, Egypt. Extension of Rhizobial/plant Host Range and Symbiosis Improvement via Plasmid Transfer. 5. Guzman Hernandez, T., Professor, Instituto Tecnológico de Costa Rica, Costa Rica. Diagnosis and Population Dynamics of Nematodes in Two Pineapple Crop Systems in Costa Rica. 6. Gonzales, N.A, Researcher, Ifugao State University (IFSU), Philippines. Shell Power: Managing the Giant Earthworms (<i>Pheretima Elongata</i>) with <i>Melanoides Granifera</i> to Save the Ifugao Rice Terraces (Irt).

<p>16:00-17:30 Session V (Room A): Crops II Chair: Anil Kumar, H. V., Associate Professor, DVS College of Arts & Science, India.</p>	<p>16:00-17:30 Session VI (Room B): Environment I Chair: Sager, M., Deputy Head, Austrian Agency for Health and Food Safety (AGES), Austria.</p>
<ol style="list-style-type: none"> 1. Garcia Lamothe, A., Principal Researcher, National Agriculture Research Institute, Uruguay & de Ackermann, M.D., Researcher, National Agriculture Research Institute, Uruguay. Nitrogen Fertilization and Chemical Fungal Disease Control in No-Till Wheat. 2. Chan, L.-K., Lecturer, University Sains Malaysia, Malaysia. In Vitro Culture System For The Production of Artemisinin From <i>Artemisia Annu L.</i>: An Important Anti-Malarial Plant. 3. *Babadoost, M., Professor, University of Illinois at Urbana-Champaign, USA. Phytophthora Blight (<i>Phytophthora capsici</i>) of Pepper and Its Management. 4. Fang, S., Associate Research Fellow, Chinese Academy of Meteorological Sciences, China & Guili, H., Chinese Academy of Meteorological Sciences, China. Winter Wheat Yields Decline with Spring Higher Night Temperature by Controlled Experiments. 5. Karaca, M., Ph.D., Selcuk University, Turkey & Guncan, A., Professor, Selcuk University, Turkey. Economic Thresholds of <i>Bifora Radians</i> Bieb. and <i>Centaurea Depressa</i> Bieb. in Winter Wheat Fields. 	<ol style="list-style-type: none"> 1. Jimenez-Sierra, C.L., Professor, Universidad Autónoma Metropolitana-Iztapalapa, Mexico. Mexican Cactaceae and the Risks they are Facing. 2. Araya, J., Professor, Universidad de Chile, Chile, Huerta, A., Professor, Universidad de Chile, Chile, Puga, K., Forestry Engineer, Universidad de Chile, Chile & Gazmuri, C., Ph.D. Student, Universidad de Chile, Chile. Assessment of Damage by Insects and Fungi from <i>Austrocedrus chilensis</i> (Cupressaceae) in Central Chile. 3. Alfaro, M., Associate Professor, University of Puerto Rico, USA & Estrella-Riollano, A., Graduate Student, University of Puerto Rico, USA. Ecological Significance of the Asian Clam <i>Curbicula Fluminea</i>, an Aquatic Invasive Species of Puerto Rico, on the Community Structure in a Tropical Freshwater Reservoir. 4. Huddle, J., Assistant Professor, University of Nebraska, USA, Awada, T., University of Nebraska, USA, Martin, D., University of Nebraska, USA, Zhou, X., University of Nebraska, USA, Smith, T., University of Nebraska, USA & Stockton, R., Southwest Nebraska Resource Conservation and Development, USA. How Overstory Cover and Thinning Impacts Understory Vegetation in a Riparian Forest in Nebraska, USA. 5. Gilbert, S., Ph.D. Student, University of Turku, Finland, Norrdahl, K., University of Turku, Finland & Martel, J., York University, Canada. Only Extreme Vole Densities Limit the Establishment of Long-lived Plants in Riparian Field Margins. 6. Gwata, E.T., Senior Lecturer Scientist, University of Venda, South Africa & Mzezewa, J., The University of Venda, South Africa. Implications for Crop Production at a Semi-arid Ecotope in the Limpopo Basin in South Africa. 7. Karami, M., Assistant Professor, Sabzevar Tarbiat Moallem University, Iran & Baaghdeh, M., Assistant Professor, Sabzevar Tarbiat Moallem University, Iran Studying the Possibility of Using the NDVI Index to Analyze and Monitor Droughts in Esfahan Province, Iran.

