

○Activities and Achievements

**【Fiscal Year 2025】**

**1. Keio Showcase Project**

**Overview :**

In pursuit of its new mission—“Creating the Keio Showcase”—assigned to KGRI in December 2022, KGRI is working to identify the research content and appeal of researchers within Keio University and is producing research showcase videos to publicize them. We are also collaborating with the “Program for Forming Japan’s Peak Research Universities (J-PEAKS),” for which Keio University was selected in fiscal year 2023, and is working toward realizing Keio’s vision of becoming a “research university that forges the common sense of the future.”

**Achievements :**

**1) Research Showcase Video Production**

Keio Research Showcase Portal : <https://showcase.kgri.keio.ac.jp/en/>

- Hidden Jewels Series : 6 videos  
We produced a series of roundtable discussion videos that reflect KGRI’s goal of setting interdisciplinary and cross-domain research themes by bringing together researchers from different fields. These videos highlight Keio researchers—known as “Hidden Jewels”—who excel in research and are eager to collaborate across disciplines and internationally.
- Hidden Jewels Special Events : 5 videos  
We held special events featuring researchers recommended as “Hidden Jewels” who took the stage to engage in cross-disciplinary discussions, and produced videos of the events.
- Legend Series : 2 videos  
We designated a senior faculty member who has already made significant contributions and earned a solid reputation at Keio University as a “Legend,” spotlighted him by hosting a talk event, and produced a highlight video of the event. We also produced a documentary video featuring this “Legend.”
- KGRI Research Centers Introduction Videos : 3 videos  
KGRI produced videos introducing the projects and centers operating within KGRI.
- KGRI Challenge Grant Research Results Presentations Videos : 3 videos  
We have produced videos presenting the research findings of the recipients of the KGRI Research Grant Program, “KGRI Challenge Grant,” for fiscal year 2024.

## 2) Working Papers: 2

① Title : [研究報告書 ～web3 ウォレットのルール形成について～](#) (Japanese only)

Authors: Research Team on Rule-Making for Web3 Wallet (Unhosted Wallet)

② Title : [AI を前提とした医療の創生](#) (Japanese only)

Authors: Jun Murai, Masahito Kawamori, Ryutaro Yamamoto, Hitomi Sano (Medical Inclusion Working Group, Cyber Civilization Research Center (CCRC))

## 3) Hiring Faculty URAs to Enhance Research Capabilities

By hiring a faculty URA as Special Assistant to the KGRI Director, we established a URA-centered unit structure that was launched following the J-PEAKS grant award. The Special Assistant to the Director took the lead in coordinating the faculty URAs working at KGRI and spearheaded research support initiatives aimed at enhancing research capabilities.

## 2. Projects to Strengthen International and Interdisciplinary Collaboration

### Overview :

Regarding the distribution of international and interdisciplinary research papers and the international dissemination of research, we solicit candidate papers from within the university and distribute academic news articles to media outlets, universities, and research institutions regarding those papers that meet certain criteria established by KGRI. Furthermore, by hosting symposia both in Japan and abroad and attracting international research conferences, we aim to strengthen our education and research networks, enhance Keio University's international collaborations, and elevate its international brand.

### Achievements :

#### 1) International Dissemination of Papers and Research

To promote research papers published in leading international journals, KGRI continued to distribute press releases to the international media sites EurekAlert! and AlphaGalileo. We distributed press releases for a total of 11 research papers—covering not only science, engineering, and medicine but also the humanities and social sciences—which resulted not only in an increase in citations but also in secondary benefits, such as coverage on social media, other news sites, and blogs. For fiscal year 2026, we have set a target of publishing at least 15 articles annually. We will strategically advance the international promotion of our research papers by analyzing data such as traffic to news articles published in fiscal year 2025 and the citation counts of the target papers.

#### Fiscal Year 2025: Distribution Results

| No. | Title                                                                                                                  | Applicant<br>※Faculty members who requested promotion of their papers |
|-----|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 1   | <a href="#">The development of professional expertise in preschool teaching in Japan, China, and the United States</a> | Akiko Hayashi (Associate Professor, Faculty of Business and Commerce) |

|    |                                                                                                                                                                                                        |                                                                                          |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 2  | <a href="#">Sight-over-sound effect depends on interaction between evaluators' musical experience and auditory-visual integration: An examination using Japanese brass band competition recordings</a> | Shinya Fujii (Associate Professor at the Faculty of Environment and Information Studies) |
| 3  | <a href="#">Longitudinal single-cell analysis of glucagon-like peptide-2 treatment in patients with short bowel syndrome</a>                                                                           | Tomohisa Sujino (Associate Professor, School of Medicine)                                |
| 4  | <a href="#">Perceived vibrato and the singing power ratio explain overall evaluations in opera singing</a>                                                                                             | Shinya Fujii (Associate Professor at the Faculty of Environment and Information Studies) |
| 5  | <a href="#">Enhanced subjective performance achievement in wind instrument playing through positive memory recall: effects of sympathetic activation and emotional valence</a>                         | Shinya Fujii (Associate Professor at the Faculty of Environment and Information Studies) |
| 6  | <a href="#">Effects of a Smartphone-Based Positive Reflection Diary on Work Engagement Among Japanese Workers: Randomized Controlled Trial</a>                                                         | Akihito Shimazu (Professor, Faculty of Policy Management)                                |
| 7  | <a href="#">Toward Supramolecular Robotics: Molecular Strategies for Adaptive Soft Materials</a>                                                                                                       | Taisuke Banno (Associate Professor, Faculty of Science and Technology)                   |
| 8  | <a href="#">Motion Reproduction System for Environmental Impedance Variation via Data-driven Identification of Human Stiffness</a>                                                                     | Takahiro Nozaki (Associate Professor, Faculty of Science and Technology)                 |
| 9  | <a href="#">Acoustic generation of orbital currents</a>                                                                                                                                                | Kazuya Ando (Professor, Faculty of Science and Technology)                               |
| 10 | <a href="#">A chill brain-music interface for enhancing music chills with personalized playlists</a>                                                                                                   | Shinya Fujii (Associate Professor at the Faculty of Environment and Information Studies) |
| 11 | <a href="#">Intestinal Epithelial MHC Class II Induces Encephalitogenic CD4+ T Cells and Initiates Central Nerves System Autoimmunity</a>                                                              | Tomohisa Sujino (Associate Professor, School of Medicine)                                |

## 2) Hosting International Conferences

From January 27 to 28, 2026, an international conference on peace in Ukraine, organized by a group of international experts from the Netherlands Institute of International Relations 'Clingendael' was held at Keio University's Mita Campus.

<https://www.kgri.keio.ac.jp/en/news-event/172593.html>

## 3) Great Thinker Series

With the aim of enhancing Keio University's international research capabilities and global presence, KGRI invited a researcher from overseas who has made outstanding contributions on the global stage to give a lecture and produced a video of his presentation.

"Envisioning a Sustainable Cyber-Physical Society"

Speaker : Professor Scott Fisher, Director, USC Mobile & Environmental Media Lab

<https://showcase.kgri.keio.ac.jp/en/movie/sc-008/>

### 3. Strategic Public Relations Projects

#### Overview :

KGRI is utilizing the latest generative AI technologies to build a system infrastructure and portal site designed to uncover the appeal of research conducted by all Keio University researchers and disseminate information to diverse stakeholders through a variety of media. Through this initiative, we aim to enhance Keio University's citations and reputation and expand our strategic public relations infrastructure to support the expansion of our research networks.

#### Achievements :

##### 1 ) Development of Generative AI Systems and an Information Portal

KGRI is developing a platform system that centrally manages researchers and research information and uses AI to summarize research abstracts and present them in an engaging manner. In fiscal year 2025, we carried out the following tasks.

- We imported PDFs of articles from the academic information repository (KOARA), PDFs of Grants-in-Aid for Scientific Research reports, and English abstracts from Web of Science into the pilot system built in fiscal year 2024. We then used AI to generate research summaries for approximately 200 faculty members, established a database for the Showcase, and began testing the search functionality on the Showcase Portal.
- During the evaluation of the pilot system, we reexamined the halation issues caused by the use of generative AI and conducted additional development to improve accuracy. In addition, we designed and developed new features—including an approval workflow—in preparation for expanding the scope of eligible faculty members starting in fiscal year 2026.
- We evaluated and conducted a pilot test of RAG (Retrieval Augmented Generative), a generative AI technology, to enable users to search for researchers and research information via the Showcase Portal.

##### 2 ) Development of a Research Showcase Portal Site linked to the J-PEAKS Initiative

In fiscal year 2024, we launched the “Keio Research Showcase Portal Site” to highlight the appeal of research conducted by all Keio University researchers. In fiscal year 2025, we worked to enrich the content of the portal site to further develop it. In addition to hosting video content produced through initiatives such as the “Hidden Jewels” project, we are collaborating with research newsletters published by various faculties and graduate schools across the university. Our goal is to create a centralized portal that allows users to access research-related content stored in various locations across the university through the portal site.

