RESEARCH AND INNOVATION TO PREVENT AND TREATMENT PANDEMIC COVID-19

INDONESIAN INSTITUTE OF SCIENCES

Bogor, 23 August 2021

REFOCUSING OF THE RESEARCH AND INNOVATION ACTIVITIES TO COMBATE COVID-19

Provision of formula, training, provision of production equipment to partners and the community for the production of hand sanitizer and disinfectant standard WHO



Intensive training for labrelated personnel with biosafety levels (BSL) to ensure the safety and standards of operators in various BSL-2 and BSL-3

PELATIHAN PENANGANAN SARS CoV-2





PCR test in BSL-3 LIPI in collaboration with private partners for the provision of consumables and hospitals with a maximum capacity of 1,000 samples / day

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Support the local community to learn packaging technology and processes of local processed foods that have difficulty doing conventional sales.

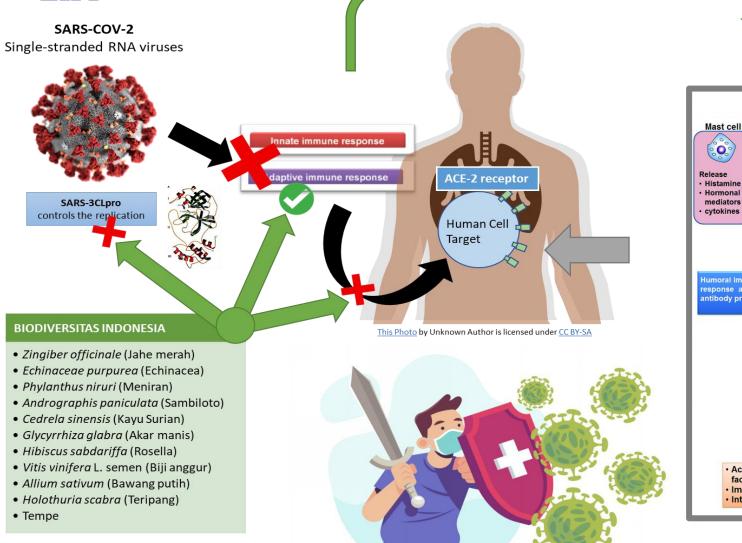


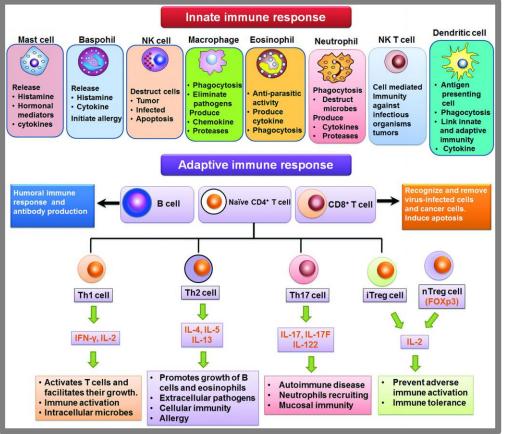
Making face shield, and sterilization equipment for special purpose in BSL-3 LIPI.





IMMUNOMODULATOR CANDIDATE FOR ANTIVIRUS SARS-CoV-2 FROM INDONESIAN HERBAL





PI: Dr. Masteria Yunosilva Putra, RC Biotechnology LIPI





Products that have obtained a partner/license agreement/ distribution permit are:

HFNC ventilator,
 UVC sterilization equipment,
 multipurpose autonomous robot,
 ozone nanomist,
 ATTACT air purifier

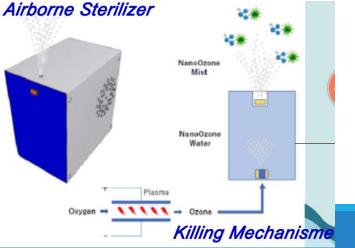






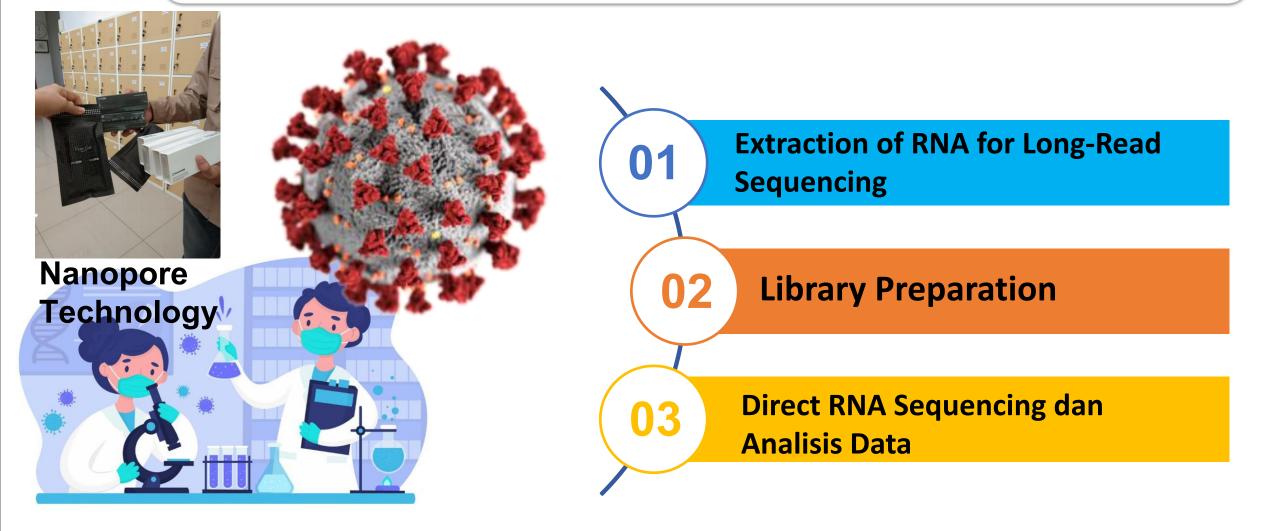
LPI Ventilator (GL P-01 & (LP P02)

