

Kyoto University On-site Laboratory: Kyoto University Research Center San Diego



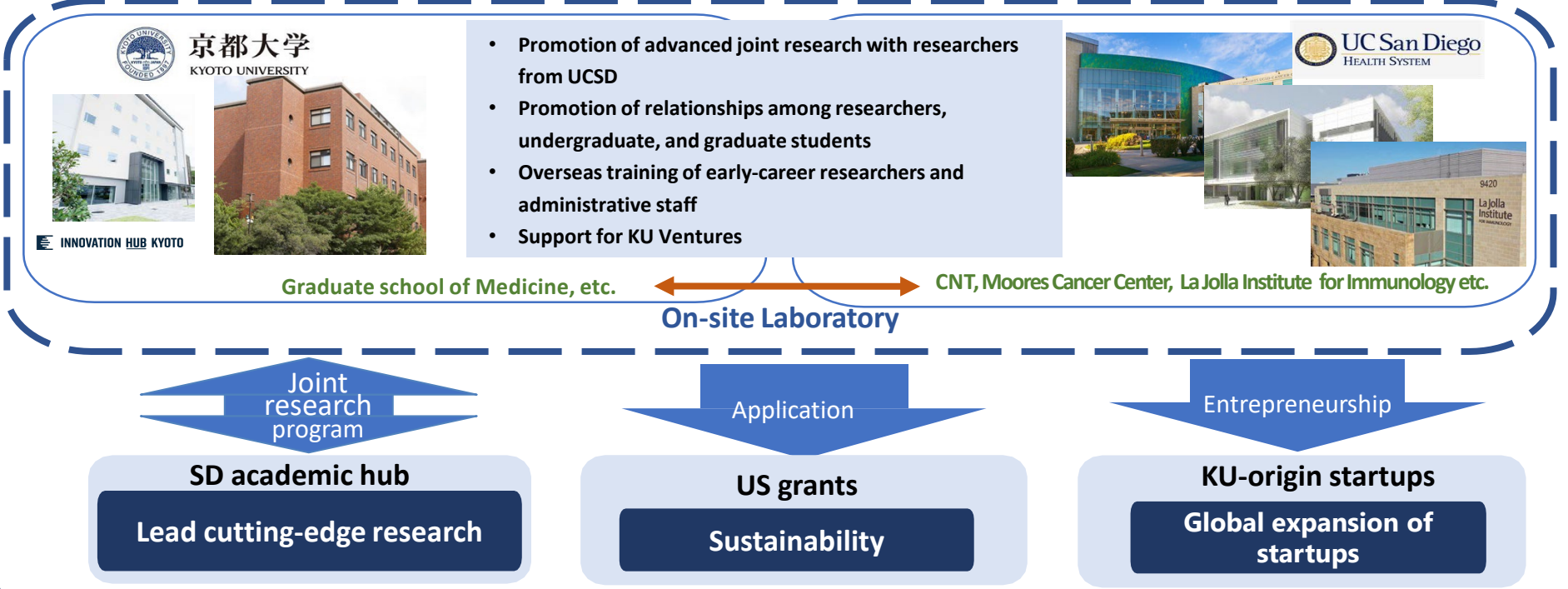
General Information

- ◆ Approved in FY 2018
- ◆ Established in September 2019
- ◆ Established by the Graduate School of Medicine
- ◆ Partner institution: The University of California San Diego (UCSD), USA
- ◆ Location: The University of California San Diego (UCSD), San Diego, USA (outbound)
- ◆ Purposes: Acceleration of research collaboration, industry-academia collaboration, education collaboration, and global human resource development through sharing space in the Center for Novel Therapeutics with UCSD's top researchers
- ◆ Functions: Joint research in the field of medicine and expansion of collaboration with academic institutions and industrial partners in San Diego.

Positive ripple effects on the university's activities

- Promotion of international joint research
 - Recruitment of talented international students and researchers
 - Support for study abroad and global exchange by students and faculty and staff members
 - Support for KU ventures
- 【FY 2026】
- The UCSD School of Medicine campus, where KURC-SD is located, is home to several prominent research institutions, including the Moores Cancer Center and the La Jolla Institute for Immunology (LJI), and hosts numerous world-renowned researchers in the field of immunology. Leveraging this environment, a collaborative research program focused on human immunology is being launched, with preparations underway for joint grant applications to organizations such as the NIH. This initiative is expected to drive cutting-edge research and strengthen collaboration with Kyoto University.
 - KURC-SD will serve as an open-space research environment, offering Kyoto University researchers a cost-effective and convenient setting to initiate new projects.

Activity Overview



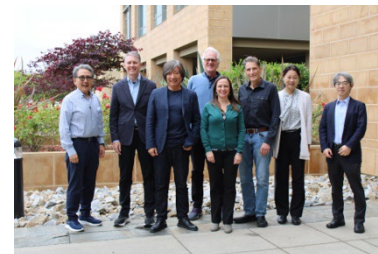
Main Activities in FY 2025

① Research: Establishment of a U.S.-Based Collaborative Platform for Human Immunology

- Prof. Ueno, in collaboration with Prof. Shane Crotty (La Jolla Institute for Immunology) and Prof. Mark Davis (Stanford University), conducted integrated single-cell, multi-platform analyses combined with mathematical modeling using patient-derived tissues from autoinflammatory liver disease.
- Prof. Ueno, in collaboration with Prof. Dennis Carson (University of California San Diego) and Dr. Tomoko Hayashi (University of California San Diego), developed a novel vaccine modality to activate tissue-level immune responses; in FY2025, an adjuvant developed by Prof. Carson was conjugated to a proprietary nanogel by Specially Appointed Professor Akiyoshi (Ueno Lab), developing a prototype vaccine.

② Education: cSIMVa • KIC • LJI • UCSD Strategic International Joint Symposium 2025 (June 4–6, 2025)

- To establish a U.S.-based collaborative research framework for human immunology, a four-institution joint international symposium was held at the La Jolla Institute for Immunology (San Diego, CA), involving Chiba University, Synergy Institute for Futuristic Mucosal Vaccine Research and Development (cSIMVa); KU Immunomonitoring Center (KIC); La Jolla Institute for Immunology (LJI); and University of California San Diego (UCSD).
 - ✓ 128 participants (including 28 students; Kyoto University: 7 faculty members, 5 graduate students)
 - ✓ 33 oral presentations (including a plenary lecture by Dr. Vijay Kumar Kuchroo, Harvard University) and 27 poster presentations (June 4–5)
 - ✓ Brainstorming sessions involving Japan–U.S. researchers across four thematic areas in immunology (June 6)



General Information

- ◆ Approved in FY 2018
- ◆ Established in April 2020
- ◆ Established by the Graduate School of Medicine
- ◆ Partner institution: The AIRC Institute of Molecular Oncology (IFOM ETS), Italy
- ◆ Location: Kyoto University, Kyoto, Japan (inbound)
- ◆ Purposes: Promotion of international research collaboration through the establishment of an international joint laboratory on the campus of the KU Graduate School of Medicine, co-funded by IFOM ETS and Kyoto University.
- ◆ Functions: Advanced cancer biology research and training of graduate students and early-career researchers.

Positive ripple effects on the university's activities

- Boost research activity by bringing together the knowledge and expertise of both institutions.
 - Foster global human resources by internationalizing the research environment.
 - Create innovation through interdisciplinary academic collaboration.
- 【FY 2026】
- Promotion of research collaboration and publication of internationally co-authored academic papers.
 - Development of international joint research through the hosting of multiple international researchers including IFOM ETS-employed postdocs and JSPS Research Fellowship for Young Scientists recipients.
 - Hosting of multiple international students, including MEXT scholarship students, to contribute to the university's internationalization efforts.
 - Deepening of international exchange through short-term hosting at IFOM ETS.

