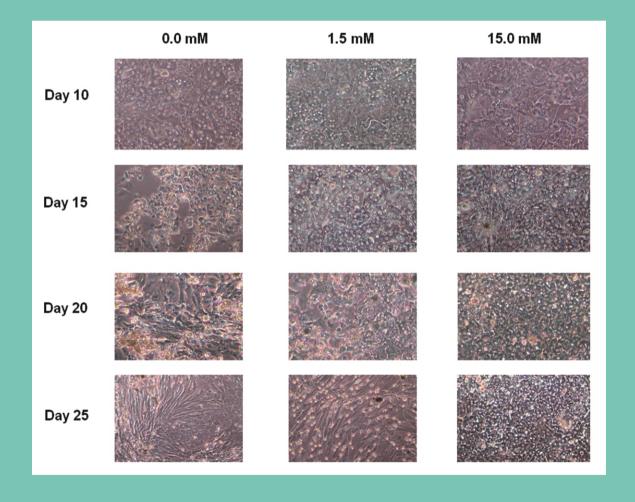


Natural Science



ISSN: 2150-4091



Journal Editorial Board

ISSN: 2150-4091 (Print) ISSN: 2150-4105 (Online)

http://www.scirp.org/journal/ns/

Editor-in-Chief

Prof. Kuo-Chen Chou Gordon Life Science Institute, USA

Editorial Advisory Board

Prof. James J. ChouHarvard Medical School, USAProf. Reba GoodmanColumbia University, USA

Dr. Robert L. Heinrikson Proteos, Inc., USA

Prof. Robert H. KretsingerUniversity of Virginia, USADr. P. MartelChalk River Laboratories, Canada

Dr. Michael Mross Vermont Photonics Technologies Corp., USA

Prof. Harold A. Scheraga Cornell University, USA

Editorial Board

Dr. Fridoon Jawad Ahmad University of the Punjab, Pakistan

Prof. Hakan ArslanMersin University, TurkeyDr. Giangiacomo BerettaUniversity of Milan, Italy

Dr. Bikas K. Chakrabarti Saha Institute of Nuclear Physics, India

Dr. Brian Davis

Research Foundation of Southern California, USA

Dr. Mohamadreza B. Eslaminejad

Cell Sciences Research Center, Royan Institute, Iran

Dr. Marina Frontasyeva Frank Laboratory of Neutron, Russia

Dr. Neelam Gupta National Bureau of Animal Genetic Resources, India

Dr. Yohichi Kumaki Utah State University, USA

Dr. Petr Kuzmic BioKin Ltd., USA

Dr. Ping Lu Communications Research Centre, Canada

Dr. Dimitrios P. NikolelisUniversity of Athens, Greece

Dr. Caesar Saloma University of the Philippines Diliman, Philippines

Prof. Kenji Sorimachi Dokkyo Medical University, Japan

Dr. Swee Ngin Tan
Nanyang Technological University, Singapore
Prof. Rodrick Wallace
New York State Psychiatric Institute, USA

Dr. Fuqiang Xu National Magnetic Resonance Research Center, China

Dr. Weizhu Zhong Pfizer Global Research and Development, USA

Managing Executive Editor

Dr. Feng Liu Scientific Research Publishing, USA Email: fengliu@scirp.org

Managing Production Editor

Jane Xiong Scientific Research Publishing, USA Email: ns@scirp.org

Guest Reviewers (According to Alphabet)

Salvador Alfaro Fan Peng John R Williams
Takayuki Ban Mohd. Yusri bin Abd. Rahman Jamshed Hussain Zaidi
Marina Frontasyeya Tochifumi Satah Nenghui Zhang

Marina FrontasyevaToshifumi SatohNenghui ZhangTomski GrigoriRuediger SchweissHongzhi ZhongToshiyuki KimuraShahida WaheedJunwu Zhu

