

INNOVATIONS IN COVID-19

Bridging opportunities
at Oswaldo Cruz Institute

STUDY OF THE REPLICATIVE CYCLE AND EVALUATION OF THE MODULATING EFFECT OF DIFFERENT MOLECULES ON THE MORPHOLOGY AND MORPHOGENESIS OF SARS-COV-2 IN DIFFERENT CELL LINES

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COORDINATOR

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RESEARCH AREA

New Drugs

DEVELOPMENT STAGE

Level 4 - TRL - Component and/or breadboard validation in laboratory environment. MRL - Capability to produce the technology in a laboratory environment.

PROPOSITION / APPLICATION

Currently, different drugs are being tested against SARS-CoV-2, however, no specific antiviral drugs have been proposed so far. In this context, the state of the art finds obstacles in (1) mapping the replication mechanism of SARS-CoV-2, when in different cell lines, which impairs the standardization of in vitro systems for preclinical tests and (2) studying mechanisms of inhibition of SARS-CoV-2 morphogenesis in cell lines, when compared to treatment with different molecules with antiviral action.

INNOVATION

Use of a well-known tool to elucidate questions regarding the biology of SARS-CoV-2 in *in vitro* systems, in order to present data on the efficiency of different compounds regarding its antiviral activity. The aforementioned importance is justified by the fact that, so far, there is no antiviral with protocol efficiency.

OPPORTUNITY

Evaluation of the efficiency of different compounds in antiviral activity

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