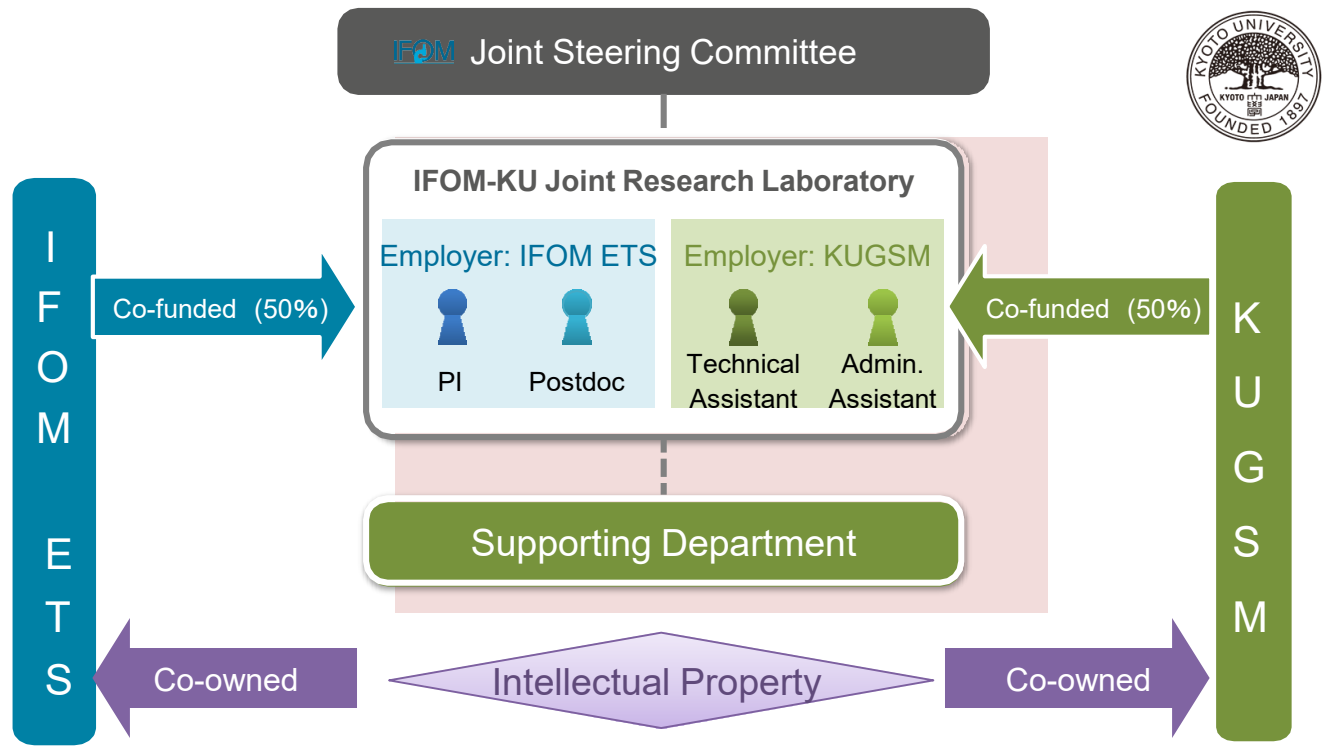
Activity Overview

About IFOM



IFOM ETS is an institution dedicated to the study of the molecular processes of cancer. It was established by the Italian Foundation for Cancer Research (FIRC) and boasts the largest-scale and best facilities in Europe. Numerous high-quality research projects are being conducted there.

KU's Graduate School of Medicine has an ongoing relationship with IFOM ETS. Since the conclusion of departmental academic and student exchange agreements in 2010, the two institutions have been implementing research and student exchange actively through holding joint symposiums, etc.



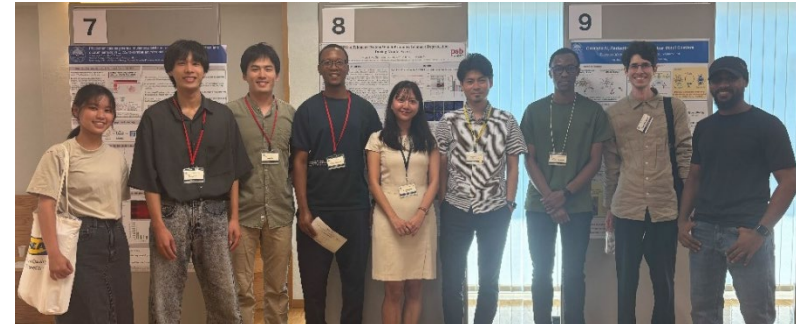
Main Activities in FY 2025

① Research outcomes

- Reviews

Makoto T. Hayashi* and Anthony J. Cesare*, T-loop dynamics: telomere structure shapes cell fate decisions, *Trends in Cell Biology*, 2026, March 20, doi:10.1016/j.tcb.2026.01.001. *Co-corresponding authors
- Conference presentations
 - Shunya Kosaka, Diana Romero-Zamora and **Makoto T. Hayashi**, TRF1 Promotes Mitotic Telomere Deprotection by Transporting AURKB Activity, CSHL Meeting Telomeres & Telomerase 2025, NY, USA, April 29–May 3, 2025
 - Diana Romero-Zamora, Placide Niyonshuti, Samuel Rogers, Anthony J Cesare, **Makoto T. Hayashi**, Regulatory mechanism of M-phase telomere deprotection by RECQ factors (invited lecture), 97th Annual Meeting of the Genetics Society of Japan, Kobe, September 10–12, 2025
 - Herve Dushimiyenze, Jiawei Cai, **Makoto T. Hayashi**, Analysis of the cGAS/STING innate immune signaling pathway using a novel extrachromosomal circular DNA reporter system, the 43rd Chromosome Workshop, the 24th Nuclear Dynamics Workshop, Sendai, February 18–20, 2026
- Invited Seminars
 - RIKEN Seminar, Kobe, July 28, 2025
 - CSI Research Seminar Series, Cancer Science Institute of Singapore, NUS, Singapore, Aug 27, 2025
- Acquisition of external funding

Grant-in-Aid for Scientific Research (B), Grant-in-Aid for JSPS Fellows, Takeda Research Continuation Grant (Cancer Category), Enzyme Research Grant FY 2025



2025 AMGEN Scholars Program Research Presentation and On-site Lab Members

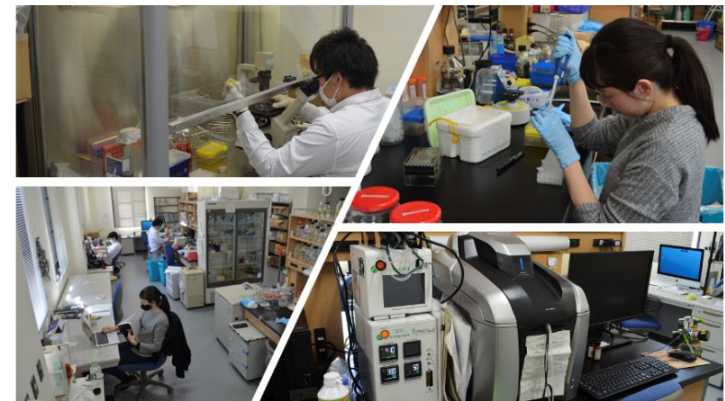
② Education, internationalization, and outreach

- Education and internationalization

The laboratory hosted:
IFOM ETS postdocs: 1 (Nigerian)
Researchers/doctoral students: 3 (2 Rwandan, 1 Japanese)
Short-term international students: 2 (1 Burmese (AMGEN Scholars Program), 1 Armenian)
Special Research Students: 1 (Chinese)

Meetings with IFOM ETS
PI chalk-talk meetings (online, once per month), PI meetings (online, once per month), PI retreat (Italy, May 27–29, 2025)
- Education and outreach

JSPS Science Dialogue (Fukui Prefectural Fujishima High School, January 28, 2026)



The IFOM-KU Joint Research Laboratory

Kyoto University On-site Laboratory: Kyoto University-Tsinghua University Cooperative Research and Education Center for Environmental Technology