### 4. Program for Fostering Young Researchers

#### Overview :

KGRI will implement support measures—primarily for early-career researchers—that lead to the creation of interdisciplinary and cross-disciplinary research projects. To strengthen support for projects in the humanities, social sciences, and interdisciplinary fields—one of KGRI's key priorities—the KGRI Humanities and Social Sciences Grant (KGRI HSS Grant), established in fiscal

year 2024, will be integrated into the KGRI Challenge Grant research funding program, under which grants for research in the humanities and social sciences will be provided. Furthermore, we will provide support for research grant applications on a pilot basis. In addition, we will utilize external support organizations for researchers in the humanities and social sciences to assist in the creation of research projects.

#### **Achievements :**

##### **1 ) KGRI Challenge Grant : 2 recipients for research in the humanities and social sciences**

- Total grant recipients: 10 (6 new • 4 continuing)
- By setting a time limit on the number of years since obtaining a Ph.D. as an eligibility requirement, we focused our support on early-career researchers. At the same time, through feedback provided to unsuccessful applicants, we provided ongoing support and built relationships that would help them secure external funding in the future.

##### **2 ) Support for Research Grant Applications : 7 researchers**

We invited interested researchers and provided individualized suggestions for refining their application proposals.

#### **【Through fiscal year 2024】**

##### **Recruitment of young researchers with international research outcomes and leading international excellence project founders**

- 1) Recruitment of young researchers with international research outcomes (KGRI Project Members Introduction page)

**【Fiscal Years 2021~2023】**

Overview: KGRI has established a scheme to foster internationally active young researchers and welcome outstanding young researchers from Japan and abroad. To support the activities of the three-year project “Research Project Keio 2040” launched in FY2021, KGRI appointed project based researchers with international research outcomes.

Achievements : (English) <https://www.kgri.keio.ac.jp/en/project-assistant-professor/yr-index.html>

(Japanese) <https://www.kgri.keio.ac.jp/project-assistant-professor/yr-index.html>

- 2) Recruitment of a project professor to found a leading international excellence project

**【Fiscal Year 2023】**

In order to become an internationally outstanding research university, a project professor was appointed to lead a leading international excellence project in FY2023. He played a central role in preparing the application for the "Program for Forming Japan's Peak Research Universities (J-

PEAKS)," a grant from the Ministry of Education, Culture, Sports, Science and Technology (MEXT). As a result, Keio University has been selected for J-PEAKS.

<https://www.keio.ac.jp/en/news/20231226-1/>



(Overview of Keio University's J-PEAKS Project)

### 3) Activities linked to the J-PEAKS project, and development of the system

【Fiscal Year 2024】

In FY2023, KGRI continued to employ a project professor who was appointed as a founding member of the Project for International Excellence and Leadership. In addition, KGRI hired new specially appointed faculty members and specialists for the “Keio Global Research Development Project” and “J-PEAKS Project,” mainly led by the project professor. At the same time, KGRI has been strengthening its internal structure by recruiting personnel who will be hired in FY2025 and beyond.

### Recruitment of Top-Class Researchers

【～Fiscal Year 2022】

Overview: Professor David J. Farber, a highly respected American national in the field of Cybersecurity, was appointed as on a special Foreign Researcher Fellowship from May 1<sup>st</sup>, 2018, to March 31<sup>st</sup>, 2023. He is currently working as the co-director of the Cyber Civilization Research Center, a KGRI research project, and is promoting initiatives involving the entire university.

\*Prof. Farber (Distinguished Professor, Keio University) has provided significant contributions to the advancement of science by laying the groundwork in the fields of electronics, programming languages,

and distributed computing through his more than 50 years of research activities. As a result of these brilliant achievements recognized and admired by many scientists in the field of information, computing and communication, he received the prestigious title of Fellow of the American Association for the Advancement of Science (World's largest academic organization, AAAS). (Investiture ceremony on February 16<sup>th</sup>, 2019)

<https://www.kgri.keio.ac.jp/en/news-event/050785.html>

• Achievements (Extract) :

English)

<http://www.kgri.keio.ac.jp/en/research-synergies/talk-4-1.html>

<http://www.kgri.keio.ac.jp/en/research-synergies/talk-4-2.html>

<http://www.kgri.keio.ac.jp/en/research-synergies/talk-4-3.html>

<http://www.kgri.keio.ac.jp/en/research-synergies/talk-4-4.html>

Japanese)

<http://www.kgri.keio.ac.jp/research-synergies/talk-4-1.html>

<http://www.kgri.keio.ac.jp/research-synergies/talk-4-2.html>

<http://www.kgri.keio.ac.jp/research-synergies/talk-4-3.html>

<http://www.kgri.keio.ac.jp/research-synergies/talk-4-4.html>

### Implementation of archived lecture series

【～Fiscal Year2023】

• Overview: In order to enhance the international research capabilities and presence of Keio University, KGRI invites world-renowned researchers in cutting-edge fields to give lectures, and subsequently release videos of their lectures on its website. Thus, these lectures are not limited to the time they are given, but widely disseminated both domestically and internationally via the Internet.

**KGRI Lecture Series:** Lectures by cross-appointed researchers from top world-class universities and research institutions

**KGRI Great Thinker Series:** Lectures by researchers with outstanding international achievements invited from abroad

**KGRI Virtual Seminar Series:** Online lectures held in Japan and overseas

### **Achievements : KGRI Lecture Series**

English) <http://www.kgri.keio.ac.jp/en/lecture-series/index.html>

Japanese) <http://www.kgri.keio.ac.jp/lecture-series/index.html>

#### ① KGRI Lecture Series: Seminar on ALS

Date and time: Tuesday, May 30, 2023. 15:00-17:30 Venue: Center for Integrated Medical

Research Building 1st Floor Lounge, Shinanomachi Campus

Title and lecturer:

- 1) "Mechanism of therapeutic action of ropinirole in spinal motor neurons derived from ALS patients"

Satoru Morimoto, MD, Ph.D.

Project Assistant Professor, Department of Physiology, Keio University School of Medicine

- 2) "FMRP axonal retrograde transport is critical for its clearance and regulation of translational activity"

Marco Terenzio, Ph.D. Associate Professor, Okinawa Institute of Science and Technology Graduate University

- 3) "Designer DNA drug therapy for neurodegenerative disease"

Don W. Cleveland, Ph.D.

Professor and Chair, Department of Cellular and Molecular Medicine,  
University of California at San Diego (CA, USA)

②

"Intellectual Property Law Seminar Series: Patent Systems and Patent Offices - Tasks and Incentives"

Date and time: Thursday, December 12, 2023. 18:15-20:00

Venue: East Research Building 6<sup>th</sup> Floor G-Lab, Mita Campus

Lecturer: Prof. Dr. jur. Christoph Ann, LL. M (TUM School of Management, Chair for Intellectual Property, Distinguished Guest Professor, Keio University [Global])

### **Achievements : KGRI Great Thinker Series**

English) <http://www.kgri.keio.ac.jp/en/great-thinker-series/index.html>

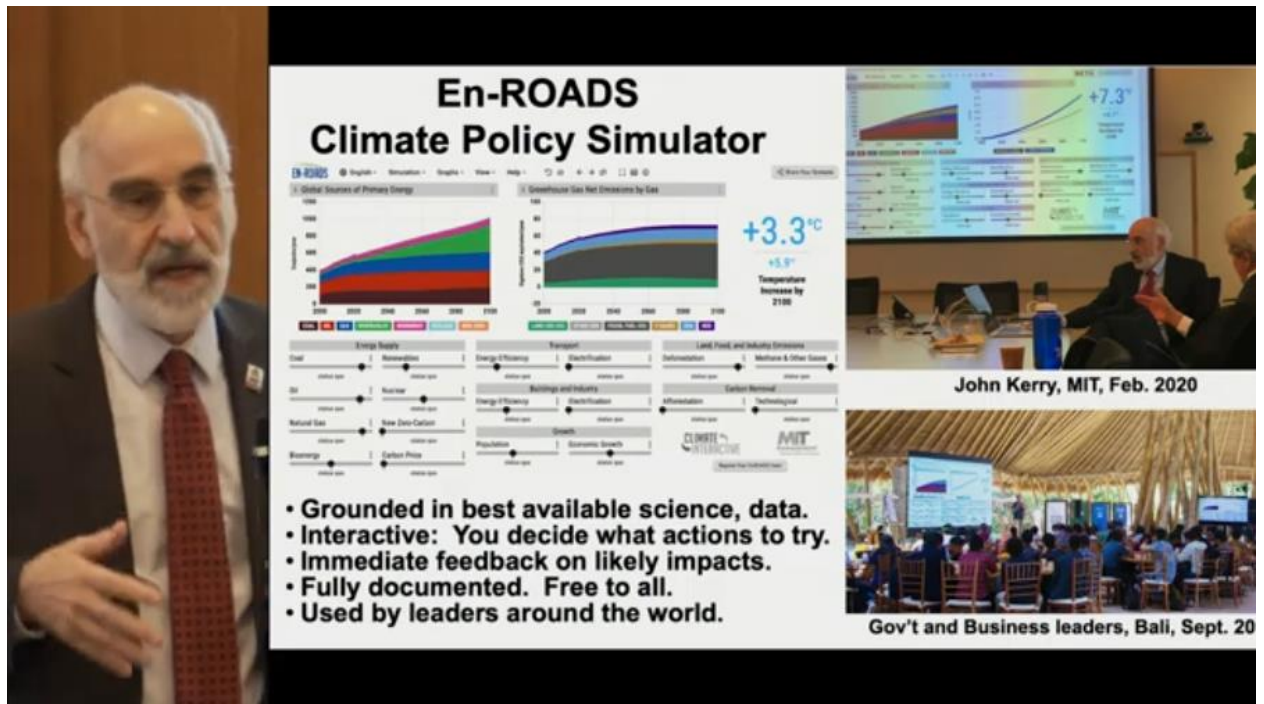
Japanese) <http://www.kgri.keio.ac.jp/great-thinker-series/index.html>

