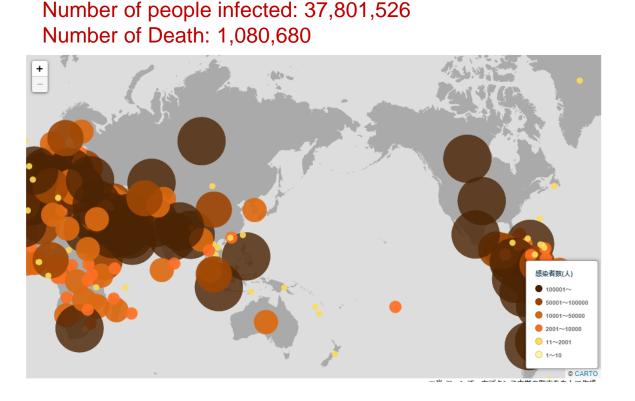


JST's approach toward COVID-19

IMAZU Sugiko, Chief, Department of International Affairs

EU S&T Counsellors' meeting 2020.10.22

The COVID Crisis changed our life style



As of 13, Oct, 2020

https://www3.nhk.or.jp/news/special/coronavirus/world-data/ Based on the data reported by the John's Hopkins University.

Change in lifestyles







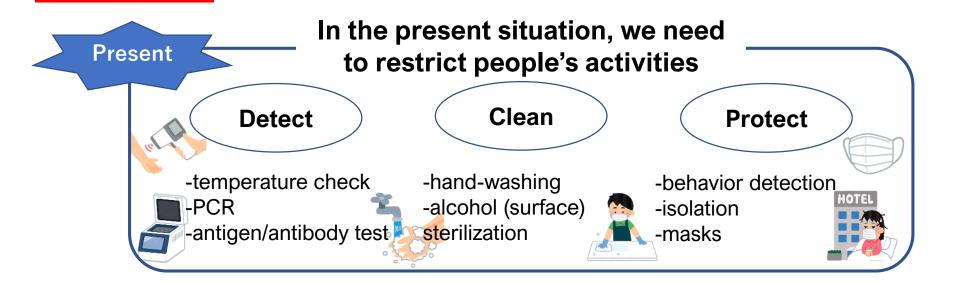
Development of vaccines and antiviral drugs



Vaccine Candidate: 189 On Clinical Studies: 40 *

*WHO report on 9/25.

JST's activities against COVID-19



We need to

 create a society in which we can move, meet, gather and do business freely under COVID-19 conditions while we develop vaccines and drugs.