Rafael Luque

TABLE OF CONTENTS

Volume 2, Number 11, November 2010

| ASTRONOMY Is it plausible to expect a close encounter of the Earth with a yet undiscovered astronomical object in the next few years? |
|--|
| L. Iorio |
| CHEMISTRY Chiral palladium complexes based on derivatives of benzylamine and 2α-hydroxypinan-3-one O. A. Zalevskaya, Y. A. Gur'eva, L. L. Frolova, I. N. Alekseev, A. V. Kutchin |
| Contribution to the understanding effects of weak electrical phenomena J. Mazurkiewicz, P. Tomasik |
| EARTH SCIENCE |
| On the recovery from the Little Ice Age SI. Akasofu |
| LIFE SCIENCE |
| Host markers and correlated mutations in the overlapping genes of influenza viruses: M1, M2; NS1, NS2; and PB1, PB1-F2 |
| W. Hu1225 The occurrence of keratinophilic fungi in selected soils of Ladakh (India) |
| S. K. Deshmukh, S. A. Verekar, A. Shrivastav |
| Coerced group collaborative evolution as an explanation for sexual reproduction's prevalence |
| R. J. Lin, F. Lin |
| Y. Kumaki, I. Kumaki, X. M. Guo, W. L. Shang, T. Koyama, A. Okamura, Y. Shiba, T. Mukaiyama, N. Sasaki, M. Kodama |
| Diet of fish populations in posidonia oceanica meadows off the Island of Ischia (Gulf of Naples, Italy): assessment of spatial and seasonal variability V. Zupo, D. Stübing |
| PHYSICS |
| Excitations for the one-dimensional S = 1 pseudo-Heisenberg antiferromagnetic chain E. V. Orlenko, F. E. Orlenko; G. G. Zegrya |
| Light D wave meson spectrum in a relativistic harmonic model with instanton induced interaction A. P. Monteiro, K. B. V. Kumar |
| Three influencing factors on the level of non-ionizing radiation V. Bilero |
| OTHERS |
| Enzymatic and histopathologic biomarkers as indicators of aquatic pollution in fishes A. G. M. Osman, AEB. M. A. E. Reheem, K. Y. AbuelFadl, A. G. GadEl-Rab |
| A finite difference scheme for magneto-thermo analysis of an infinite cylinder D. S. Mashat |
| Analytical expression of non steady-state concentration profiles at planar electrode for the CE mechanism V. M. R. M. PonRani, L. Rajendren |

The figure on the front cover shows Morphological variation of porcine hepatocytes treated with ascorbic acid 2-phosphate. See the article published in Natural Science, 2010, Vol. 2, No. 11, pp. 1264-1273 by Yohichi Kumaki *et al.*

Natural Science

Journal Information

SUBSCRIPTIONS

The *Natural Science* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$50 per copy.

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)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright© 2010 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: ns@scirp.org

Call for Papers

Natural Science

A Journal Published by Scientific Research Publishing, USA www.scirp.org/journal/ns

Editor-in-Chief

Prof. Kuo-Chen Chou

Gordon Life Science Institute, USA

Editorial Board

Dr. Fridoon Jawad Ahmad Prof. Hakan Arslan Dr. Giangiacomo Beretta Dr. Bikas K. Chakrabarti

Dr. Brian Davis Dr. Mohamadreza B. Eslamineiad

Dr. Marina Frontasveva Dr. Neelam Gupta Dr. Yohichi Kumaki

Dr. Petr Kuzmic Dr. Ping Lu Dr. Dimitrios P. Nikolelis Dr. Caesar Saloma

Prof. Kenii Sorimachi Dr. Swee Ngin Tan Prof Rodrick Wallace Dr. Fuqiang Xu Dr. Weizhu Zhong

Editorial Advisory Board

Prof. James J. Chou Prof. Reba Goodman Dr. Robert L. Heinrikson Prof. Robert H. Kretsinger Dr. P. Martel

Dr. Michael Mross Prof. Harold A. Scheraga University of the Punjab, Pakistan Mersin University, Turkey University of Milan, Italy Saha Institute of Nuclear Physics, India

Research Foundation of Southern California, USA Cell Sciences Research Center, Royan Institute, Iran

Frank Laboratory of Neutron, Russia

National Bureau of Animal Genetic Resources, India

Utah State University, USA BioKin Ltd., USA

Communications Research Centre, Canada University of Athens, Greece

University of the Philippines Diliman, Philippines

Dokkyo Medical University, Japan Nanyang Technological University, Singapore New York State Psychiatric Institute, USA National Magnetic Resonance Research Center, China Pfizer Global Research and Development, USA

Harvard Medical School, USA Columbia University, USA Proteos, Inc., USA University of Virginia, USA Chalk River Laboratories, Canada Vermont Photonics Technologies Corp., USA Cornell University, USA

Natural Science is an international journal dedicated to the latest advancement of natural sciences. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of natural sciences. All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy. The journal publishes original papers including but not limited to the following fields:

Astronomy & Space Sciences

- Astronomy
- Astrophysics
- Atmospheric Science
- Space Physics

Earth Science

- Geography
- Geology
- Geophysics/Geochemistry
- Oceanography

Chemistry

- Analytical Chemistry
- Biochemistry
- **Computational Chemistry**
- Inorganic Chemistry
- Organic Chemistry
- Physical Chemistry

Life Science

- Cell Biology
- Computational Biology

- Genetics
- Immunology
- Medicine/Diseases
- Microbiology
- Molecular Biology
- Neuroscience
- Pharmacology/Toxicology
- Physiology
- Psychology
- Virology

Physics

- Applied Physics
- Atomic, Molecular, and Optical Physics
- **Biophysics**
- High Energy/Particle Physics
- Material Science
- Plasma Physics

Others

- Education
- History of Science
- Science and Innovations

We are also interested in: 1) Short Reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews—Comments and critiques.

Notes for Intending Authors

Submitted papers should not be previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. For more details, please access the website.

Website and E-Mail