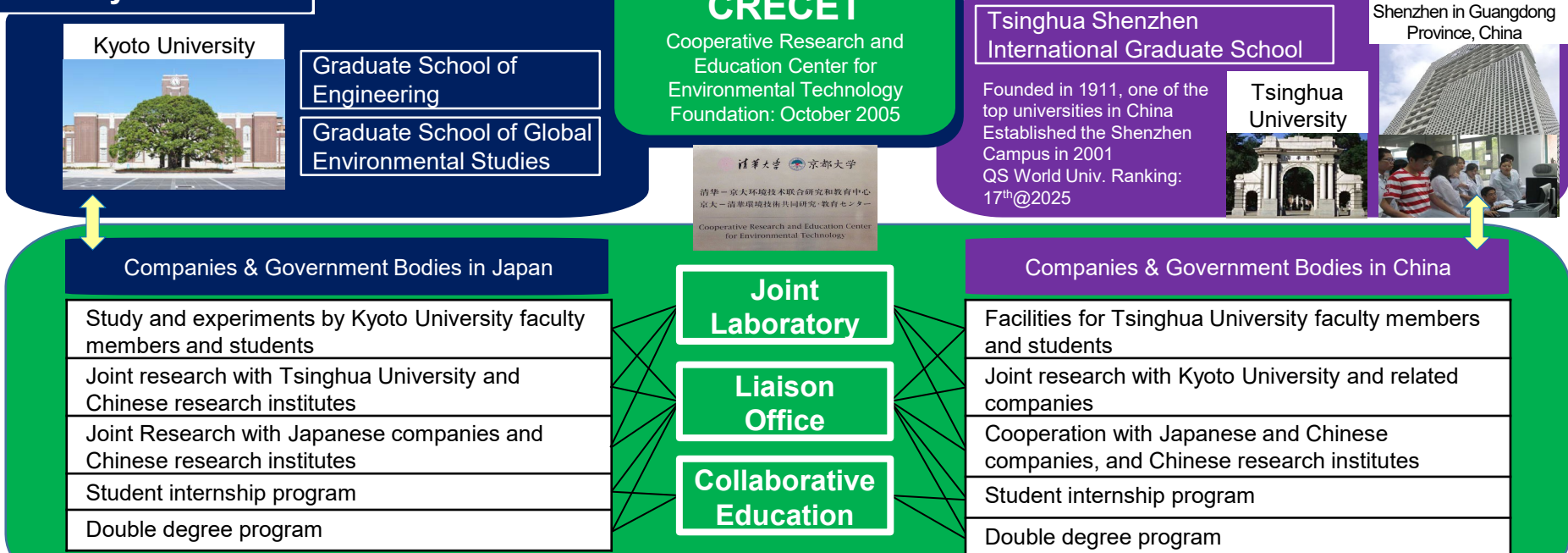
General Information

- ◆ Approved in FY 2018
- ◆ Established in December 2018
- ◆ Established by the Graduate School of Engineering and Graduate School of Global Environmental Studies (GSGES)
- ◆ Partner institution: Tsinghua Shenzhen International Graduate School, Shenzhen, China
- ◆ Type: Outbound
- ◆ Location: Tsinghua Shenzhen International Graduate School, Shenzhen, China
- ◆ Purposes: Promotion of joint research and education
- ◆ Functions: Research and education in environmental engineering fields, and international double degree program

Positive ripple effects to the university's activities

- Recruitment of talented international students in environment-related fields.
 - Expansion of internship education to fields other than environmental engineering.
 - Expansion of international double degree programs to other fields, and implementation of diverse degree programs.
 - Development of international industry-government-academia collaboration in other fields and in collaboration with other universities, local governments, and companies in Japan and China, building on the research collaboration in environmental engineering between Kyoto University and Tsinghua University.
- 【FY 2025】
- We held symposiums commemorating the 20th anniversary of the Center's establishment at Kyoto University and Tsinghua University, and restructured our network.
 - Japanese students were dispatched to Tsinghua University and we hosted students from Tsinghua University as part of the Master's DD program. International training programs were conducted to attract talented students and to cultivate the international mindset of Kyoto University students.

Activity Overview



Kyoto University

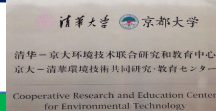


Graduate School of Engineering

Graduate School of Global Environmental Studies

CRECET

Cooperative Research and Education Center for Environmental Technology
Foundation: October 2005



Tsinghua Shenzhen International Graduate School

Founded in 1911, one of the top universities in China
Established the Shenzhen Campus in 2001
QS World Univ. Ranking: 17th@2025

Tsinghua University



University Town of Shenzhen in Guangdong Province, China



Companies & Government Bodies in Japan

Study and experiments by Kyoto University faculty members and students

Joint research with Tsinghua University and Chinese research institutes

Joint Research with Japanese companies and Chinese research institutes

Student internship program

Double degree program

Joint Laboratory

Liaison Office

Collaborative Education

Companies & Government Bodies in China

Facilities for Tsinghua University faculty members and students

Joint research with Kyoto University and related companies

Cooperation with Japanese and Chinese companies, and Chinese research institutes

Student internship program

Double degree program

The on-site laboratory will facilitate interaction with various fields other than environmental engineering.

Main Activities in FY 2025

① The 20th Anniversary Ceremony and Symposium on the Establishment of the Center

- In July 2025, the Center's 20th Anniversary Ceremony and Symposium were held at Kyoto University. A total of 170 participants gathered for the event, which began with a 20th-anniversary ceremony, followed by a presentation on the Center's 20-year history, an introduction to the master's double-degree (DD) program, and academic lectures by researchers from both universities. Prior to the symposium, student exchange activities were organized, including group work at the Katsura Campus and a visit to the Osaka-Kansai Expo.
- In November 2025, the 20th Anniversary Ceremony and Symposium were held at Tsinghua University's Shenzhen Campus. A total of 144 participants gathered, and the network of Kyoto University alumni residing in China was reconstructed.
- Regarding international joint research and the presentation of results, two papers were published in international journals, and international joint research continues.

② Implementation of the Master's DD program and Global Environmental Human Resource Development Programs

- In March 2026, one Kyoto University student from the first cohort of the Master's DD Program completed the program. One student from the second cohort returned to China in August 2025. A thesis defense was held for one Tsinghua University student. Two Tsinghua University DD students were admitted.
- From October 26 to November 2, 2025, the Global Environmental Human Resources Development Program, "The Spirit of Shimatsu: Learning the Circular Economy in Kyoto," was held as an initiative to enhance students' international perspectives and foster young researchers. 12 students from Tsinghua University (China), 2 from the University of Malaya (Malaysia), and 36 from Kyoto University participated in the exchange.
- From March 15 to 21, 2026, as part of a short-term international training program, 9 Kyoto University students were dispatched to visit state-of-the-art environmental facilities and engage in group work with students from Tsinghua University, thereby fostering their international perspective.
- Online seminars for supporting companies were held in August 2025 and February 2026.



Group photo from the 20th Anniversary Ceremony and Symposium (Top: Kyoto Univ.; Bottom: Tsinghua Univ.)



Group photo from Global Environmental Human Resource Development Program

Kyoto University On-site Laboratory: Kyoto University On-site Laboratory at Mahidol University for Educational and Research Collaboration in Environmental Studies