17:30-19:30 Session VII (Room B): Animals

Chair: Alfaro, M., Associate Professor, University of Puerto Rico, USA

1. Afrasiabi Navan, Z., Associate Professor, Lincoln University, USA. Gold Nanoparticle Based Nanosensor for Accurate Detection of Luteinizing Hormone.
2. Kocaturk, M., Ph.D. Student, Veterinary Medicine of Uludag University, Turkey, Yilmaz, Z., Professor, Veterinary Medicine of Uludag University, Turkey, Eralp, O., Veterinary Medicine of Uludag University, Turkey, Cansev, M., Uludag University, Turkey & Ceron, J.J., Veterinary Medicine of Murcia University, Spain. Effects of Intravenous Choline Treatment on Acute Phase Proteins and Cardiac Function in Dogs with Endotoxemia.
3. Abdel-Rahman, S.M., Associate Professor, Genetic Engineering and Biotechnology Research Institute, Egypt. Efficiency of Bovine IGF-I Gene in the Improvement of Milk Productivity Using Marker-Assisted Selection (MAS).
4. Hassanein, K., Lecturer, Assiut University, Egypt. Histopathological Effects of 2,4-Dichlorophenoxyacetic Acid on Sprague -Dawley Rats with a Special Reference to its Possible Carcinogenicity.

21:00-23:00 Greek Night and Dinner

Tuesday 19 July 2011

<p>08:00-10:30 Session VIII (Room A): Crops III Chair: *Zekker, I., Ph.D. Student, Institute of Chemistry, University of Tartu, Estonia</p>	<p>08:00-10:30 Session IX (Room B): Environment II Chair: *Ruiz Rojas, J.L., Professor, University Autonoma of Chiapas, Mexico.</p>
<ol style="list-style-type: none"> 1. Adeli, A., Research Soil Scientist, United States Department of Agriculture, Agricultural Research Service, USA, Brooks, J.P., Microbiologist, United States Department of Agriculture, Agricultural Research Service, USA & Jenkins, J., Researcher Leader, United States Department of Agriculture, Agricultural Research Service, USA. Animal and Industrial By-Products Management Strategies for Sustainable Agricultural Production System and Environmental Quality. 2. Ashouri, M., Assistant Professor, Islamic Azad University, Lahijan Branch, Iran. Effects of Nitrogen Fertilizer Levels on Nitrogen Use Efficiency and Yield of Rice under Different Irrigation Regimes. 3. Gokbayarak, Z., Associate Professor, Çanakkale Onsekiz Mart University, Turkey, Soylemezoglu, G., Associate Professor, Ankara University, Turkey, Cakir, A., Associate Professor, Ankara University, Turkey & Ergul, A., Associate Professor, Ankara University Biotechnology Institute, Turkey. Virus Free Grape Plants Display Different Enzyme Profiles and Graft Compatibility Ratios with Rootstocks. 4. Pobudkiewicz, A., Scientist, Institute of Horticulture, Poland. The Influence of Flurprimidol on Pot Chrysanthemum Growth and Reduction of Water Consumption by Plants. 5. Nzungize Rusagara, J., Ph.D. Student, University of Liege, Belgium & Gepts, P., University of Liege, Belgium, Buruchara, R., University of Liege, Belgium, Buah, S., University of Liege, Belgium, Ragama, P. University of Liege, Belgium, Busogoro, J.P., University of Liege, Belgium & Baudoin, J.P. University of Liege, Belgium. Pathogenic and Molecular Characterization of Pythium Species Inducing Root Rot Symptoms of Common Bean in Rwanda. 	<ol style="list-style-type: none"> 1. Seraiche-Dahamna, S., Professor, University Ferhat Abbas, Algeria, Bouamra, D., Professor, University Ferhat Abbas, Algeria, Harzallah, D., Professor, University Ferhat Abbas, Algeria, Machtoub, R., Student, University Ferhat Abbas, Algeria & Mahdaoui, B., Student, University Ferhat Abbas, Algeria. Toxicity of Expired and Unexpired Trichlorfon: A Comparative Study. 2. Westerdahl, B., Professor, University of California, USA. Cultural and Biological Methods for Management of Plant Parasitic Nematodes. 3. Yang, Y.F., Professor, Jinan University, China. Mariculture Development and Environmental Protection of the Coastal Waters in China. 4. Vuddhakul, V., Associate Professor, Prince of Songkla University, Thailand, Thongchankaew, U., Prince of Songkla University, Thailand, Srinitiworawong, K. Prince of Songkla University, Thailand & Plathong, S., Prince of Songkla University, Thailand. Investigation of <i>Vibrio</i> spp. at the Andaman Sea, Thailand. 5. Mzezewa, J., Lecturer, University of Venda, South Africa & Gwata, E.T., Senior Lecturer Scientist, University of Venda, South Africa. Characterization of the Long-Term Rainfall Pattern at a Semi-Arid Ecotope in the Limpopo Basin in South Africa. 6. Yavuz, D., Research Assistant, Selcuk University, Turkey, Suheri, S., Research Assistant, Selcuk University, Turkey & Topak, R., Professor, Selcuk University, Turkey. Determining Energy Consumption of Sprinkler Irrigation in Different Crops at Konya Plain.

