

Special Issue

Lysosomal Proteases and Their Inhibitors

Message from the Guest Editors

The discovery of the lysosome, a major cytoplasmic organelle, represents a significant breakthrough in the understanding of intracellular protein degradation processes—proteolysis. Lysosomes contain over fifty hydrolases. Among them, proteases, especially cathepsins, are involved in a broad spectrum of biological functions. Cathepsins are separated into three different catalytic types: serine proteases (cathepsins A and G), aspartic proteases (cathepsin D and E), and cysteine proteases (cathepsins B, C, F, H, K, L, O, S, V, X/Z and W). They are involved in many physiological and pathological processes. This special issue will cover recent advances toward a better understanding of proteolysis and its control mechanisms: structural aspects, bioinformatic analysis of human and other genomes, proteomics, and recently developed advanced methods such as drug targeting, selective labeling, and visualization. These and other approaches will contribute to a further understanding of cancer, cardiovascular diseases, neurodegeneration, and other diseases.

Guest Editors

Prof. Dr. Vito Turk

Department of Biochemistry and Molecular and Structural Biology,
Jozef Stefan Institute, SI-1000 Ljubljana, Slovenia

Prof. Dr. Veronika Stoka

Department of Biochemistry and Molecular and Structural Biology,
Jozef Stefan Institute, SI-1000 Ljubljana, Slovenia

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

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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