"The En-ROADS Climate Workshop "

Speaker : John D. Sterman (Director of the MIT System Dynamics Group and the Sustainability Initiative at MIT Sloan School of Management, Cambridge, MA, USA)

Date and time: Tuesday, January 23, 2024. 14:00-16:00

Venue: East Research Building 8<sup>th</sup> Floor Hall, Mita Campus



(Prof. Sterman, Director of the MIT System Dynamics Group and the MIT Sloan Sustainability Initiative )

#### Achievements : KGRI Virtual Seminar Series (On-demand)

English) <https://www.kgri.keio.ac.jp/en/virtual-seminar-series/index.html>

Japanese) <https://www.kgri.keio.ac.jp/virtual-seminar-series/index.html>

#### ① Data and Security as the U.S. and China Face Off

Date and time: Wednesday, May 10, 2023. 18:30-19:30 Online

Moderator: Peter Landers (Tokyo Bureau Chief, The Wall Street Journal)

Panelists: Karen Makishima (Member of the Japanese House of Representatives),

Josh Chin (Deputy Bureau Chief, China, The Wall Street Journal),

Jiro Kokuryo (Professor, Faculty of Policy Management)



(Online seminar jointly held by the Wall Street Journal and KGRI)

## Building a track record as an outstanding international research university

### Overview :

Aiming to become a world-class research university: Keio University will strategically promote international and interdisciplinary research to enhance its citation and reputation with the aim of becoming an internationally outstanding research university. From FY2023, as a new mission of KGRI, a "Research Showcase" has been launched to grasp and disseminate the "research content and appealing point" of all researchers at Keio University. Specifically, "Hidden Jewels" were nominated by the deans of undergraduate faculties and chairs of the graduate schools to be the core researchers who promote cross-disciplinary and international research, and their research was introduced to Keio University and the world through video clips as follows. The Hidden Jewels project, which introduces their research in a video both inside and outside Keio University, was implemented as follows.

### **Achievements : Hidden Jewels Session**

**【Fiscal Year 2023】**

1<sup>st</sup> Edition)

Date and time: Tuesday, February 6, 2024. 16:00-18:00

Venue: East Annex 9<sup>th</sup> Floor Conference room, Mita Campus

Research Presentation: What is the point in studying mice brains to know about human brains?

“Bi-directional Translational Research on Brains”

Prof. Kenji Tanaka (Division of Brain Sciences, Institute for Advanced Medical Research, School of Medicine)

Salon Talk and Q&A:

Prof. Kenji Tanaka (Division of Brain Sciences, Institute for Advanced Medical Research, School of Medicine)

Prof. Tatsuhiko Yamamoto (KGRI Research Promotion Lead, Graduate School of Law, KGRI Deputy Director)

Prof. Junichi Ushiba (KGRI Research Promotion Lead, Department of Biosciences and Informatics, Faculty of Science and Technology)

Prof. Takeharu Okubo (KGRI Research Promotion Lead, Department of Political Science, Faculty of Law)



(Salon talk with Prof. Kenji Tanaka of the School of Medicine and 3 KGRI Research Promotion Leads)

2<sup>nd</sup> Edition)

Date and time: Wednesday, February 21, 2024. 10:00-12:00

Venue: East Annex 9<sup>th</sup> Floor Conference room, Mita Campus

Research Presentation: "Why is the Palestinian-Israeli Conflict Not Ending?: Deciphering the Background to the Prolonged Conflict in the Middle East."

Prof. Aiko Nishikida (Department of Political Science, Faculty of Law)

Salon Talk and Q&A:

Prof. Aiko Nishikida (Department of Political Science, Faculty of Law)

Prof. Tatsuhiko Yamamoto (KGRI Research Promotion Lead, Graduate School of Law, KGRI Deputy Director)

Prof. Takeharu Okubo (KGRI Research Promotion Lead, Department of Political Science, Faculty of Law)

Research Presentation: "Is Economics Useful in the Policy Field? State of the Use of Economic Analysis in Competition Policy"

Prof. Kensuke Kubo (Associate Professor, Faculty of Business and Commerce)

Salon Talk and Q&A:

Prof. Kensuke Kubo (Associate Professor, Faculty of Business and Commerce)

Prof. Tatsuhiko Yamamoto (KGRI Research Promotion Lead, Graduate School of Law,  
KGRI Deputy Director)

Prof. Takeharu Okubo (KGRI Research Promotion Lead, Department of Political  
Science, Faculty of Law)



(Salon talk with Prof. Aiko Nishikida of the Faculty of Law and 2 KGRI Research Promotion Leads)

#### 【Fiscal Year 2024】

From FY2023, as a new mission of KGRI, a "Research Showcase" has been launched to grasp and disseminate the "research content and appealing point" of all researchers at Keio University. Specifically, "Hidden Jewels" were nominated by the deans of undergraduate faculties and chairs of the graduate schools to be the core researchers who promote cross-disciplinary and international research, and their research was introduced to Keio University and the world through video clips as follows. The Hidden Jewels project, which introduces their research in a video both inside and outside Keio University, was implemented as follows. In March, we held "Toward Social Implementation of Academic Research," which was positioned as the FY2024 Hidden Jewels summary session, and invited speakers from outside Keio University to discuss the necessity of "humanities" research and what the Research Showcase should aim for.

1<sup>st</sup> Edition )

|               |                                                                          |
|---------------|--------------------------------------------------------------------------|
| Date and time | Wednesday, May 1, 2024. 18:00-20:30                                      |
| Venue         | Faculty Club, North Building 1 <sup>st</sup> Floor, Mita Campus          |
| Research      | ①Societal Challenges of the Future With the Viewpoint of Science Fiction |

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Presentation<br>(20 min.<br>each)                 | Hiroataka Osawa (Associate Professor, Department of Industrial and Systems Engineering, Faculty of Science and Technology)                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                   | ②New Forms of Science and Technology Through Interdisciplinary Collaboration and Integration<br>Koji Ioku, (Professor, Faculty of Economics)                                                                                                                                                                                                                                                                                                                                                                                                    |
| Interdisciplinary Salon Talk<br>(30 min.<br>each) | After each presentation, a salon talk was held between the presenter and the following KGRI Research Promotions Leads<br><ul style="list-style-type: none"> <li>• Prof. Tatsuhiko Yamamoto (KGRI Research Promotion Lead, Graduate School of Law, KGRI Deputy Director)</li> <li>• Prof. Junichi Ushiba (KGRI Research Promotion Lead, Department of Biosciences and Informatics, Faculty of Science and Technology)</li> <li>• Prof. Takeharu Okubo (KGRI Research Promotion Lead, Department of Political Science, Faculty of Law)</li> </ul> |
| Video Link<br>(Japanese only)                     | <a href="https://www.kgri.keio.ac.jp/research-showcase/index.html#hidden-jewels">https://www.kgri.keio.ac.jp/research-showcase/index.html#hidden-jewels</a>                                                                                                                                                                                                                                                                                                                                                                                     |

2<sup>nd</sup> Edition)

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|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date and time                                     | Wednesday, June 5, 2024. 18:10-20:30                                                                                                                                                                                                                                               |
| Venue                                             | Faculty Club, North Building 1 <sup>st</sup> Floor, Mita Campus                                                                                                                                                                                                                    |
| Research Presentation<br>(20 min.<br>each)        | ①The Medical Anthropology of Depression<br>Junko Kitanaka (Professor, Faculty of Letters)                                                                                                                                                                                          |
|                                                   | ②What Is “To Live?”<br>A New Perspective on Studying Human Beings<br>Masahiro Niitsuma, (Associate Professor, Graduate School of System Design and Management)                                                                                                                     |
| Interdisciplinary Salon Talk<br>(30 min.<br>each) | After each presentation, a salon talk was held between the presenter and the following KGRI Research Promotions Leads<br><ul style="list-style-type: none"> <li>• Prof. Tatsuhiko Yamamoto (KGRI Research Promotion Lead, Graduate School of Law, KGRI Deputy Director)</li> </ul> |