10:30-12:00 Session X (Room A): Crops IV Chair: Gwata, E.T., Senior Lecturer Scientist, University of Venda, South Africa.	10:30-12:00 Session XI (Room B): Policy Issues II Chair: Westerdahl, B., Professor, University of California, USA.
<ol style="list-style-type: none"> 1. Panasiewicz, K., Professor, Poznań University of Life Sciences, Poland, Koziara, W., Professor, Poznań University of Life Sciences, Poland & Sulewska, H., Professor, Poznań University of Life Sciences, Poland. The Reaction of Different Forms of Oats to Sprinkler Irrigation and Nitrogen Fertilization. 2. Ozaslan Parlak, A., Associate Professor, Canakkale Onsekiz Mart University, Turkey, Gökkuş, A., Canakkale Onsekiz Mart University, Turkey & Ayhan, C., Canakkale Onsekiz Mart University, Turkey. Effects of Presowing Treatments on Germination of Seeds of Onobrychis Species. 3. Anil Kumar, H. V., Associate Professor, DVS College of Arts & Science, India & Munirajappa, Professor, Bangalore University, India. Morphometric Biomass and Nutritive Evaluation of EMS Mutagenised Morus Species (Genotype RfS₁₃₅). 4. Subramaniam, S., Senior Lecturer, University Sains Malaysia, Malaysia, James, J., Postgraduate Student, University Sains Malaysia, Malaysia, Keng, C.L., University Sains Malaysia, Malaysia & Rathinam, X., AIMST University, Malaysia. Cryopreservation of Dendrobium Bobby Messina Protocorm- Like Bodies by Encapsulation-Dehydration Technique. 5. Ozpinar, A., Professor, Canakkale Onsekiz Mart University, Turkey, Serez, M., Professor, Canakkale Onsekiz Mart University, Turkey, Polat, B., Professor, Canakkale Onsekiz Mart University, Turkey & Ozpinar, S., Professor, Canakkale Onsekiz Mart University, Turkey. Leafminer (<i>Cameraria ohridella</i> Deschke & Dimic, 1986, Lepidoptera: Gracillariidae), the pest of horse chestnut (<i>Aesculus hippocastanum</i>) in Marmara Region of Turkey. 	<ol style="list-style-type: none"> 1. Shirmohammadi, A., Professor & Associate Dean, University of Maryland, USA & Wei, C.I., Professor and Dean, University of Maryland, USA. Environmental Challenges for Agro-Ecosystems and Research Opportunities. 2. *Ruiz Rojas, J.L., Professor, University Autonoma of Chiapas, Mexico. Development Perspectives for Production of Organic Milk in the State of Chiapas, Mexico. 3. Vassalos, M., Ph.D. Student, University of Kentucky, USA & Dillon, C.R., Professor, University of Kentucky, USA. Going Organic or Conventional? A Case Study for the Farm Specific Factors Affecting the Transition to Organic Farming in Lake Kerkini Region: Greece. 4. Konyali, A., Academic, Çanakkale Onsekiz Mart University, Turkey. A Woman's Point of View on Goat Production.

