



Advances in Microbiology



EB-02

EB-06

EB-07

EB-11



Journal Editorial Board

ISSN Print: 2165-3402 ISSN Online: 2165-3410

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

Editors-in-Chief

Prof. Yung-Fu Chang

Cornell University, USA

Prof. Alan W. Decho

University of South Carolina, USA

Associate Editors-in-Chief

Dr. Thaddeus Chukwuemeka Ezeji

The Ohio State University & OARDC, USA

Dr. Chang-Hui Shen

University of New York (CUNY), USA

Editorial Board

Dr. Kayanush (Kai) J. Aryana

Louisiana State University, USA

Prof. Andrei L. Barkovskii

Georgia College & State University, USA

Prof. Frans J. de Bruijn

INRA/CNRS Laboratory of the Interaction Plant-Microorganisms, France

Prof. Sang Ho Choi

Seoul National University, South Korea

Dr. Mohamed O. Elasri

The University of Southern Mississippi, USA

Prof. Daniel Y. C. Fung

Kansas State University, USA

Prof. Elisabeth Grohmann

University of Freiburg, Germany

Dr. Kaisa Haukka

University of Helsinki, Finland

Prof. Ming-Liang He

The Chinese University of Hong Kong, China

Prof. Carlos A. Jerez

University of Chile, Chile

Dr. Zvi Kelman

University of Maryland, USA

Prof. Mohiuddin Md. Taimur Khan

University of New Mexico, USA

Dr. Jian Li

Monash University, Australia

Prof. Yanbin Li

University of Arkansas, USA

Dr. Pamela A. Marshall

Arizona State University, USA

Prof. James Gordon Mitchell

Flinders University, Australia

Dr. Xiaozhen Mou

Kent State University, USA

Prof. Saleh A. Naser

University of Central Florida, USA

Prof. Michele K. Nishiguchi

New Mexico State University, USA

Prof. Heui-Dong Park

Kyungpook National University, South Korea

Prof. Ales Prokop

Technical University Ostrava, Czech Republic

Prof. Alexander Rapoport

University of Latvia, Latvia

Dr. Jyotisna Saxena

The Ohio State University, USA

Dr. Abdelaal Shamseldin

Genetic Engineering and Biotechnology Research Institute, Egypt

Dr. Joy Sinha

ANDalyze, Inc., USA

Dr. Jun Sun

Rush University, USA

Dr. Jimmy Siu Hung Tsang

The University of Hong Kong, China

Dr. Michael K. Watters

Valparaiso University, USA

Dr. Donghui Wen

Peking University, China

Dr. Jing Xu

Northwestern University, USA

Prof. Zhongtang Yu

The Ohio State University, USA

Prof. Olga Zaborina

University of Chicago, USA

Dr. Zhe Zhang

Zhejiang University, China

Table of Contents

Volume 4 Number 10

August 2014

Molecular Characterization of Peruvian Fowl Adenovirus (FAdV) Isolates

J. Rodríguez, Y. Koga, A. Alvarado, R. Tinoco.....595

Microbiota from *Helix aspersa* Müller in Barcelona Area (Spain)

L. P. Caullan, G. G. Vila, E. A. Angulo, A. Calvo, J. A. Marcelo, M. A. C. Torras.....604

Molecular Verification of Two Potent Bacteria Isolated from Darfiyeh Cheese: *Lactococcus lactis* subsp. *Lactis* and *Lactobacillus plantarum*

R. A. Salbi, M. Serhan, M. Bassil.....609

Endomycorrhizal Fungi and *Opuntia ficus-indica* Seed Germination on a Lunar Regolith Simulant

G. Konings-Dudin, M. J. Butcher, J. A. Castor-Macías, B. Kohanloo, M. Garcia.....616

Insights into Pneumococcal Pathogenesis and Antibiotic Resistance

E. S. Donkor, E. V. Badoe.....627

Effect of Heavy Metals on the Growth of Bacteria Isolated from Sewage Sludge Compost Tea

M. Vela-Cano, A. Castellano-Hinojosa, A. F. Vivas, M. V. M. Toledo.....644

Testing of Bacterial Endophytes from Non-Host Sources as Potential Antagonistic Agents against Tomato Wilt Pathogen *Ralstonia solanacearum*

P. Thomas, R. Upreti.....656

Batch, Fed Batch Production and Characterization of Glutaminase Free L-Asparaginase II of *Pectobacterium carotovorum* MTCC 1428 in *Escherichia coli*

R. Goswami, K. Hegde, V. D. Veeranki.....667

Analysis of the Human Oral Microbiome of Smokers and Non-Smokers Using PCR-RFLP and Ribotyping

S. Chakraborty, V. Persaud, S. Vanegas, G. Gautier, N. Esiobu.....681

A Narrative Review of the Laboratory Information System and Its Role in Antimicrobial Resistance Surveillance in South Africa

P. S. Nyasulu, C. Paszko, N. Mbelle.....692

Advances in Microbiology (AiM)

Journal Information

SUBSCRIPTIONS

The *Advances in Microbiology* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly 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: aim@scirp.org



Advances in Microbiology

ISSN Print: 2165-3402 ISSN Online: 2165-3410

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

Advances in Microbiology (AiM) is an international journal dedicated to the latest advancement of Microbiology. 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 Microbiology.

Editors-in-Chief

Prof. Yung-Fu Chang

Prof. Alan W. Decho

Associate Editors-in-Chief

Dr. Thaddeus Chukwuemeka Ezeji

Dr. Chang-Hui Shen

Editorial Board

Dr. Kayanush (Kai) J. Aryana
Prof. Andrei L. Barkovskii
Prof. Frans J. de Bruijn
Prof. Sang Ho Choi
Dr. Mohamed O. Elasm
Prof. Daniel Y. C. Fung
Prof. Elisabeth Grohmann
Dr. Kaisa Haukka
Prof. Ming-Liang He
Prof. Carlos A. Jerez
Dr. Zvi Kelman

Prof. Mohiuddin Md. Taimur Khan
Dr. Jian Li
Prof. Yanbin Li
Dr. Pamela A. Marshall
Prof. James Gordon Mitchell
Dr. Xiaozhen Mou
Prof. Saleh A. Naser
Prof. Michele K. Nishiguchi
Prof. Heui-Dong Park
Prof. Ales Prokop
Prof. Alexander Rapoport

Dr. Jyotisna Saxena
Dr. Abdelaal Shamseldin
Dr. Joy Sinha
Dr. Jun Sun
Dr. Jimmy Siu Hung Tsang
Dr. Michael K. Watters
Dr. Donghui Wen
Dr. Jing Xu
Prof. Zhongtang Yu
Prof. Olga Zaborina
Dr. Zhe Zhang

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:

- Applied and Environmental Microbiology
- Bacteriology
- Microbial Taxonomy
- Microbiology and Biochemistry
- Microbiology and Ecology
- Microbiology and Genetics
- Microbiology and Immunology
- Microbiology and Physiology
- Mycology
- Other Disciplines of Microbiology

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/aim>

E-Mail: aim@scirp.org