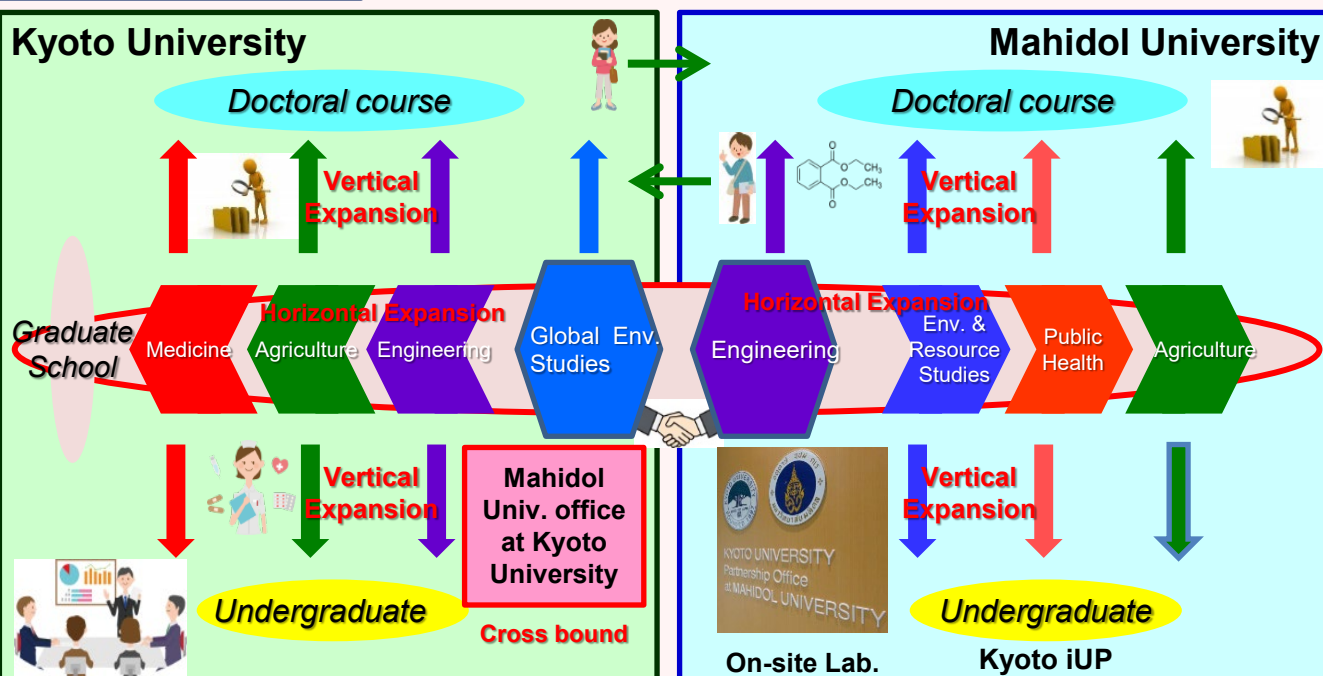
General Information

- ◆ **Approval Year:** FY 2018
- ◆ **Establishment:** March 2019
- ◆ **Implementing Schools:** Graduate School (GS) of Global Environmental Studies (GSGES); jointly implemented by GS of Engineering, GS of Agriculture, and GS of Medicine after FY 2020.
- ◆ **Partner institution:** Mahidol University, Thailand
- ◆ **Purposes:** To solve environmental problems in Japan and Thailand and to foster the next generation of researchers and high-level practitioners.
- ◆ **Location:** Mahidol University, Bangkok, Thailand (outbound)
- ◆ **Activities:** Joint education and research activities on environmental studies, recruitment of talented international students, and development of international joint programs

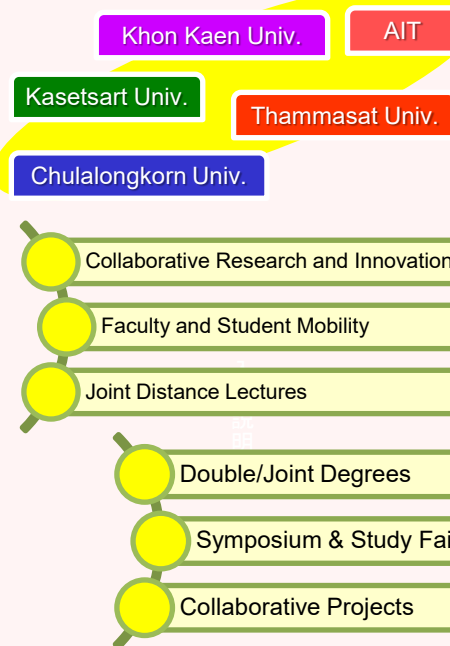
Positive ripple effects to the university's activities

- Research collaboration with local companies
 - Recruitment of talented international students
 - Education and training for local students
 - Extension of joint/double degree programs
 - Fusion of the humanities and sciences
 - Expansion to cross-bound type
- [FY 2018–2025]
- **On-site Laboratory Workshops:** Held nine times so far at least annually. In addition, the International Symposium was co-hosted (on-line, November 30–Dec 1, 2020). In 2025, an additional mini-workshop was held in September to enhance research collaboration.
 - **Double master's degree programs:** the Graduate School (GS) of Global Environmental Studies (GSGES), the School of Public Health, GS of Medicine, and GS of Agriculture were concluded in 2016, 2019, and 2022, respectively. As of the end of March 2026, 1 KU student and 14 Mahidol students have enrolled/will enroll in the GSGES program, one KU student has enrolled in the Agriculture program, and 2 Mahidol students in the Public Health program.
 - **Exchange of students & faculty members:** In 2018–2019, 52 people of 17 groups from Mahidol and 57 people of 15 groups from KU visited each other. In 2020–2022, only 9 people of 7 groups from Mahidol and 1 from KU visited each other due to COVID-19. In 2023–2025, 88 researchers/students of 19 groups from KU and 61 of 13 groups visited each other.
 - **Others:** Joint lectures, joint research, co-authored research presentations, internships, etc., were conducted.

Activity Overview



Expansion in Thailand



Main Activities in FY 2025

① Symposium/workshops

- 9th Kyoto University-Mahidol University On-Site Laboratory Workshop, Feb 20 and 21, 2026: 140 participants (69 onsite (at MU Salaya Campus) and 71 online participants). In the plenary session, Prof. Yasuyuki Kono, Vice President of KU, Prof. Izuru Saizen, Vice Dean of GSGES, and Prof. Pattaraporn Posoknistakul, Vice Dean of the Faculty of Engineering of MU, gave opening remarks. This was followed by reports from each session (“Environmental Engineering,” “Chemical Engineering,” “Agriculture and Ecosystems,” and “Public Health”) and general discussions and ended with closing remarks by Prof. Posoknistakul and Prof. Chihiro Tanaka, Dean of GSGES. Individual sessions were held in either Salaya, Kanchanaburi, or Phayathai Campus.
- In addition to the annual workshop, a mini-workshop was held on September 15 and 16, 2025, with the primary objective of fostering new collaborative research (primarily focused on sustainable water and waste management systems for suburban areas using energy-efficient and low-maintenance decentralized technologies). The total number of participants was approximately 60, with 22 local participants from Japan—a higher number than in the regular workshops. Intensive discussions were held on planning joint projects that transcended the boundaries of individual subcommittees, including issues related to immigration. As a result, this led to multiple research proposals.

② Student exchange/degree programs

- In addition to the Graduate School of Global Environmental Studies (2016) and the School of Public Health (2019), the Graduate School of Agriculture signed an agreement for the establishment of a master’s double degree program with Mahidol University Kanchanaburi Campus in July 2022. Preparations for the new double degree programs are also underway at the Graduate School of Engineering (with MU Faculty of Engineering) and the Graduate School of Agricultural Science (with MU Faculty of Science). Furthermore, an interdepartmental student exchange agreement was concluded between GSGES and the MU School of Public Health in March 2024.
- Two students on the double degree program (who entered Engineering, MU in August 2022, and GSGES, Kyoto University in April 2023) came to Kyoto University in April 2023 and left in March 2024. They received a master’s degree from KU in March 2025 and from MU in summer 2025.
- Two students on the double degree program (who entered Engineering, MU in August 2023, and GSGES, Kyoto University in April 2024) came to Kyoto University in April 2024 and left in March 2025. They received a master’s degree from KU in March 2026.
- Two students on the double degree program (who entered Engineering, MU in August 2024, and GSGES, Kyoto University in April 2025) came to Kyoto University in April 2025 and left in March 2026, expecting to receive Master’s degrees in 2027.
- One student who entered MU Engineering in August 2025 was selected for the double degree program. She plans to stay at GSGES for one year from April 2026.
- One master’s student from the Graduate School of Agriculture was dispatched to the MU Faculty of Agriculture (from January 13, 2025).
- Joint research with Mahidol University, Chulalongkorn University, and the National Nanotechnology Center, led by the Department of Chemical Engineering, has been selected for JST’s NEXUS (Young Scientist Exchange Program) in FY2025 (exchange support period is one year).