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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | <ul style="list-style-type: none"> <li>• Prof. Junichi Ushiba (KGRI Research Promotion Lead, Department of Biosciences and Informatics, Faculty of Science and Technology)</li> <li>• Prof. Takeharu Okubo (KGRI Research Promotion Lead, Department of Political Science, Faculty of Law)</li> </ul> |
| Video Link<br>(Japanese only) | <a href="https://www.kgri.keio.ac.jp/research-showcase/index.html#hidden-jewels">https://www.kgri.keio.ac.jp/research-showcase/index.html#hidden-jewels</a>                                                                                                                                           |

### 3<sup>rd</sup> Edition)

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|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date and time                                  | Friday, June 21, 2024. 18:10-20:30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Venue                                          | Banraisha Bar and Lounge, Faculty Club, South School Building 3 <sup>rd</sup> Floor, Mita Campus                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Research Presentation<br>(各 20 分 20 min. each) | <p>①The Potential of Business Administration—The Business Administration of Potential<br/>Shunpei Iwao (Associate Professor, Faculty of Business and Commerce)</p> <p>②Bridging the Gap Between Materials Science and AI<br/>Miho Hatanaka (Associate Professor, Faculty of Science and Technology)</p>                                                                                                                                                                                                                                             |
| Interdisciplinary Salon Talk<br>(30 min. each) | <p>After each presentation, a salon talk was held between the presenter and the following KGRI Research Promotions Leads</p> <ul style="list-style-type: none"> <li>• Prof. Tatsuhiko Yamamoto (KGRI Research Promotion Lead, Graduate School of Law, KGRI Deputy Director)</li> <li>• Prof. Junichi Ushiba (KGRI Research Promotion Lead, Department of Biosciences and Informatics, Faculty of Science and Technology)</li> <li>• Prof. Takeharu Okubo (KGRI Research Promotion Lead, Department of Political Science, Faculty of Law)</li> </ul> |
| Video Link<br>(Japanese only)                  | <a href="https://www.kgri.keio.ac.jp/research-showcase/index.html#hidden-jewels">https://www.kgri.keio.ac.jp/research-showcase/index.html#hidden-jewels</a>                                                                                                                                                                                                                                                                                                                                                                                         |

### 4<sup>th</sup> Edition)

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|---------------|-----------------------------------------------------------------|
| Date and time | Thursday, July 25, 2024. 18:10-20:30                            |
| Venue         | Faculty Club, North Building 1 <sup>st</sup> Floor, Mita Campus |

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|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Research Presentation<br>(20 min. each)        | ①「運動制御の心理学」 (Japanese Only)<br>Yoshihiro Itaguchi, Associate Professor, Faculty of Letters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                | ②「ヒトとロボットとをつなぐ技術」 (Japanese Only)<br>Takahiro Nozaki, Associate Professor, Department of System Design Engineering, Faculty of Science and Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Interdisciplinary Salon Talk<br>(30 min. each) | After each presentation, a salon talk was held between the presenter and the following KGRI Research Promotions Leads<br><ul style="list-style-type: none"> <li>・ Prof. Tatsuhiko Yamamoto (KGRI Research Promotion Lead, Graduate School of Law, KGRI Deputy Director)</li> <li>・ Prof. Junichi Ushiba (KGRI Research Promotion Lead, Department of Biosciences and Informatics, Faculty of Science and Technology)</li> <li>・ Prof. Takeharu Okubo (KGRI Research Promotion Lead, Department of Political Science, Faculty of Law)</li> <li>・ Prof. Junko Kitanaka (Salon Talk Host, Faculty of Letters)</li> <li>・ Prof. Satoko Tokunaga (Salon Talk Host, Faculty of Letters)</li> </ul> |
| Video Link<br>(Japanese only)                  | <a href="https://www.kgri.keio.ac.jp/research-showcase/index.html#hidden-jewels">https://www.kgri.keio.ac.jp/research-showcase/index.html#hidden-jewels</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

5<sup>th</sup> Edition)

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|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date and time                           | Thursday, October 10, 2024. 18:10-20:30                                                                                                                        |
| Venue                                   | Banraisha Bar and Lounge, Faculty Club, South School Building 3 <sup>rd</sup> Floor, Mita Campus                                                               |
| Research Presentation<br>(20 min. each) | ①「オルタナティブデータから探る健康リスク」 (Japanese only)<br>Yoko Ibuka, Professor, Faculty of Economics                                                                          |
|                                         | ②「自然なお産しか取り扱わない助産師が、なぜ助産学に工学的視点を取り入れるのか？～周産期医療分野における現状と課題～」 (Japanese only)<br>Yuki Kanazawa (Senior Assistant Professor, Faculty of Nursing and Medical Care) |
| Interdisciplinary Salon Talk            | After each presentation, a salon talk was held between the presenter and the following KGRI Research Promotions Leads                                          |

|                              |                                                                                                                                                                                                                             |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (30 min. each)               | <ul style="list-style-type: none"> <li>• Prof. Tatsuhiko Yamamoto (KGRI Research Promotion Lead, Graduate School of Law, KGRI Deputy Director)</li> <li>• Prof. Keigo Komamura (Faculty of Law, Salon Talk Host)</li> </ul> |
| Event Report (Japanese only) | <a href="#">【開催報告】2024 年度 第 5 回 Research Showcase - Hidden Jewels Session Vol. 12 &amp; 13 (2024.10.10 開催)   慶應義塾大学 グローバルリサーチインスティテュート</a>                                                                                  |

6<sup>th</sup> Edition)

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date and time                               | Thursday, November 14, 2024. 18:10-20:30                                                                                                                                                                                                                                                                                                                                                                                            |
| Venue                                       | Forum, 14th Building (Sosokan) 7 <sup>th</sup> Floor, Yagami Campus                                                                                                                                                                                                                                                                                                                                                                 |
| Research Presentation (20 min. each)        | <p>① 「世界はどこにあるのか？」 (Japanese only)<br/>Yasuhiro Arahata (Professor, Faculty of Letters)</p> <p>② 「デジタルデータで挑む活版印刷術黎明期の活字研究」 (Japanese only)<br/>Mari Agata (Professor, Faculty of Letters)</p>                                                                                                                                                                                                                                       |
| Interdisciplinary Salon Talk (30 min. each) | <p>After each presentation, a salon talk was held between the presenter and the following KGRI Research Promotions Leads</p> <ul style="list-style-type: none"> <li>• Prof. Tatsuhiko Yamamoto (KGRI Research Promotion Lead, Graduate School of Law, KGRI Deputy Director)</li> <li>• Prof. Junichi Ushiba (KGRI Research Promotion Lead, Department of Biosciences and Informatics, Faculty of Science and Technology)</li> </ul> |
| Event Report (Japanese only)                | <a href="#">【開催報告】2024 年度 第 6 回 Research Showcase - Hidden Jewels Session Vol. 14 &amp; 15 (2024.11.14 開催)   慶應義塾大学 グローバルリサーチインスティテュート</a>                                                                                                                                                                                                                                                                                          |

7<sup>th</sup> Edition)

|                                      |                                                                                                                                                                                               |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date and time                        | Wednesday, December 18, 2024. 18:10-20:30                                                                                                                                                     |
| Venue                                | Banraisha Bar and Lounge, Faculty Club, South School Building 3 <sup>rd</sup> Floor, Mita Campus                                                                                              |
| Research Presentation (20 min. each) | <p>① 「消費者の商品選択プロセスの研究～文理融合の成果より～」 (Japanese only)<br/>清水 聡 (商学部 教授) Akira Shimizu (Professor, Faculty of Business and Commerce)</p> <p>② 「コンピューティングとパーソナライゼーションは何処へ行くのか？」 (Japanese only)</p> |

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                | Tadashi Okoshi (Associate Professor, Faculty of Environment and Information Studies)                                                                                                                                                                                                                                                                                                                                                                                                 |
| Interdisciplinary Salon Talk<br>(30 min. each) | <p>After each presentation, a salon talk was held between the presenter and the following KGRI Research Promotions Leads</p> <ul style="list-style-type: none"> <li>• Prof. Tatsuhiko Yamamoto (KGRI Research Promotion Lead, Graduate School of Law, KGRI Deputy Director)</li> <li>• Prof. Junichi Ushiba (KGRI Research Promotion Lead, Department of Biosciences and Informatics, Faculty of Science and Technology)</li> <li>• Mr. Taro Magome (Dentsu Digital Inc.)</li> </ul> |
| Video Link<br>(Japanese only)                  | <a href="https://www.kgri.keio.ac.jp/research-showcase/index.html#hidden-jewels">https://www.kgri.keio.ac.jp/research-showcase/index.html#hidden-jewels</a>                                                                                                                                                                                                                                                                                                                          |

“Toward Social Implementation of Academia” Hidden Jewels Session -Special Edition Vol.1-

This event was held jointly with the Hidden Jewels Session - Special Edition Vol. 1 and the Research Presentations of PRESTO and FOREST programs researchers and networking event.

