



INTERNATIONAL  
SOCIETY  
FOR INFECTIOUS  
DISEASES

# International Journal of Infectious Diseases

OFFICIAL PUBLICATION OF THE INTERNATIONAL SOCIETY FOR INFECTIOUS DISEASES

## *Editor-in-Chief*

**Professor Eskild Petersen, MD, DMSc, MBA**  
Institute of Clinical Medicine,  
Aarhus University, Aarhus, Denmark  
Email: eskildp@dadlnet.dk

## *Editors*

### **Professor Kami Kim MD**

Professor of Infectious Diseases, Immunology and Microbiology  
Jack and Pearl Resnick Campus,  
Albert Einstein College of Medicine  
Bronx, NY 10461, New York, USA

### **Professor Shui Shan Lee**

Deputy Director, Stanley Ho Centre for Emerging Infectious Diseases  
The Chinese University of Hong Kong,  
2/F Postgraduate Education Centre,  
Prince of Wales Hospital, Shatin, Hong Kong

### **Professor Lucille Blumberg**

Deputy-Director, Epidemiology & Medical Consultant,  
Centre for Emerging and Zoonotic Diseases PRF Building,  
1 Modderfontein Rd, Sandringham, Johannesburg, 2131

## *Editorial Office*

**Isabela Caus**  
Tel.: +44 (0) 1865 843672  
Fax: +44 (0) 1865 843992  
ijid@elsevier.com

## International Society for Infectious Diseases

### *Executive Committee*

Jonathan Cohen, UK (President)  
Rana Hajjeh, Egypt (Secretary)  
Alison Holmes, UK (Treasurer)  
Gagandeep Kang, India  
Keith Klugman, USA (Past-president)

Marc Mendelson, South Africa (President-elect)  
Ziad Memish, Saudi Arabia  
Miguel O'Ryan, Chile  
Paul Tambyah, Singapore  
Ursula Theuretzbacher, Austria

### *Publications Committee*

Philippe Buchy  
Alison Holmes  
Claudio Lanata  
Britta Lassmann  
SS. Lee  
Shaheen Mehtar  
Ziad Memish

Eskild Petersen  
Didier Pittet  
Gonzalo Bearman  
Veasna Duong  
Enrique Castro Sanchez  
William Powderly  
Jaffar Al-Tawiq

### *International Council*

Laith J. Abu-Raddad, *Qatar*  
Mohannad A.A. Al-Nsour, *Jordan*  
Celia Mercedes Alpuche, *Mexico*  
Maria Luisa Avila, *Costa Rica*  
Ramy Aziz, *Egypt*  
Gonzalo Bearman, *USA*  
Paul Brown, *Jamaica*  
Philippe Buchy, *Cambodia*  
Francois Caron, *France*  
Ana Paulina Celi, *Ecuador*  
Sergio Cimmerman, *Brazil*  
Carmen Deseda, *Puerto Rico*  
Onder Ergoenul, *Turkey*  
Teshome Gebre, *Ethiopia*  
Maria Guzman, *Cuba*  
Lindsay Grayson, *Australia*  
Robert Heyderman, *UK*  
Aikichi Iwamoto, *Japan*  
Sasisopin Kiertiburanakul, *Thailand*  
Claudio Lanata, *Peru*  
Ramanan Laxminarayan, *USA*

SS. Lee, *Hong Kong*  
Poh Lian Lim, *Singapore*  
Shabir Madhi, *South Africa*  
Neelika Malavige, *Sri Lanka*  
Francois-Xavier Mbopi-Keou, *Cameroon*  
Shaheen Mehtar, *South Africa*  
Paul Newton, *Laos*  
Hanna Nohynek, *Finland*  
Guillermo Ruiz Palacios, *Mexico*  
Didier Pittet, *Switzerland*  
William Powderly, *USA*  
Ranjan Premaratna, *Sri Lanka*  
Sally Roberts, *New Zealand*  
Samir Saha, *Bangladesh*  
Papa Salif Sow, *Senegal*  
Rola Samaha, *Lebanon*  
Roberto Salvino, *Philippines*  
Eduardo Savio, *Uruguay*  
Patricia Schlegelhauf, *Switzerland*  
Yupin Supputtamongkul, *Thailand*

### *Editorial Board*

Jaffar Al-Tawfiq, *Saudi Arabia*  
Ashis Balla, *India*  
Bin Cao, *China*  
Ron Dagan, *Israel*  
David Fisman, *Canada*  
Rodrigo Guabiraba, *France*  
Hajjeh, *Atlanta, Georgia, USA*  
Mark Holodniy, *Stanford, California, USA*  
Yao Kaihu, *China*  
Keith Klugman, *USA*  
Hakan Leblebicioglu, *Turkey*  
Marc Mendelson, *South Africa*  
Xavier Sáez-Llorens, *Panama*

Officers of the ISID may be reached  
at the Society's headquarters by  
Fax: +1 617-278-9113