Biocommunity Kansai (BiocK)

From “Accumulation” to “Collaboration”

July 2025

Secretariat
NPO Kinki Bio-Industry Development Organization
Urban Innovation Institute

Overview on Bioeconomy Strategy of the Cabinet Office

Overview of Bioeconomy Strategy

- **The bioeconomy**, which utilizes biotechnology and biomass, is expected **to solve environmental, food, and health issues**, and **to realize a circular economy and sustainable economic growth**, thus increasing global policy and market competition for investment and rule formation.
- Expectations for the bioeconomy in Japan are growing, with a large budget of 1 trillion yen in total, including for bio-production, as discussions on the GX, circular economy, economic security, food security, and enhancing innovative medicines progress.
- Through promoting measures based on **the Bioeconomy Strategy*, expand the bioeconomy market with Japan's advantages**, and achieve **solutions to various challenges and sustainable economic growth** both. (*Bio Strategy (formulated in 2019, updated in 2021.6) has been revised and renamed)

Advancing Bioeconomy Market Growth Measures

100 trillion yen in Japan and overseas by 2030

	Biomanufacturing and bio-based products	Primary Production Systems	Biopharmaceuticals, Regenerative Medicine, Healthcare
Goals	**Promotion of bio-process conversion in each industry, reduction of environmental impact by using unused resources, and improvement of supply chain resiliency**	**Stimulating the sustainable food supply industry and contribute to CO_2 emission reduction and pollen allergy prevention by spreading large-construction with wood**	**Globally developing biopharmaceuticals from Japan, extending healthy life span by collaboration among medical and health care industries**
Technology development	・Developing a **platform for microorganism and cell design** by integrating biotechnology with AI and other digital technologies. ・Focus on **hydrogen-oxidizing bacteria, culture and fermentation processes**, etc. ・Direct use of unused biomass CO_2 to solve raw material limitations , reduction of production and collection costs, pre-processing technologies, etc.	・Development of varieties compatible **with smart agriculture**, transformation of cultivation systems, development of generative AI to support farmers, etc, and Research and development for **both productivity improvement and sustainability**, such as development of new varieties with genomic information, etc. ・Development and verification of technologies for construction wood (CLT, etc.) and forestry machinery, and development **of pollen-free cedar through genome engineering**	・Enhancing **basic research and bridging capability** to create innovative seeds that will lead to next-generation medical technologies and pharmaceuticals
Market	・Focus on market creation of high-value-added products first for bio-based products. Review regulations and market ideal for low-cost and mass production, and market general-purpose products in phases. Expand the scale of public/private investment to 3 trillion yen/year. ・Review of **measures to stimulate demand with** reference to **LCA and other evaluations, product labeling**, forming of rules for **global standardization** and the Green Purchasing Law, etc.	・Promoting measures to reduce environmental issues based on the "Green Food System Strategy" ・Promoting **public understanding** of advanced technologies such as **food tech**, etc. Developing advanced technologies in **overseas markets, international standards**, etc. ・Promoting and raising public awareness of the significance and benefits of wood use.	・Considering **appropriate evaluation of innovations in the NHI drug price system** to proceed development of innovative drugs and medical devices. ・Support for establishment of an authorization system in collaboration with the medical and industrial communities to **ensure healthcare service reliability.** ・**Secure personnel for manufacturing on-site** and develop CDMOs and other manufacturing bases in Japan, including for security purposes.
Operating Business	・Development of biofoundry bases ・Develop **and ensure personnel** required in the value chain , and create a **supply chain that includes peripheral industries**. ・Coordination of regulations and rules with government ministries and agencies, response to global discussion, and promotion of biomass utilization based on the Basic Plan for the Promotion of Biomass Utilization.	・Enhance and improve **the infrastructure for joint use** by industry, academia, and government at the National Agricultural Research Organization (NARO) and other institutions. ・Developing **startups of agriculture, forestry, fisheries, and food industries** through large-scale technology verification programs ・Developing designers and constructors of large-scale construction with wood	・**Support pharmaceutical venture businesses** by **enhancing connections between the ecosystems in** Japan and other countries. ・Support for **startups** based on healthcare industry market uniqueness

Base measures

・Improvement of **environment for young researchers to focus on research**, and enhancement of **competitive research funding**.
・Develop **database and AI based search technology** to further promote the **integration of bio-digital** and **DX research**, and develop **bioinformatics personnel**.
・Develop an infrastructure to support **collaboration and use of data** across disciplines and disciplines.

・Promote basic research such **as research focusing on the "life path"** of life from birth and growth to aging. Promote utilization of knowledge in different areas such as **AI and quantum**
・Ensure collecting, maintaining, and providing **bio-resources**, and enhance the core hubs. ・Promote collaborative actions among **industry, academia, government, and academia in bio-community and startup ecosystem** cities to attract personnel and investment, and to supply products and services to the market.

Overview of the Bioeconomy Strategy

○Solving problems of the environment, foods, health, etc.
○Achieving a Circular Economy and Sustainable Economic Growth

Contributing through expansion of the bioeconomy market

Expansion of the bioeconomy market (using biotechnology and biomass) Science and Technologies Toward 2030 and Direction of Innovation Policies

Aiming for 100 trillion yen scale market in Japan and overseas by 2030

①Biomanufacturing and Bio-based Products

②Sustainable primary production system
③ Large-scale construction utilizing timber, and smart forestry

④Biopharmaceuticals, regenerative medicine, cell therapy, gene therapy-related businesses
⑤Healthcare for lifestyle improvement, digital health

Set a vision for each target market by 2030, and measures to develop technology, market environment, and business environment through backcasting.

Base measures such as strengthening **research capabilities in** basic life sciences, which form the base of the bioeconomy, and promoting the activities of the bio-community.

