



NEWSLETTER

Tsukuba Digital-Bio International Center

International Activities and Public Relations Special Issue

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International Activities Report

A session about our center was held at Tsukuba Conference 2023

Tsukuba Congress 2023 was held at the Tsukuba International Congress Center from Tues, Sept. 26 - Thu, Sept. 28, 2023. Our center held a concurrent session with the Japan External Trade Organization (JETRO) on the third day of the Tsukuba Conference from 10:30 to 12:00.



[C-20] Tsukuba Digital-Bio International Center & JETRO - Food Resources Research for the Future of the Earth –

The poster features a large image of the Tsukuba International Congress Center 2019 on the left. On the right, it lists the session title, date (9/28 Thu), and time (10:30-12:00). Below this, there are two rows of speaker portraits with their names and affiliations:

- Row 1: Hiroyuki Nishiyama (University of Tsukuba), Hiroko Iwata (University of Tsukuba), K. Kurokawa (National Institute of Advanced Industrial Science and Technology), F. Iwasaki (University of Tsukuba), and M. Kurokawa (National Institute of Advanced Industrial Science and Technology).
- Row 2: M. Sakai (National Institute of Advanced Industrial Science and Technology), T. Moriga (The Future Food Product Overseas Promotion Center (FPOOD)), Y. Yamada (JETRO), and T. Moriga (University of Tsukuba).

 At the bottom, it includes the 'TSUKUBA CONFERENCE 2023' logo and the slogan 'Design the Future. Curiosity-driven Quests for Global Solutions.'

Session summary : The Tsukuba Digital-Bio International center, a center adopted by the Japan Science and Technology Agency's Support Program for the Formation of Places for Co-Creation, aims to build an international innovation ecosystem in collaboration with the Japan External Trade Organization (JETRO).

Creation of a new supply chain using food and drug seeds is a major research and development issue for this center. In this session, we discussed how we can contribute to solving global problems together with the Global South by building evidence for health improvement and disease prevention from food and medicine, plus how we can link and expand supply chain creation and promotion of such evidence. We would like to exchange various opinions in order to create "a society where all generations experience well-being," which is the vision of this center.

Project Leader Hiroyuki Nishiyama (Professor, Institute of Medicine, University of Tsukuba) gave an introduction of the center and opened the session with a few words. The five presenting professors gave lectures on the theme.

In the general discussion, five professors debated to create "a society where all generations experience well-being" from the viewpoint of the future of the Earth, which is the responsibility of food and drug resource research.

Finally, Professor Toshinori Moriga, (Deputy Project Leader of the Institute of Medicine), introduced joint industry-academia research at the center and closed the session with his insightful remarks.



※About the Tsukuba Conference

The Tsukuba Conference is an international conference where talented young people from global industry, government and academia gather in Tsukuba Science City* to discuss on various issues on 'Science and Technology in Society' to form professional networks. It aims to be the young people's version of the World Economic Forum Annual Meeting in Davos.

The conference is mainly for young future influencers (in principle up to ages under 50) in various fields such as researchers (including students), engineers, entrepreneurs, investors, social entrepreneurs, journalists, officials of public offices and international organizations, and others.

[Tsukuba Conference Official HP](https://tsukuba-conference.com/)
<https://tsukuba-conference.com/>

※Tsukuba Science City

Tsukuba City, known as Tsukuba Science City, is Japan's largest research and development base and a world-class science and technology hub city, with approximately 20,000 researchers and around 150 private research institutions and companies in addition to national research and educational institutions.

The city was the host of the G7 Science and Technology Ministers' Meeting in Tsukuba, Ibaraki in 2016 and the G20 Ibaraki-Tsukuba Ministerial Meeting on Trade and Digital Economy in 2019.

In 2022, Tsukuba was designated as a National Strategic Special Zone for the Super City Initiative, and efforts to implement cutting-edge technologies and services in society are being promoted throughout the city.

Tsukuba is also a member of the High Level Forum, an international network of the world's leading science and technology cities, and the 4th High Level Forum was held in Tsukuba in 2015.



【C-20】 Click [here](https://www.md.tsukuba.ac.jp/clinicalmed/digitalbio/video/tsukuba%20conference2023_c20) for archived video.
[https://www.md.tsukuba.ac.jp/clinicalmed/digitalbio/video/tsukuba conference2023_c20](https://www.md.tsukuba.ac.jp/clinicalmed/digitalbio/video/tsukuba%20conference2023_c20)

The "Digital Health and Medicine 2023" Symposium Was Held

On September 29, 2023, the University of Tsukuba-National Taiwan University co-hosted a symposium entitled "Digital Health and Medicine 2023" at the University of Tsukuba.

