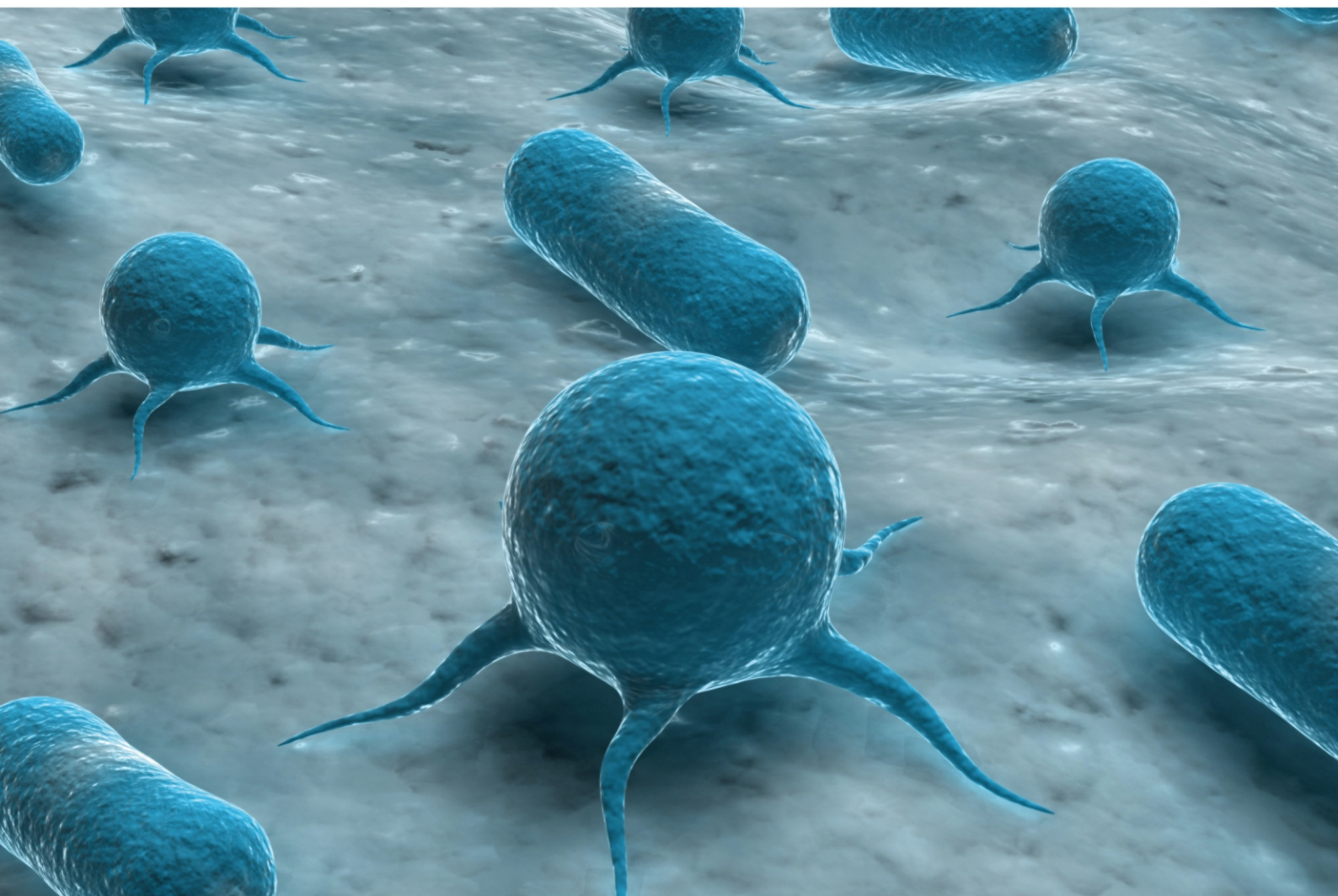


ISSN: 2164-2648 Volume 13, Number 3, September 2023



# Advances in Infectious Diseases



ISSN: 2164-2648



<https://www.scirp.org/journal/aid>

# Journal Editorial Board

ISSN 2164-2648 (Print) ISSN 2164-2656 (Online)