Regional Characteristics, Strengths, and Challenges of Kansai

Kansai's strengths and challenges

Accumulation of bio-related industries

✓ Historically, bio-industries such as pharmaceuticals, medical devices, and fermentation have been concentrated;
✓ Small and medium-sized manufacturing companies with advanced technologies, such as development and manufacturing of medical devices, are concentrated mainly in Eastern Osaka;
✓ Bio related contract manufacturing organization (CMO) and contract development & manufacturing; organization (CDMO) businesses have been actively expanded in recent years.

Center of Research and Accumulation of Knowledge

✓ High-level research institutes and high-quality researchers are concentrated;
✓ Advanced research and development is progressing in the fields of regenerative medicine and immunity, such as iPS cells and cancer immunotherapy;
✓ Leading Research & development in cutting-edge fields, such as supercomputers, Fugaku.
✓ There are many research & development-type private companies;
✓ Diverse clusters in a wide range of fields have been developed and are compactly integrated.
✓ Joint researches and research exchanges with overseas are actively carried out.

The charm of the area

✓ Internationally, the cities of Osaka, Kyoto, and Kobe are significantly recognized as attractive cities;
✓ Kansai International Airport is the gateway to Kansai and has strong ties overseas, especially in Asia;
✓ Office rent and industrial zone rent are also relatively reasonable and have excellent cost competitiveness

Expectation to the future

✓ Many large-scale projects for Research & Development-type industrial promotion are being promoted;
✓ There is a foundation for producing start-up companies and it is expected;
✓ Osaka/Kansai Expo 2025 is scheduled, and future orientation is being cultivated.

Challenges

✓ Lack of venture mindset, human resources and funds;
✓ Startup awareness is low;
✓ There is no cohesiveness as Kansai.

From Accumulation to Collaboration

Accumulation of bio-related industries

Center of Research and Accumulation of Knowledge

The charm of the area

Accumulation

Support

Collaboration

Accelerate collaboration and linkages

Realizing a bioeconomy society in a wide range of market fields

Kyoto University
Center for iPS Cell Research and Application (CiRA),
Foundation for iPS Cell Research and Application (CiRA_F)
RIKEN (Keihanna)
Research Institute of Innovative Technology for the Earth(RITE)
Kyoto Research Park (KRP)

Osaka University
University Public Corporation Osaka
National Institute of Biomedical Innovation, Health and Nutrition
National Cerebral and Cardiovascular Center
National Institute of Advanced Industrial Science and Technology (Kansai Center)
RIKEN (Suita), Saito, Kento, Nakanoshima
Kansai Pharmaceutical Industries Association,
Doshomachi, LINK-J WEST,Urban Innovation Institute
Kinki Bio-Industry Development Organization

Kobe University
RIKEN (Kobe)
Kobe Biomedical Innovation Cluster (KBIC)/Supercomputer “Fugaku“
Organization for Engineering Biology (OEB)
Manufacturing Technology Association of Biologics (MAB)
Biologics Center for Research and Training (BCRET)
Harima Science Park City / Large Synchrotron Radiation Facility "SPring-8"

BiocK commitment accelerates further collaboration and linkages.

By such efforts Of KSAC *, KSII ** universities and research institutes Collaboration is progressing

* Keihanshin startup academia coalition
** Kansai Innovation Initiative

Startup support has begun through the actions of the Osaka-Kyoto-Hyogo-Kobe Consortium*.

* Startup and Ecosystem Hub Cities/Cabinet Office

About the Biocommunity Kansai

About the Biocommunity Kansai

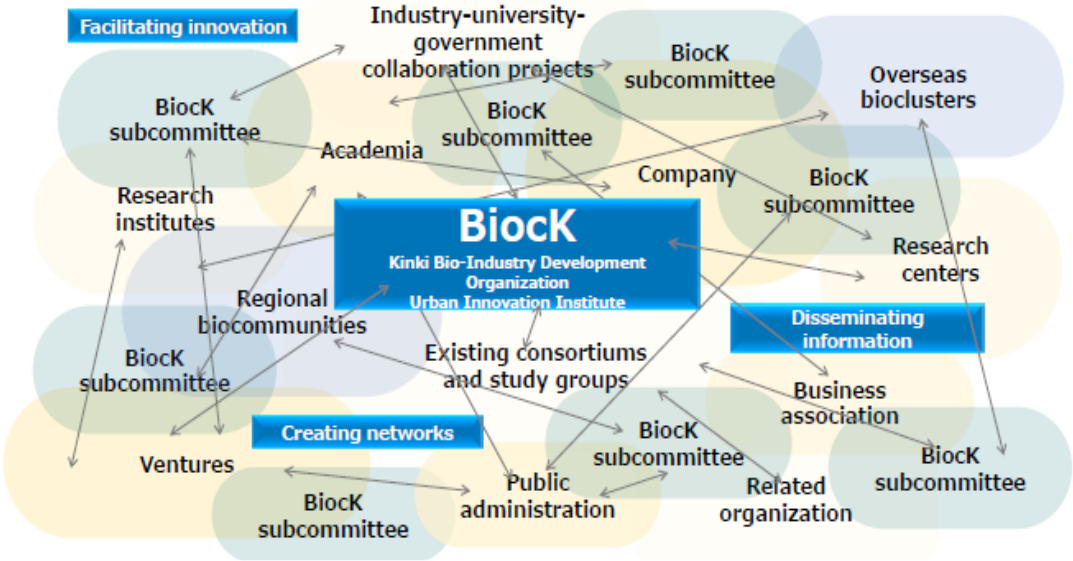
Vision	Spreading a bio-first approach to build a Global Biocommunity and realize a sustainable society
Goal	Creating an ultimate ecosystem for the bio-fields in Kansai
Keyword	Shifting from “Accumulation” to “Collaboration”

Name	✓ Biocommunity Kansai ✓ Abbreviation: BiocK
Establishment	✓ July 1st, 2021 ✓ April 22, 2022 ✓ (Global bio-community certification ✓ by the Japanese cabinet office)
Action Plan	✓ Promoting innovation ✓ Promoting networking ✓ Providing information to domestic and overseas
How the Biocommunity to be	✓ Making a community focusing on industry ✓ Strengthening collaboration across all of the Biocommunity ✓ Leading to new innovation

What is the meaning of "collaboration"?

