



New Strategies for Combating Antibiotic Resistance Based on Organic and Inorganic Nanosystems

Guest Editors:

Dr. Elia M. Grueso

Department of Physical Chemistry, Faculty of Chemistry, University of Seville, 41012 Seville, Spain

Dr. Rosa María Giráldez-Pérez

Department of Cellular Biology, Physiology and Immunology, Faculty of Science, University of Córdoba, 14014 Córdoba, Spain

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Message from the Guest Editors

Antibiotic resistance prevalence among bacteria constitutes a major problem for human health which requires the investigation of new, more effective drugs. Various mechanisms, such as modification of the therapeutic target or inactivation by enzymes, can cause the survival of the microorganism and even make it multiresistant. To date, this problem has been solved with the design of new drugs that are increasingly complex at the structural level. However, bacteria continue developing new resistance due to the excessive and repeated drug doses required to control infection, among other reasons. Furthermore, there are additional aspects to overcome in free drug administration related to poor solubility in water, low stability, and side effects, which require a search for new innovative strategies. Among them, organic and inorganic nanosystems stand out in the domain of antibacterial delivery agents versus conventional antibiotic therapies.





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Prof. Dr. Patrick J. Sinko

Department of Pharmaceutics,
Ernest Mario School of
Pharmacy, Rutgers University,
Piscataway, NJ 08854, USA

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Pharmaceutics Editorial Office
MDPI, Grosspeteranlage 5
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