

# ANNALI

dell'Istituto Superiore di Sanità

A SCIENCE JOURNAL FOR PUBLIC HEALTH

## Publication

*Annali dell'Istituto Superiore di Sanità* is published quarterly and in special issues.  
Freely available online at [www.iss.it/annali](http://www.iss.it/annali) - <https://annali.iss.it>

## Annali dell'Istituto Superiore di Sanità is indexed in

- CAB
- CHEMABS
- EMBASE/Excerpta Medica
- FSTA
- MEDLINE
- ProQuest
- SCOPUS
- WEB OF SCIENCE

The Journal Impact Factor is 1.370

## Annali Editorial Office

Scientific Communication Service  
Istituto Superiore di Sanità  
Viale Regina Elena 299, 00161 Rome, Italy  
Tel.: +39 06 49902945 Fax: +39 06 49902253  
E-mail: [annali@iss.it](mailto:annali@iss.it)  
[www.iss.it/annali](http://www.iss.it/annali) - <https://annali.iss.it>

Papers to be presented for publication should be submitted online  
to <https://annali.iss.it>

Instructions to Authors are available online at <https://annali.iss.it>

## Publishing support

Il Pensiero Scientifico Editore, Rome  
Via San Giovanni Valdarno 8, 00138 Rome, Italy  
[www.pensiero.it](http://www.pensiero.it)

## Subscription information & terms

Il Pensiero Scientifico Editore  
Tel.: +39 06 86282324 Fax: 06 86282250  
E-mail: [abbonamenti@pensiero.it](mailto:abbonamenti@pensiero.it)

Year 2021

Italy individual subscription € 57,00 | Italy institutional subscription € 67,00.

Other countries € 67,00

Each quarterly issue € 21,00

Responsibility for the contents and opinions expressed on this journal  
rests solely with the Author(s).

ISSN 0021-2571 (print), 2384-8553 (online)

Coden: AISSAW 57 (No. 3)

©Istituto Superiore di Sanità 2021.

Some rights reserved.



Reg. Stampa - Tribunale di Roma, n. 482 del 29 ottobre 1985 (cartaceo); n. 121 del 16 maggio 2014 (online)



Printed in June 2021 by Ti Printing s.r.l.  
Via Case Rosse 23, 00131 Rome, Italy

# ANNALI

dell'Istituto Superiore di Sanità  
A SCIENCE JOURNAL FOR PUBLIC HEALTH

**President of the Istituto Superiore di Sanità**

Silvio Brusaferrò

**Responsible Director**

Paola De Castro

**Editor-in-chief**

Enrico Alleva

*Istituto Superiore di Sanità*

**Assistant Editor**

Federica Napolitani Cheyne

*Istituto Superiore di Sanità*

**Scientific Committee**

Enrico Alleva, Luca Busani, Pietro Comba, Paola De Castro, Paola Fattibene, Alessandro Giuliani, Antonio Mistretta, Carlo Petrini, Giovanni Rezza, Emanuele Scafato, Marina Torre

*Istituto Superiore di Sanità*

**Editorial Committee**

Annarita Barbaro, Maria Cristina Barbaro, Alessandra Fuglieni, Federica Napolitani Cheyne, Laura Radiciotti

*Istituto Superiore di Sanità*

**OJS Site Administrator**

Daniele Cordella

*Istituto Superiore di Sanità*

**Editorial Advisory Board**

Chris Beyrer

*Johns Hopkins Bloomberg School of Public Health, Baltimore, USA*

Jacqueline N. Crawley

*Laboratory of Behavioral Neuroscience, NIMH, NIH, Bethesda, USA*

Juana Martín de las Mulas González-Albo

*Dpto de Anatomía y Anatomía Patológica Comparada, Facultad de Veterinaria, UCO, Córdoba, Spain*

Jean-François Delfraissy

*Agence Nationale de Recherches sur le sida et les hépatites virales, Paris, France*

Tony Fletcher

*London School of Hygiene & Tropical Medicine, London, UK*

Sui Huang

*Institute for Systems Biology, Seattle, USA*

Stefania Maggi

*CNR Aging Branch Institute of Neuroscience, Padova, Italy*

Francesco M. Marincola

*Infectious Disease and Immunogenetics Section, NIH, Bethesda, USA*

Ana Marušić

*Dept of Research in Biomedicine and Health, University of Split School of Medicine, Croatia*