By promoting the exchange of people and information within the community centered on the network institutions, Each institution has a deep understanding of each other's situation, appropriate information is shared with each other, cooperation with necessary partners, and a positive cycle of manpower, products, finance, and information is progressing, achieving economic growth and a stronger global presence.

Shifting from “Accumulation” to “Collaboration”



Organization of Biocommunity Kansai

Biocommunity Kansai (BiocK)

Committee

Secretariat
Kinki Bio-Industry Development Organization
Urban Innovation Institute

Adviser
(Expert)

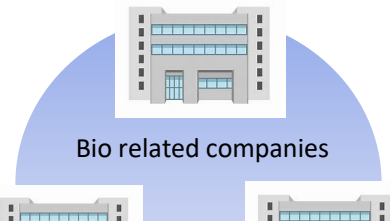
Base : Grand Green Osaka(TBD)

Kansai area
Osaka
Hyogo
Kyoto
Shiga
Tokushima
Tottori
Nara
Fukui
Wakayama

Sub-committee 1
Sub-committee 2
Sub-committee 3
Sub-committee 4
Sub-committee 5

Partner Organizations

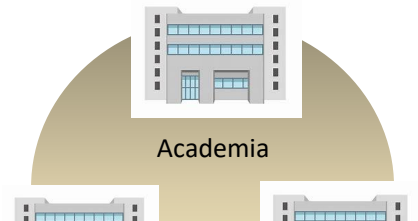
Collaboration・Support・Cooperation



Bio related companies

Bio ventures
Medium small size companies

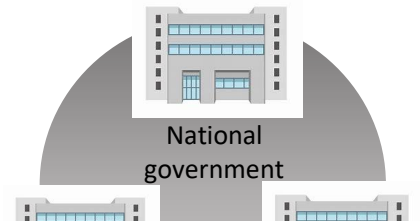
Economic Organization



Academia

Hospitals

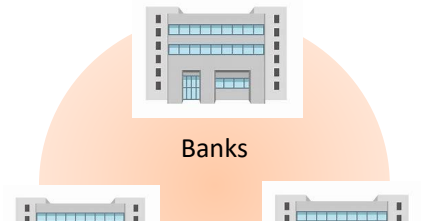
Research institutes



National government

Local public groups

Regional cluster



Banks

Venture capitals

Domestic and overseas funds, etc.

Biocommunity Kansai Committee Organization

July 10, 2025

Committees

Board Member

Chairperson of the committee	Takuko Sawada	Chairperson, Kansai Economic Federation Venture Ecosystem Committee
Vice-chairperson of the committee	Ryuichi Morotomi	Vice-chairperson, Venture Ecosystem Committee, Kansai Economic Federation Chairperson, Kansai Association of Corporate Executives ”Bridge Forum Committee”
Vice-chairperson of the committee, Executive Supervisor	Tsuneaki Sakata, Ph.D.	Chairperson, NPO Kinki Bio-Industry Development Organization Vice-chairperson, Life Science Promotion Committee, Osaka Chamber of Commerce and Industry President, All Japan Biocommunity Liaison Committee
Secretary General	Norihito Murayama	Senior Director, NPO Kinki Bio-Industry Development Organization
Deputy Secretary General	Masanori Morita	Senior Director, Urban Innovation Institute

Kansai Economic Federation
Kansai Association of Corporate Executives
Osaka Chamber of Commerce and Industry
Kyoto Chamber of Commerce and Industry
Kobe Chamber of Commerce and Industry

Osaka University
Kyoto University
Kobe University
Tokushima University
Osaka Metropolitan University

Osaka city, Osaka Pref.
Kobe city, Hyogo Pref.
Kyoto city, Kyoto Pref.
Shiga Pref,Tokushima Pref.
Tottori Pref., Nara Pref.
Fukui Pref.,Wakayama Pref.,
Sakai city,

National Institutes of Biomedical Innovation, Health and Nutrition
National Cerebral and Cardiovascular Center
National Institute of Advanced Industrial Science and Technology Kansai Center
National Agriculture and Food Research Organization
RIKEN
National Institute of Technology and Evaluation
Research Institute of Innovative Technology for the Earth
Advanced Telecommunications Research Institute International
Kansai Health and Medical Care Innovation Council

Kansai Pharmaceutical Industries Association
Japan External Trade Organization Osaka Headquarters
Kinki Headquarters, Organization for Small & Medium Enterprises and Regional Innovation, Japan
Life Science Innovation Network Japan
Japan Bioindustry Association

Secretariat NPO Kinki Bio-Industry Development Organization　Urban Innovation Institute

Action Plan （1）Facilitating Innovation

By forming a responsible consortium (subcommittee) to promote open innovation to solve social issues, take on challenges that cannot be solved by one company or one research institution.

① **Facilitating of open innovation by companies**

- Themes are solicited mainly from Kansai companies, and the core companies get the commitment of the management and become responsible leaders.
- Leader companies play a central role in forming and managing subcommittees involving Kansai and related organizations in Japan and overseas.

