

ISSN: 2160-5815

Vol. 2, No. 3, August 2012



Scientific  
Research

# World Journal of Vaccines

ISSN: 2160-5815



9 772160 581002 03

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

# Journal Editorial Board

ISSN 2160-5815 (Print) ISSN 2160-5823 (Online)

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

---

## Editor in Chief

**Prof. Andrew W. Heath**

University of Sheffield, UK

## Editorial Board

**Dr. Anshu Agrawal**

University of California, USA

**Prof. Igor M. Belyakov**

Midwest Research Institute, USA

**Dr. Lbachir BenMohamed**

University of California Irvine, USA

**Dr. Siddappa N. Byraredy**

Harvard Medical School, USA

**Dr. Joseph J. Carter**

Fred Hutchinson Cancer Research Center, USA

**Dr. Wangxue Chen**

National Research Council, Canada

**Dr. Brendon J. Coventry**

University of Adelaide, Australia

**Prof. Diane M. Harper**

University of Missouri, USA

**Dr. Zdenek Hel**

University of Alabama at Birmingham, USA

**Dr. Fang-Ping Huang**

Imperial College, UK

**Dr. Kenji Kabashima**

Kyoto University, Japan

**Prof. Mark S. Kindy**

Medical University of South Carolina, USA

**Prof. Rolf König**

University of Texas Medical Branch, USA

**Prof. Xuguang Li**

University of Ottawa, Canada

**Dr. Byron E. Martina**

Erasmus MC, The Netherlands

**Dr. Vladimir L. Motin**

University of Texas Medical Branch, USA

**Prof. Satya Parida**

Institute for Animal Health, UK

**Dr. Thandavarayan Ramamurthy**

National Institute of Cholera and Enteric Diseases, India

**Prof. Periasamy Selvaraj**

Emory University School of Medicine, USA

**Dr. Manmohan Singh**

Novartis Vaccines, USA

**Prof. Kyoko Tsukiyama-Kohara**

Kumamoto University, Japan

**Dr. Yifan Zhan**

The Walter and Eliza Hall Institute of Medical Research, Australia

## TABLE OF CONTENTS

**Volume 2    Number 3**

**August 2012**

<b>Therapeutic MUC1-Based Cancer Vaccine Expressed in Flagella—Efficacy in an Aggressive Model of Breast Cancer</b>	
N. Machluf, R. Arnon.....	109
<b>Breaking the Barriers to Access a Low Cost Intra-Dermal Rabies Vaccine through Innovative “Pooling Strategy”</b>	
O. K. Bharti, W. Van Damme, K. Decoster, P. Isaakidis, A. Appelmans, V. Ramachandran, A. Phull.....	121
<b>Characterization of Influenza H5N1 Nucleocapsid Protein for Potential Vaccine Design</b>	
A. Buffone, S. Dionne, M. A. Hefford.....	125
<b>Characteristics of Invasive Pneumococcal Disease in Young Children before the Introduction of PCV13 in Lombardy, Italy</b>	
G. Radaelli, E. Riva, M. Giovannini.....	143
<b>Ubiquitin Reduces Expression of Intercellular Adhesion Molecules and Tumor Necrosis Factor-<math>\alpha</math> in Lung Tissue of Experimental Acute Lung Injury</b>	
Z.-Y. He, J. Xing.....	151
<b>Purification of <i>Dengue Virus</i> Particles by One-Step Ceramic Hydroxyapatite Chromatography</b>	
Y. Kurosawa, M. Saito, S. Kobayashi, T. Okuyama.....	155
<b>The Prevalence of <i>Mycoplasma hyopneumoniae</i> in Commercial Suckling Pigs in Thailand</b>	
A. Boonsoongnern, P. Jirawattanapong, P. Lertwatcharasarakul, S. Phatthanakunanan, P. Poolperm, S. Urairong, W. Navasakuljinda, K. Urairong.....	161
<b>The Burden of Hospitalisations for Herpes Zoster Ophthalmicus in Spain (1997-2008)</b>	
R. Gil-Prieto, A. Álvaro-Meca, A. G.-E. Mena, J. M. Guillén-Ortega, Á. Gil-De-Miguel.....	164
<b>Epidemic Outbreaks in Plovdiv Region (Bulgaria) of Vaccine-Preventable Diseases: Measles, Mumps, Hepatitis A (2006-2010)</b>	
N. T. Vatev, M. V. Stoycheva, A. I. Petrov, R. D. Velcheva.....	172

# **World Journal of Vaccines (WJV)**

## **Journal Information**

### **SUBSCRIPTIONS**

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

#### **Subscription rates:**

Print: \$39 per copy.

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©2012 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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



# World Journal of Vaccines (WJV)

ISSN 2160-5815 (Print) ISSN 2160-5823 (Online)

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

**World Journal of Vaccines (WJV)** is an international journal dedicated to the latest advancement of vaccines. 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 ordered algebraic vaccines.

## Subject Coverage

This journal invites original research and review papers that address the following issues. Topics of interest include, but are not limited to:

- Adjuvants
- Autoimmune Disease
- Bacteriology
- Cancer Immunotherapy
- Epidemiology
- Immunology
- Immunomodulators
- Immunopathology
- Immunopharmacology
- Parasitology
- Virology

We are also interested in: 1) Short Reports—2 to 5 pages where the paper is intended to present either an original idea with theoretical treatment or preliminary data and results; 2) Book Reviews—Comments and critiques of recently published books in the vaccine field; 3) Review articles in areas of potential interest to the readership of WJV.

## 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/wjv>

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