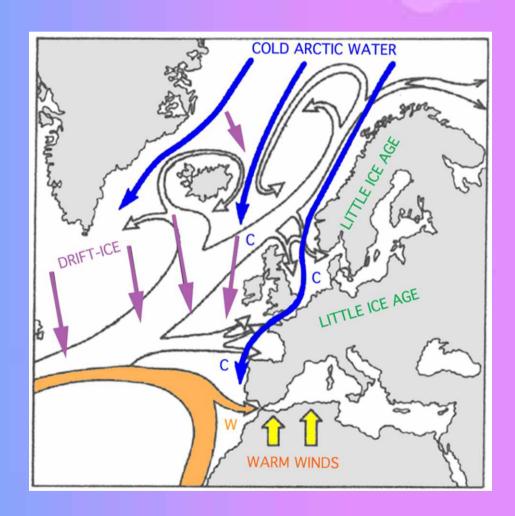




Natural Science





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 Board

Prof. Tarek Aboul-Fadl Assiut University, Egypt

Prof. Fridoon Jawad Ahmad King Edward Medical University, Pakistan

Prof. Hakan ArslanMersin University, TurkeyProf. Khalil El-HamiKyoto University, Japan

 Dr. Marina Frontasyeva
 Joint Institute for Nuclear Research, Russia

 Prof. Reba Goodman
 Columbia University Health Sciences, USA

 Prof. To: Vin Huang
 Pannaylyania State University Lekigh Valley Us

Prof. Tai-Yin HuangPennsylvania State University-Lehigh Valley, USAProf. Syed Kamrul IslamUniversity of Tennessee, USA

Prof. Robert H. Kretsinger
Prof. Peng Li
University of Virginia, USA
University of California, USA
University of Parma, Italy

Prof. Giulio LorenziniUniversity of Parma, ItalyProf. Mark Lee MorrisseyUniversity of Oklahoma, USA

Prof. Sunil Nautiyal Institute for Social and Economic Change, India

Dr. Edward Lee NelsonUniversity of California, USAProf. Dimitrios P. NikolelisUniversity of Athens, GreeceDr. Dongfeng PanUniversity of Virginia, USA

Prof. Caesar Saloma University of the Philippines Diliman, Philippines

Dr. Victor B. Semikoz Russian Academy of Sciences, Russia

Dr. Mohammad Reza Shadnam KPMG LLP, Canada

Prof. Kenji SorimachiDokkyo Medical University, JapanDr. Marco TaddiaUniversity of Bologna, Italy

Prof. Chao-Fu Wang National University of Singapore, Singapore

Prof. Xin Wang Nanjing Institute of Geology and Palaeontology, China

Dr. Sharif H. Zein University of Hull, UK

Dr. Li-Ru ZhaoSUNY Upstate Medical University, USADr. Weizhu ZhongPfizer Global Research and Development, USA



Table of Contents

Volume 7	Number 11 November	2015
Thymidine Gly	col: The Effect on DNA Structure and DNA Binding by Site-Specific Proteins	
E. A. Kubarev	a, F. Yang, A. Yu. Ryazanova, N. G. Dolinnaya, A. V. Golovin, N. V. Molochkov, E. A. Romanova,	
E. A. Karpova	, T. S. Zatsepin, T. S. Oretskaya	491
The Approach	ing New Grand Solar Minimum and Little Ice Age Climate Conditions	
N A Märna	-	E10

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: \$89 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 AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:

Copyright © 2015 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY). http://creativecommons.org/licenses/by/4.0/

COPYRIGHT FOR INDIVIDUAL PAPERS OF THE JOURNAL:

Copyright © 2015 by author(s) and Scientific Research Publishing Inc.

REUSE RIGHTS FOR INDIVIDUAL PAPERS:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

DISCLAIMER OF LIABILITY

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

Natural Science Note: The first and the fir

Editorial Board

Prof. Tarek Aboul-Fadl Prof. Fridoon Jawad Ahmad Prof. Hakan Arslan Prof. Khalil El-Hami Dr. Marina Frontasyeva Prof. Reba Goodman Prof. Tai-Yin Huang Prof. Sved Kamrul Islam

Prof. Robert H. Kretsinger

Prof. Peng Li Prof. Giulio Lorenzini Prof. Mark Lee Morrissey Prof. Sunil Nautiyal Dr. Edward Lee Nelson Prof. Dimitrios P. Nikolelis Dr. Dongfeng Pan Prof. Caesar Saloma Dr. Victor B. Semikoz Dr. Mohammad Reza Shadnam Prof. Kenji Sorimachi Dr. Marco Taddia Prof. Chao-Fu Wang Prof. Xin Wang Dr. Sharif H. 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

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 with its publication.

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, worldwide, 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