On September 29, 2023, the University of Tsukuba-National Taiwan University co-hosted a symposium entitled "Digital Health and Medicine 2023" at the University of Tsukuba. This symposium was held to discuss the latest research in both the medical and nursing care fields utilizing artificial intelligence and robotics, and was intended for researchers from academia, industry, and other organizations interested in this field.

Prior to the opening, Vice President Jun Ikeda (In charge of International Affairs) and Hsiao-



Through this symposium, we expect to see the development of advanced technologies using artificial intelligence in the medical field



Wei YUAN gave speeches. There were 12 oral and 19 poster presentations as well as lively discussions. Approximately 140 participants (onsite and online) attended.

In March of this year, National Taiwan University joined the "Tsukuba Digital-Bio International center" which TUAT supports as an activity to promote international industry-academia-government-private sector co-creation centered in Tsukuba, and is promoting the discovery of joint research themes and human resource development in this field.



through the co-creation of both universities, as well as close international collaborative activities for their social implementation in medical and nursing care.

Public Relations Activity Report



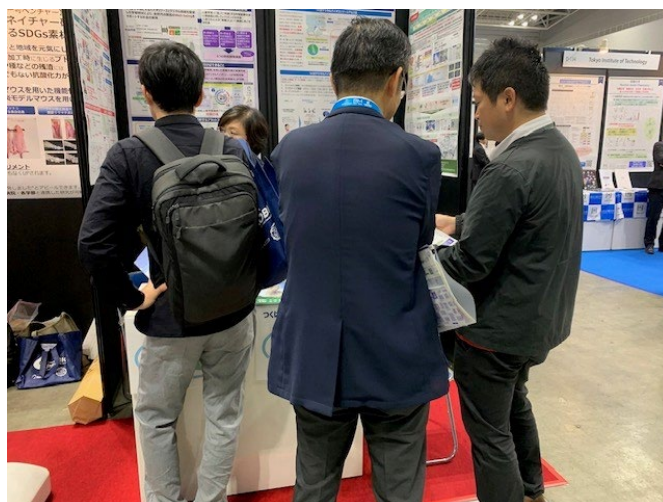
Our booth was exhibited at BioJapan 2023.



BioJapan / Regenerative Medicine JAPAN / healthTECH JAPAN 2023 was held at Pacifico Yokohama for three days from October 11 (Wed.) to 13 (Fri.), 2023. We also exhibited a booth.

It was a large scale biotechnology exhibition event with 1030 companies and organizations from 37 countries and regions exhibiting, with 16,138 visitors throughout the three days. Many companies and organizations exhibited their cutting-edge technologies, products, and business models.

In particular, with the rapid digitalization of the medical field, there were exhibitors from the IT industry due to startups utilizing AI and the development of *in silico* technology. Moreover, with the diversification of modalities and the sophistication of medical devices, there were also many exhibitors from Japan and abroad who are developing new products for the treatment of genetic diseases, PHR applications, and real world data analysis.



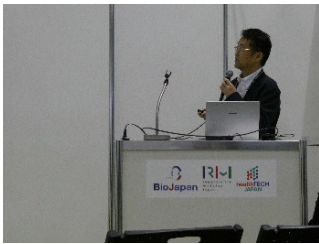
On the third day, we introduced the Tsukuba Digital-Bio International Center and gave a presentation about the project.

Presentation Summary

The vision of Tsukuba Digital-Bio International Center, a COI-NEXT project supported by Japan Science and Technology Agency is to realize well-being (a state of physical, mental, and social health, and happiness) for all generations of people.

This center is building a digital biotechnology platform unique for Tsukuba, that supports all processes from R&D to POC verification in line with industrial needs, in collaboration with research institutes and local governments clustered in Tsukuba.

In this presentation, we introduced the overall picture of this platform, the research program and the tie-up with Tsukuba's Super City Concept. We are looking for companies that can co-create innovation with us based on strong collaboration between industry, government, and academia, and looking forward to working together.



※About BioJapan / Regenerative Medicine JAPAN / healthTECH JAPAN

BioJapan is a comprehensive exhibition that gathers a wide range of R&D, technologies, and products from pharmaceuticals and drug discovery to the bioeconomy, with biotechnology at its core. Regenerative Medicine JAPAN focuses on regenerative medicine products such as gene and cell therapies while BioJapan aims to create new solutions and services that go beyond conventional pharmaceuticals based on the concept of "fusion of healthcare and digital technology". The three exhibitions will be held simultaneously at healthTECH JAPAN.

The current drug development market is entering an era of "multi-modality," from antibody and peptide drugs to gene and cell therapies, and even digital therapeutics (DTx) that utilize digital technology. In light of this trend, this exhibition aims to contribute to the creation of new innovations by bringing together professionals in various fields and companies and organizations that aim to collaborate with each other by simultaneously holding exhibitions for a variety of modalities.

Bio Japan official website <https://jcd-expo.jp/ja/>

Many people came to listen to the presentations! Some stopped by to listen.

