

THERAPEUTICS PHARMACOLOGY AND CLINICAL TOXICOLOGY

Journal published in cooperation with:

National Institute of Infectious Diseases "Prof. Dr. Matei Balș"



**EUROPEAN
HIV/AIDS
& INFECTIOUS DISEASES
ACADEMY**

**Romanian Society of Pharmacology, Therapeutics
and Clinical Toxicology**

**Romanian Academy of
Medical Sciences**

**University of Medicine
and Pharmacy "Carol Davila"**



**CNCSIS Category: B+
Code: 605**

Academic Medical Database:

NLM (National Medical Library)

SCOPUS

EBSCOhost

IndexCopernicus

getCITED

Vol. XVIII

Number 3

September 2014

Founders

Emanoil Manolescu

Mircea Angelescu

Liviu Ioan Miclea

Editor-in-Chief Therapeutics

Adrian Streinu-Cercel (Professor, Member of Academy of Medical Science, Head of Department of Infectious Diseases, National Institute of Infectious Diseases "Prof. Dr. Matei Balș", University of Medicine and Pharmacy Carol Davila Bucharest)

Editor-in-Chief Clinical Pharmacology and Toxicology

Victor A. Voicu (Professor, Member of Romanian Academy, Head of Department of Pharmacology, Toxicology and Clinical Psychopharmacology, University of Medicine and Pharmacy Carol Davila Bucharest)

Associate Editor

Monica Luminos (Associate Professor, National Institute of Infectious Diseases "Prof. Dr. Matei Balș", University of Medicine and Pharmacy Carol Davila Bucharest)

International Scientific Board

Laure Aurelian (Professor, Senior Associate, The Johns Hopkins School of Public Health), • Hege Christensen (Professor, School of Pharmacy, University of Oslo, Norway), • Jaime Kapitulnik (Professor, The Hebrew University of Jerusalem, Israel), • Momir Mikov (Senior Lecturer, School of Pharmacy, University of Otago, New Zealand), • Stanislav Yanev (Professor, Head of Department Drug and Toxicology, Bulgarian Academy of Science, Bulgaria), • Olavi Pelkonen (Professor, Head of the Department of Pharmacology and Toxicology, University of Oulu, Finland), • Olivier Patey (Professor, Chef de service des maladies infectieuses et tropicales CHI, Villeneuve-Saint Georges, France), • George C. Rodgers (Professor of Pediatrics, Pharmacology and Toxicology, University of Louisville, Kentucky, USA), • Robert Smith (Professor, Brown Medical School, U.K.), • Jean Paul Stahl (Professor, Rédacteur en chef de Médecine et Maladies Infectieuses, Elsevier Maison, Grenoble, France), • Michel Urbain (Chief of Research Department, Societe de Etude et de Research Biologique, Paris, France), • Andrei Iagăru (Assistant Professor, Department of Nuclear Medicine, Stanford University, USA) • Serafim Kastanakis (Professor, University of Crete, Greece)

