

Advances in Bioscience and Biotechnology



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

Journal Editorial Board

ISSN: 2156-8456 (Print) ISSN: 2156-8502 (Online)

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

Editor-in-Chief

Prof. Abass Alavi

University of Pennsylvania, USA

Executive Editor-in-Chief

Prof. Roberto Fernández-Lafuente

Consejo Superior de Investigaciones Científicas, Spain

Editorial Board

Prof. Suleyman I. Allakhverdiev Prof. Atsushi Asakura Dr. Sanchita Bandyopadhyay-Ghosh Prof. Susanta K. Behura Prof. Benoît Chénais **Prof. Mohamed Chahine** Dr. Priya Choudhry Dr. Fatih Deniz Prof. Alexsandro S. Galdino Prof. Mahdi Garelnabi Dr. Mazevar Parvinzadeh Gashti Prof. Mehrnaz Gharaee-Kermani **Prof. Jane L. Hoover-Plow** Dr. Basalingappa L. Hungund Prof. Avinash P. Ingle Prof. Noah Isakov Dr. Sabzali A. Javadov Dr. Shuli Kang Prof. Lukasz Kedzierski Prof. Wan Lee Dr. Lingyu Li Dr. Jiyan Ma **Prof. Manuela Martins-Green Prof. James Michael Mathis** Prof. Subhash C. Mojumdar Prof. Pablo Iván Nikel Prof. Akbar Nikkhah **Prof. David Pimentel** Prof. Kun Qu Prof. Alireza G. Senejani Dr. Manjunatha Shivaraju

Prof. Ajay Singh Prof. Zheng Su Prof. Jinrong Wan Prof. Jinfu Wang Prof. Zhixiang Wang Dr. Yonggan Wu Prof. Wanxi Yang

Russian Academy of Sciences, Russia University of Minnesota, USA University of Toronto, Canada University of Notre Dame, USA Université du Maine, France Laval University, Canada California Institute of Technology, USA Harran University, Sanliurfa, Turkey Universidade Federal de São João Del-Rei (UFSJ), Brazil University of Massachusetts, USA Département de Chimie, Université Laval, Canada University of Michigan, USA Cleveland Clinic Lerner Research Institute, USA Columbia University, USA SGB Amravati University, India Ben Gurion University of the Negev, Israel University of Puerto Rico, USA University of Southern California, USA Monash University, Australia Dongguk University, South Korea Stanford University, USA Ohio State University, USA University of California, USA Louisiana State University Health Sciences Center, USA University of New Brunswick, Canada University of San Martín, Argentina University of Zanjan, Iran Cornell University, USA Stanford University, USA Yale University, USA Centre for Regenerative Medicine, Harvard Stem Cell Institute, Harvard Medical School, USA Lystek International Inc., Canada Genentech Inc., USA University of Missouri, USA Zhejiang University, China University of Alberta, Canada Stanford University, USA Zhejiang University, China



Table of Contents

Volume 11 Number 6

June 2020

A New Electronic Instrumentation Approach for the Acquisition of Microscopic Blood Smear	
Images for the Automatic Diagnosis of Anemia	

. N. Alico, S. Ouattara, A.	Clement	.237
-----------------------------	---------	------

Advances in Bioscience and Biotechnology (ABB) Journal Information

SUBSCRIPTIONS

The *Advances in Bioscience and Biotechnology* (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: service@scirp.org

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 © 2020 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 © 2020 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: abb@scirp.org

Call for Papers

Advances in **Bioscience and** Biotechnology

Scientific Research

2156-8458 Volume 11 Number 6 June 201



Advances in Bioscience and Biotechnology

ISSN: 2156-8456 (Print) ISSN: 2156-8502 (Online) https://www.scirp.org/journal/abb

Advances in Bioscience and Biotechnology (ABB) is an international journal dedicated to the latest advancement of biosciences. 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 biosciences. 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.

Editor-in-Chief Prof. Abass Alavi

University of Pennsylvania, USA

Executive Editor-in-Chief Prof. Roberto Fernández-Lafuente

Consejo Superior de Investigaciones Científicas, Spain

Editorial Board

Prof. Suleyman I. Allakhverdiev	Prof. Mahdi Garelnabi	Prof. Wan Lee
Prof. Atsushi Asakura	Dr. Mazeyar Parvinzadeh Gashti	Dr. Lingyu Li
Dr. Sanchita Bandyopadhyay-	Prof. Mehrnaz Gharaee-Kermani	Dr. Jiyan Ma
Ghosh	Prof. Jane L. Hoover-Plow	Prof. Manuela Martins-Green
Prof. Susanta K. Behura	Dr. Basalingappa L. Hungund	Prof. James Michael Mathis
Prof. Benoît Chénais	Prof. Avinash P. Ingle	Prof. Subhash C. Mojumdar
Prof. Mohamed Chahine	Prof. Noah Isakov	Prof. Pablo Iván Nikel
Dr. Priya Choudhry	Dr. Sabzali A. Javadov	Prof. Akbar Nikkhah
Dr. Fatih Deniz	Dr. Shuli Kang	Prof. David Pimentel
Prof. Alexsandro S. Galdino	Prof. Lukasz Kedzierski	Prof. Kun Qu

Prof. Alireza G. Senejani Dr. Manjunatha Shivaraju Prof. Ajay Singh Prof. Zheng Su Prof. Jinrong Wan Prof. Jinfu Wang Prof. Zhixiang Wang Dr. Yonggan Wu Prof. Wanxi Yang

Subject Coverage

This journal invites original research and review papers that address the following issues in bioscience and biotechnology. Topics of interest include, but are not limited to:

- Aerobiology
- Anthropology
- **Biochemical Genetics**
- Biochemistry
- **Bioinformatics**
- **Biological Engineering**
- **Biological Evolution**
- **Biomathematics**
- **Biophysics**
- **Biostatistics**

- Botany
- Cytobiology
- **Developmental Biology**
- Ecology
- Entomology
- Enzyme Engineering
- Genetic Engineering
- Immunology

- Molecular Biology
- Nano-Bio-Analysis
- Neurobiology
- Pathology
- Physiology
- **Protein Engineering**
- **Radiation Biology**
- Virology
- Zoology

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the ABB.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handle electronically through the website. All papers are refereed through a peer review process. Authors are responsible for having their papers checked for style and grammar prior to submission to ABB. For more details about the submissions, please access the website.

Website and E-Mail

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

E-mail: abb@scirp.org

- Genetics
- - Microbiology