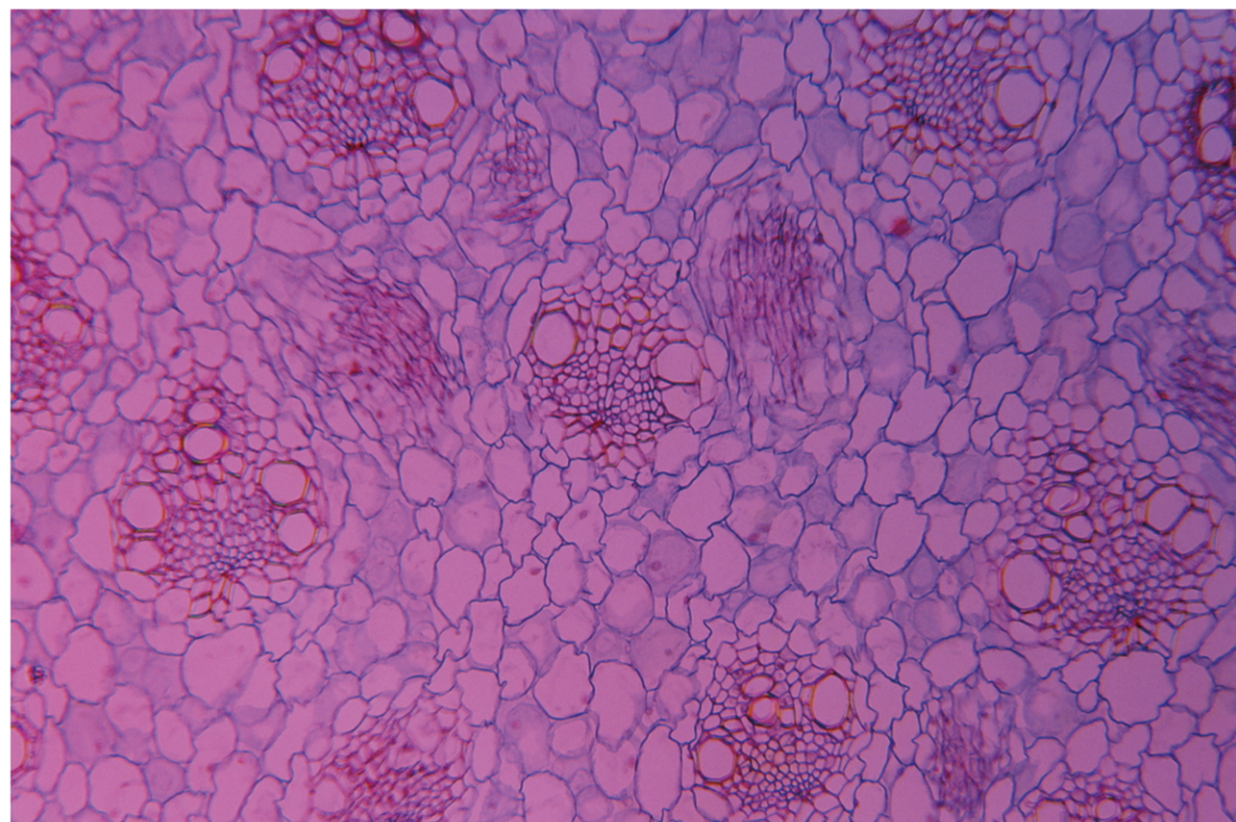




# Open Journal of Medical Microbiology



ISSN: 2165-3372



# Journal Editorial Board

ISSN Print: 2165-3372    ISSN Online: 2165-3380

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

---

## Editor-in-Chief

**Prof. Arun K. Bhunia**                      Purdue University, USA

## Associate Editors

**Dr. L. Caetano M. Antunes**                      University of British Columbia, Canada

**Prof. Meiqing Shi**                      University of Maryland, USA

## Editorial Board

**Prof. Abdulghani Mohamad Alsamarai**                      Tikrit University College of Medicine, Iraq

**Prof. Manal Baddour**                      Alexandria University, Egypt

**Dr. Wuguo Chen**                      University of North Carolina at Chapel Hill, USA

**Prof. Ju-Young Chung**                      Inje University College of Medicine, South Korea

**Dr. Qingming Dong**                      The University of Tennessee Health Science Center, USA

**Dr. William G. Dundon**                      IAEA Laboratories, Austria

**Prof. Ravi Durvasula**                      University of New Mexico, USA

**Dr. Zdenek Hel**                      University of Alabama at Birmingham, USA

**Prof. Antonio Marcilla**                      Universitat de València, Spain

**Dr. Bradford S. McGwire**                      The Ohio State University, USA

**Prof. Tzi Bun Ng**                      The Chinese University of Hong Kong, China

**Prof. Ching-An Peng**                      Michigan Technological University, USA

**Prof. Carolina Scagnolari**                      Sapienza University of Rome, Italy

**Dr. Gyanendra Singh**                      Louisiana State University Health Sciences Center, USA

**Prof. Rafael Toledo**                      University of Valencia, Spain

**Dr. Paul Wai-Kei Tsang**                      The University of Hong Kong, China

**Dr. Tibor Valyi-Nagy**                      University of Illinois at Chicago, USA

**Dr. X. Frank Yang**                      Indiana University, USA

## Table of Contents

Volume 4    Number 3

September 2014

### Review on Molecular Typing Methods of Pathogens

T. H. Lin, L. Y. Lin, F. Zhang.....147

### Detection of the Mex Efflux Pumps in *Pseudomonas aeruginosa* by Using a Combined Resistance-Phenotypic Markers and Multiplex RT-PCR

K. Poonsuk, R. Chuanchuen.....153

### Cancer and Infectious Causes

A. J. Smith, J. Oertle, D. Prato.....161

### Immunotherapy in Cancer Treatment

A. J. Smith, J. Oertle, D. Prato.....178

### Autologous Natural Killer Cell/Natural Killer T Cell Immunotherapy of Malignant Diseases

A. J. Smith, J. Oertle, D. Prato.....192

# **Open Journal of Medical Microbiology (OJMM)**

## **Journal Information**

### **SUBSCRIPTIONS**

The *Open Journal of Medical Microbiology* (Online at Scientific Research Publishing, [www.SciRP.org](http://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](mailto:sub@scirp.org)

