

ISSN: 2329-843X

Volume 5, Number 4, December 2017



# Journal of Tuberculosis Research



ISSN: 2329-843X



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

# Journal Editorial Board

ISSN: 2329-843X (Print) ISSN: 2329-8448 (Online)

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

---

## Editor-in-Chief

**Dr. Wing Cheong Yam** The University of Hong Kong, China

## Editorial Board

**Dr. Chien-Yuan Chen** National Taiwan University Hospital, Chinese Taipei

**Dr. Joao Paulo dos Santos Fernandes** Federal University of Sao Paulo, Brazil

**Prof. T. Aboul-Fadl M. Hassan** Assiut University, Egypt

**Prof. Asmaa Abdel-Nasser Ahmed Hussein** Assiut University, Egypt

**Dr. Thomas Richard Ioerger** Texas A&M University, USA

**Dr. Ana Angélica Bulcão Portela Lindoso** Instituto de Tuberculose Clemente Ferreira, Brazil

**Dr. Roberto Manfredi** University of Bologna, Italy

**Prof. Saleh A. Naser** University of Central Florida, USA

**Dr. James Oloya** University of Georgia, USA

**Prof. Fernando Rogério Pavan** Sao Paulo State University (UNESP), Brazil

**Prof. Manju Raj Purohit** R. D. Gardi Medical College, India

**Dr. Alejandro Sanchez** University Southern California, USA

**Dr. Gilman Siu** The Hong Kong Polytechnic University, China

**Dr. Jianxun (Jim) Song** Penn State University College of Medicine, USA

**Prof. Mark Spigelman** Hebrew University, Israel

**Dr. Wenjie Sun** Tulane University, USA

**Dr. Zhaogang Sun** Capital Medical University, China

**Prof. Nelson Leung-Sang Tang** The Chinese University of Hong Kong, China

# Table of Contents

**Volume 5    Number 4**

**December 2017**

<b>Drug Susceptibility Patterns of <i>Mycobacterium tuberculosis</i> Isolates from Tuberculosis Patients in Coastal Kenya</b>	
S. A. Yonge, M. F. Otieno, R. R. Sharma, S. S. Nteka.....	201
<b>Adding Sputum Collection and Transportation Services for Early Identification TB Cases in Hard-to-Reach Difficult Terrain—Will It Help?</b>	
B. Thapa, B. M. Prasad, S. S. Chadha, S. Mohanty, D. R. Mishra, J. Tonsing.....	220
<b>Trends in the Annual Incidence of Carbapenem Resistant among Gram Negative Bacilli in a Large Teaching Hospital in Makah City, Saudi Arabia</b>	
H. S. Faidah, A. M. Momenah, H. M. El-Said, A. A. A. Barhameen, S. S. Ashgar, A. Johargy, A. Elsayy, W. Almalki, S. Al Qurashi.....	229
<b>Treatment Initiation among Patients with Multidrug Resistant Tuberculosis in Bhopal District, India</b>	
H. D. Shewade, A. M. Kokane, A. R. Singh, M. Verma, M. Parmar, S. S. Chahar, M. Tiwari, S. N. Khan, M. Nagar, S. K. Singh, P. K. Mehra, A. M. V. Kumar.....	237
<b>Anemia and Hematologic Characteristics in Newly Diagnosed Pulmonary Tuberculosis Patients at Diagnosis in Kinshasa</b>	
C. M. Mulenga, J.-M. N. Kayembe, B. O. Kabengele, A. Bakebe.....	243
<b>Prediction of Smear Positive TB Cases at Different Types of Designated Microscopy Centres, Karnataka, India</b>	
S. B. Nagaraja, S. Shastri, J. P. Tripathy, G. Sharma, S. M. Kunjathur, A. Singarajipur, S. Chadha.....	258
<b>Latent Tuberculosis Infection among Household Contacts of Pulmonary Tuberculosis Cases in Central State, Sudan: Prevalence and Associated Factors</b>	
A. M. Aman, Z. A. Zeidan.....	265
<b>Factors Associated with Mortality among Multidrug Resistant Tuberculosis MDR/RR-TB Patients in Democratic Republic of Congo</b>	
M. I. Kashongwe, L. Mbulula, P. Umba, F. B. Lepira, M. Kaswa, Z. M. Kashongwe.....	276
<b>Comparison of HIV Testing among Children and Adults with Tuberculosis, Vietnam</b>	
T. Volkmann, B. Nguyen, E. G. Anyalechi, K. N. C. Hedges, H. V. Anh, P. Q. Tue, N. V. Nhung, E. S. Click.....	292

# Journal of Tuberculosis Research (JTR)

## Journal Information

### SUBSCRIPTIONS

The *Journal of Tuberculosis Research* (Online at Scientific Research Publishing, [www.SciRP.org](http://www.SciRP.org)) is published quarterly by Scientific Research Publishing, Inc., USA.

#### **Subscription rates:**

Print: \$59 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 © 2017 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 © 2017 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.

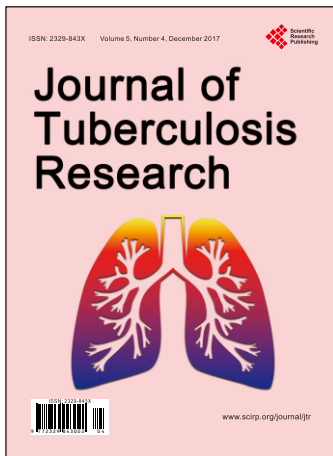
#### **Disclaimer of liability**

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: [jtr@scirp.org](mailto:jtr@scirp.org)



# Journal of Tuberculosis Research

ISSN: 2329-843X (Print) ISSN: 2329-8448 (Online)

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

Journal of Tuberculosis Research (JTR) is an openly accessible journal. 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 tuberculosis research.

All manuscripts must be prepared in English, and are subject to a rigorous peer-review process. Accepted papers will immediately appear online followed by printed hard copy. The areas covered by Journal of Tuberculosis Research (JTR) include but are not limited to the following fields:

- Advances in Tuberculosis Research
- Clinical Symptoms and Signs of Tuberculosis
- Diagnostics of Tuberculosis
- Genetics Impact on Tuberculosis
- Immunology in Tuberculosis
- Inflammation of Tuberculosis
- Mode of Transmission
- Mycobacterium
- Nursing and Dietary of Tuberculosis Patients
- Pathogenesis of Tuberculosis
- Pathological Change of Tuberculosis
- Risk Factors for Tuberculosis
- Social and Cultural Intervention
- TB and HIV Co-Infection
- Tubercle Bacillus
- Tuberculosis Infection and Reinfection
- Tuberculosis Prevention and Control
- Tuberculosis Treatment
- Various Tuberculosis

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/jtr>

E-mail: [jtr@scirp.org](mailto:jtr@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  
Publishing**

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

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

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