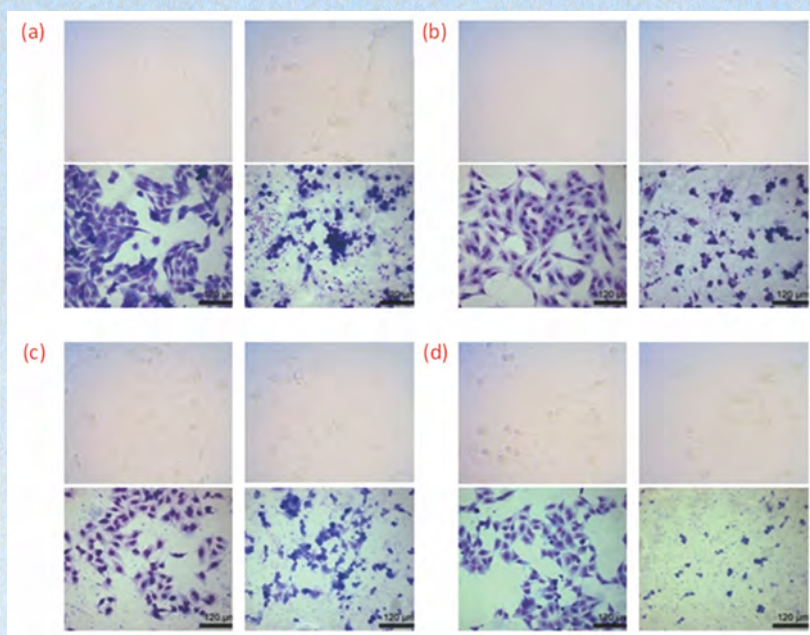


Advances in Biological Chemistry

Special Issue on Phytochemicals Research



ISSN: 2162-2183



Journal Editorial Board

ISSN 2162-2183 (Print) ISSN 2162-2191 (Online)

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

Editor-in-Chief

Prof. Gary W. Black

Northumbria University, UK

Editorial Board

Prof. Feng Wu Bai

Dr. Eduardo Alberto Castro

Prof. Steven Feng Chen

Prof. Chi-Hin Cho

Prof. Howard William Clark

Dr. Madhu Dhar

Dr. Nicolay Ivanov Dodoff

Dr. Rossen M. Donev

Dr. Pablo R. Duchowicz

Prof. Asim K. Duttaroy

Dr. Hani El-Nezami

Dr. Purnachandra Nagaraju Ganji

Dr. Havard Jenssen

Prof. Phillip E. Klebba

Dr. Alexander A. Konstantinov

Dr. Shinichiro Kurosawa

Dr. David X. Liu

Dr. Peizhong Mao

Prof. Hara P. Misra

Dr. Jim Mixson

Prof. James Morré

Dr. Monalisa Mukherjea

Dr. Ali B. Naini

Dr. Moreno-Sánchez Rafael

Prof. Victor Domingo Ramirez

Prof. Pogaku Ravindra

Prof. David J. Riese II

Prof. Arun Seth

Dr. Rafat Siddiqui

Prof. Akira Sugawara

Dr. Ling Shing Wong

Dr. Deyu Xie

Dr. Tetiana Zaichuk

Dr. Tong Zhang

Dalian University of Technology, China

Universidad Nacional de La Plata, Argentina

Peking University, China

The Chinese University of Hong Kong, China

University of Southampton, UK

University of Tennessee, USA

Bulgarian Academy of Sciences, Bulgaria

Swansea University, UK

La Plata National University, Argentina

University of Oslo, Norway

University of Hong Kong, China

Emory University, USA

Roskilde University, Denmark

University of Oklahoma, USA

Moscow State University, Russia

Boston University, USA

Pennsylvania State University College of Medicine, USA

Oregon Health & Science University (OHSU), USA

Edward Via College of Osteopathic Medicine, USA

University of Maryland School of Medicine, USA

Purdue University, USA

University of Pennsylvania, USA

Columbia University Medical Center, USA

Instituto Nacional de Cardiologia, Mexico

University of Chile, Chile

University Malaysia Sabah, Malaysia

Auburn University, USA

Sunnybrook Health Sciences Centre, Canada

Methodist Research Institute, USA

Tohoku University Graduate School of Medicine, Japan

INTI International University, Malaysia

North Carolina State University, USA

Northwestern University, USA

The University of Hong Kong, China

Table of Contents

Volume 4 Number 2

April 2014

Secondary Metabolites in Flax Root Extracts at Various Stages of Maturity and Effects on Proliferation and Cytotoxicity in Oestrogen-Receptor-Positive Breast Cancer Cells

