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***In vitro* methods for testing antiviral drugs****Michaela Rumlová<sup>1\*</sup> and Tomas Ruml<sup>2\*</sup>**

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**Abstract**

Despite successful vaccination programs and effective treatments for some viral infections, humans are still losing the battle with viruses. Persisting human pandemics, emerging and re-emerging viruses, and evolution of drug-resistant strains impose continuous search for new antiviral drugs. A combination of detailed information about the molecular organization of viruses and progress in molecular biology and computer technologies has enabled rational antivirals design. Initial step in establishing efficacy of new antivirals is based on simple methods assessing inhibition of the intended target. We provide here an overview of biochemical and cell-based assays evaluating the activity of inhibitors of clinically important viruses.

**Keywords:** virus, inhibitor, assay, high-throughput screening, method, replication, entry, assembly, in vitro, cell-based

**1. Introduction**

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