② **Collaborate with industry-academia-government collaboration projects**

- Cooperate with industry-academia-government collaboration projects promoted by the national and local governments, and give them a role as subcommittees, as necessary.
- Aim to improve the overall results by utilizing the BiocK network, such as by collaborating with other subcommittees

The following issues, which are the basis for all activities, need particular attention and subcommittees are established for addressing them.

Category	Task	Direction of Action
Startup support	Lack of venture mindset, human resources, and funds; Low recognition in overseas; Extremely small numbers of ventures, especially in the later stages of development.	Development of CXO human resources (business plan development, intellectual property securing, etc.); Financing after Series B; Cooperation with Osaka/Kyoto/Hyogo Kobe Consortium, KSAC, KSII; Proposal of funding mechanism that is not bound by the existing frameworks.
Securing human resources	Lack of CXO personnel to manage startups; Lack of human resources involved in bio-manufacturing.	Launch of CXO Human Resources Discovery Program through Human Resources Exchange; Approach to high-school students to foster their entrepreneurial mindset; Collaboration with a biomanufacturing human resources development Project.
Biofoundry	Establishment of biomanufacturing technology requires technology development and upfront investment; If we can build a value chain, it will be a great strength.	Strengthening projects related to biomanufacturing technology and cell-manufacturing technology; Utilization of CDMO, CMO, bio-manufacturing bases of operating companies;
Data linkage and utilization	Creating rules for collecting, integrating, and using biorelated data; Building a system that can be operated sustainably.	Construction of data linkage system from Kansai; Realization of Society 5.0.

Subcommittee Promotion of open innovation by companies (16 projects)

July 1st, 2025

Name	Areas	Work	Leadership Company
Biomethane subcommittee	Environment and energy	Carbon neutralization of energy	Osaka Gas Co., Ltd.
Plastic subcommittee	Environment and energy	Bioplastic	Saraya Co., Ltd.
Mental health subcommittee	Healthcare	Improving social productivity	Shionogi & Co., Ltd.
Personal data subcommittee	Healthcare	Use of personal data	Nippon Telegraph and Telephone West Corporation
Wellbeing Subcommittee on Aspergillus (national bacteria)	Lifestyle modification healthcare	Elucidation of health and cosmetic effects of Aspergillus oryzae	Gekkeikan Sake Co., Ltd.
Life Style DX subcommittee	Digital Healthcare	Updating Lifestyles with Digital	Suntory Global Innovation Center Limited
Toilets excellently add value to your life	Healthcare	Toilets excellently support your physical wellbeing	TOTO Ltd.
Subcommittee on Tea and Frailty Research	Healthcare	Creating Health Care & Food Technology Innovations with Tea	Kyoeiseicha Co., Ltd
Smart cultivation subcommittee	Continuous primary production system	Maximizing the use of biotechnology in the primary industry	Yanmar Holdings Co., Ltd.
Utilization of wood and CLT with DX subcommittee	Large scale and Mid-to-high-rise building using wood and CLT	Reuse of CLT with Building Information Modeling (BIM) data	TAKENAKA CORPORATION
Forest Environment subcommittee utilizing KODOBOKU	Forest conservation	Luxuriant reforestation for Biodiversity	C-TECH CORPORATION
Biofoundry cluster subcommittee	Manufacturing Value Chain	Biomanufacturing	Baccus Bio innovation Co., Ltd.
Subcommittee on Analysis and Measurement Technologies	All biotechnology fields	Promoting bioindustry through analysis and measurement technologies	Shimadzu Corporation
Space Biological Experiments Subcommittee	All biotechnology fields	Construct a democratized space biological experiment platform using satellite payloads from Japan	IDDK Co., Ltd.
Section committee changing the world of Biotechnology by sound	Biotechnology production system / health care	Use of sound to Biotechnology production system and health care area	Onkyo Corporation
Start-up subcommittee	Support for start-up	Support for start-up in Kansai	Sumitomo Mitsui Banking Corporation(SMBC)

Seeking companies and industry-academia-government collaboration projects that will be the core function of the new subcommittee.

Many research institutions from industry, government, and academia are scheduled to participate

Subcommittee

Collaboration with industry-government-academia projects (15 projects)

July 1st, 2025

Name	Area	Work	Leadership Organization	Remarks
Subcommittee on digital biohealth	Healthcare	General health industry city	National Cerebral and Cardiovascular Center	Field of JST co-creation
Subcommittee on photonics life engineering	Healthcare	Photonics biotechnology	Osaka University	Field of JST co-creation
VISION to CONNECT	Healthcare	Social implementation of happy lifestyles through digital health big data with a focus on ophthalmology	Tohoku University	Field of JST co-creation
Subcommittee on modality	Healthcare	Manufacture of antibodies, gene therapy products, and vaccines	Manufacturing Technology Association of Biologics (MAB)	AMED・NEDO
MedTech Innovation	Healthcare	HR Training for Medical Device Development	Osaka University/Thermo Corporation	
Health Equity DX Subcommitte	Healthcare	Building a care system for carers	JichiMedical University / Alm Co., Ltd	
Subcommittee on cell production	Regenerative medicine	Construction of an ecosystem for cell production	Osaka University	AMED
Regenerative Medicine subcommittee	Regenerative medicine	Building a regenerative medicine ecosystem and globalization	Osaka University	
Health Functions Quotient	Prediction, prevention and improvement for weaking of Health	Extending healthy life by maximizing personal health	Kobe University and RIKEN	
Food loss subcommittee	Sustainable primary production system	Innovative low food loss co-creation base	Osaka University	
Subcommittee on digital green	Sustainable primary production system/ Digital healthcare/ Bioproduction system	Realization of a sustainable society with Keihanna Science City and suburban farming and mountain villages complementing each other	Nara Institute of Science and Technology	
Biomass subcommittee	Carbon neutral	Realization of carbon zero emissions through biomass technology	Tokyo University of Agriculture and Technology (TUAT)	Field of JST co-creation
White bioindustry subcommittee	White bioindustry	Biofoundry business	Osaka University (representative sponsor)	NEDO
Human Resource Development in industrial Bio-production fields	Developing Human Resources for Bio-Production Systems	Developing Human Resources for the Bio-Industry to Handle Bio-Manufacturing Practices	Osaka University Institute of Technology	NEDO
Future urban subcommittee	Sustainable Society	Dissemination of future intellectual infrastructure models	Osaka University	Field of JST co-creation

