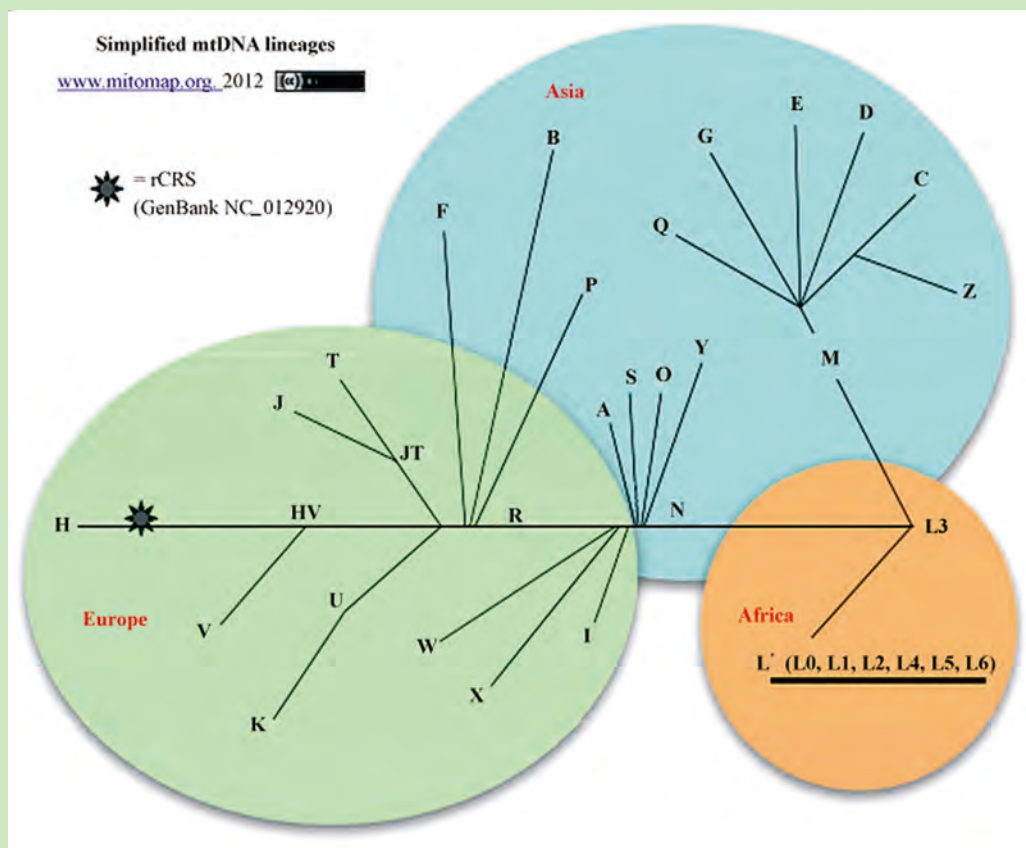


Natural Science



ISSN: 2150-4091



9 772150 409002 08

Editor-in-Chief
Kuo-Chen Chou
www.scirp.org/journal/ns/

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

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

Harvard Medical School, USA
Columbia University Health Sciences, USA
Proteos, Inc., USA
University of Virginia, USA

Editorial Board

Prof. Tarek Aboul-Fadl
Dr. Fridoon Jawad Ahmad
Dr. Marcello Alecci
Prof. Hakan Arslan
Dr. Jean-Marc L. Beaujour
Dr. Giangiacomo Beretta
Dr. Attilio Castellarin
Dr. Bikas K. Chakrabarti
Prof. Khalil El-Hami
Dr. Mohamadreza B. Eslaminejad
Dr. Marina Frontasyeva
Dr. Neelam Gupta
Dr. Tai-Yin Huang
Prof. Syed Kamrul Islam
Dr. Yohichi Kumaki
Dr. Peng Li
Prof. Giulio Lorenzini
Dr. Ping Lu
Prof. Mark Lee Morrissey
Dr. Sunil Nautiyal
Dr. Edward Lee Nelson
Prof. Dimitrios P. Nikolelis
Dr. Dongfeng Pan
Dr. Judit M. Pap
Dr. Qasem Ramadan
Prof. Caesar Saloma
Dr. Victor B. Semikoz
Dr. Mohammad Reza Shadnam
Prof. Chuan-Chou Shen
Prof. Kenji Sorimachi
Dr. Marco Taddia
Dr. Swee Ngin Tan
Dr. Vladislav Vasilyev
Dr. Rodrick Wallace
Dr. Chao-Fu Wang
Dr. Chunsheng Wang
Dr. Xin Wang
Prof. Zhengbin Wu
Dr. Fuqiang Xu
Dr. Sharif Hussein Sharif Zein
Dr. Li-Ru Zhao
Dr. Weizhu Zhong