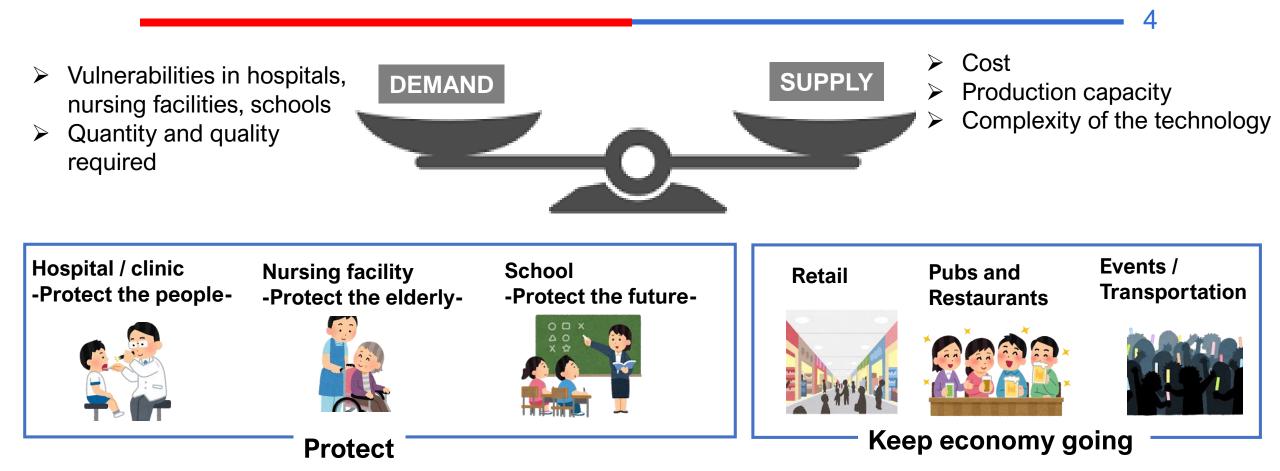


Upgrade our policy-measures using STI innovation by utilizing and concentrating knowledge other than medicine, such as engineering, ICT, nanotech and so on.



3

Balancing demand and supply for quick deployment



Quick deployment to each facility, optimal technology in optimal quantity.

J-RAPID Program

-Urgent International Collaboration R&D on disasters



5

Concept

The *J*-*RAPID* program supports **urgent** collaboration between Japanese and foreign researchers following natural or anthropogenic disasters or similar unanticipated events.

Objective

To play an initial response role by promptly supporting activities before ordinary projects are implemented by the national government, academic societies, or others.





Month/Year		Research/investigation areas
Apr 2020		J-RAPID Collaborative Research/Survey Program for Urgent Research on the Coronavirus Disease 2019 (COVID-19)
Feb 2019		Japan-Indonesia Urgent Collaborative Projects regarding Sunda Straits tsunami
Apr 2016		International Urgent Collaborative Projects regarding Kumamoto Earthquake
Jun 2015		Japan-Nepal Urgent Collaborative Projects regarding the Nepal earthquake
Feb 2014		Japan-Philippine Urgent Collaborative Projects regarding Typhoon Yolanda
Feb 2012		Japan-Thai Urgent Collaborative Projects in response to Thai flood disaster
Apr 2011		International Urgent Collaborative Projects regarding the Great East Japan Earthquake

11 new J-RAPID projects targeting COVID-19



Real-time monitoring of novel coronavirus infections using wastewater-based epidemiology approach



- Prof. Eiji Haramoto, Univ. Yamanashi
- Dr. Kyle Bibby, Univ. Notre Dame

Detects viruses in sewage and captures local infections.

Paper-Based Sensor Devices for Rapid and Accurate Detection of COVID-19

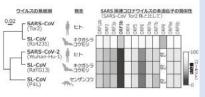


Dr. Tsuyoshi Minami, Univ. Tokyo

Dr. Anthony Genot, CNRS

Inexpensive paper sensors and machine learning - aiming for virus detection within minutes.

Investigation of the roles of SARS-CoV2encoding genes on the COVID-19 pathogenesis and viral cross-species transmission



Dr. Kei Sato, Univ. Tokyo

Prof. Massimo Palmarini, Univ. Glasgow

Elucidating the molecular mechanisms of cross-species transmission of coronaviruses and their pathogenicity.

National Online Survey of Children's Quality of Life and Health in the COVID-19 Pandemic in Japan





Dr. Naho Morisaki, Nat. Center for Child Health and Development

Dr. Polly Waite, Univ. Oxford



Delivering the voices of children - connecting to society through a national survey.

- CREST (Core Research for evolutionary science and technology) : Team-type research to produce excellent achievements leading to scientific and technological innovation.
- Create new technology seeds that contribute to coexistence with emerging infectious diseases such as COVID-19
- Promote interdisciplinary research in various fields.
 * excludes research limited to the medical field.

<Schedule> Open call : ~ October 27th Research start: February 2021 (planned)



JST Connect 2020 Webinar to promote cooperation opportunities



Explore cooperation opportunities at the Japan Science and Technology Agency

1st Edition JST's international cooperation and Moonshot R&D Tuesday, October 27th (17:00~18:30)

2nd & 3rd Edition will be held in November and December (TBD)



Agenda and Register: <u>https://www.jst.go.jp/inter/connect/</u> Contact: jst-connect@jst.go.jp Thank you!