

Special Issue

Protease Inhibitors: A Promising Therapeutic Strategy for Human and Infectious Diseases

Message from the Guest Editor

Proteases are one of the largest and most important groups of enzymes. They selectively catalyze the hydrolysis of peptide bonds and can be divided into five main classes: cysteine, serine, threonine, aspartic and metallo-proteases. Proteases are involved in a number of relevant physiological processes, including protein turnover, digestion, cell differentiation and growth, immune response and apoptosis. Uncontrolled or undesired proteolysis can lead to many pathological states, including cancer, inflammatory, autoimmune or neurodegenerative diseases. At the same time, several proteases play a crucial role in the virus, protozoa and bacteria lifecycles; thus, they are recognized as ideal targets for the design of novel effective agents for the treatment of infectious diseases. **In this Special Issue, we aim to provide evidence for the most innovative targets that scientists have identified to develop novel protease inhibitors endowed with strong therapeutic potential.**

Guest Editor

Dr. Roberta Ettari

Department of Chemical, Biological, Pharmaceutical, and Environmental Sciences, University of Messina, Viale Ferdinando Stagno d'Alcontres 31, 98166 Messina, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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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

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