

JBiSE



https://www.scirp.org/journal/jbise

-100

50

Journal Editorial Board

ISSN 1937-6871 (Print) ISSN 1937-688X (Online) https://www.scirp.org/journal/jbise

Editorial Board

Prof. Christopher J. Branford-White **Prof. Thomas Casavant Dr. Feng Cheng** Dr. Xinguang Cui Prof. Senshi Fukashiro **Prof. Dayong Gao** Dr. Ernesto Goldman Prof. Reba Goodman Prof. Ridha Hambli Dr. Zeng-Jian Hu Prof. Takeshi Kikuchi **Prof. Rob Krams** Dr. Lukasz Kurgan Prof. Juan Liu Dr. Meng Ma Dr. Girdhar K. Pandey Prof. Panagote (Panos) M. Pardalos **Prof. Alessandro Poggi** Prof. Kota V. Ramana Dr. Likun Tan Dr. Yanmei Tie **Prof. Giuseppe Vairo Prof. Zhizhou Zhang**

.

London Metropolitan University, UK University of Iowa, USA University of South Florida, USA Huazhong University of Science and Technology, China The University of Tokyo, Japan University of Washington, USA Ohio State University Wexner Medical Center, USA Columbia University, USA Orleans University, France Howard University, USA Ritsumeikan University, Japan Imperial College London, UK University of Alberta, Canada Wuhan University, China Icahn School of Medicine at Mount Sinai, USA University of Delhi South Campus, India University of Florida, USA IRCCS Ospedale Policlinico San Martino, Italy University of Texas Medical Branch, USA Scientific Forming Technologies Corporation, USA Harvard Medical School, USA University of Rome "Tor Vergata", Italy Harbin Institute of Technology, China

.....



Table of Contents

Volume 15 Number 11

November 2022

Insights into the Social Determinants of Health in Older Adults	
F. P. Perez, C. A. Perez, M. N. Chumbiauca	.261
Development of a Rehabilitation Instrument of Neurological Training for Cervical Spine	
C. Y. Wang, Z. G. Hu, L. Y. Jia, L. Sun, X. H. Wang, H. Q. Su, W. R. Zhao	.269

Journal of Biomedical Science and Engineering (JBiSE) Journal Information

SUBSCRIPTIONS

The *Journal of Biomedical Science and Engineering* (Online at Scientific Research Publishing, <u>https://www.scirp.org/</u>) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates: Print: \$89 per issue. To subscribe, please contact Journals Subscriptions Department, E-mail: <u>sub@scirp.org</u>

SERVICES

Advertisements Advertisement Sales Department, E-mail: <u>service@scirp.org</u>

Reprints (minimum quantity 100 copies) Reprints Co-ordinator, Scientific Research Publishing, Inc., USA. E-mail: <u>sub@scirp.org</u>

COPYRIGHT

Copyright and reuse rights for the front matter of the journal:

Copyright © 2022 by Scientific Research Publishing Inc. This work is licensed under the Creative Commons Attribution International License (CC BY). <u>http://creativecommons.org/licenses/by/4.0/</u>

Copyright for individual papers of the journal:

Copyright © 2022 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: <u>jbise@scirp.org</u>

Call for Papers

Journal of Biomedical Science and Engineering (JBiSE)

https://www.scirp.org/journal/jbise

JBiSE, an international journal, publishes research and review articles in all important aspects of biology, medicine, engineering, and their intersection. Both experimental and theoretical papers are acceptable provided they report important findings, novel insights, or useful techniques in these areas. 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 in hard copy.

Subject Coverage

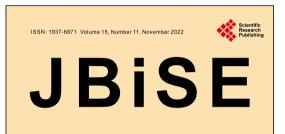
- Applied Biomaterials Bioelectrical and Neural Engineering Bioinformatics and Computational Biology
 Biomechanics and Biotransport Biomedical and Environmental Sciences
 Biomedical Chemistry Biomedical Chromatography
 Biomedical Devices, Sensors, Artificial Organs and Nano Technologies Biomedical Engineering
 Biomedical Imaging, Processing and Visualization Biomedical Informatics Biomedical Materials Biomedical Microdevices Biomedical Modeling
 Biomedical Sciences and Applications Biomedical Semantics Biomedical Signal Processing and Control Biomedicine and Biotechnology Biomedicine and Pharmacotherapy Clinical Engineering, Wearable and Real-Time Health Monitoring Systems Computer Methods and Programs in Biomedicine Genetic Engineering Genomics History and Philosophy of Biomedical Sciences Mechanical Behavior of Biomedical Materials Medical Biochemistry Medical Cell Biology Molecular and Genetic Medicine Nano-Bio-Analysis Negative Results in Biomedicine NMR in Biomedicine •NMR/CT/ECG Technologies and Electromagnetic Field Simulation Nonlinear Biomedical Physics
 Numerical Methods in Biomedical Engineering
 Pharmaceutical and Biomedical Analysis
 Physiological Signal Processing Nonlinear Biomedical Physics
- Proteomics
- Software, Tools and Application in Medical Engineering
- Structure-Based Drug Design

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

https://www.scirp.org/journal/jbise Email: jbise@scirp.org





Editorial Board

Prof. Christopher J. Branford-White Prof. Thomas Casavant Dr. Feng Cheng Dr. Xinguang Cui Prof. Senshi Fukashiro Prof. Dayong Gao Dr. Ernesto Goldman Prof. Reba Goodman Prof. Ridha Hambli Dr. Zeng-Jian Hu Prof. Takeshi Kikuchi Prof. Rob Krams Dr. Lukasz Kurgan Prof. Juan Liu Dr. Meng Ma Dr. Girdhar K. Pandev Prof. Panagote (Panos) M. Pardalos Prof. Alessandro Poggi Prof. Kota V. Ramana Dr. Likun Tan Dr. Yanmei Tie Prof. Giuseppe Vairo Prof. Zhizhou Zhang

London Metropolitan University, UK University of Iowa, USA University of South Florida, USA Huazhong University of Science and Technology, China The University of Tokyo, Japan University of Washington, USA Ohio State University Wexner Medical Center, USA Columbia University USA Orleans University, France Howard University, USA Ritsumeikan University, Japan Imperial College London, UK University of Alberta, Canada Wuhan University, China Icahn School of Medicine at Mount Sinai, USA University of Delhi South Campus, India University of Florida, USA IRCCS Ospedale Policlinico San Martino, Italy University of Texas Medical Branch, USA Scientific Forming Technologies Corporation, USA Harvard Medical School, USA University of Rome "Tor Vergata", Italy Harbin Institute of Technology, China

ISSN 1937-6871 (Print), 1937-688X (Online)

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?

Art and Design Review

Advances in

Advances in Biologica chemistry Entomolog

Applied Mathematics

Engineering

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



Soft

Website: https://www.scirp.org Subscription: sub@scirp.org Advertisement: service@scirp.org