③ Publication of collaborative research results in internationally co-authored academic papers

- Research results produced through collaboration between the two universities have been published in 2 peer-reviewed co-authored papers.

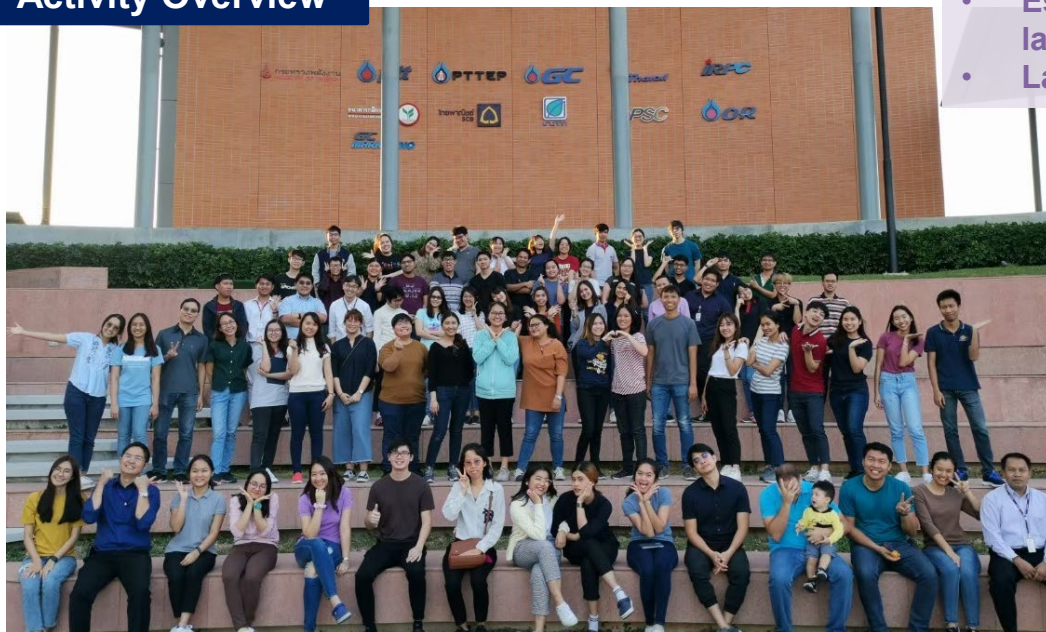
General Information

- ◆ Approved in FY 2018
- ◆ Established in August 2018
- ◆ Established by the Institute for Integrated Cell-Material Sciences (iCeMS), Kyoto University Institute for Advanced Study (KUIAS)
- ◆ Partner institution: Vidyasirimedhi Institute of Science and Technology (VISTEC), Thailand
- ◆ Purposes: Development of basic research in chemistry and materials science in both countries, and training of researchers with expertise in these fields
- ◆ Location: Vidyasirimedhi Institute of Science and Technology (VISTEC), Rayong, Thailand (outbound)
- ◆ Functions: Creation of new materials and development of technologies that contribute to solving energy and environmental issues / Training of young researchers and human resource circulation

Positive ripple effects to the university's activities

- Development of international joint research including research with local companies
 - Student recruitment
 - Provision of education for local students and summer schools
 - Development into international joint program (JD/DD)
 - Establishment of venture companies
- Recruit talented undergraduate students from top universities throughout Thailand through in-person visits or online recruitment activities.
- Utilize VISTEC's one- to two-year study abroad programs for PhD students, and strengthen collaboration and develop joint research with relevant top laboratories around the world, using VISTEC as a hub.
- Continue to develop the research using the Thai research grants, and establish a new research consortium consisting of multiple research organizations.

Activity Overview



- Instructing PhD students and cultivating human resources for industry, government, and academia
- Establishment and management of a sustainable laboratory
- Launching projects and obtaining external funding



Main Activities in FY 2025

① Promoting materials science and chemistry research through collaboration between local lab members and others

- We worked on (i) synthesis and evaluation of catalysts and electrolytes using MOFs/COFs; (ii) synthesis and evaluation of solid materials via CO₂ recycling; (iii) development of new materials using phase transition phenomena.
- 7 papers (including 6 papers in Nature Index journals) were published during the period 2025/1-2025/12. One paper each related to (i), (ii), and (iii) was published in *the Journal of the American Chemical Society*, a top journal in the field of chemistry. Four papers were authored by OSL-affiliated PhD candidates enrolled at VISTEC as first authors, and Kyoto faculties as corresponding authors.
- One candidate enrolled at VISTEC obtained a PhD in 2025, and two more candidates are on track to obtain their PhD, and are currently proceeding with the graduation procedures. All students have been abroad to join international conferences and research collaboration.

② Efforts to establish sustainable laboratory/launching new projects and acquiring external funding

- Prof. Horike is affiliated with the Department of Materials Science and Engineering (MSE) and has classes. He participated in the admission process, and successfully recruited two new PhD candidates.
- A joint proposal in JST-NEXUS (Networked Exchange, United Strength for Stronger Partnerships between Japan and ASEAN) “Development of intermediate-temperature water electrolyzer using proton-conductive metalorganic frameworks” was accepted. Profs. K. Kongpatpanich (MSE, VISTEC) and Horike conducted experiments on each side, including the setup of new equipment in Thailand
- A joint proposal in JST-NEXUS-Y-tec “Japan-Thailand young talent exchange through the development of coordination polymer catalysts for CO₂ recycling” was accepted. Profs. Tabé (iCeMS), Kongpatpanich and Imyen (Kasetsart University, Thailand) send postdocs and students to each side every few months.

General Information

- ◆ Approved in FY 2019, established in September 2019
- ◆ Established by the Institute for Chemical Research (ICR) Co-operated with the Institute for Integrated Cell-Material Sciences (iCeMS), Kyoto University Institute for Advanced Study (KUIAS)
- ◆ Partner institution: Fudan University, China
- ◆ Purposes: Cutting-edge collaborative research and promotion of personnel exchange in the field of chemistry
- ◆ Location: Fudan University, Shanghai, China (outbound)
- ◆ Functions: Promotion of cutting-edge chemical research, expansion of international collaboration and equipment sharing, and exchange of human resources with partner institutions



Positive ripple effects to the university's activities

- Promotion of activities as an international joint-usage/research center.
- Efficient research through sharing research resources and equipment.
- Recruitment of talented students through using the lab as a contact point.

【During FY 2025】

- Kyoto University dispatched nine faculty members to Fudan University, where the “5th Shanghai-Kyoto Chemistry Forum” was held at Fudan University's Department of Chemistry. Presentations covered the latest research findings in new materials, energy conversion, and chemical biology, and discussions focused on collaborative research.
- Top-tier undergraduate students from Shanghai Jiao Tong University spent six weeks at iCeMS.

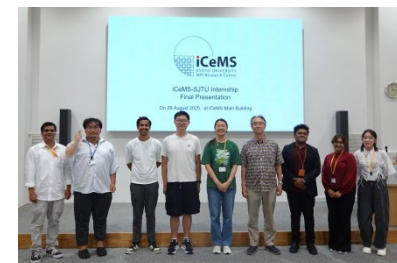
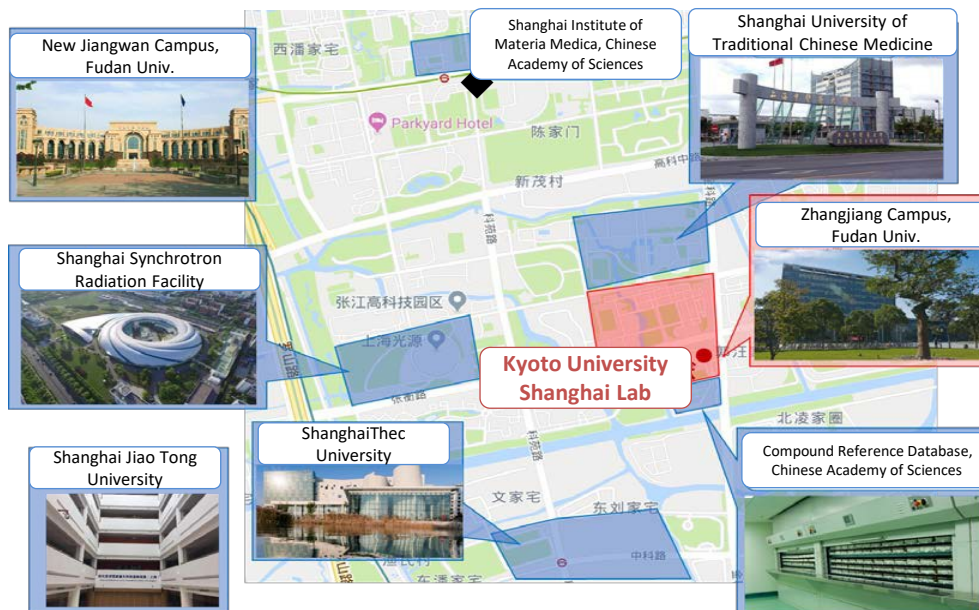
Overview of activities

