

## INNOVATIONS IN COVID-19

Bridging opportunities at Oswaldo Cruz Institute

## IN VITRO MODEL FOR THE STUDY OF SARS-COV-2 INVASIVENESS IN THE BLOOD-BRAIN AND PLACENTAL BARRIERS AND ANTIVIRAL DRUG TESTING

(COD. 2021.001)



This project is innovative, as it will use primary human cells to assess relevant aspects of SARS-CoV-2 neuropathogenicity/teratogenicity. Thus, we can use this model to understand

## INNOVATION

the pathophysiological mechanisms as well as test serum responses of patients to correlate with their clinical status (including neurological tests). This model can also be used to assess response to specific drugs or immunobiologicals targeted to contain transmission to the Central Nervous System or for the foetus, in order to alleviate severe cognitive or neurological sequelae resulting from COVID-19 or possible foetal malformations.

OPPORTUNITY

Substance testing and evaluation of SARS-CoV-2 effects on Blood-Brain Barrier or Placenta components

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