Journal Editorial Board
ISSN: 2158-2742 (Print)  ISSN: 2158-2750 (Online)
http://www.scirp.org/journal/ajps

Editor-in-Chief
Dr. Sukumar Saha
US Department of Agriculture, USA

Editorial Board
Prof. Ibrikhim Abdurakhmonov
Academy of Sciences of Uzbekistan, Uzbekistan
Dr. Ashok Ahuja
Indian Institute of Integrative Medicine, India
Prof. Mehmet Emin Aydin
Selcuk University, Turkey
Dr. Efrem Bechere
US Department of Agriculture, USA
Dr. Ramesh Buyyarapu
Dow AgroSciences, USA
Dr. Salah El-Sayed El-Hendawy
Suez Canal University, Egypt
Prof. Kunshan Gao
Xiamen University, China
Prof. Li-Zhi Gao
Chinese Academy of Sciences, China
Dr. Melaku A. Gedil
International Institute of Tropical Agriculture, Ethiopia
Dr. Samuli Helama
University of Lapland, Finland
Dr. Chandra Prakash Kala
Indian Institute of Forest Management, India
Dr. Mehmet Karaca
Akdeniz University, Turkey
Prof. Kyoung-Woong Kim
Gwangju Institute of Science and Technology, South Korea
Dr. Stanislav Kopriva
John Innes Institute, UK
Dr. Süleyman Korkut
Duzce University, Turkey
Dr. Vikas Kumar
Banaras Hindu University, India
Prof. Din-Pow Ma
Mississippi State University, USA
Prof. Amit Mitra
University of Nebraska, USA
Dr. Adele Maria Muscolo
University Mediterranea di Reggio Calabria, Italy
Dr. P. K. Nagar
Institute of Himalayan Bioresource Technology, India
Prof. Maria Papafotiou
Agricultural University of Athens, Greece
Prof. Antonios Philippoussis
National Agricultural Research Foundation, Greece
Dr. Oscar J. Rocha
Kent State University, USA
Dr. R. R. Sharma
Indian Agricultural Research Institute, India
Dr. Toshiyuki Shibata
Mie University, Japan
Dr. Rajbir Singh
Directorate of Water Management, India
Dr. Sylvia Urban
RMIT University, Australia
Dr. Kailas Wasewar
Visvesvaraya National Institute of Technology, India
Dr. John Z. Yu
US Department of Agriculture, USA
Prof. Tianzhen Zhang
Nanjing Agricultural University, China
Prof. Wenjun Zhang
Sun Yat-sen University, China
Prof. Zhiqiang Zhou
China Agricultural University, China
Dr. Munir Hussein Zia
US Department of Agriculture, USA

Guest Reviewers
Hamed K. Abbas
Rosatto Hector Gustavo
Ogita Shinjiro
Patrick Covello
Yaoobo Hu
Robert D. Stipanovic
Sylvia Fernandez-Pavia
Mark Jackson
Juan Vazquez
Hiroshi Fukumoto
M. Krishnamurthi
Lingxiao Zhang
# TABLE OF CONTENTS

**Volume 4 Number 5**

**May 2013**

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect of Air Content on the Oxygen Diffusion Coefficient of Growing Media</td>
<td>D. Schmitz, R. Anlauf, P. Rehrmann</td>
</tr>
<tr>
<td>Molecular Analysis of Genetic Fidelity in Micropropagated Plants of <em>Stevia rebaudiana</em> Bert. Using ISSR Marker</td>
<td>H. Lata1, S. Chandra, N. Techen, Y. H. Wang, I. A. Khan</td>
</tr>
<tr>
<td>The Growth of Roots and Green Leaves of <em>Allium cepa</em> L. after the Removal of Different Parts of the Bulb</td>
<td>A. Yu. Budantsev</td>
</tr>
<tr>
<td>Soybean Seed Protein, Oil, Fatty Acids, and Isoflavones Altered by Potassium Fertilizer Rates in the Midsouth</td>
<td>N. Bellaloui1, X. H. Yin, A. Mengistu, A. M. McClure, D. D. Tyler, K. N. Reddy</td>
</tr>
<tr>
<td>Effect of Water Stress on the Growth and Development of <em>Amaranthus spinosus</em>, <em>Leptochloa chinensis</em>, and Rice</td>
<td>B. S. Chauhan, S. B. Abugho</td>
</tr>
<tr>
<td>An Empirical Approach to Get the Vitality of a Genotype to Water Stress Tolerance in Yield and Yield Contributing Traits</td>
<td>I. R. Noorka, S. Tabasum</td>
</tr>
<tr>
<td>Confirmation of Pearl Millet-Napiergrass Hybrids Using EST-Derived Simple Sequence Repeat (SSR) Markers</td>
<td>C. D. Dowling, B. L. Burson, J. L. Foster, L. Tarpley, R. W. Jessup</td>
</tr>
<tr>
<td>An Approach for Micropropagation of Blueberry (<em>Vaccinium corymbosum</em> L.) Plants Mediated by Temporary Immersion Bioreactors (TIBs)</td>
<td>A. D. Arencibia, C. Vergara, K. Quiroz, B. Carrasco, R. García, C. Bravo</td>
</tr>
<tr>
<td>Bioassay and Characterization of Several Palmer Amaranth (<em>Amaranthus palmeri</em>) Biotypes with Varying Tolerances to Glyphosate</td>
<td>R. E. Hoagland, R. H. Jordan, N. D. Teaster</td>
</tr>
<tr>
<td>Analysis of Genetic and Biogeography Diversity of Korean Indigenous Wild Rocambole (<em>Allium monanthum</em> Max)</td>
<td>G. Yi, K.-M. Kim</td>
</tr>
</tbody>
</table>