*Proactive applications for external funding
*Collaborative research with companies



Secure funding for self-management

- ◆ Research collaboration in advanced chemistry (porous materials and other new materials, energy conversion, chemical biology, etc.)
- ◆ Shared use of state-of-the-art research equipment available at Fudan University, Shanghai Jiao Tong University, ShanghaiTech University, and Kyoto University
- ◆ Shared use of the National Compound Library of the Chinese Academy of Sciences (two million compounds)
- ◆ Utilizing Kyoto University's online courses and short-term study abroad programs to attract talented students from top Chinese universities
- ◆ Obtaining research funds by inviting visiting professors, and promoting early-career researcher exchange



Shanghai Jiao Tong undergraduate students and iCeMS mentors



Shanghai-Kyoto Chemistry Forum, 2025 (Shanghai)

Main Activities in FY 2025

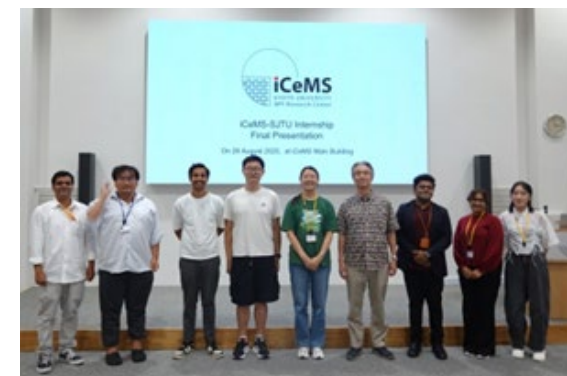
① The 5th Shanghai-Kyoto Chemistry Forum was held in Shanghai

In November 2024, China resumed its visa exemption policy for Japanese nationals. Consequently, travel from Kyoto to Shanghai restarted in fiscal year 2025, and the "5th Shanghai-Kyoto Chemistry Forum" was held at Fudan University in Shanghai on November 21, 2025. Seven speakers from ICR, Kyoto University, two from iCeMS, Kyoto University, and ten from Fudan University gave presentations. This time, young faculty members also participated, presenting research results across a wide range of fields including new materials, energy conversion, and chemical biology. Through this forum, participants discussed the effective utilization of research resources and approaches to international collaborative research.



② Nurturing the next generation

- Two undergraduate students (talented program) selected from Shanghai Jiao Tong University were accepted at Kyoto University's iCeMS and ICR in fiscal year 2025 for a six-week internship. One student applied for a government-sponsored scholarship for graduate studies.
- On June 27, 2025, 41 undergraduate students majoring in materials science from Zhejiang University visited iCeMS. iCeMS professors delivered a lecture tailored for undergraduates. The session included Chinese-language explanations to promote study-abroad opportunities.



Kyoto University On-site Laboratory: iPS Cell Research Center at Gladstone Institutes



General Information

- ◆ Approved as KU On-site Laboratory in FY 2019
- ◆ Established by the Center for iPS Cell Research and Application (CiRA) in September 2019.
- ◆ Partner institution: Gladstone Institutes, USA
- ◆ Purposes: Further development of world-leading iPS cell research and fostering globally competent early-career researchers
- ◆ Location: Gladstone Institutes, San Francisco, USA (outbound)
- ◆ Functions: Advanced research on iPS cells, training of early-career researchers, and recruitment of international students

Positive ripple effects to the university's activities

- Advancement in activities of researchers and students through participation in cutting-edge research
- Exploration of new programs beyond the departmental level, including international collaborative research between KU and UCSF

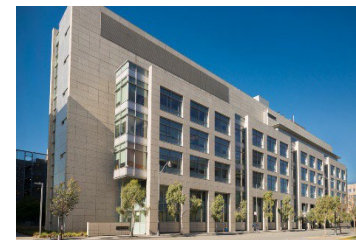
【FY 2026】

- Create opportunities to offer internship education to students from neighboring universities.
- Develop research collaborations with other laboratories and partner institutions and deepen the understanding for the functions of pluripotent stem cells.
- Promote further applications of iPS cell technologies to industries and academia.

Activity Overview



Shinya Yamanaka (PI)



**GLADSTONE
INSTITUTES**

Shinya Yamanaka (PI)

VISION:

- Development of global human resources and acceleration of cross-border innovation

OUTLINE:

- Collaborative research on the mechanisms of protein translation regulation in the proliferation and differentiation of pluripotent stem cells.
- International exchange of researchers and students
- International exchange programs (symposiums, postdoc training programs)

MANAGEMENT STRUCTURE:

- Associate professor employed by CiRA stationed at the on-site laboratory through a cross-appointment
- Researchers employed by CiRA stationed at the on-site laboratory

Main Activities in FY 2025

① Lecture at the Japan Society of Applied Physics Autumn Meeting 2025

- Dr. Tomoda was invited to the 86th JSAP Autumn Meeting 2025 (September 7-10, Meijo University, Nagoya) and gave an online lecture about the latest findings based on the OSL activities.



② Further Improvement of Research & Educational Environment

- To further accelerate the research activities at the OSL, we strengthened our team and hired three local research assistants. All of them hope to enter graduate schools, and we are supporting their education through research activities.
- One of the researchers at the OSL was selected for a scholar position offered by a major public research institution in the United States.
- We also initiated a new collaborative research project with a laboratory within the Gladstone Institutes.
- In addition, we presented the research activities at the OSL at the CiRA seminar (July 2025) and a mini-symposium (January 2026), where we exchanged opinions with many domestic researchers.



General Information

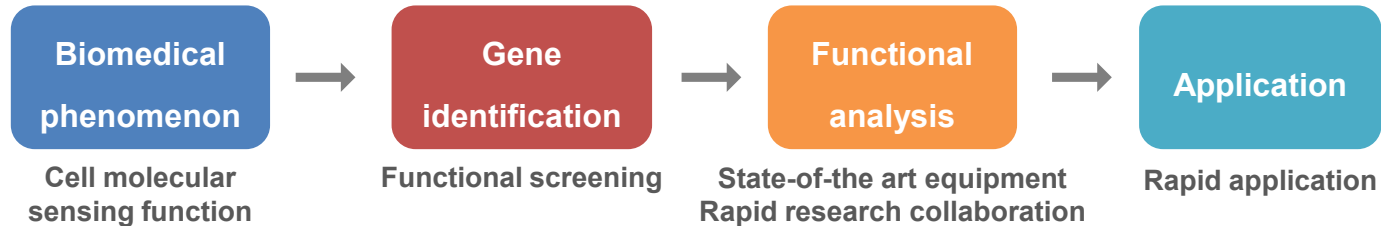
- ◆ Approved in FY 2019
- ◆ Established in December 2019
- ◆ Established by the Institute for Integrated Cell-Material Sciences (iCeMS), Kyoto University Institute for Advanced Study (KUIAS)
- ◆ Partner institution: Academia Sinica, Taiwan
- ◆ Purposes: Accelerating cutting-edge research
- ◆ Location: Academia Sinica, Taipei, Taiwan (outbound)
- ◆ Functions: Advanced research in biomedical science fields, expansion of interdisciplinary collaboration, and recruitment of international researchers and students

Positive ripple effects to the university's activities

- The center serves as Kyoto University's point of contact in Taiwan
- The center serves as a hub for exchange with universities and research institutes in Taiwan
- Kyoto University students are motivated by international students from Taiwan and other countries.
- Promotion of internationalization for Kyoto University students
- The following benefits are anticipated: Promotion of international research collaboration between the Kyoto University Institute for Advanced Study (KUIAS) and IBMS, Academia Sinica (acquiring research funding), recruitment of talented international students through National Taiwan University (NTU), exchange between local students and Kyoto University students, development of international joint/double degree programs using TIGP, and research collaboration with local and Japanese companies.
- As Academia Sinica has many research laboratories in the social sciences, developments in the fusion of the humanities and sciences and cross-bound exchange involving other departments are anticipated. The research networks established in Taiwan are expected to be further expanded and effectively utilized for the university as a whole (such as the clinical trial network). Efforts will be made to strengthen relationships with NTU, a strategic partner of Kyoto University.

