



## Polymeric Systems as Antimicrobial or Antifouling Agents

Guest Editors:

**Dr. Antonella Piozzi**

Department of Chemistry,  
Sapienza University of Rome, P.  
le A. Moro 5, 00185 Rome, Italy

**Dr. Iolanda Francolini**

Department of Chemistry,  
Sapienza University of Rome, P.  
le A. Moro 5, 00185 Rome, Italy

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### Message from the Guest Editors

Antimicrobial polymers can help to prevent biofilm development and solve the problems associated with the use of conventional antimicrobial agents, such as residual toxicity, short term antimicrobial activity and development of resistant microorganisms. The microbial adhesion is a problem particularly felt in the field of medical devices since it can lead to serious infections and device failure. Different types of polymer systems have been designed to prevent microbial adhesion among which the most investigated are: (a) antifouling polymers; (b) amphiphilic polymers mimicking antibacterial peptides occurring in nature; (c) functionalized polymers able to load and release bioactive molecules such as antibiotics, heavy metals and other antiseptic agents. We particularly take an interest in manuscripts that report relevance of antimicrobial polymers in the design and fabrication of medical devices, packaging materials and water purification systems.





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### Prof. Dr. Maurizio Battino

Department of  
Odontostomatologic and  
Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of  
Medicine, Università Politecnica  
delle Marche, Via Ranieri 65,  
60100 Ancona, Italy

## Message from the Editor-in-Chief

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