Patrick Smeesters

*Université Catholique de Louvain, Louvain-La-Neuve, Belgium*

Kurt Straif

*ISGlobal, Barcelona and Visiting Professor at Boston College*

David Vlahov

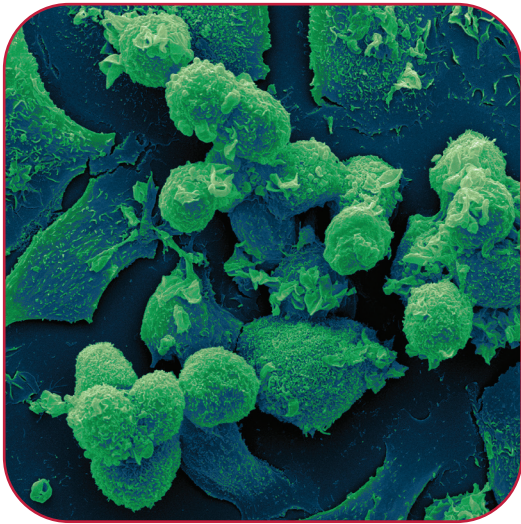
*School of Nursing, University of California, San Francisco, CA, USA*

Bernard Zalc (Boris)

*Centre de Recherche de l'Institut du Cerveau et de la Moelle épinière, UPMC, Paris, France*

*Graphic design of the cover: Massimo Delle Femmine, Istituto Superiore di Sanità*

*The photograph on the cover is a scansion electron microscope image of human adenocarcinoma cell line SKBR3 treated with Aloe emodin for 24 h provided by Marisa Colone, CNRVF, Istituto Superiore di Sanità, Italy.*



# ANNALI

dell'Istituto Superiore di Sanità

Vol. 57, No. 3 2021

## Contents

### Letter

- 199 *Legionella pneumophila* and SARS-COV-2 co-infection: the importance of laboratory diagnosis  
*Maria Cristina Rota, Maria Grazia Caporali, Maria Scaturro, Antonietta Girolamo, Xanthi Andrianou and Maria Luisa Ricci*

### COMMENTARY

- 201 Challenges on the achievement of the World Health Organization goals for HCV elimination in Italy: need for a Regional programmatic approach on screening and linkage to care  
*Loreta A. Kondili, Alessio Aghemo and Massimo Andreoni*

### ORIGINAL ARTICLES AND REVIEWS

- 205 Mortality risk in a population of patients treated for gambling disorders: results of a follow-up study  
*Raimondo Maria Pavarin, Marco Domenicali, Silvia Marani, Elsa Turino and Fabio Caputo*
- 212 The evaluation of capacity in dementia: ethical constraints and best practice. A systematic review  
*Marina Gasparini, Valentina Moro, Stefania Amato, Nicola Vanacore and Giuseppe Gambina*
- 226 Community waterborne outbreak linked to a firefighting response during the COVID-19 emergency  
*Simona Nascetti, Luca Busani, Franco Bartoli, Riccardo Orioli, Alberta Stenico and Dagmar Regele*

- 233** Dioxins and PCBs contamination in milk and dairy products from Province of Taranto (Puglia Region, Southern Italy): a six years spatio-temporal monitoring study  
*Orazio Valerio Giannico, Grazia Rita Fragnelli, Simona Baldacci, Francesco Desiante, Angelo Pellegrino, Fabrizio Cosimo Basile, Ettore Franco, Gianfranco Diletti and Michele Conversano*
- 239** The Italian National Faecal Microbiota Transplantation Program: a coordinated effort against *Clostridioides difficile* infection  
*Maria Chiara de Stefano, Benedetta Mazzanti, Francesca Vespasiano, Giovanni Cammarota, Gianluca Ianiro, Luca Masucci, Maurizio Sanguinetti, Antonio Gasbarrini, Letizia Lombardini and Massimo Cardillo*
- 244** Hepatitis B (HBV) reactivation in patients receiving biologic therapy for chronic inflammatory diseases in clinical practice  
*Lorenzo Ridola, Angelo Zullo, Bruno Laganà, Roberto Lorenzetti, Alberto Migliore, Roberta Pica, Andrea Picchianti Diamanti, Gianfranco Gigliucci, Palma Scolieri and Vincenzo Bruzzese*
- 249** Medication prescriptions before, during and after pregnancy in Italy: a population-based study  
*Filomena Fortinguerra, Valeria Belleudi, Francesca Romana Poggi, Renata Bortolus, Aurora Puccini, Valentina Solfrini, Paolo Stella and Francesco Trotta*
- 259** **Book Reviews, Notes and Comments**  
Edited by *Federica Napolitani Cheyne*
- 262** **Publications from International Organizations on Public Health**  
Edited by *Annarita Barbaro*