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date and time | Monday, March 3, 2025. 15:00-18:30                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Venue         | Faculty Club, North Building 1 <sup>st</sup> Floor, Mita Campus                                                                                                                                                                                                                                                                                                                                                                                                      |
| Salon Talk 1  | <p>Is “humanities” research necessary for society?</p> <p>Moderator: Prof. Tatsuhiko Yamamoto (Graduate School of Law, KGRI Deputy Director)</p> <p>Panelists</p> <ul style="list-style-type: none"> <li>• Mr. Yukio Yoshimura [Director of Operations, Radio and Television Business Production Bureau, Dentsu Inc.]</li> <li>• Mr. Daisuke Tokushima [Director, Digital Trust Promotion Division, NEC Corporation]</li> <li>• Mr. Jun Hori [Journalist]</li> </ul> |
| Salon Talk 2  | <p>What Research Showcase aims to achieve</p> <p>Moderator: Ayumi Higuchi [KGRI Project Associate Professor (URA)]</p> <p>Panelists</p> <ul style="list-style-type: none"> <li>• Tatsuhiko Yamamoto [Prof. Tatsuhiko Yamamoto (Graduate School of Law, KGRI Deputy Director)]</li> <li>• Prof. Junichi Ushiba (Department of Biosciences and Informatics, Faculty of</li> </ul>                                                                                      |

|                               |                                                                                                                                                                                                                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | Science and Technology)<br>• Prof. Toru Yamaguchi [Faculty of Letters, Deputy General Manager, Research Collaboration Promotion Division]<br>Commentators<br>• Prof. Teruo Nakatsuma [Faculty of Economics, Director of KGRI]<br>• Prof. Akira Shimizu [Faculty of Business and Commerce] |
| Video Link<br>(Japanese only) | <a href="https://www.kgri.keio.ac.jp/research-showcase/special-contents/04.html">https://www.kgri.keio.ac.jp/research-showcase/special-contents/04.html</a>                                                                                                                               |

### Various research presentations, information dissemination, and exchanges

#### Overview :

KGRI organizes events to disseminate the research findings of Keio University researchers and to promote exchange and create cross-disciplinary research among researchers within Keio University.

#### 1) Working Paper

The purpose of this website is to provide the results of research conducted by KGRI staff and KGRI research project members before and after their formal publication in academic papers, books, etc., for use and discussion by researchers inside and outside the institute. Therefore, there are various types of publications, including those before and under peer review, and KGRI seeks to contribute to free academic discussion in a way that only a university-affiliated research institute can provide.

English) <https://www.kgri.keio.ac.jp/en/working-paper/index.html>

Japanese) <https://www.kgri.keio.ac.jp/working-paper/index.html>

#### Achievements :

##### 【Fiscal Year 2023】

①Title: Joint Statement: “Toward a Wholesome Platform for Speech ver. 2.0 - Implementing Informational Health”

Authors: Fujio Toriumi (Professor, The Graduate School of Engineering, The University of Tokyo)

Tatsuhiko Yamamoto (Professor, Graduate School of Law /KGRI Deputy Director)

②Title: “Proposal of a Behavior Changing Digital Platform to Extend Healthy Life Expectancy toward

2040”

Author: Research Project Keio 2040, Healthy Life Expectancy Extension Team

(A digest version and a full-text version are currently available in Japanese. English versions will subsequently be released.)

③Title: “Comparative Law Research on the Personal Data Protection Law in Various Countries”

Authors: Editor's Representative Tatsuhiko Yamamoto (Professor, Graduate School of Law /KGRI Deputy Director)

Editor Kyoichi Iida (Researcher, Graduate School of Law, Attorney-at-Law)

Editor Taiki Sato (L.L.D. Candidate, Graduate School of Law)

④Title: “Digital Transformation (DX) of Medicine and Health”

Co-Editors: Jun Murai (Professor, Keio University, Cyber Civilization Research Center Co-Director)

Masahito Kawamori (Project Professor, Graduate School of Media and Governance)

Ryutaro Yamamoto (Senior Researcher, SFC Research Institute)

Hitomi Sano (Researcher, Graduate School of Media and Governance, Member of the Cyber Civilization Research Center)



⑤Title: “Comparative Law Research on the Personal Data Protection Law in Various Countries

(Version 2.0)” \* Provisional translation (full version will subsequently be released)

Authors: Editor's Representative Tatsuhiko Yamamoto (Professor, Graduate School of Law /KGRI Deputy Director)

Editor Kyoichi Iida (Researcher, Graduate School of Law, Attorney-at-Law)

Editor Taiki Sato (L.L.D. Candidate, Graduate School of Law)

#### 【Fiscal Year 2024】

①Title : Japan Beyond Asia: How the Middle East could be integrated into the Indo-Pacific Geostrategy

Author : Amane Kobayashi

②Title : Conditions for Peace: Conflict Resolution by Diplomacy and Coercive Measures

Author : Yoshiyuki Sagara

③Title : Calibrating Social Theories of Digital Technology based on Japan's COVID-19 Response: Surveillance Capitalism and Cyber Civilization

Author : Harald Kümmerle

④Title : Joint Statement:"Toward a Wholesome Platform for Speech: Implementing Information Health" (ver 2.1)

Authors : Fujio Toriumi and Tatsuhiko Yamamoto

⑤Title : Proposal for a Behavioral Transformative Digital Platform for Extending Healthy Life Expectancy Aimed at 2040(English Version)

Author : The Extending Healthy Life Expectancy Project Team, 2040 Aging Society Innovation Center

## 2) Research Results Presentations and Researchers Networking Events

KGRI's mission is to support the fusion of fusing humanities and sciences, interdisciplinary, and cross-disciplinary research on a cross-departmental basis. To this end, KGRI holds research results presentations and researchers networking events.

Achievements :

#### 【Fiscal Year 2023】

1<sup>st</sup> Edition)

Focusing on the activities of the newly established projects in FY2022, six project representatives presented the results and took part in a Q&A session.

|                                             |                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date and time                               | Friday, July 28, 2023. 17:00-20:00                                                                                                                                                                                                                                                                                                                                                          |
| Venue                                       | Faculty Club, North Building 1st Floor, Mita Campus                                                                                                                                                                                                                                                                                                                                         |
| < Part 1 - Research Results Presentations > | 6 Research Results Presentations:<br>Yuichi Hosoya (Professor, Faculty of Law),<br>Keigo Komamura (Professor, Faculty of Law),<br>Yuko Oguma (Professor, Sports Medicine Research Center),<br>Rodney Van Meter (Professor, Faculty of Environment and Information Studies),<br>Yasue Mitsukura (Professor, Faculty of Science and Technology),<br>Yuko Kimijima (Professor, Faculty of Law) |
| < Part 2 - Researchers Networking Events >  | Introduction of recipients of KGRI's original research grants (*), Start-up Research Grants and Pre-Start-up Research Grants, and discussion                                                                                                                                                                                                                                                |
| Event Report                                | Japanese) <a href="https://www.kgri.keio.ac.jp/news-event/151510.html">https://www.kgri.keio.ac.jp/news-event/151510.html</a>                                                                                                                                                                                                                                                               |

\* About KGRI's original research grants : <https://www.kgri.keio.ac.jp/project-assistant-professor/kgri-index.html> (Japanese only)



2<sup>nd</sup> Edition)

The results of the Research Project Keio 2040, now in its final year, were presented followed by a Q&A session.

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date and time                                           | Friday, November 10, 2023. 18:30-21:10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Venue                                                   | Hall and Conference Room 2, North Building 1st Floor, Mita                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| < Part 1 -<br>Research<br>Results<br>Presentations<br>> | <p><b>【Research Project Keio 2040】</b></p> <p>Masato Yasui Research Project Keio 2040 General Manager (Professor, School of Medicine)</p> <p>&lt;Longevity&gt; Extending Healthy Life Expectancy Project: Establishment of the "KGRI role model for a healthy society with longevity"</p> <p>Masato Yasui Professor, School of Medicine / Project Leader, Yasuhiro Kato KGRI Project Lecturer, Masako Toriya KGRI Project Professor</p> <p>&lt;Security&gt; Platforms and the "2040 Problem": Formation of a new Network space order</p> <p>Tatsuhiko Yamamoto Professor, Graduate School of Law / KGRI Deputy Director / Project Leader</p> <p>Haluna Kawashima Associate Professor, Tohoku Fukushi University (Former KGRI Project Associate Professor)</p> <p>&lt;Creativity&gt; Revolutionary &amp; Interdisciplinary Soft Matter Integration Project</p> <p>Kenji Yasuoka Faculty of Science and Technology Professor/ Project Leader, Makoto Asai KGRI Project Professor, Brian Sumali KGRI Project Lecturer</p> |
| < Part 2> -<br>Researchers<br>Networking<br>Event       | Discussion between Research Project Keio 2040 results presenters and KGRI members on the present and future of KGRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Event Report                                            | Japanese) <a href="https://www.kgri.keio.ac.jp/news-event/160498.html">https://www.kgri.keio.ac.jp/news-event/160498.html</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