M. Szewczyk, N. Strater, A. Schlichting, V. Briesse, D.-U. Richter.....91

Brown Algae *Himantothallus grandifolius* (Desmarestiales, Phaeophyceae)

Suppresses Proliferation and Promotes Apoptosis-Mediated Cell Death in Tumor Cells

G. Gambato, É. G. Baroni, C. S. C. Garcia, R. Frassini, C. O. S. Frozza, S. Moura, C. M. P. Pereira, M. T. Fujii, P. Colepiccolo, A. P. F. Lambert, J. A. P. Henriques, M. Roesch-Ely.....98

Pharmacological Prospects of Oxygenated Abietane-Type Diterpenoids from *Taxodium distichum* Cones

N. Kusumoto, N. Aburai, T. Ashitani, K. Takahashi, K. Kimura.....109

A New Kinetic Spectrophotometric Method for Determination of Cefadroxil in Pharmaceutical Formulations Using *Lawsonia inermis* (Henna) as Natural Reagent

M. Hassan, F. A. Abeed, B. Saif.....116

The Effect of Bergamot-Derived Polyphenolic Fraction on LDL Small Dense Particles and Non Alcoholic Fatty Liver Disease in Patients with Metabolic Syndrome

M. Gliozzi, C. Carresi, V. Musolino, E. Palma, C. Muscoli, C. Vitale, S. Gratterer, G. Muscianisi, E. Janda, S. Muscoli, F. Romeo, S. Ragusa, R. Mollace, R. Walker, J. Ehrlich, V. Mollace.....129

Suppression of *N*-Methyl-*N*-Nitrosourea-Induced Retinal Damage in Mice by Oligonol, an Oligomerized Polyphenol Formulation

J. Kisugi, M. Nasui, K. Wakame, J. Takanari, M. Yamazaki, S. Yui.....138

GABA_A Receptor Modulation by Compounds Isolated from *Salvia triloba* L.

A. Abdelhalim, M. Chebib, T. Aburjai, G. A. R. Johnston, J. R. Hanrahan.....148

Drymaria cordata (Linn.) Willd (Caryophyllaceae): Ethnobotany, Pharmacology and Phytochemistry

N. R. Nono, K. L. Nzowa, L. Barboni, A. L. Tapondjou.....160

Differential Deterrent Activity of Natural Products Isolated from *Allophylus edulis* (Sapindaceae)

M. Díaz, L. Castillo, C. E. Díaz, R. G. Álvarez, A. González-Coloma, C. Rossini.....168

Metabolism of Glucotropaeolin from *Tropaeolum majus* L. (Nasturtium) and the Bioavailability of Benzyl-Isothiocyanates in Growing Pigs

K. Stelter, E. Bloem, A. Berk, S. Dänicke.....180

Advances in Biological Chemistry (ABC)

Journal Information

SUBSCRIPTIONS

The Advances in Biological Chemistry (Online at Scientific Research Publishing, www.Scirp.org) is published bimonthly by Scientific Research Publishing, Inc., USA.

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)

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 © 2014 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 © 2014 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.

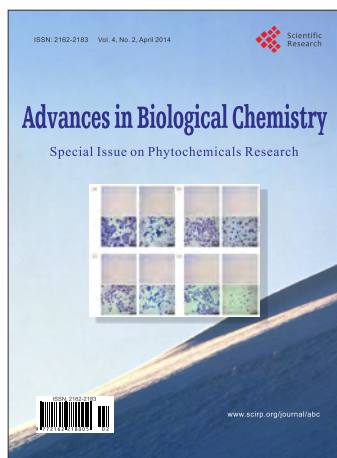
DISCLAIMER OF LIABILITY

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: abc@scirp.org



Advances in Biological Chemistry (ABC)

ISSN 2162-2183 (Print) ISSN 2162-2191 (Online)

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

Advances in Biological Chemistry (ABC) is an international journal dedicated to the latest advancement of Biological Chemistry. 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 Biological Chemistry. 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:

- Animal and Human Biochemistry
- Applied Biochemistry and Biochemical Engineering
- Biochemical Immunology
- Biochemical Methods
- Biochemical Pharmacology and Toxicology
- Biomolecular Spectroscopy
- Computational Biochemistry and Biomolecular Modelling
- Enzymology
- Inorganic Biochemistry
- Lipid Biochemistry
- Medical Biochemistry
- Medicinal Chemistry
- Membrane Biochemistry
- Microbial Biochemistry
- Neurobiochemistry
- Nucleic Acids Biochemistry
- Peptide and Protein Biochemistry
- Plant Biochemistry
- Polysaccharide Biochemistry
- Structural Bioinformatics

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.

Website and E-Mail

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

E-mail: abc@scirp.org