Assiut University, Egypt
King Edward Medical University, Pakistan
University of L'Aquila, Italy
Mersin University, Turkey
Nanodynamics-88, Inc., USA
University of Milan, Italy
University of Bologna, Italy
Saha Institute of Nuclear Physics, India
Kyoto University, Japan
Royan Institute, Iran
Joint Institute for Nuclear Research, Russia
National Bureau of Animal Genetic Resources, India
Pennsylvania State University-Lehigh Valley, USA
University of Tennessee, USA
Utah State University, USA
University of California, Irvine, USA
University of Parma, Italy
Communications Research Centre Canada, Canada
University of Oklahoma, USA
Centre for Ecological Economics and Natural Resources, India
University of California, Irvine, USA
University of Athens, Greece
University of Virginia, USA
Catholic University of America, USA
Swiss Federal Institute of Technology, Switzerland
University of the Philippines Diliman, Philippines
Russian Academy of Sciences, Russia
KPMG LLP, Canada
National Taiwan University, Chinese Taipei
Dokkyo Medical University, Japan
University of Bologna, Italy
Nanyang Technological University, Singapore
Austrian National University, Austria
New York State Psychiatric Institute, USA
National University of Singapore, Singapore
University of Maryland, USA
Nanjing Institute of Geology and Palaeontology, China
Chinese Academy of Sciences, China
Chinese Academy of Sciences, China
University Science Malaysia, Malaysia
SUNY Upstate Medical University, USA
Pfizer Global Research and Development, USA

Guest Reviewers (According to Alphabet)

Salvador Alfaro
Takayuki Ban
Blanca Bernal
Jason Blum
Maria Teresa Esposito
Fang Fang
Marina Frontasyeva
Yu Gao
Tomski Grigori
Raja Rizwan Hussain
Yan Jiang
Toshiyuki Kimura

Shuang Li
Dazhi Liu
Zhiyong Liu
Rafael Luque
Piotr Macech
Lev A. Maslov
Ho Soon Min
Daniela Morelli
Fan Peng
Mohd. Yusri bin Abd. Rahman
Brijesh Rathi
Toshifumi Satoh

Ruediger Schweiss
Sumin Tang
Jo-Ming Tseng
Shahida Waheed
John R. Williams
Jamshed Hussain Zaidi
Yongyuan Zang
Nenghui Zhang
Hongzhi Zhong
Junwu Zhu