Activity Overview

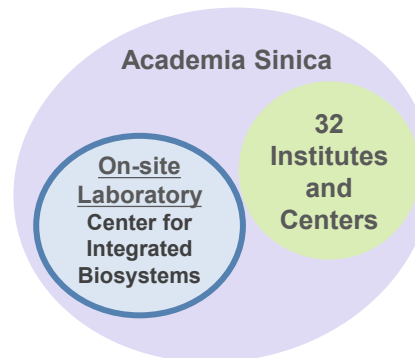
Identification and functional analysis of genes involved in molecular sensing through interdisciplinary research



Cell molecular sensing functions of interest to individual PIs



Screening technology to identify genes involved in biomedical phenomenon



Why Taiwan?

- Education in Europe and the US
- High English proficiency
- High research standards
- Concentration of research institutions
- Physical distance

Main Activities in FY 2025

① Meeting Biomedical Translation Research Center

We discussed collaboration with startups at the Biomedical Translation Research Center, which is part of the National Biotechnology Research Park and is affiliated with Academia Sinica.



② Symposium iCeMS International Symposium

We held an international symposium featuring Prof. James Liao, President of Academia Sinica, as the plenary speaker.



③ Seminar Academia Sinica, Prof. Fu-Tong Liu

A seminar was held by Professor Fu-Tong Liu of the Institute of Biomedical Sciences (IBMS), former Vice President of Academia Sinica.



Kyoto University On-site Laboratory: Quantum Nano Medicine Research Center



General Information

- ◆ Approved in FY 2019
- ◆ Established in October 2019
- ◆ Established by the Institute for Integrated Cell-Material Sciences (iCeMS), Kyoto University Institute for Advanced Study (KUIAS)
Co-operated with the Institute for Integrated Radiation and Nuclear Science
- ◆ Partner institution: The University of California Los Angeles (UCLA)
- ◆ Purposes: Quantum nano-medicine research with a focus on BNCT, practical application for cancer treatment, and expansion of collaboration with UCLA and industrial partners
- ◆ Location: Kyoto University, Kyoto, Japan (inbound)
- ◆ Functions: Promoting academic, researcher and student exchange between UCLA and Kyoto University, Hosting symposiums and seminar series

Positive ripple effects to the university's activities

- Establishment of new academic fields
- Advancements in radiation medicine, with a focus on BNCT
- Collaboration with research centers in California
- Ripple effects on industries in California and Japan
- Advancements in quantum nano medicine research have influenced research at Kyoto University, including the development of new radiation therapies. The center promotes interdisciplinary research that transcends disciplinary boundaries at the university
- The center provides opportunities for the university's researchers and world-class researchers in the US to interact by engaging in its activities

Activity Overview



Kyoto University
iCeMS



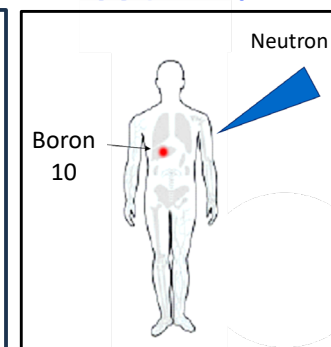
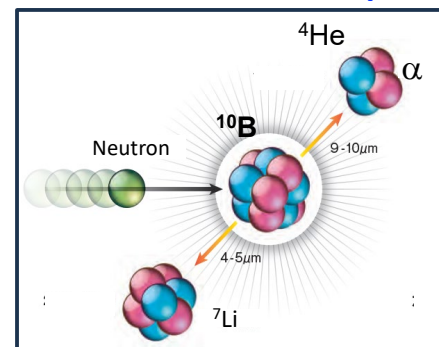
Kyoto Univ Institute for Integrated
Radiation and Nuclear Science



UCLA
Dept. of MIMG



Boron Neutron Capture Therapy (BNCT)



Recent work on
BNCT

New boron reagents
Tumor elimination
Abscopal effect

Nanoparticles
Tumor targeting



Main activities in FY 2025

Academic Exchange

May 14–16: Held UCLA–Kyoto University–Academia Sinica symposium entitled, “New developments in Biomedical Sciences” at CNSI auditorium. Organizers are QNM Center, Dept. of MIMG, California NanoSystems Institute and Academia Sinica. Fuyuhiko Tamanoi and Kotaro Matsumoto from QNM Center played major roles in this meeting.



UCLA–Kyoto University–Academia Sinica symposium

September 10–11: Held a symposium entitled, “New developments on nanomedicine and cancer research” at Ito Hall (Tokyo University). Organizers include QNM Center, Kyoto University Institute for Integrated Radiation and Nuclear Sciences, Japan Nanomedicine Society.

Quantum Nano Medicine is emerging as a new scientific discipline. This was presented at the following meetings.

October 2025, The Quantum Medicine Foundation Symposium, Tosu

December 2025, Annual Meeting of the Japanese Society of Patient–Derived Cancer Models, National Cancer Center

December 2025, 18th International Symposium on Nanomedicine (ISNM2025), Hiroshima

July 2025: Ohio State University delegation (Hisashi Yamaguchi, Nilendu Gupta, Wei Meng) visited QNM Center and we exchanged opinions on BNCT activities in Kumatori.

December 2025: Three members from Tokyo University of Science and three people from Nagasaki University Hospital visited the QNM Center.