Copyright © 2013 SciRes.
Differential Growth and Development Response of Sunflower Hybrid in Contrasting Irrigation Regimes
A. Ali, I. R. Noorka ................................................................. 1060

Fruit Setting Behaviour of Passion Fruit

Physiological Traits and Metabolites of Cacao Seedlings Influenced by Potassium in Growth Medium
Y.-M. Li, M. Elson, D. Zhang, R. C. Sicher, H. Li, L. W. Meinhardt, V. Baligar ................................................................. 1074

Genealogy of Cucumber mosaic virus Isolated from Ornamental Species
L. M. L. Duarte, E. B. Rivas, R. Harakava, M. C. D. Veauvy, M. A. V. Alexandre ................................................................. 1081

New Method for Measurement of Plant Roots Specific Surface
G. Jozefaciuk, M. Lukowska ................................................................. 1088

Screening of the Growth-Inhibitory Effects of 168 Plant Species against Lettuce Seedlings
T. Takemura, E. Sakuno, T. Kamo, S. Hiradate, Y. Fujii ................................................................. 1095

Potentials of Two Nigerian Spices—Piper nigrum and Monodora myristica as Sources for Cheap Natural Antioxidants
E. A. Uyoh, P. N. Chukwurah, R. C. Akarika, V. A. Antia ................................................................. 1105

Towards Application of Bioactive Natural Products Containing Isoprenoids for the Regulation of HMG-CoA Reductase—A Review
S. Pakpour ............................................................................. 1116

Maternal Environment Effects on Phenolic Defenses in Abutilon theophrasti Seeds
B. J. Schutte, S. E. Wortman, J. L. Lindquist, A. S. Davis ......................................................................................... 1127

Influence of Treatment of Jatropha curcas L. Leachates and Potassium on Growth and Phytochemical Constituents of Wheat (Triticum aestivum L.)
N. S. Tomar, R. M. Agarwal ......................................................................................... 1134

Influence of Organic Manures on Yield and Quality of Rice (Oryza sativa L.) and Blackgram (Vigna mungo L.) in Rice-Blackgram Cropping Sequence
S. P. Sangeetha, A. Balakrishnan, P. Devasenapathy ......................................................................................... 1151

The figure on the front cover is from the article published in American Journal of Plant Sciences, 2013, Vol. 4, No. 5, pp. 1029-1037 by Robert E. Hoagland, et al.

Copyright © 2013 SciRes.  AJPS
American Journal of Plant Sciences (AJPS)

Journal Information

SUBSCRIPTIONS


Subscription rates:
Print: $79 per issue.
To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements
Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)
E-mail: sub@scirp.org

COPYRIGHT

Copyright©2013 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assumes no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:
E-mail: ajps@scirp.org
American Journal of Plant Sciences

ISSN: 2158-2742 (Print)    ISSN: 2158-2750 (Online)
http://www.scirp.org/journal/ajps

American Journal of Plant Sciences (AJPS) is a peer reviewed international journal dedicated to the latest advancement in related areas. The goal of this journal is to keep a record of the state-of-the-art research and to promote study, research and improvement within its various specialties.

Editor-in-Chief
Dr. Sukumar Saha
US Department of Agriculture, USA

Subject Coverage
This journal invites original research and review papers that address the following issues. Topics of interest include, but are not limited to:

- Agricultural Botany
- Agronomy
- Bryology
- Dendrochronology
- Economic Botany
- Ethnobotany
- Forestry
- Horticulture
- Integrated Pest Management and Integrated Resistant Management
- Lichenology
- Medicinal Plants
- Paleobotany
- Palynology
- Phycology
- Phylogenetics and Evolution
- Phytochemistry
- Phytopathology
- Plant Anatomy
- Plant Based Biofuels and Bioenergy
- Plant Biotechnology and Tissue Culture
- Plant Breeding
- Plant Cytogenetics and Cytology
- Plant Ecology
- Plant Genetic Resources and Databases
- Plant Genetics
- Plant Genomes, Bioinformatics and Genomics
- Plant Host-Pathogen Interactions
- Plant Molecular Biology and Evolution
- Plant Morphology
- Plant Nutrition
- Plant Physiology
- Plant Polyploidy
- Plant Protection
- Plant Proteomics and Metabolomics
- Plant Systematics
- Transgenic Crops and Their Products

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of AJPS.

Notes for Intending Authors
Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail
http://www.scirp.org/journal/ajps    E-mail: ajps@scirp.org
What is SCIRP?
Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science, by delivering superior scientific publications and scientific information solution provider that enable advancement in scientific research.

What is Open Access?
All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, world-wide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience

Website: http://www.scirp.org
Subscription: sub@scirp.org
Advertisement: service@scirp.org