

Editorial

Preface: The 3rd International Electronic Conference on Antibiotics[†]

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1. Introduction

This volume presents a collection of contributions at the 3rd International Electronic Conference on Antibiotics held on 1–15 December 2023. Antibiotics have revolutionized medicine, but the misuse of antibiotics has led to bacterial resistance, posing a threat to modern medicine. Current technological advances are insufficient for discovering new antibiotics. This conference encourages the scientific community and stakeholders to discuss recent advances in antibiotic research, covering topics such as Epidemiology, Prevalence and Mechanisms of Microbial Resistance, New Antimicrobial Approaches, Targets and Mechanisms of Action, Antimicrobial Testing and Rapid Diagnostics.

2. Committee Members

2.1. Event Chairs

Prof. Dr. Manuel Simões, Department of Chemical Engineering, Faculty of Engineering, University of Porto, Portugal

Dr. Marc Maresca, CNRS, Aix-Marseille University, Centrale Marseille, iSm2, Marseille, France

2.2. Session Chairs

S1. Epidemiology, Prevalence and Mechanisms of Microbial Resistance

Dr. Nicholas Dixon, School of Chemistry and Molecular Bioscience, University of Wollongong, Australia

S2. Making Old Antibiotics Great Again: How to Reverse Resistance to Antibiotics

Dr. Anthony Coleman, Laboratoire des Multimatériaux et Interfaces, France

S3. New Antimicrobial Approaches, Targets and Mechanisms of Action

Dr. Jordi Vila, Department of Clinical Microbiology, Hospital Clinic, Spain

S4. Social Challenges and Political Strategies to Prevent Antibiotic Resistance

Dr. Efstathios Giaouris, Department of Food Science and Nutrition, Faculty of the Environment, University of the Aegean, Greece

S5. Antimicrobial Testing and Rapid Diagnostics

Dr. Zhenbo Xu, School of Food Science and Engineering, South China University of Technology, China

S6. Impact of Inter-relationship between Viral and Bacterial Infections

Dr. Jean Marc Sabatier, Institute of Neuro Physiopathology, France



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2.3. Scientific Committee

1. Prof. Dr. Nicholas Dixon, School of Chemistry and Molecular Bioscience, University of Wollongong, Australia
2. Dr. Anthony William Coleman, Laboratoire des Multimatériaux et Interfaces, Villeurbanne, France
3. Dr. Jean-Marc Sabatier, Institute of Neuro Physiopathology, France
4. Dr. Hiroshi Hamamoto, Teikyo University Institute of Medical Mycology, Japan
5. Dr. Efstathios Giaouris, Department of Food Science and Nutrition, Faculty of the Environment, University of the Aegean, Greece
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9. Prof. Dr. Jesus Simal-Gandara, Department of Analytical Chemistry and Food Science, Faculty of Food Science and Technology, University of Vigo, Spain
10. Prof. Dr. Aaron J. Oakley, School of Chemistry and Molecular Bioscience, University of Wollongong, Wollongong, Australia

3. Keynote Speakers

1. Prof. Dr. Jordi Vila, Department of Clinical Microbiology, Hospital Clinic, Spain
2. Prof. Dr. Kim Lewis, Antimicrobial Discovery Center, Department of Biology, Northeastern University, USA
3. Prof. Dr. Rafael Cantón, Ramón y Cajal's University Hospital, Spain
4. Prof. Dr. Christian Giske, Karolinska Institute, Solna, Sweden
5. Prof. Dr. Octávio Franco, Proteomics and Biochemical Analysis Center, Brasília Catholic University, Brazil, S-Inova Biotech, Pós-Graduação em Biotecnologia, Universidade Católica Dom Bosco, Brazil
6. Dr. Jean-Michel Bolla, Faculté de pharmacie, Aix-Marseille Université, France
7. Dr. Efstathios Giaouris, Department of Food Science and Nutrition, Faculty of the Environment, University of the Aegean, Greece

4. Sponsors

A big thank you goes out to all the organizers and media partners of the ECA 2023 conference (Figure 1).

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Figure 1. Logos of the organizer and media partners.

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