

Special Issue

Virus-Host Interplay: Mechanisms and Novel Therapeutic Strategies

Message from the Guest Editor

Viruses invade cells by binding to specific molecules on the cell surface. This interaction triggers a signal transduction cascade within the cell. Depending on the nature of these molecular interactions, cells can initiate the cell's immune response or make a favorable environment for the virus to replicate. Autophagy, a process essential for cellular homeostasis, involves the elimination of defective organelles or proteins. It plays a dual role in viral infections; it can optimize the cellular environment for viral entry and proliferation, or it can act defensively to eliminate the virus. The complexity of these mechanisms is not yet fully understood, necessitating further research. Continued studies are crucial and will aid in developing drugs by targeting the autophagic process.

Guest Editor

Dr. Jinsung Yang

Department of Biochemistry and Convergence Medical Science,
Institute of Medical Science, College of Medicine, Gyeongsang National
University, Jinju 52727, Republic of Korea

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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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