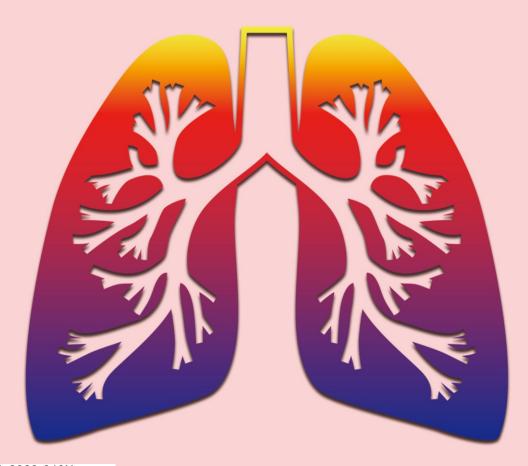




# Journal of Tuberculosis Research





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

# **Journal Editorial Board**

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

https://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. Daniel G. Datiko REACH Ethiopia, Ethiopia

**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



Volume 7

Number 3

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

September 2019

# **Table of Contents**

# 

## Journal of Tuberculosis Research (JTR) Journal Information

### **SUBSCRIPTIONS**

The *Journal of Tuberculosis Research* (Online at Scientific Research Publishing, <a href="https://www.scirp.org/">https://www.scirp.org/</a>) 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

### **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 © 2019 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 © 2019 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.

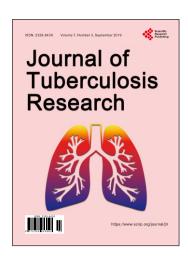
### Disclaimer of liability

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



# **Journal of Tuberculosis Research**

ISSN: 2329-843X (Print) ISSN: 2329-8448 (Online) https://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 Tuberculosises

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

https://www.scirp.org/journal/jtr E-mail: jtr@scirp.org