(Research presentation by Research Project Keio 2040 team )

3<sup>rd</sup> Edition)

Research presentations were given by recipients of KGRI's original research grants, start-up research grants, and pre-start-up research grants. Each presentation was video-taped and made available on the KGRI website.

|                                                     |                                                                                                                                              |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Date and time                                       | Friday, March 29, 2024. 16:30-19:30                                                                                                          |
| Venue                                               | Hall and Faculty Club, North Building 1st Floor, Mita                                                                                        |
| < Part 1 >-<br>Research<br>Results<br>Presentations | Presentation of research results by start-up research grant recipients                                                                       |
| < Part 2 >-<br>Researchers<br>Networking<br>Event   | Poster session by pre-startup grant recipients (flash talk introducing their research for about 2 minutes per person) and networking session |
| Presentation<br>Video<br>(Japanese only)            | <a href="https://www.kgri.keio.ac.jp/research-showcase/index.html#kgri">https://www.kgri.keio.ac.jp/research-showcase/index.html#kgri</a>    |

\* Details of recipients and presentation videos

| No. | Research and Video Themes                                                                                                                                 | Presenters                                                                                                 |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 1   | Digest of Cross-disciplinary Research Exchange Meeting                                                                                                    | Digest of all presentations                                                                                |
| 2   | “Embodied and Social-emotional Learning in Early Education and Development: If culture is all around us, what is our approach?” (Presentation in English) | Akiko Hayashi (Associate Professor, Faculty of Business and Commerce)                                      |
| 3   | “Interdisciplinary Approach to Understand the Actual Situation of Long COVID and Create Treatment Strategies” (Presentation in English)                   | Ho Namkoong (Senior Assistant Professor, Department of Infectious Diseases, School of Medicine)            |
| 4   | “Elucidation and Representation of Various Grid Illusions by Psychological and Mathematical Approaches” (Presentation in English)                         | Masaki Mori (Senior Assistant Professor, Faculty of Environment and Information Studies)                   |
| 5   | “Pre-Investigation for Femtech Development: Assessing the Current State of the Industry and Identifying Gaps to Uncover Undiscovered Areas”               | Ai Hasegawa (Associate Professor, Department of Mechanical Engineering, Faculty of Science and Technology) |
| 6   | “Significance of IGRA test for diagnosis and treatment of latent tuberculosis in dialysis patients based on the prevalence of tuberculosis”               | Ayumi Yoshifuji (Senior Assistant Professor, Department of Infectious Diseases, School of Medicine)        |
| 7   | ～Cultural Social Welfare Service Design for the Aging Society～<br>“Cultural Social Welfare Service Design for the Aging Society”                          | Chihiro Sato (Senior Assistant Professor, Graduate School of Media Design)                                 |
| 8   | “Investigation of psychological processes in problem solving situations through interaction with AI”                                                      | Sayaka Suga (Associate Professor, Department of Human Sciences,                                            |

|    |                                                                                                                                            |                                                                                                                |
|----|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
|    |                                                                                                                                            | Faculty of Letters)                                                                                            |
| 9  | "Neural Mechanisms of Drummer's Dystonia"                                                                                                  | Shinya Fujii (Associate Professor, Faculty of Environment and Information Studies)                             |
| 10 | "Connection of cognitive dysfunction and autonomous diffusion of single molecules"                                                         | Sumihiro Maeda (Lecturer, School of Medicine (Non-tenured))                                                    |
| 11 | "Optimization of Shape for Improving the Acoustic Stabilization of Auricular Prosthesis incorporate with Cartilage Conduction Hearing Aid" | Takanori Nishiyama (Senior Assistant Professor, Department of Otorhinolaryngology, School of Medicine)         |
| 12 | "Construction of a POCT-type immuno-prediction system that contributes to optimal self-determination of COVID-19 booster vaccination."     | Yoshifumi Uwamino (Senior Assistant Professor, Department of Clinical Laboratory Medicine, School of Medicine) |
| 13 | "Subtypes of Frailty and Sarcopenia and Their Trajectory Changes in Community-dwelling Older adults in Three Countries"                    | Yusuke Osawa (Associate Professor, Graduate School of Health Management)                                       |

【Fiscal Year 2024】

1<sup>st</sup> Edition)

The main purpose of the meeting was to deepen research collaboration through free exchange of ideas and opinions among researchers. Videos of seminars and salon talks on Hidden Jewels and other topics produced by KGRI were projected at the venue, and participants' comments and opinions were solicited to enhance the publicity of the research.



|                              |                                                                                                                                                                                                                                    |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date and time                | Friday, July 19, 2024. 17:00-19:30                                                                                                                                                                                                 |
| Venue                        | Faculty Club, North Building 1st Floor, Mita                                                                                                                                                                                       |
| Researchers Networking Event | <ul style="list-style-type: none"><li>• Introduction of KGRI and explanation of KGRI Researchers Networking Event</li><li>• Exchange of views and opinions among researchers</li><li>• Projection of KGRI-produced video</li></ul> |

(Opening remarks by Prof. Kimishima, Director of KGRI)

2<sup>nd</sup> Edition)

The KGRI Challenge Grant (which began operation in FY2024 and provides research assistance for up to two years after an interim review), KGRI's own research grant, was awarded to the winners, who presented their research results, underwent an interim review, and held a researchers networking

event.

|                                                                         |                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date and time                                                           | Friday, November 29, 2024. 17:00-19:30                                                                                                                                                                                                                                                                                                  |
| Venue                                                                   | Faculty Club, North Building 1st Floor, Mita                                                                                                                                                                                                                                                                                            |
| <Part 1><br>Research<br>Results<br>Presentations<br>(Interim<br>Review) | 4 recipients of KGRI Challenge Grant in FY2024 :<br>Tomohisa Sujino (Assistant Professor, School of Medicine (Non-tenured), Yuta Sugiura (Associate Professor, Faculty of Science and Technology) , Koji Mineshima (Associate Professor, Faculty of Letters) , Yuki Kagoya (Professor, School of Medicine)<br>※In order of presentation |
| <Part 2><br>Researchers<br>Networking<br>Event                          | Exchange among researchers in Keio University including KGRI Challenge Grant recipients in FY2024                                                                                                                                                                                                                                       |



( Presentation by KGRI Challenge Grant Recipients )

3<sup>rd</sup> Edition)

This event was held jointly with the Hidden Jewels Session - Special Edition Vol. 1 and the Research Presentations of PRESTO and FOREST programs researchers and networking event.

|               |                                              |
|---------------|----------------------------------------------|
| Date and time | Monday, March 3, 2025. 15:00-18:30           |
| Venue         | Faculty Club, North Building 1st Floor, Mita |

|                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>&lt;Part 1&gt;<br/>Hidden Jewels<br/>Session<br/>-Special<br/>Edition Vol.1-</p>                                               | <p>Salon Talk 1: Is “humanities” research necessary for society?<br/>Moderator: Prof. Tatsuhiko Yamamoto (Graduate School of Law, KGRI Deputy Director)<br/>Panelists<br/> <ul style="list-style-type: none"> <li>• Mr. Yukio Yoshimura (Director of Operations, Radio and Television Business Production Bureau, Dentsu Inc.)</li> <li>• Mr. Daisuke Tokushima (Director, Digital Trust Promotion Division, NEC Corporation)</li> <li>• Mr. Jun Hori (Journalist)</li> </ul> Salon Talk 2: What Research Showcase aims to achieve<br/>Moderator: Ayumi Higuchi [KGRI Project Associate Professor (URA)]<br/>Panelists<br/> <ul style="list-style-type: none"> <li>• Tatsuhiko Yamamoto [Prof. Tatsuhiko Yamamoto (Graduate School of Law, KGRI Deputy Director)]</li> <li>• Prof. Junichi Ushiba (Department of Biosciences and Informatics, Faculty of Science and Technology)</li> <li>• Prof. Toru Yamaguchi [Faculty of Letters, Deputy General Manager, Research Collaboration Promotion Division]</li> </ul> Commentators<br/> <ul style="list-style-type: none"> <li>• Prof. Teruo Nakatsuma [Faculty of Economics, Director of KGRI]</li> <li>• Prof. Akira Shimizu [Faculty of Business and Commerce]</li> </ul> </p> |
| <p>&lt;Part 2&gt;<br/>Poster Session<br/>by PRESTO<br/>and FOREST<br/>programs<br/>researchers &amp;<br/>Networking<br/>Event</p> | <p> <ul style="list-style-type: none"> <li>• Poster Session Presenters (in order of presentation)<br/>Kohsuke Ohmatsu (Professor, Department of Chemistry, Faculty of Science and Technology) , Ho Namkoong (Senior Assistant Professor, School of Medicine) , Shuhei Nomura (KGRI Project Professor) , Shinya Fujii (Associate Professor, Faculty of Environment and Information Studies)</li> <li>• Networking Event</li> </ul> </p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>(Japanese<br/>only)</p>                                                                                                        | <p><a href="https://www.kgri.keio.ac.jp/research-showcase/index.html#special-contents">https://www.kgri.keio.ac.jp/research-showcase/index.html#special-contents</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



( Part 1 : Discussion at Salon Talk 2)

- 3) Research Presentations of PRESTO and FOREST programs researchers and networking event  
 KGRI holds research introduction and academic exchange meetings to provide opportunities for exchange and to promote collaboration among researchers at Keio University selected for the JST grant programs "PRESTO" and "FOREST".