Many research institutions from industry, government, and academia are scheduled to participate

Subcommittee Mapping

Light Blue: Subcommittee of Open Innovation from Businesses
Dark blue: Subcommittee of collaboration with Industry-Government-Academia projects

Environment&Energy

Biomethane Subcommittee

Plastics Subcommittee

Biomass Subcommittee

Wood and CLT Utilization DX Subcommittee

KODOBOKU Technology Utilizing Forest Environment Subcommittee

Food & Primary Production

Carbon Neutral Recycling- based society with zero waste

Aspergillus (Japanese yeast) Wellbeing Subcommittee

Subcommittee on Tea and Frailty Research

Smart Cultivation Subcommittee

Food Loss Subcommittee

Digital Green Subcommittee

Digital × Green

Healthcare

Medical Care

Regenerative Medicine Subcommittee

Cell culture Subcommittee

Modality Subcommittee

MEDTEC Innovation Subcommittee

Mental Health Subcommittee

Good Health

Personal Data Subcommittee

Digital Bio-health Subcommittee

Vision to Connect Subcommittee

Health Equity DX Subcommittee

Kenko-Kansu(Health Algorithm)Subcommittee

Integration

Big Data Healthcare Subcommittee

Digital x Health

Lifestyle DX Subcommittee

New Value Proposals in Restroom Spaces Subcommittee

Biotech Manufacturing

Biofoundry Cluster Subcommittee

Analysis & Metrology Subcommittee

White Bio Subcommittee

Bio-industry HR Development Subcommittee

New Business Development

Subcommittee on Changing the World of Biotechnology with Sound

Space Bio Experiment Subcommittee

Photonics Subcommittee

Futuristic City Subcommittee

Platforms

Start-up Subcommittee

Subcommittee Activities

4th Subcommittee Meeting

Thursday, August 29, 2024
（1 lecturer, 30 subcommittee members, 12 observers, 11 BiocK members)

Program
1. Opening remarks (Ms. Sawada, Chairperson)

2. Introduction of new subcommittee activities

3. Sharing information about the international symposium and request for participation

4. Presentation
「Toward the Success of Open Innovation」

Chitose Research Institute Co., Ltd.
Representative Director
Chief Executive Officer
Mr. Tomohiro Fujita

5. Discussion Based on Survey Results

(Moderator: Dr.Sakata
Vice Chairperson and Executive Supervisor)

6. Closing Remarks (Mr.Morotomi, Vice Chairperson)

5th Subcommittee Meeting
August 28, 2025 (Thursday)

Towards the success of open innovation

BiocK's support for subcommittee activities to date
① Event cooperation (co-hosting, sponsorship, greetings, lectures, publicity, etc.)
②Connecting with Partners
③ Advice on obtaining public funding

4th Subcommittee Meeting
◆Expectations for BiocK
Exchange of opinions based on questionnaire results

Expectations for BiocK from the subcommittee
① Partner Recruitment② Disseminating information
③Support for obtaining public funds

Strengthening support activities to achieve concrete results！

How to proceed with support activities:

Organize the needs of subcommittees and respond to those needs as follows:

① Partner Search
- Introduce partners using the BiocK network
- Strengthen matching with startups
- Support the search for partners at seminars and networking events

② Support information dissemination
- Publicize activities on websites and in newsletters
- Share information at seminars and symposiums

③ Support for securing public funds
- Provide information on public funding opportunities
- Funding proposals based on actual conditions

Towards achieving our goals

Subcommittee Activities

Events organized by subcommittees

Startup Subcommittee
Special Trial

Session 1: Friday, May 17, 2024
Session 2: Friday, July 19, 2024
Session 3: Friday, September 20, 2024
Session 4: Friday, November 15, 2024
Session 5: Friday, January 17, 2025
Session 6: Friday, March 21, 2025

Subcommittee on Digital Biohealth
Personal Data Subcommittee
Mental Health Subcommittee
Monday, November 18, 2024
BiocK Subcommittee and JBA Healthcare Study Group hosted an exchange meeting on the theme of “Health Data Platforms”

Lifestyle DX Subcommittee
June 2024
Intestinal health support app “Intestinal Note” released
Android version following iPhone version

Subcommittee on Analysis and Measurement Technologies
Friday, July 19, 2024
Bio Community Kansai “Analysis and Measurement Subcommittee” Symposium ~Analysis and Measurement Technologies Supporting the Future of the Bio Industry~

Plastics Subcommittee
Saturday, October 5, 2024
Plastics Seminar

Subcommittee on Digital Biohealth
Thursday,December 5, 2024
JST Co-creation Forum Support Program
Joint Symposium of Policy Priority Areas Bio Hubs
“Creating a Healthy Society of the Future Together: The Challenges of Tsukuba and Kokujun”

Subcommittee on Digital Biohealth
January 2025JST
Collaboration Forum/National Cardiovascular Center Pamphlet Completed

Space Biological Experiments Subcommittee
Friday, February 21, 2025
BiocK Space Bioexperiment Subcommittee Public Event
Growth Industry Development Consortium Promotion Project Networking Exchange Meeting
"Space x Life Sciences in Kobe vol. 2 ~Medical Research Related to Space Using Model Organisms~"

Achieving Successful Open Innovation

Third Subcommittee Meeting (2023.8.31) Talk Session
According to the discussion at the Bio-Strategy Talk Seminar (2023.8.1)

Society Issues and the Theme

- How we see **Global Society's Issues**
- How Biotechnology can solve the issues
- Setting themes that can be commercialized

Private sector based

- Need private-sector support for **commercialization**
- Commitment of company executives is essential.

