

INNOVATIONS IN COVID-19

Bridging opportunities
at Oswaldo Cruz Institute

DEVELOPMENT OF DNA VACCINES AGAINST SARS-COV2: ANALYSIS OF IMMUNE RESPONSES AND PROTECTION (COD. 2020.015)

COORDINATOR

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RESEARCH AREA

New Drugs

DEVELOPMENT STAGE

Level 2 - TRL - Technology concept and/or application formulated. MRL -Manufacturing concepts identified.

PROPOSITION / APPLICATION

DNA vaccines are excellent inducers of cellular immune responses, including activation of memory and cytotoxic cells, in addition to inducing the production of antibodies. Recent studies with SARS-COV2 and vaccines indicate that the production of antibodies alone should not be sufficient to induce efficient and lasting protection.

INNOVATION

Unlike the design of most vaccines against SARS-CoV-2, this project proposes DNA vaccines based on structural virus proteins capable of inducing cellular and antibody responses, leading to the creation of a vaccine that induces higher levels of protection.

OPPORTUNITY

Development of DNA vaccines against SARS-CoV2

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