### **SERVICES**

#### **Advertisements**

Advertisement Sales Department, E-mail: [service@scirp.org](mailto:service@scirp.org)

#### **Reprints (minimum quantity 100 copies)**

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: [sub@scirp.org](mailto: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: [ojmm@scirp.org](mailto:ojmm@scirp.org)





**Call for Papers**

# Open Journal of Medical Microbiology

**ISSN Print: 2165-3372    ISSN Online: 2165-3380**

**[www.scirp.org/journal/ojmm](http://www.scirp.org/journal/ojmm)**

**Open Journal of Medical Microbiology (OJMM)** is an international journal dedicated to the latest advancement of Medical 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 Medical Microbiology.

## Editor-in-Chief

**Prof. Arun K. Bhunia**

Purdue University, USA

## Associate Editors

**Dr. L. Caetano M. Antunes**  
**Prof. Meiqing Shi**

University of British Columbia, Canada  
University of Maryland, USA

## Editorial Board

**Prof. Abdulghani Mohamad Alsamarai**  
**Prof. Manal Baddour**  
**Dr. Wuguo Chen**  
**Prof. Ju-Young Chung**  
**Dr. Qingming Dong**  
**Dr. William G. Dundon**  
**Prof. Ravi Durvasula**  
**Dr. Zdenek Hel**  
**Prof. Antonio Marcilla**  
**Dr. Bradford S. McGwire**  
**Prof. Tzi Bun Ng**  
**Prof. Ching-An Peng**  
**Prof. Carolina Scagnolari**  
**Dr. Gyanendra Singh**  
**Prof. Rafael Toledo**  
**Dr. Paul Wai-Kei Tsang**  
**Dr. Tibor Valyi-Nagy**  
**Dr. X. Frank Yang**

Tikrit University College of Medicine, Iraq  
Alexandria University, Egypt  
University of North Carolina at Chapel Hill, USA  
Inje University College of Medicine, South Korea  
The University of Tennessee Health Science Center, USA  
IAEA Laboratories, Austria  
University of New Mexico, USA  
University of Alabama at Birmingham, USA  
Universitat de València, Spain  
The Ohio State University, USA  
The Chinese University of Hong Kong, China  
Michigan Technological University, USA  
Sapienza University of Rome, Italy  
Louisiana State University Health Sciences Center, USA  
University of Valencia, Spain  
The University of Hong Kong, China  
University of Illinois at Chicago, USA  
Indiana University, USA

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:

- Clinical Microbiology and Infection
- Clinical Virology
- Diagnostic Microbiology and Infectious Disease
- Medical Bacteriology
- Medical Microbiology and Immunology
- Medical Mycology
- Medical Parasitology
- Systematic and Applied 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/ojmm>**

**E-Mail: [ojmm@scirp.org](mailto:ojmm@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 with its publication.

## ***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, 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



**Scientific  
Research**

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

**Subscription: [sub@scirp.org](mailto:sub@scirp.org)**

**Advertisement: [service@scirp.org](mailto:service@scirp.org)**