12:00-14:00 Session XII (Room A): Crops V Chair: Shirmohammadi, A., Professor & Associate Dean, University of Maryland, USA	12:00-14:00 Session XIII (Room B): Microbiology - Entomology Chair: Vassalos, M., Ph.D. Student, University of Kentucky, USA
<ol style="list-style-type: none">1. Ozpinar, S., Professor, Canakkale Onsekiz Mart University, Turkey & Ozpinar, A., Professor, Canakkale Onsekiz Mart University, Turkey. Impact of Agronomic Practices on Weeds of Winter Wheat-Vetch/Maize Rotation in a Semiarid Region: Tillage Systems.2. Vellidis, G., Professor, University of Georgia, USA. Variable Rate Application of Nitrogen on Cotton in Georgia, USA.	<ol style="list-style-type: none">1. *Bastos, A., Associate Professor, University of Pretoria, South Africa & Lubisi, B.A., Head of Virology, ARC-Onderstepoort Veterinary Institute, South Africa. Molecular Evolutionary Analyses of the Genotype I Virus Causing Widespread, Historical African swine fever Outbreaks Provides Insights into the Sylvatic Origin and Spread of the Virus.2. Huerta, A., Professor, University of Chile, Chile, Chiffelle, I., University of Chile, Chile, Celis, M., University of Chile, Chile & Araya, J.E., University of Chile, Chile. Insecticidal Effect from <i>Schinus molle</i> Leaves Extracts on <i>Xanthogaleruca luteola</i> larvae. (Coleoptera: Chrysomelidae).

14:00-15:00 Lunch

15:00-16:30 Session XIV (Room B): Food Chair: Stathopoulos, C., Deputy Head, Environment and Agriculture Research Unit of ATINER & Lecturer, University of Newcastle, Australia.
<ol style="list-style-type: none">1. Akin, A., Assistant Professor, Selcuk University, Turkey & Cital, O.B., Assistant Professor, Selcuk University, Turkey. Determination of Fatty Acid Composition of Plant Leaf Growth Period of <i>Vitis Vinifera</i> L. Müşküle Grown in Aladağ Valley in Turkey.2. Cital, O.B., Assistant Professor, Selcuk University, Turkey & Akin, A., Assistant Professor, Selcuk University, Turkey. Fatty Acid Composition of Three Different Pekmez in Konya, Turkey.3. Chockchaisawasdee, S., Lecturer, Loei Rajabhat University, Thailand, Kaopon, P., Lecturer, Loei Rajabhat University, Thailand & Wangkam, R., Lecturer, Loei Rajabhat University, Thailand. Effects of Gelling Agents on Some Characteristics of Sweeten Preserved Tangerine.4. Orhun, G.E., Lecturer, Canakkale 18 Mart University, Turkey. Maize Oil for Health Importance.5. El-Amir, Y., Lecturer, Assiut U., Egypt. Histopathological Studies on the Effect of Curcumin during N-Nitrosodiethylamine and Carbon Tetrachloride Induced Hepatocarcinogenesis in Rats.6. Aynehband, A., Associate Professor, University of Shahid Chamran, Iran. Agro-Environmental Assessment of Nitrogen Dynamic in Wheat Agroecosystem.

16:30-19:30 Urban Walk

20:00-21:00 Dinner

Wednesday 20 July 2011

Cruise: Departure at 07:00 Return at 20:30

Thursday 21 July 2011

Delphi Visit: Departure at 07:30 Return at 19:30

kept at relatively low numbers e.g. by restricting the carrying capacity of the vegetation, tree saplings may have good establishment opportunities in riparian field margins.

Zeliha Gokbayrak

Associate Professor, Çanakkale Onsekiz Mart University, Turkey.

Gokhan Soylemezoglu

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Virus Free Grape Plants Display Different Enzyme Profiles and Graft Compatibility Ratios with Rootstocks

Virus free plants of grapevine (*Vitis vinifera* L.) cultivars (Bozcaada Cavusu 110 and 161, Emir, Narince P1/4 and 11, Yapıncak, Round seedless, and Razakı 11/4) were tested for esterase and peroxidase enzymes using PAGE and their graft compatibility with the regular rootstocks (SO4, 1613C, 41B, 44-53 EM, 420A, 5C, 99R, 110R, 140Ru, 1103P, 5BB, and 8B) were determined. Compatibility was attained according to the common bands shared both by the rootstocks and scions. Results showed that compatibility ratios ranged between 20-57% in peroxidase and 0-86% in esterase. The most compatible combination was between Narince plants and 1103P in peroxidase, and between Round seedless and the stocks, 99R, 5C, SO4, and 420A in the esterase. Yapıncak showed no compatibility at all with the rootstock 44-53 EM in the esterase.