<https://www.scirp.org/journal/aid>

---

## Editor-in-Chief

**Prof. John T. Nwangwu**

Southern Connecticut State University, USA

## Associate Editor

**Dr. Guozheng Wang**

University of Liverpool Institute of Infection and Global Health, UK

## Editorial Board

**Dr. Syed Habib Bokhari**

Comsats Institute of Information Technology, Pakistan

**Prof. Sang Ho Choi**

Seoul National University, South Korea

**Prof. Daniel Y. C. Fung**

Kansas State University, USA

**Prof. Michal Holub**

Charles University in Prague, Czech Republic

**Prof. Zhiyong Hong**

University of Ottawa, Canada

**Dr. Nahed A. G. Al Laham**

Al Azhar University-Gaza, Palestine

**Dr. Francisca Mutapi**

University of Edinburgh, UK

**Dr. Giacomo Maria Paganotti**

University of Rome "La Sapienza", Italy

**Dr. Vamsi Parini**

Northwestern University, USA

**Dr. Zhiqiang Qin**

Medical University of South Carolina, USA

# Table of Contents

Volume 13 Number 3

September 2023

## **Malaria Retinopathy among Under-Five Children with Severe and Uncomplicated Malaria in a Tertiary Health Institution in Southwest Nigeria: A Comparative Study**

O. O. Olayinka, P. O. Abiodun, T. O. Jegede, I. O. Fasoranti, Q. O. Salau, A. J. Kareem, J. N. Olayinka, E. S. Obasohan, B. D. Babalola, A. A. Ademuyiwa, F. T. Ekogiawe, I. S. Abazu, E. O. Babalola.....355

## **Characteristics, Management, and Outcomes of Tetanus Cases in a Referral Center in Senegal, between 2010 and 2017**

D. Thioub, N. A. Lakhe, K. D. Mbaye, P. L. J. Diouf, C. Sarr, N. A. Sarr, A. S. Badiane, M. Seck, N. M. Fall, V. M. P. Cisse-Diallo, D. Ka, M. Seydi, L. Fortes.....375

## **Survival of Antiretroviral Therapy Patients at the Outpatient Treatment Centre of the Community University Hospital of Bangui from 2015 to 2020**

S. H. Woromogo, P. R. J. M. Yamotende, J. S. S. Antaon, D. Nebardoum, H. Ngouakam, P. M. Tebeu.....389

## **Mortality and Morbidity among COVID-19-Associated Mucormycosis Patients in Iran: A Prospective Cohort Study**

S. Dolatabadi, M. Bakhshae, M. Hosseinpoor, A. A. Noghani, M. Afzalzadeh, I. Roshanzamir, B. Rasoulian, Z. E. Mohammadie, A. Ghodsi, N. Forghani, P. Arjmand, Z. Valipour, N. Ameli.....407

## **Assessing the Impacts of Climate Change on Water-Borne Diseases: A Comparative Study on Taltali Upazila of Barguna District**

Mithila, S. Ashik-E-Elahi, T. M. Abir.....424

## **Evaluating Vancomycin Clinical Outcomes Using Area under the Curve versus Trough Based Dosing Strategies**

C. A. Schneider, W. Rodriguez, J. Martinez, W. R. Wolowich.....442

## **The Association between Vitamin D Deficiency and Developing COVID-19 Related Serious Illnesses—A Systematic Review and Meta-Analysis**

A. K. Chowdhury.....452

## **Prevalence of Coinfection Malaria-Covid-19 at the International Hospital Center of Kinshasa during the 3<sup>rd</sup> Wave of the Pandemic**

