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UNIVERSAL CODE | POCI-01-02B7-FEDER-069812

PROJECT DESIGNATION | R&TD PROJECTS COMPANIES IN COOPERATION:
COVID-19

SUPPORT UNDER THE INCENTIVE SYSTEMS | FEDER

OPERATION NAME | BIOcap: Mitigation of spatial contamination and protective shield for health technicians

THEMATIC OBJECTIVE | Strengthening research, technological development and innovation

INTERVENTION AREA | NORTH

BENEFICIARY ENTITY | LABORIAL, SOLUÇÕES PARA LABORATÓRIO S.A.

APPROVAL DATE | 27/09/2020

START DATE | 16/03/2020

END DATE | 15/03/2021

ELIGIBLE INVESTMENT | 253.831,01€

EU INCENTIVE | 203.064,81€

PROJECT SYNOPSIS |

Hospital cross-contamination is a growing concern in the health area, with an emphasis on the current epidemiological context, associated with the COVID-19 virus, causing thousands of deaths and millions of infected people. The development of solutions in the short term, imposes, in the short-medium term, new processes and Products that solve today's countless evident problems, creating improvement conditions for the following critical factors:

- Decrease in the transmission and contagion chain;
- Improvement of health care for infected patients, particularly in at-risk groups;
- Greater security in the activities developed by health professionals;
- Development of biologically safe laboratories, dedicated to the development of therapies, vaccines, screening and immunity tests, which are easy and quick to implement.
- Development of targeted extraction / containment systems, allowing the isolation of infected patients in specific medical procedures having risk of aerosol transmission.

The BIOcap is an Aerial Infection Isolator of quick and easy construction, which allows the implementation of two types of technological products:

1 - Confined spaces for isolation of infected patients, or laboratories that use COVID-19 samples. The latter have a centralized and integrated monitoring, control, access and recording of critical operating parameters, remotely, and are additionally equipped with complementary accessories, which adapt the space for each specific scenario;

2 - Extraction equipment directed to support complementary medical diagnostic tests, with potential aerosol production.

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PROJECT OBJECTIVE |

The BIOcap is an Airborne Infection Isolator, with modular construction and enormous versatility.

It allows the implementation of high-grade biological and chemical containments, as well as first-line protections for the emission of contaminated aerosols.

PROJET IMAGES |



2nd version of the BIOcap prototype



3rd version of the BIOcap prototype



BIOcap prototype in positive pressure (protection of the interior from the surroundings)



Application of BIOcap in a real case of a biological safety laboratory