How to work on

- Workshops that involve citizens, young people and others would also be effective.
- **Start with** a small scale for advanced projects.

Manpower

- Recruitment of open innovation personnel
- **Intrapreneurs**
- Hard to develop business by technical department only
- Developing biotech human resources is also necessary.

Collaboration with Academia

- Academia seeds to be commercialized by companies or ventures
- Need to have **experts** in seeds
- The concept of academia collaborating with companies to solve social issues is also important.

The Core of Open Innovation

Concept

What to do

- Working on real issues in society
- Challenges that cannot be solved by a company alone
- Design for Innovation

Communications

Get support from others

- Coordinate specialists
- Personality, ability to obtain information, expressive ability, on-site skills, and intuition skills.

Role of the Startup

- **Leading role for promoting innovation**
- It also serves as **a bridge between academia and business**
- Establish a venture that becomes a flagship
- Company that creates end products
- CXO Human Resource Development
- Entrepreneurial training is classroom + practice
- Promoting investment in startups

Collaboration with government

- Obtaining national funds
- Collaboration with local authorities is important for smart cities, recycling, energy etc.

More collaboration

- Digital and AI incorporation
- Benefits with different stakeholders
- Collaboration across various businesses and industries
- **International Collaboration**

Utilization of Data

- Data is essential in the healthcare
- Data is also critical in the agricultural and environmental fields.

Features of Kansai

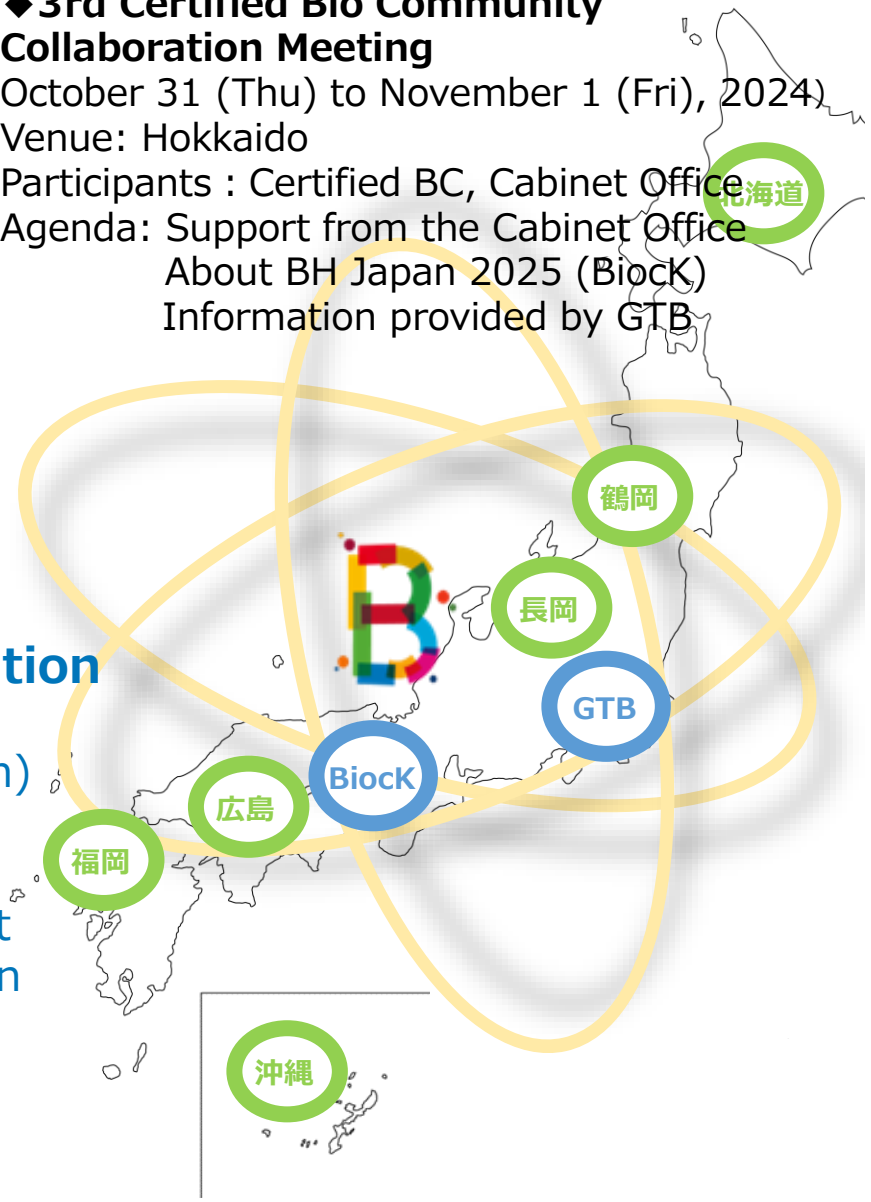
- Has a face-to-face community.
- **Open and frank discussions**
- Suitable for innovation development
- Need to activate the discussion meetings (salon)

Action Plan （2） Promoting network formation

Domestic Collaboration

◆Keihanshin Collaboration Conference
Participants: BiocK, Osaka Prefecture, Kyoto City, Kobe City
Agenda: BH Japan 2025, startup support activities, etc.