Achievements :

【Fiscal Year 2023】

- Research Presentations and Networking Event

Date and time: Monday, March 11, 2024. 18:00-20:00

Venue: Faculty Club, North Building 1st Floor, Mita Campus

- \* Each presentation was video recorded and made available on the KGRI website.

Japanese) <https://www.kgri.keio.ac.jp/research-showcase/emergence.html>

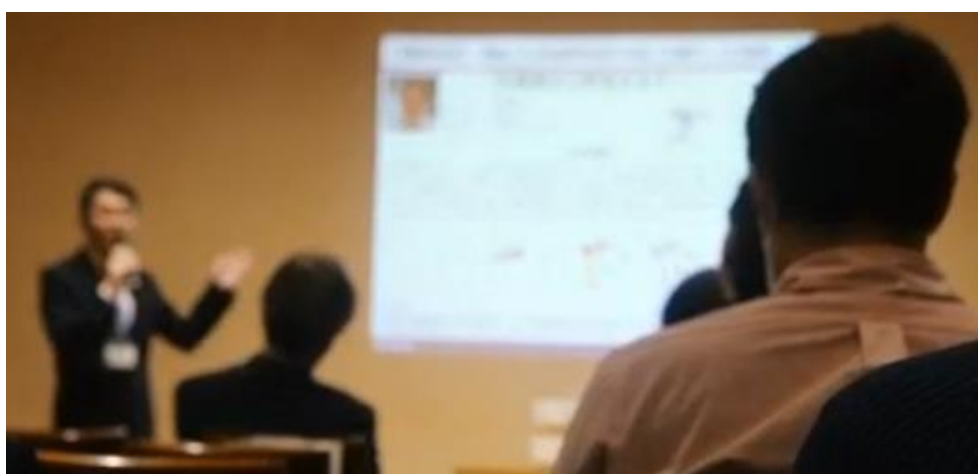
\* After this event KGRI established a community of "PRESTO" and "FOREST" researchers using "Slack".

| No. | Research and Video Themes                                                       | Presenters                                                                                                      |
|-----|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1   | Digest of Research Presentations by PRESTO and FOREST programs researchers      | Digest of all presentations                                                                                     |
| 2   | “Hierarchical elucidation of molecular behavior inside membraneless organelles” | Eiji Yamamoto (Associate Professor, Department of System Design Engineering, Faculty of Science and Technology) |

|    |                                                                                                                                                             |                                                                                                                                       |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>【PRESTO】</b>                                                                                                                                             |                                                                                                                                       |
| 3  | <p>“Clarification of the Carcinogenic Process using Non-Cancerous Lung Organoids and Its Application to Preemptive Medicine”</p> <p><b>【FOREST】</b></p>     | Hiroyuki Yasuda (Associate Professor, Department of Internal Medicine (Pulmonary Medicine), School of Medicine)                       |
| 4  | <p>“Fundamental Research to Build a Research System Resilient to Pandemics” <b>【PRESTO】</b></p>                                                             | Ho Namkoong (Senior Assistant Professor, Department of Infectious Diseases, School of Medicine)                                       |
| 5  | <p>“Developing Novel Kidney Disease Therapeutic Strategies Targeting Blood Cell DNA Methylation Alterations” <b>【FOREST】</b></p>                            | Kaori Hayashi (Professor, Department of Internal Medicine (Nephrology, Endocrinology and Metabolism), School of Medicine)             |
| 6  | <p>“The Design Principle of Life, an approach driven by the Biology of Creation” <b>【FOREST】</b></p>                                                        | Kei Fujiwara (Associate Professor, Biosciences and Informatics, Faculty of Science and Technology)                                    |
| 7  | <p>“Roles of the players of the immune system in brain development and function” <b>【FOREST】</b></p>                                                        | Keiko Morimoto (Assistant Professor, Department of Anatomy, School of Medicine)                                                       |
| 8  | <p>“A New Relationship Between Environmental Exposure and Intestinal Bacteria Based on Chemical Modifications”</p> <p><b>【FOREST】</b></p>                   | Masahiro Akiyama (Project Lecturer, Pharmaceutical Sciences, Faculty of Pharmacy)                                                     |
| 9  | <p>“Establishment of a Platform to Synthesize various analogs of known Antibiotics using Synthetic Biology Techniques” <b>【FOREST】</b></p>                  | Satoshi Yuzawa (Project Lecturer, Graduate School of Media and Governance)                                                            |
| 10 | <p>“An Empirical Study on Disease Burden for Developing a New Health System” <b>【PRESTO】</b></p>                                                            | Shuhei Nomura (Project Associate Professor, Department of Health Policy and Management, School of Medicine)                           |
| 11 | <p>“Multimodal Gas Sensing using Nanodevices” <b>【PRESTO】</b></p>                                                                                           | Takahisa Tanaka (Senior Assistant Professor, Department of Electrical and Information Engineering, Faculty of Science and Technology) |
| 12 | <p>“Exploration of Drug Discovery Seeds Using Single-cell-level Spatiotemporal Analysis of Intractable Diseases of the Small Intestine” <b>【FOREST】</b></p> | Tomohisa Sujino (Senior Assistant Professor, Center for Diagnostic and Therapeutic Endoscopy, School of Medicine)                     |



(Opening Remarks by President Itoh)



(Flash Talk by "PRESTO" and "FOREST" researchers)

#### 【Fiscal Year 2024】

- Research Presentations and Networking Event

Date and time : Monday, March 3, 2025. 15:00-18:30

Venue: Faculty Club, North Building 1st Floor, Mita Campus

\* Hidden Jewels Session - Special Edition Vol1 -Jointly held with the Research Results Presentation and Researchers Networking Event

- Presentation Videos

| No. | Research and Video Themes               | Presenters                                                               |
|-----|-----------------------------------------|--------------------------------------------------------------------------|
| 1   | オルソゴナル結合変換が拓く新しい合成化学<br>(Japanese only) | Kohsuke Ohmatsu<br><br>(Professor, Faculty of Science<br>and Technology) |
| 2   | ネクストパンデミックにレジリエントな研究体                   | Ho Namkoong (Senior<br>Assistant Professor, School of                    |

|                                                                                                                                                                         |                                                |                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------|
|                                                                                                                                                                         | 制構築 (Japanese only)                            | Medicine)                                                                                   |
| 3                                                                                                                                                                       | 新しい保健システム構築のための実証的な疾病<br>負荷研究 (Japanese only)  | Shuhei Nomura (KGRI<br>Project Professor)                                                   |
| 4                                                                                                                                                                       | 多感覚グローブ感創発の機序解明と音楽芸術表<br>現への応用 (Japanese only) | Shinya Fujii (Associate<br>Professor, Faculty of<br>Environment and Information<br>Studies) |
| Video Link : <a href="https://www.kgri.keio.ac.jp/research-showcase/index.html#jst">https://www.kgri.keio.ac.jp/research-showcase/index.html#jst</a> (Japanese<br>only) |                                                |                                                                                             |



( Presentations at the Poster Session)

#### 4) Distribution of article information for top-level researchers to overseas

KGRI distributes information on articles by researchers at Keio University for the purpose of creating international research collaborations.

Achievements :

**【Fiscal Year 2023】**

Using the article distribution service of Clarivate, we distributed by e-mail the most frequently cited articles in the Web of Science database written by researchers affiliated with Keio University, especially those written by 18 researchers selected by KGRI in FY2023, to each of 1,000 prominent overseas researchers in the same research field. The following three criteria were taken into consideration: 1) inclusion of researchers whom Keio wishes to feature (Hidden Jewels nominees, PRESTO/FOREST recipients, startup/pre-startup research grant recipients, and participants in the November 2023 “OIST-KEIO Showcase Talk Series”), 2) inclusion of researchers in the humanities and social sciences and 3) gender balance. By doing so, it is expected that opportunities for international research collaboration will increase.

**【Fiscal Year 2024】**

In place of Clarivate's article distribution service, which had been in place until the previous fiscal year, KGRI distributed news releases of the article by Kazuya Ando, Associate Professor, School of Science and Engineering, as a news release through the services of services EurekaAlert and AlphaGalileo.

5 ) Building Keio Research Showcase

KGRI is building an information dissemination portal utilizing the latest generative AI technology with the aim of improving Keio's citation and reputation, and expanding the strategic public relations infrastructure that contributes to the development of a research network. This will enable us to discover the appeal of the research of all researchers at Keio University and build a foundation for disseminating information to a wide range of stakeholders through a variety of media. In addition, in conjunction with the J-PEAKS project, we are developing a unique information platform that cannot be achieved by the J-PEAKS project alone.