Partner Industri : PT Gerlink Utama Mandiri



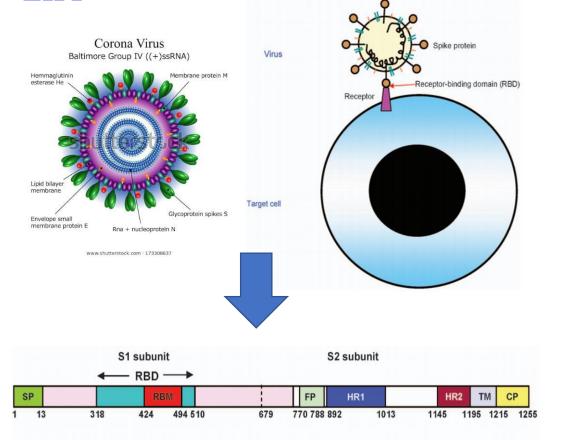


WHOLE GENOME SEQUENCING OF VIRUS SARS COV-2 FROM LOCAL TRASMISSION IN INDONESIA



PI: Dr. Sugiyono Saputra, RC Biotechnology LIPI

Development of recombinant fusion protein vaccine candidates for COVID-19



Spike protein (Protein-S) is able to induce a neutralization antibody response and provide protection. Function as an antigen is enhanced through the fusion of receptor binding domain (RBD) with the Fc of human IgG1.

Gene Construction
Transformation, Transfection and
Selection
Purification and Characterisation

Need Transfer Technologies:

1. How to produce seed vaccine based on protein recombinant

2. How to produce biology molecular enzymes in pilot plant

Biological Product Development Research Group RC for Biotechnology LIPI



SURVEI PERSEPSI PUBLIK TENTANG KETERBUKAAN INFORMASI PASIEN POSITIF COVID-19





97% responden setuju RIWAYAT PERJALANAN pasien positif Covid-19 dibuka

*Responden di Pulau Jawa (56,2%) dan luar Pulau Jawa (52,2%) setuju riwayat perjalanan 14 hari terakhir pasien penting untuk diketahui

Plotform penyebaran informasi terkait COVID yang disukai responden 80,71% memilih APLIKASI PESAN INSTAN (WHATSAPP, LINE) 70,04% memilih WEBSITE 25,66% memilih SMS 2,78% memilih MEDIA SOSIAL PEMERINTAH

Setuju jika nama pasien positif

covid-19 dibuka untuk publik 65.8% Responden

pasien positif Covid-19 dibuka

Setulu ALAMAT KECAMATAN

pasien positif Covid-19 dibuka

Setuju ALAMAT RT/RW

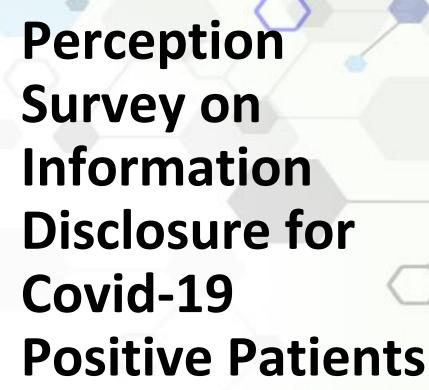
64% Responden

KONSEKUENSI KETERBUKAAN INFORMASI

Masih ada orang-orang yang berada dalam kasus pemantauan ataupun positif Covid-19 yang diperlakukan buruk dan didiskriminasi di lingkungannya.

61.2%

Beberapa daerah di Indonesia yang tidak memiliki kasus terlapor merasa tidak perlu takut pada virus ini sehingga mereka pun menjalankan kehidupan seperti biasa tanpa melakukan proses adaptasi. **Public**



 National Research and Innovation Agency (BRIN), Indonesian Institute of Sciences (LIPI), National Disaster Management Agency (BNPB), University of Indonesia, Gadjah Mada University, Bandung Institute of Technology, Statistics Polytechnic College of Statistics, Disaster Journalists and the Indonesian Crisis, and U-Inspire conducted a survey of Public Perceptions of Information Disclosure for COVID-19 Positive Patients

PI: Prof. Dr. Tri Nuke Pudjiastuti, MA , Deputy of LIPI

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Biosafety Level 3 Facility dan Indonesian Culture Collection (InaCC)



Biosafety Level-3 : 4 Laboratories Clean Rooms : Biosafety Lab : Health Biotechnology Lab BSL-3 Lab Food Biotechnology Lab Animal BSL-3 Lab

InaCC is a microorganism storage institution located at the LIPI Cibinong Science Center which has standards from the World Federation Culture Collection



UTILIZATION OF LEARNING AND FACILITIES RESIDENCIAL



- The location is Cibinong Science Center Botanical Garden LIPI
- Facilities: Complete study room
- Recidential: Residential building used for lodging (150 rooms), including consumption and shuttle trainees, ambulances





Terima Kasih Thank you very much

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