◆3rd Certified Bio Community Collaboration Meeting
October 31 (Thu) to November 1 (Fri), 2024)
Venue: Hokkaido
Participants : Certified BC, Cabinet Office
Agenda: Support from the Cabinet Office
About BH Japan 2025 (BiocK)
Information provided by GTB



Results of Keihanshin collaboration
1. Keihanshin collaboration at Bio-International (Boston)
2. Cooperation with BH Japan 2025
3. Mutual cooperation in projects of each local government
4. Dramatic increase in communication

◆2024 National Bio Community Liaison Meeting
January 20, 2025 (Mon)
Hosted by JBA
Participants: National BCs, Cabinet Office, Government agencies
Agenda: Formation of a startup ecosystem

◆Kansai Bio Business Matching
2024January to February 2025(online)
Number of exhibitors: 122
Pitch presentations: 46
Number of participants: 214
Matching support: 35
Number of business negotiations: 157

◆BiocK Partner Organizations
67 organizations in Japan (July 1, 2025)

◆Co-hosting, cooperation, and sponsorship of seminars.
Approximately 100 events per year

Action Plan （2） Promoting network formation(2023～2025)

International Collaboration

◆Japan-UK Healthcare Symposium
– Healthy Aging –
Co-hosted February 20, 2024

◆Japan-UK Healthcare Symposium
– Cell and Gene Therapy –
“Manufacturing in the UK”
Co-hosted February 25, 2025

◆Overseas Research - 2
October 29 to November 9, 2023
The Netherlands, United Kingdom
Digital Biohealth Subcommittee
(National Cardiovascular Center)
JST Co-Creation Program

◆Overseas Research - 3
January 13-21, 2024
Spain, France
Digital Biohealth Subcommittee
(National Cardiovascular Center)
JST Co-Creation Program

◆Overseas Research – 5
October 24 to November 3, 2024
France, Switzerland, Denmark
Digital Biohealth Subcommittee (National Cardiovascular Center)
Photonics Life Science Subcommittee (Osaka University)JST Co-Creation Program

◆Japan-Netherlands Symposium
- Regenerative Medicine –
Co-hosted Part 1 April 14, 2023
Part 2 May 19, 2023

◆Japan-Netherlands Regenerative Medicine Symposium 2025
Co-hosted June 25, 2025

◆BH Japan 2025
April 17 and 18,2025
Participants: 339
people 290 from Japan,
49 from 25 countries overseas

◆Overseas Research 6
January 12-25, 2025
United States (Washington, San Francisco)
Digital Biohealth Subcommittee (National Cardiovascular Center)Photonics Life Science Subcommittee (Osaka University)JST Co-Creation Program

◆Overseas Research – 7
June 14-19, 2025United States (Boston)Digital Biohealth Subcommittee(National Cardiovascular Center)JST Co-Creation Program

◆Frankfurt Main-Rhine Seminar
Co-hosted November 14, 2023

◆Overseas Research – 1
May 28 to June 3, 2023 Oceania
Digital Biohealth Subcommittee (National Cardiovascular Center)
JST Co-Creation Program

◆Overseas Research – 4
June 2-9, 2024United States (San Diego)
Digital Biohealth Subcommittee
(National Cardiovascular Center)
Photonics Bioengineering Subcommittee
(Osaka University)
JST Co-Creation Program

● Communication hub

● Affiliated organization

◆BiocK Partner Organizations
42 overseas organizations
(as of July 1, 2025)

Action Plan （2） Promoting network formation(2023～2025)

July 1st, 2025

Advisor

Akihiko Kondo	Kobe University Professor Emeritus, Executive Assistant to the President Bacchus Bio innovation President, Founder, and Representative Director
Chihiro Maeda	Barnes & Thornburg LLP Of Counsel
Chiho Watanabe	Nagasaki University School of Tropical Medicine and Global Health/ Interfaculty Initiative in Planetary Health Professor
Daisuke Ishikawa	SHUSAKU･YAMAMOTO LPC Patent Attorney
Edward Willems	Gold Nest Capital Co-founder/CEO Ginward Ltd Co-founder/Managing Director
Fumiaki Ikeno	MedVenture Partners, Inc. Chief Medical Officer Stanford Biodesign, Stanford University Program Director (U.S.) Japan Biodesign
Fumiaki Yumoto	Renzoku Biologics Inc Co-founder/Chief Operating Officer
Fumiko Kasuga	Nagasaki University School of Tropical Medicine and Global Health/ Interfaculty Initiative in Planetary Health Professor Japan, Future Earth Secretariat Global Hub Director
Hiroaki Izuma	Tohoku Electric Power Company Advisor Osaka University Foresight Board Member
Hirokuni Miyamatsu	Oxford University Innovation, Representative in Japan Associate Consultant KAHM Japan Limited Chief Executive Officer
Hirotaka Saso	Cambridge Consultants Japan Inc Representative Director
Hiroyuki Tonoi	TONOI Certified Public Accountant Office Certified Public Accountant
Jiro Tony Fujita	Biocom Japan Consulting Managing Director
Joseph Panetta	Biocom California President and CEO
Jun Miyagawa	CoEvolution LLC CEO MIRACLE Science Innovation Corp. CEO Osaka Metropolitan University Project Professor
Kazuhiro Chiba	Tokyo University of Agriculture and Technology President
Kazuki Mikata	Technology Strategy Center (TSC), New Energy and Industrial Technology Development Organization (NEDO), Japan Unit Director, Bioeconomy Unit
Kensaku Yamamoto	SHUSAKU･YAMAMOTO LPC ATTORNEY-AT- LAW PATENT ATTORNEY
Koichi Sumida	Koichi Sumida Accounting Firm Representative Tax Accountant / Registered Management Consultant NEDO Technology Management Advisor (Accompany Runner) OSAP Mentor (finance)
Mari Yamamoto Regnier	Barnes & Thornburg LLP Partner/Chair of the Japanese Services group
Masaharu Hanawa	SHIONOGI & Co., Ltd. Director Regulatory Affairs
Miwako Waga	International Innovation Outreach, University of California San Diego Senior Director
Nao Yoshizawa	GRiT Partners Law Offices Lawyer
Norikazu Eiki	Eiki Consulting, LLC / President
Satoshi Ogawa	TMI Associates Kyoto Office Partner (Attorney)
Taisuke Igaki	NISHIMURA&ASAHI Lawyer/New York State lawyer
Takashi Takenoshita	Senya Therapeutics CEO UCL Tech Fund Venture Partner
Takeaki Dohda	Google LLC Head of Venture Capital Business Development
Takeshi Komatani	TAKASHIMA International Patent Office Patent Attorney Graduate School of Science, Technology and Innovation, Kobe University Visiting Professor Doshisha University Visiting Professor
Takuya Matsui	Cambridge Consultants Japan Inc Business Development Manager, Medtech
Tatsuaki Kitachi	Certified Public Accountant Otsuka Holdings Co. Ltd Outside director Kanagawa Pref. Adviser
Tomoko Hayashi	MD, PhD Division of Rheumatology, Department Medicine, University of California San Diego Project Scientist Graduate School of Medicine, Kyoto University Visiting Assistant Professor
Tomoya Nagata	D3 LLC | Bio-Healthcare VC Managing Partner, CEO BUSINESS MODEL ASSOCIATION Executive Officer
Tomoyoshi Koyanagi	Institute for Advancement of Clinical and Translational Science (iACT) Kyoto University Hospital Director of Business Development
Wataru Nakamori	Kitahama Partners Partner / Attorney at Law
Zain Rana	Greenstaff Lifesciences Associate Director of Business Development, Japan–U.S.