Establishment of Research Showcase website linked to J-PEAKS project

KGRI has begun building the Keio Research Showcase website, which aggregates information on Keio's exceptional research and researchers and disseminates it domestically and internationally. From this website, users can view video content produced by the Hidden Jewels project and others, and search for information on researchers using the AI chatbot "Search it up, Yukichi-kun!", an AI chatbot, to search for researcher information. The website will also include a membership function that will allow members to bookmark their favorite videos and researchers on their My Page. The website is scheduled to be released in May 2025, and after its release, KGRI will continue to add attractive contents and expand information.

### **Generative AI system construction**

KGRI is developing an infrastructure system to centrally manage researcher information and research information, and to summarize and disseminate the attractiveness of researchers' research summaries. In FY2024, the following development work was performed.

- 1) Organize IDs for each researcher necessary for database construction
- 2) Examination of information collection methods and system design
- 3) Creation of research outline using generated AI
- 4) Construction of a retrieval system for research and researcher information using AI

### **Special Contents Video Series Production**

As part of the Research Showcase buildup, KGRI produced a series of Special Contents videos that take an in-depth look at research and researchers.

In July 2024, a talk event titled "Intersection of words, a sequence of learning" was held featuring singer, actress, and poet Ms. Yo Hitoto. The event featured a friendly talk with Junichi Ushiba, Professor at Faculty of Science and Engineering, and Tatsuhiko Yamamoto, Professor at the Law School and Deputy Director of KGRI, who have been close friends of Ms. Hitoto since her university days. A video digest of the event was produced and posted on the KGRI website as Special Contents Series Vol. 1. (<https://www.kgri.keio.ac.jp/news-event/162550.html>) (Japanese only)

For Special Contents Series Vol. 2 and Vol. 3, we commissioned Mr. Jun Hori, a former NHK reporter, to produce human documentary-style videos featuring our humanities and sociology researchers (Prof. Toru Yamaguchi, Faculty of Letters, and Associate Prof. Miho Sasaki, Faculty of Commerce), and completed two of them in March 2025. (<https://www.kgri.keio.ac.jp/research-showcase/index.html#special-contents>) (Japanese only)

### **Promotion of International Research Collaboration**

## 1) OIST-KEIO Showcase Talk Series

### OIST-KEIO Showcase Talk Series

Overview : Cooperation with Okinawa Institute of Science and Technology (OIST) began in 2020 with exchanges with the School of Medicine, and in August 2022, the two institutions signed a Basic Agreement on Scientific and Academic Cooperation for a university-wide collaboration. Currently, in addition to the School of Medicine, we continue to implement organized exchanges for the entire university. In November 2023, Keio University and OIST co-hosted a two-day Showcase Talk at OIST, with a total of 23 faculty members from the University, including the President and Executive Director for Research, participating on site.

OIST is primarily a graduate institute specializing in science and technology, but it aims to expand new areas of collaboration with Keio University, which has a School of Medicine and a School of Humanities and Social Sciences. In addition to collaboration with OIST's world-class cutting-edge research, Keio University hopes to promote research collaboration and the internationalization of its human resources through collaboration with OIST, where English is the complete official language.

### Achievements :

#### 【Fiscal Year 2023】

“Science Meets Society: Exploring the Nexus of Planetary Well-being for a Sustainable Future”

【Organizers】 Keio University and Okinawa Institute of Science and Technology

【Date and time】 Thursday, November 16, 2023 - Friday, November 17, 2023

【Venue】 Okinawa Institute of Science and Technology /Zoom (Hybrid)

English) <https://www.kgri.keio.ac.jp/en/news-event/154770.html>

Japanese) <https://www.kgri.keio.ac.jp/news-event/154770.html>

| Keio-OIST | Research Showcase                                 | Event                                     | Participants |
|-----------|---------------------------------------------------|-------------------------------------------|--------------|
|           | Kohei Ito                                         | President, Keio University                |              |
|           | Masayuki Amagai                                   | Vice-President, Keio University           |              |
|           | Yuko Kimijima                                     | Professor, Faculty of Law / KGRI Director |              |
|           | Takanori Kanai                                    | Dean, School of Medicine                  |              |
|           | Toshiharu Saiki                                   | Dean, Faculty of Science and Technology   |              |
|           | Yoko Hirose                                       | Faculty of Policy Management              |              |
|           | As well as 11 researchers and 3 graduate students |                                           |              |



参加者による集合写真（提供：OIST/[Micheal Cooper] (CC BY 4.0)）

**【Fiscal Year 2024】**

OIST- KEIO Showcase Talk Series 6／YIL Pre-Event Science meets Society : From Symbiotics to Enactive Minds

Date and time : Wednesday, September 25, 2024 (All day)

Form of the event : In-person/ (On-campus only) Zoom

Venue : Yagami Innovation Laboratory (YIL)

Participation Fee : Free

**【Panelists】**

(OIST)

- Tom Froese, Associate Professor, Embodied Cognitive Science Unit (Keio University)
- Toshiharu Saiki, Dean, Graduate School of Science and Technology
- Junichi Ushiba, Professor, Faculty of Science and Technology
- Yuki Imoto, Associate Professor, Faculty of Science and Technology
- Charu Datt, Senior Assistant Professor, Faculty of Science and Technology
- Eiko Matsuda, Senior Assistant Professor, Faculty of Science and Technology

<https://www.keio.ac.jp/en/news/20241010-1/>



OIST-KEIO Showcase Talk Series 7 “Science Meets Society: Frontiers in Interdisciplinary Approaches to Life Sciences” (2025.1.31)

Date and time : Friday, January 31, 2025 (All day)

Form of the event : In person/ (On-campus only) Zoom

Participation Fee : Free

Language : English (No interpretation)

**【Panelists】**

(Keio University)

- Masayuki Amagai, Vice-President for Research／Professor, School of Medicine
- Koji Hase, General Manager, Office for Research Coordination and Administration／Professor, Faculty of Pharmacy
- Teruo Nakatsuma, Director of KGRI／Professor, Faculty of Economics
- Yoshihiro Itaguchi, Associate Professor, Faculty of Letters
- Hiroshi Makino, Professor, School of Medicine
- Kunimichi Suzuki, WPI-Bio2Q Jr. PI
- Mayumi Oda, Project Senior Assistant Professor, School of Medicine
- Michiyuki Kawakami, Associate Professor, School of Medicine

English) <https://www.oist.jp/news-center/news/2025/2/28/oist-and-keio-university-host-showcase-event>

Japanese) <https://www.oist.jp/ja/news-center/news/2025/2/28/oist-and-keio-university-host-showcase-event>



## Young Researchers Fostering Program

### Overview :

KGRI implements support measures that will lead to the creation of interdisciplinary cross-disciplinary research projects, with a focus on young researchers.

### 1) Support for research projects in the humanities, social sciences, and interdisciplinary fields

To strengthen support for projects in the humanities, social sciences, and interdisciplinary fields, which is one of KGRI's challenges, KGRI began to administer the KGRI Humanity and Social Science Grant (KGRI HSS Grant) on a pilot basis in FY2024 to support young researchers in the humanities and social sciences within the university.

### Achievements :

#### 【Fiscal Year 2024】

KGRI Humanities and Social Sciences Research Grant (KGRI HSS Grant) Recipients :

| No. | Subject of Research                                                                                           | Research Promotor                                                 | Subsidy amount  |
|-----|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------|
| 1   | 時空間データに対するベイズ統計学的分析手法の開発と応用 (Japanese Only)                                                                   | Shonosuke Sugasawa<br>(Associate Professor, Faculty of Economics) | 1.5million yen  |
| 2   | Development and validation of the interoception training application to reduce anxiety, depression, and pain. | Yuri Terasawa (Associate Professor, Faculty of Letters)           | 1.5 million yen |
| 3   | 自然言語処理アプローチによるヒト意味構造の階層的ダイナミクスの解明 (Japanese Only)                                                             | Yoshihiro Itaguchi (Associate Professor, Faculty of Letters)      | 1.5 million yen |
| 4   | Embodied and Social-Emotional                                                                                 | Akiko Hayashi (Associate                                          | 1.5 million     |

|   |                                                                                                            |                                                                     |                 |
|---|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------|
|   | Learning in Early Education and Development: the conversation about "culture" and SEL continues to develop | Professor, Faculty of Business and Commerce)                        | yen             |
| 5 | Cultural Local Resources Driven Social Welfare Design for the Aging Society                                | Chihiro Sato (Associate Professor, Graduate School of Media Design) | 1.5 million yen |

## 2) Research Promotion in Humanities and Social Sciences

Achievements :

【Fiscal Year 2024】

With the aim of launching a cross-disciplinary research project to solve social issues centered on researchers in the humanities and social sciences, KGRI commissioned an external academic incubator to conduct researcher research and a social needs survey, and formulated a draft research project plan.

※Affiliations and job titles are current at the time of the lecture or recording.