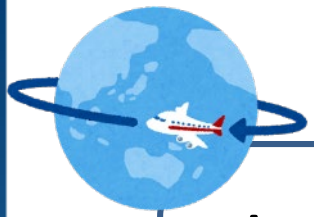
Press Conference
President of JST

September 16, 2020

Japan Science and Technology Agency

JST's "Plan B" against COVID-19



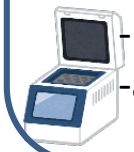
What is "Plan B"?

A multidisciplinary approach to address society in which **we can move, meet, gather and do business freely** under COVID-19 conditions in addition to trials of vaccines and drugs (Plan A).

Present

In the present situation, we need to restrict people's activities

Detect	Clean	Protect
-temperature check -PCR -antigen/antibody test	-hand-washing -alcohol (surface) sterilization	-behavior detection -isolation -masks

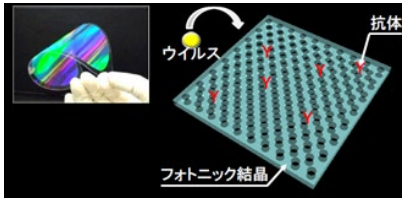


Upgrade our policy-measures using STI innovation

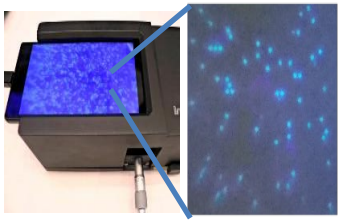
Plan B

detect

High-sensitivity virus detection technology (physical space)

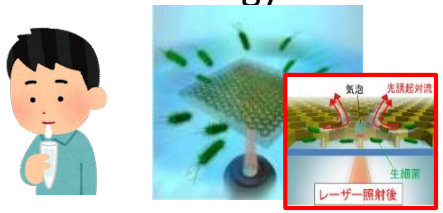


Photonic crystal sheets Under R&D



Digital virus detection method Under R&D

Minimally invasive high-speed high-sensitivity detection technology

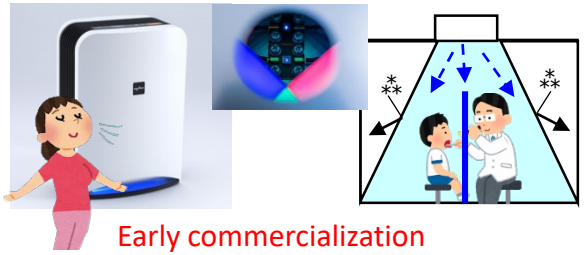


Minimally Invasive High-throughput Optical Condensation System

Under R&D

clean

Deep UV LED (air, water, air curtain, mask sterilization, etc.)

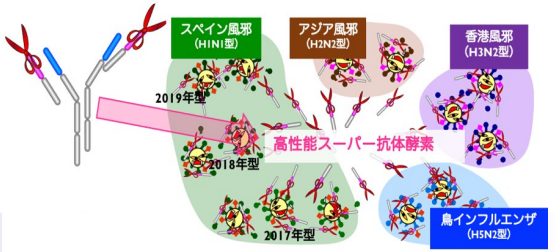


Early commercialization

Ostrich antibody (application to air conditioner filters, etc.)

Early commercialization

Virus inactivation technology (super antibody enzyme)



Under R&D

protect

High-performance mask (Ostrich antibody, etc.)

Ostrich antibody Practical use

Remote health screening

Cloud service MeDaCa

Practical use

Optimal deployment of Plan B technologies considering demand and supply

Demand

- Vulnerabilities in hospitals, nursing facilities, schools
- Quantity and quality required

Supply

- Cost
- Production capacity
- Complexity of the technology

Protect

Hospital / clinic
-Protect the people-

Nursing facility
-Protect the elderly-

School
-Protect the future-

Keep economy going

Retail

Pubs and Restaurants

Events / Transportation

JST's "Plan B" against COVID-19

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

A multidisciplinary approach to address a society in which **we can move, meet, gather and do business freely** under COVID-19 conditions in addition to trials of vaccines and drugs (Plan A).

45th Inoue Harushige Prize Ceremony and Lectures

Inoue Harushige Prize

The Inoue Harushige Prize is a prize created out of consideration of the contributions that Inoue Harushige in 1976, the first president of the Research Development Corporation of Japan, one of the predecessors of JST, and the first Director-General of the Science and Technology Agency of Japan made to the advancement of science and technology in Japan and to commemorate the fifteenth anniversary of the founding of the Research Development Corporation of Japan.

The prize is given to researchers and corporations for outstanding technology that a company has developed and commercialized using original research from a university, research institute, or similar entity and that contributes to the advancement of science and technology in Japan, economic development, and greater welfare.

Inoue Harushige Prize

About Inoue Harushige Prize

1. **Establishment:** The 1st in 1976（the 45th in 2020）

2. **Nomination Term:** December to next February

3. **Winning Technologies:** Two, as a rule（98 technologies and 196 researchers have been awarded as of September 16, 2020)

4. **Recipients:** One researcher and one corporation for each winning technology as a rule.

5. **Ceremony:** At the Industry Club of Japan Hall in the middle of July every year.

6. **Prize and Auxiliary Prize:** Award certificate, award medal, and research grant of one million yen

Today's Lecture

Dr. Itozaki Hideo

Dr. Itozaki Hideo

Professor Emeritus, Osaka University

Research Theme: "Development of liquid explosives inspection device using near-infrared spectrum"

Education:

Osaka University Faculty of Engineering Graduated (1974)

Osaka University Graduate School, Division of Engineering Completed (1976)

Ph.D., Northwestern University Completed (1982)

Dr. Fukuoka Atsushi

Dr. Fukuoka Atsushi

Professor, Institute for Catalysis, Hokkaido University

Advisor to the President, Hokkaido University

Research Theme: "Development of platinum catalyst for maintaining the freshness of fruits and vegetables"

Education:

BS., The University of Tokyo (1982)

MS., The University of Tokyo (1984)

Ph.D., The University of Tokyo(1989)