Special Issue

Omics of Virus-Host Interactions

Message from the Guest Editor

Viruses are obligate intracellular parasites. Thus, they must enter host cells in order to usurp cellular functions to use for their own propagation and to cause disease, during which viral components must interact with cellular components. Significant progress has been made during the past few decades thanks to advances in technologies, gene sequencing and bioinformatics, that now allow global analyses of thousands of genes and proteins. In this Special Issue of *Viruses*, we want to compile examples of the types of analyses and studies that contribute towards a better understanding of virus–host interactions.

- How viruses modify the cellular transcriptomic profile;
- Quantitative cellular protein alterations induced by virus infections;
- Global cellular protein modifications induced by virus infection, such as phosphorylation pattern alterations;
- Analyses of which viral proteins interact with which cellular proteins;
- Functional cellular protein alterations induced by virus infection;
- Alterations in cellular pathways induced by virus infection;
- Advances in technologies and in bioinformatics that contribute to better understanding virus–host interactions.

Guest Editor

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Editor-in-Chief

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