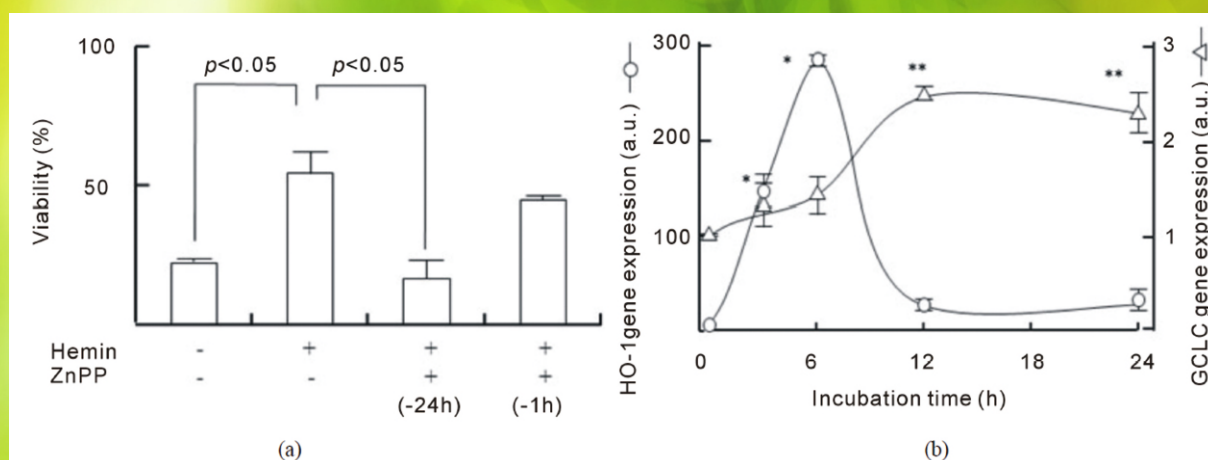




Journal of Biophysical Chemistry



ISSN: 2153-036X



Journal Editorial Board

ISSN 2153-036X (Print) ISSN 2153-0378 (Online)

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

Editor-in-Chief

Prof. Cornelis J. Van der Schyf

Northeast Ohio Medical University (NEOMED), USA

Editorial Board

Dr. Samiul Amin

Malvern Instruments, USA

Dr. Huizhong Chen

National Center for Toxicological Research, USA

Dr. Pedro Alexandre Gomes

Faculty of Sport, University of Porto, Portugal

Santiago de Figueiredo

Dr. Mario Díaz

University of La Laguna, Spain

Dr. Margarida Fardilha

Centre for Cell Biology, University of Aveiro, Portugal

Prof. Xiaojun Han

Harbin Institute of Technology, China

Prof. Gang Jin

Chinese Academy of Sciences, China

Prof. Alexander A. Konstantinov

Moscow State University, Russia

Prof. Raj Kumar

The Commonwealth Medical College, USA

Dr. Majella E. Lane

UCL School of Pharmacy, UK

Prof. Kazuhisa Nishizawa

Teikyo University, Japan

Dr. Marcela Pagano

Federal University of Ceará, Brazil

Dr. Joy Sinha

ANDalyze, Inc., USA

Dr. Yongchao Su

Massachusetts Institute of Technology, USA

Prof. Andrei P. Surguchov

Kansas University Medical Center, USA

Dr. Kazuhiro Takemoto

Kyushu Institute of Technology, Japan

Dr. Eric Robert Tkaczyk

University of Tartu Medical School, Estonia

Prof. Armen Trchounian

Yerevan State University, Armenia

Dr. Izabela Tworowska

Therapeutic Nuclear Medicine Research Institute, USA

Prof. Suresh C. Tyagi

University of Louisville, USA

Table of Contents

Volume 5 Number 2

May 2014

Hemin Protects U937 Cells from Oxidative Stress via Glutathione Synthesis

Y. Satoh, K. Oyama, K. Sakurai.....13

Atherogenic Indices and HDL Particle Size as Laboratory Parameters to Evaluate Cardiovascular Risk in the Presence of Dyslipidemia

A. P. C. Santos, M. S. Vieira, D. F. Deus, R. J. B. de Oliveira, A. T. Morikawa, R. Aras, A. M. Atta, F. D. Couto,
R. C. Maranhão, R. D. Couto.....24

A Unique Conformational Behaviour of Glutamine Peptides

M. Baskar, M. Shafique, F. S. Nandel.....33

Non-Local pH Shifts and Shared Changing Angular Velocity Magnetic Fields: Discrete Energies and the Importance of Point Durations

N. Rouleau, T. N. Carniello, M. A. Persinger.....44

Genetic Variation in *Salamandra infraimmaculata* from Different Habitats Using Amplified Fragment Length Polymorphism

G. Degani, T. Goldberg, E. Nevo.....54

Phosphoprotein Phosphatase 1 Isoforms Alpha and Gamma Respond Differently to Prodigiosin Treatment and Present Alternative Kinase Targets in Melanoma Cells

M. Fardilha, J. Figueiredo, M. Espona-Fiedler, J. Felgueiras, L. Korrodi-Gregório, S. L. C. Esteves, S. Rebelo,
O. A. B. da Cruz Silva, E. da Cruz e Silva, R. Pérez-Tómas.....67

Gibbs-Donnan Potential as a Tool for Membrane Vesicles Polarization

M. Iuliia, K. Sergiy, V. Tetyana, S. Oleksandr.....78

Journal of Biophysical Chemistry (JBPC)

Journal Information

SUBSCRIPTIONS

Journal of Biophysical Chemistry (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly 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.

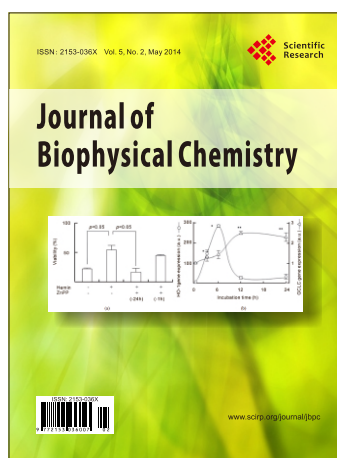
DISCLAIMER OF LIABILITY

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: jbpc@scirp.org



Journal of Biophysical Chemistry

ISSN 2153-036X (Print) ISSN 2153-0378 (Online)

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

Journal of Biophysical Chemistry (JBPC) is an international journal dedicated to the latest advancement in related research fields. 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 aspects of biophysical chemistry.

Editor-in-Chief

Prof. Cornelis J. Van der Schyf

Northeast Ohio Medical University (NEOMED), 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:

Biomolecular and Drug Databases
Biomolecular Free Energy
Biomolecular Modeling
Biomolecular Structure
Computational Biology
Computational Chemistry
Covering Dynamics
Gene Regulation
Graph/Network Theory
Medicine and Neuroscience
Molecular Docking
Molecular Dynamics Simulation
Molecular Evolutionary Genetics

Neural Networks
Nucleic Acid Structure
Patch Clamping
Pharmacology and Physiology
Quantum Chemistry
Sequence Alignment
Single Protein Dynamics
siRNA
Soft Matter Physics
Stochastic Processes
Structural Alignment
Structural Biology
Structure-Activity Relationships

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 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/jbpc>

E-mail: jbpc@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



**Scientific
Research**

Website: <http://www.scirp.org>

Subscription: sub@scirp.org

Advertisement: service@scirp.org