Romanian Scientific Board

Ioana Alina Anca (Professor, University of Medicine and Pharmacy Carol Davila Bucharest), • **Eduard Apetrei** (Professor, University of Medicine and Pharmacy Carol Davila Bucharest, Member of Romanian Academy of Medical Science), • **Ștefan Sorin Aramă** (Professor, University of Medicine and Pharmacy Carol Davila Bucharest), • **Constantin Arion** (Professor, University of Medicine and Pharmacy Carol Davila Bucharest, Member of Romanian Academy of Medical Science), • **Anca Buzoianu** (Professor, University of Medicine and Pharmacy Iuliu Hațieganu Cluj-Napoca) • **Carmen Dorobăț** (Professor, University of Medicine and Pharmacy Gr.T. Popa, Iassy), • **Constantin Dumitrache** (Professor, Member of Romanian Academy, University of Medicine and Pharmacy Carol Davila Bucharest), • **Leonida Gherasim** (Professor, University of Medicine and Pharmacy Carol Davila Bucharest, Member of Romanian Academy of Medical Science), • **Ioan Hăuiliță** (Professor, Member of Romanian Academy, University of Medicine and Pharmacy Gr.T. Popa, Iassy), • **Daniela Ion** (Professor, University of Medicine and Pharmacy Carol Davila Bucharest), • **Ion Fulga** (Professor, Head of Department of Pharmacotherapy and Pharmacology, University of Medicine and Pharmacy Carol Davila Bucharest), • **Sorin Leucuta** (Professor, University of Medicine and Pharmacy Oradea), • **Radu Macovei** (Professor, Head of Department of ICU-Toxicology, University of Medicine and Pharmacy Carol Davila Bucharest), • **Mihai Gafencu** (Assistant Professor, University of Medicine and Pharmacy Victor Babeș Timișoara), • **Nicolae Miu** (Professor, University of Medicine and Pharmacy Iuliu Hațieganu Cluj-Napoca), • **Ostlin C. Mungiu** (Professor, Head of Department of Pharmacology and Clinical Toxicology, University of Medicine and Pharmacy Gr.T. Popa, Iassy), • **Lucian Negruțiu** (Professor, University of Medicine and Pharmacy Victor Babeș Timișoara), • **Florian Popa** (Professor, Chancellor of University of Medicine and Pharmacy Carol Davila Bucharest), • **Irinel Popescu** (Professor, Head of Department of Surgery and Liver Transplant, University of Medicine and Pharmacy Carol Davila Bucharest, Member of Academy of Medical Science), • **Laurențiu Mircea Popescu** (Professor, Member of Romanian Academy, Head of Department of Cellular Biology, University of Medicine and Pharmacy Carol Davila Bucharest), • **Valeriu Popescu** (Professor, University of Medicine and Pharmacy Carol Davila Bucharest, Member of Romanian Academy of Science), • **Florica Stăniceanu** (Professor, University of Medicine and Pharmacy Carol Davila Bucharest), • **Dan Tulbure** (Professor, Head of Department of ICU, University of Medicine and Pharmacy Carol Davila Bucharest), • **Doina Țăulescu** (Professor, University of Medicine and Pharmacy Iuliu Hațieganu Cluj-Napoca), • **Coriolan Ulmeanu** (Professor, University of Medicine and Pharmacy Carol Davila Bucharest), • **Doina Velican** (Researcher, Member of Romanian Academy of Medical Science), • **Florin Cărunțu** (Associate Professor, University of Medicine and Pharmacy Carol Davila Bucharest), • **Adrian Gabriel Popescu** (Associate Professor, University of Medicine and Pharmacy Carol Davila Bucharest), • **Anca Drăgănescu** (Pediatrician, INBI Prof. Dr. Matei Balș, Bucharest) • **Paraschiva Postolache** (Associate Professor, University of Medicine and Pharmacy Gr.T. Popa, Iassy), • **Alexandru Rafila** (Associate Professor, University of Medicine and Pharmacy Carol Davila Bucharest), • **Adriana Hristea** (Associate Professor, University of Medicine and Pharmacy Carol Davila Bucharest), • **Gabriela Leșanu** (Lecture, University of Medicine and Pharmacy Carol Davila Bucharest) • **Ion Lică** (Lecture, University of Medicine and Pharmacy Carol Davila Bucharest), • **Raluca Papacocea** (Lecture, University of Medicine and Pharmacy Carol Davila Bucharest), • **Maria Pasca** (Associate Professor, University of Medicine and Pharmacy Targu Mures) • **Voichița Lăzureanu** (Assistant Professor, University of Medicine and Pharmacy Victor Babeș Timișoara), • **Anca Macovei** (Assistant Professor, University of Medicine and Pharmacy Carol Davila Bucharest), • **Anca Streinu-Cercel** (Lecture, University of Medicine and Pharmacy Carol Davila Bucharest), • **Andrei Tica** (Associate Professor, University of Medicine and Pharmacy Craiova) • **Laura Topor** (Assistant Professor, University of Medicine and Pharmacy Carol Davila Bucharest) • **Mihail Tudose** (Assistant Professor, University of Medicine and Pharmacy Carol Davila Bucharest) • **Ionel Alexandru Checheriță** (Assistant Professor, University of Medicine and Pharmacy Carol Davila Bucharest) • **Mihai Săndulescu** (Assistant Professor, University of Medicine and Pharmacy Carol Davila Bucharest) • **Toma Papacocea** (Assistant Professor, University of Medicine and Pharmacy Carol Davila Bucharest)

General Registrar Of Editorial Board

Victoria Aramă (Professor, University of Medicine and Pharmacy Carol Davila Bucharest)

Issue Editor

Elisabeta Otilia Benea (Associate Professor, University of Medicine and Pharmacy Carol Davila Bucharest)

Oana Streinu-Cercel

Ana-Maria Tudor

Alexandra Mărdărescu

Publishing Editor

Mihaela Cristina Negulescu

Editorial Office

Institutul Național de Boli Infecțioase Prof. Dr. Matei Balș, Pavilionul IV, Etaj 4

1 Dr. Calistrat Grozovici Str., Sector 2, București, C.P. 021105, O.P. 10

E-mail: submit@therapeutics.ro
cristina.negulescu@terapeutica.ro

Published by SC Editura Rp. SRL

CUI RO9954898, RC J40/7184/1997

Address: 6 Codrii Neamțului Str., Bl. PM 26bis, Sc. A, Et. 8,

Ap. 36, sector 3, Bucharest, Romania

Tel/Fax: 031.80.40.513; 0724.356.578

E-mail: cristina.negulescu@terapeutica.ro

Web: www.terapeutica.ro