TABLE OF CONTENTS

Volume 5, Number 8, August 2013

Seasonal sea surface temperatures of the North Pacific	
K. E. Kenyon.....	875
Study effects of El Jadida—Casablanca industrial zone neighbouring areas	
H. D. B. Gogon, H. Erramli, T. Sauvage, C. Ramboz.....	880
Electrochemical determination of catechol in tea samples using anthraquinone modified carbon paste electrode	
F. Melak, M. Redi, M. Tessema, E. Alemayehu.....	888
Antifungal activity of total and fractionated phenolic extracts from two wild edible herbs	
M. A. Gatto, S. M. Sanzani, P. Tardia, V. Linsalata, M. Peralice, L. Sergio, D. Di Venere.....	895
Conservation of endangered animals: From biotechnologies to digital preservation	
F. Pizzi, A. M. Caroli, M. Landini, N. Galluccio, A. Mezzelani, L. Milanesi.....	903
Habitat fragmentation and the population status of rodents in Abayum forest, Ikom, Cross River State, Nigeria	
A. U. Ogogo, F. E. Bisong, A. N. Tawo.....	914
New proteins and protein species identified in human umbilical vein endothelial cells by Fourier transform ion cyclotron resonance-mass spectrometry	
B. Baudin, A. Bruneel, P. Pernet, M. Vaubourdolle, I. Haddad, P. Marcelo, J. Rossier, J. Vinh.....	919
The automatic processes of earthquake-related stimulus: Comparison at different time points after the Wenchuan earthquake	
M. Lei, J. Qiu, Q. L. Zhang.....	925
Assessment of LLLT systemic effects on thyroid hormones function after dental titanium implant installation: An experimental rabbit model	
L. Mayer, F. V. Gomes, C. E. Baraldi, J. B. B. Weber, M. G. de Oliveira.....	933
Using the tight binding approximation in deriving the quantum critical temperature superconductivity equation	
R. A. Elhai, M. H. M. Hilo, R. A. Elgani, M. D. A. Allah.....	941
Hereditary constitution analysis of Shaolingyuan ancient human in Xi'an, northwestern China	
L. Li, P. H. Wang, D. Y. Liu, J. L. Shao, X. H. Duan.....	947
Bisphosphonates and adipogenesis: Evidence for alendronate inhibition of adipocyte differentiation in 3T3-L1 preadipocytes through a vitamin D receptor mediated effect	
C. Mammi, M. Calanchini, A. Antelmi, A. Feraco, L. Gnessi, S. Falcone, F. Quintarelli, G. M. Rosano, A. Fabbri, M. Caprio.....	955

The figure on the front cover is from the article published in Natural Science, 2013, Vol. 5, No. 8, pp. 947-954 by Lin Li, *et al.*

Natural Science (NS)

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: \$79 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©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 assume 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

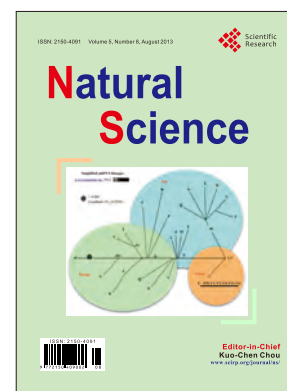
For manuscripts that have been accepted for publication, please contact:

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 Advisory Board

Dr. James J. Chou
Prof. Reba Goodman

Dr. Robert L. Henrikson
Prof. Robert H. Kretsinger

Editorial Board

Prof. Tarek Aboul-Fadl
Dr. Fridoon Jawad Ahmad
Dr. Marcello Alecci
Prof. Hakan Arslan
Dr. Jean-Marc L. Beaujour
Dr. Giangiacomo Beretta
Dr. Attilio Castellarin
Dr. Bikas K. Chakrabarti
Dr. Khalil El-Hami
Dr. Mohamadreza B. Eslaminejad
Dr. Marina Frontasyeva
Dr. Neelam Gupta
Dr. Tai-Yin Huang
Prof. Syed Kamrul Islam

Dr. Yohichi Kumaki
Dr. Peng Li
Prof. Giulio Lorenzini
Dr. Ping Lu
Prof. Mark Lee Morrissey
Dr. Sunil Nautiyal
Dr. Edward Lee Nelson
Prof. Dimitrios P. Nikolelis
Dr. Dongfeng Pan
Dr. Judit M. Pap
Dr. Qasem Ramadan
Prof. Caesar Saloma
Dr. Victor B. Semikoz
Dr. Mohammad Reza Shadnam

Prof. Chuan-Chou Shen
Prof. Kenji Sorimachi
Dr. Marco Taddia
Dr. Swee Ngin Tan
Dr. Vladislav Vasilyev
Dr. Rodrick Wallace
Dr. Chao-Fu Wang
Dr. Chunsheng Wang
Dr. Xin Wang
Prof. Zhengbin Wu
Dr. Fuqiang Xu
Dr. Sharif Hussein Sharif Zein
Dr. Li-Ru Zhao
Dr. Weizhu Zhong

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

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

E-mail: ns@scirp.org