Action Plan（3） Disseminating information

Dissemination of Bioinformation from Kansai

- ✓ Information on activities and potential in Kansai;
- ✓ Information involving citizens;
- ✓ Information regarding economic security

Building Kansai Brand

- ✓ Osaka, Kyoto, and Kobe are well known, but recognition of Kansai is not high
- ✓ To improve the value and recognition of the Kansai brand by disseminating bio-information across the Kansai

Osaka / Kansai Expo2025

- ✓ It is a great opportunity to appeal to the world, and BiocK will participate in verification experiments.
- ✓ Take this opportunity to achieve realization in society.

OSAKA, KANSAI, JAPAN EXPO2025

Logo, homepage, pamphlet, movie, seminar, symposium, individual meeting, and more

Visit our website !

BiocK

https://biock.jp/

- Event Information
- Subcommittees
- Collaborative Organizations

Action Plan (3)　Disseminating information domestically and internationally

BiocK Activities

Information dissemination through lectures, interviews, magazine articles, etc.

Presentation at BioJapan
October　9～11　2024
Certified Biocommunity Activity Reporting Session
Speaker:
　Vice Chair and General Coordinator Sakata
「Biocommunity Kansai Activities Introduction」

Kansai Regional Association Seminar
Speaker: Secretary General Takada
「Bioeconomy Hub Japan 2025」

Featured in Nikkei Biotech
September　26 1 ,　2024
Vice Chair and General Coordinator: Sakata
Biocommunity Kansai to hold international symposium on "Planetary Health" at Expo 2025 in Osaka

Posted in the JBA newsletter
July 2024
Posted by Secretary General Takada
「 Biocommunity Kansai (BiocK): From clustering to collaboration 」

Kansai Bio Manufacturing Forum 2025
March　5 , 2025
Organizer : Kinki Bureau of Economy, Trade and Industry
BiocK :　Sponsor 、
Speech :　Vice Chair and General Coordinator
Panel presentation :
　Secretary General Takada
Poster presentation

Information dissemination on the website

Used by many organizations as a bio portal site

Operation of the subcommittee introduction page
Advisor introduction

Providing information on related organization events
Posted on the website
Email newsletter distribution　:
　Approximately 120 cases per year

Announcements from BiocK and other organizations
Posted on the website
Email newsletter distribution　:
:　Approximately 50 cases per year

Action Plan (3)　Disseminating information domestically and internationally

Bioeconomy Hub Japan

Bioeconomy Hub Japan 2024

Date: April 19, 2024
Venue: Grand Front Osaka
Organization:
Bioeconomy Hub Japan Committee
Theme: Planetary Health
～How Innovation by Bioeconomy can Realize Planetary Health～
Speakers ： Domestic 8 people 、Director 3 people
Number of participants ： 110 people

Bioeconomy Hub Japan 2025

Date ：　April 17-18 2025
Venue ：　Herbis Hall （Osaka Umeda）
Organizer ：
Bioeconomy Hub Japan organizing committee
Theme: Planetary Health
～ How Innovation by Bioeconomy can Realize Planetary Health ～
Speakers ：
Overseas 6people、Domestic 9people、Director 3people
Number of participants ：339 people
（ Domestic 290people 、Oversea 25countrys 49people ）

From the symposium discussions

The bioeconomyenables both economic growth and the realization of a sustainable society.

Comments from the speakers

- ◆Open Science
- ◆International Collaboration
- ◆New Industrial Value Chains
- ◆Improving social acceptance
- ◆Communication and trust
- ◆Science-based data sharing
- ◆international standardization,
- ◆Regulations
- ◆A partnership that respects local culture
- ◆A balance between global and local
- ◆Human Resource Development
- ◆Information dissemination
- ◆Hopes for Japan's initiative