A. M. M. Mayala, D. N. Diama, A. A. M. Diama, J. P. L. Fina, P. N. Lukanu.....468

## **Involvement of Dectin-2 in the Innate Inflammatory Response Triggered by Influenza Virus Hemagglutinin**

H. Yamamoto, C. Tomiyama, S. Yamasaki, S. Saijo, Y. Iwakura, K. Kawakami.....478

**Brazilian Spotted Fever Mortality Profile: 2018 to 2022**

D. S. Kassada, P. C. P. da Costa, G. B. de Castro, I. C. Nogueira, H. C. Oliveira, D. Marques.....498

**The Effect of Dexamethasone versus Methylprednisolone in the Treatment of COVID-19 Patients in Jordan**

J. W. Al Ramahi, N. Hasan, A. Matar, M. M. Al-Ali, L. Abdulhadi, D. A. Kaf, W. Saadeh, N. Hamdan,  
H. A. Khalaf, M. Gharaibeh, H. Hamadallah, A. Bader, M. Atout, S. M. Mar'I, T. Alhamed.....508

**Simultaneous Neurocysticercosis and Cerebral Toxoplasmosis in a Patient Living with HIV—Case Report**

E. Leal, J. Caria, V. Almeida, C. Cruz, A. R. Garrote, M. Mafra, F. Ramirez, D. Póvoas, M. J. Manata,  
F. Maltez.....521

## Advances in Infectious Diseases (AID)

### Journal Information

#### SUBSCRIPTIONS

The *Advances in Infectious Diseases* (Online at Scientific Research Publishing, <https://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 © 2023 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 © 2023 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: [aid@scirp.org](mailto:aid@scirp.org)



# Advances in Infectious Diseases

ISSN 2164-2648 (Print) ISSN 2164-2656 (Online)  
<https://www.scirp.org/journal/aid>

**Advances in Infectious Diseases** is an international journal dedicated to the latest advancements in infectious diseases. The goal of this journal is to provide a platform for researchers and academics all over the world to promote, share, and discuss various new issues and developments in infectious diseases related problems.

## Editor-in-Chief

Prof. John T. Nwangwu

Southern Connecticut State University, USA

## Associate Editor

Dr. Guozheng Wang

University of Liverpool Institute of Infection and Global Health, UK

## Editorial Board

Dr. Syed Habib Bokhari

Prof. Sang Ho Choi

Prof. Daniel Y. C. Fung

Prof. Michal Holub

Prof. Zhiyong Hong

Dr. Nahed A. G. Al Laham

Dr. Francisca Mutapi

Dr. Giacomo Maria Paganotti

Dr. Vamsi Parini

Dr. Zhiqiang Qin

Comsats Institute of Information Technology, Pakistan

Seoul National University, South Korea

Kansas State University, USA

Charles University in Prague, Czech Republic

University of Ottawa, Canada

Al Azhar University-Gaza, Palestine

University of Edinburgh, UK

University of Rome "La Sapienza", Italy

Northwestern University, USA

Medical University of South Carolina, USA

## Subject Coverage

All manuscripts must be prepared in English and are subject to a rigorous and fair peer-review process. Generally, accepted papers will appear online within 3 weeks followed by printed hard copy. The journal publishes original papers including but not limited to the following fields:

- Diarrheal Diseases
- Emerging Infectious Diseases
- Epidemiology and Infection
- Fungal Infection
- Global Infectious Diseases
- Hepatitis B
- HIV/AIDS
- Hospital Infection
- Immunology, Microbiology and Infectious Diseases
- Infection and Chemotherapy
- Infection and Public Health
- Infection Control
- Infection Prevention
- Infection, Genetics and Evolution
- Infectious Agents and Cancer
- Infectious Diseases in Obstetrics and Gynecology
- Lower Respiratory Infections
- Maladies Infectiousness
- Malaria
- Measles
- Meningitis
- Microbes and Infection
- Ophthalmic Inflammation and Infection
- Pediatric Infectious Diseases
- Pertussis
- Syphilis
- Tetanus
- Transplant Infectious Disease
- Travel Medicine and Infectious Disease
- Tropical Diseases
- 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.

## Website and E-Mail

<https://www.scirp.org/journal/aid>

E-mail: [aid@scirp.org](mailto:aid@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: <https://www.scirp.org>**

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

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