Kyoto University On-site Laboratory: Laboratory for Green Porous Materials

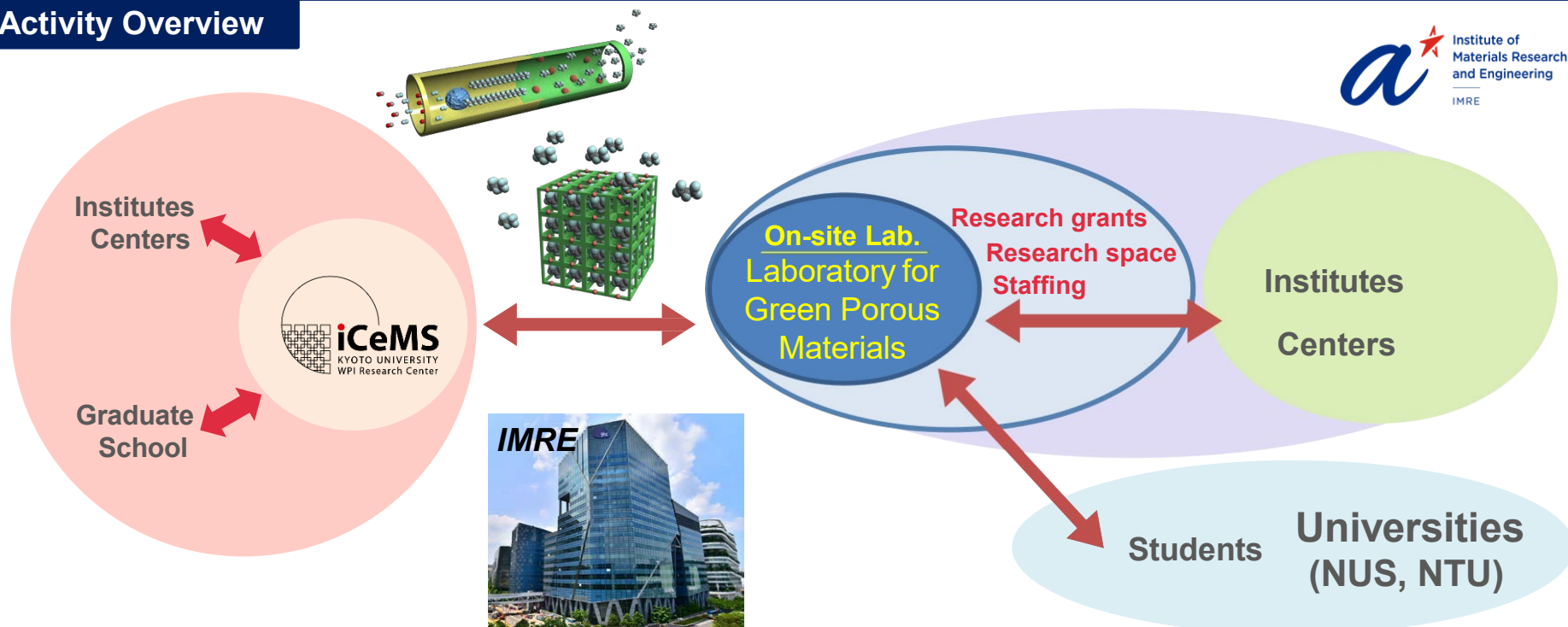
General Information

- ◆ Approved in FY 2020
- ◆ Established in FY 2020
- ◆ Established by the Institute for Integrated Cell-Material Sciences (iCeMS), Kyoto University Institute for Advanced Study (KUIAS)
- ◆ Partner institution: The Institute of Materials Research and Engineering (IMRE), Agency for Science, Technology and Research (A*STAR), Singapore
- ◆ Purposes: Combining iCeMS's expertise in porous materials with IMRE's research on bioapplications and green catalysts to pioneer an environmentally beneficial research
- ◆ Location: IMRE, Singapore (outbound)
- ◆ Functions:
 - Environmental catalysis with porous materials, creating new fields for environmental impact, and advancing interdisciplinary research.
 - Development of hybrid porous materials and biocompatible polymers for medical and healthcare applications.

Positive ripple effects to the university's activities

- Serves as Kyoto University's point of contact at A*Star in Singapore.
 - Acts as a bridge between Kyoto University and Singaporean universities and research institutes in material science research.
 - Kyoto University early-career researchers and students are motivated by international students.
 - Helps Kyoto university students develop international awareness.
- Expansion and development of joint research topics between KUIAS and IMRE.
- Research guidance for talented students at the National University of Singapore, etc.
- Exchange between Kyoto University researchers and local researchers and students through holding seminars.
- Exploring the potential of porous materials development in cooperation with local companies.

Activity Overview



Main activities in FY 2025

① Collaborative research on green porous materials

• In 2025, research were conducted under the following themes :

Theme 1: MOF catalysts for sustainable applications

Theme 2: MOF-mixed matrix membranes

Theme 3: MOF defect engineering

Theme 4: MOF/biocompatible polymer hybrids

- Assoc. Prof. Ken-ichi Otake stayed in Singapore during the following periods, participating in conferences, delivering lectures, and conducting OSL visits and research discussions:(July 2–10, 2025; December 7–11, 2025; March 5–7, 2026)
- Professor Susumu Kitagawa (Distinguished Professor) delivered a keynote lecture at the A*STAR-organized event “In Conversation with Prof. Susumu Kitagawa and Prof. Max Welling on AI and Materials Discovery” (March 5, 2026).
- A joint proposal to the NRF “AI for Science (AI4S)” program with Kyoto University and Nanyang Technological University (NTU) was accepted, with this OSL as a participating member. Collaborative research will begin in FY2026.
- Collaborative research outcomes related to Themes 1 and 3 were compiled and reported through the co-authorship papers:
“MOF Catalysts for Plastic Depolymerization,” *Angew. Chem. Int. Ed.*, 64, e202504017 (2025)
“Aqueous Upcycling of Polyethylene Furanoate from Mixed Plastic Feeds into Metal-Organic Frameworks,” *Angew. Chem. Int. Ed.*, Just Accepted (2026)

② OSL symposium

- On March 6, 2026, a joint symposium with VISTEC OSL was held at NTU, with approximately 60 participants, including 10 faculty members (including Prof. Kitagawa, Prof. Satoshi Horike, and Associate Prof. Otake), from Kyoto University and researchers from IMRE, VISTEC, and NTU.
- The symposium featured presentations on advanced materials (AI, catalysis, porous materials, CO₂ utilization), along with updates on NRF funding trends and JST Singapore collaborative programs.
- Discussions were also held on future collaborative projects among IMRE, VISTEC, Kyoto University, and NTU.

Research collaboration with
the IMRE / A*Star OSL

On-site laboratory researchers (concurrent posts)

Assistant Professor Jason Lim
Assistant Professor Shermin Goh
Dr. Tristan Tan



Kyoto University On-site Laboratory: Center for Integrated Data-Material Sciences (iDM)



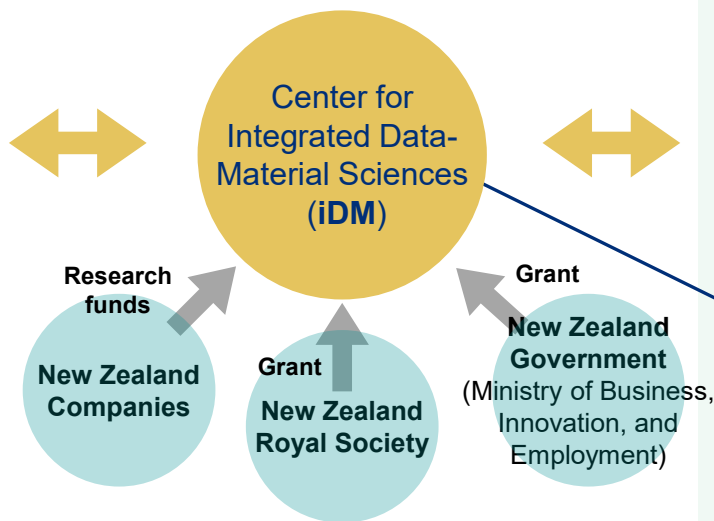
General Information

- ◆ Approved in FY 2021
- ◆ Established in January 2022
- ◆ Established by the Institute for Integrated Cell-Material Sciences (iCeMS), Kyoto University Institute for Advanced Study (KUIAS)
- ◆ Partner institution: The MacDiarmid Institute for Advanced Materials and Nanotechnology, New Zealand
- ◆ Purpose: Perform integrative data science-materials science research
- ◆ Location: Wellington University, Wellington, New Zealand (outbound)
- ◆ Functions: Deepen research on material sciences using computational science and data science, and internationalize Kyoto University's research and education activities by enhancing collaboration with industry and local research institutions.

Positive ripple effects to the university's activities

- Development of interdisciplinary fields combining data science and material science.
 - International industrial application of materials developed at Kyoto University
 - Cultivating the perspective of contributing to the international community through basic research among students and early-career researchers.
 - Raising the profile of the Kyoto University brand in Oceania.
- Expanding local research networks and enhancing the brand recognition of Kyoto University and KUIAS through establishing a policy for research on semiconductor materials and porous materials with local research institutions, which is anticipated to contribute to the achievement of a decarbonized society.
- Creating networks with local companies and Japanese companies, which can lead to research collaboration.
- Encouraging exchanges among early-career researchers and international students.
- Promoting the fusion of the humanities and sciences through research plans that fully respect the beliefs and customs of the Maori (indigenous people of New Zealand).

Activity Overview



- Accelerating research collaboration in **computing and data science**, with a focus on **material science**, which is a strength of both Kyoto University and MDI.
- Promoting research exchange and brain circulation as a hub of the Kyoto University-MDI network.

The MacDiarmid Institute for Advanced Materials and Nanotechnology (MDI), New Zealand



To Mana Tūrangia Whakawhānaki
MacDiarmid Institute
Advanced Materials & Nanotechnology

New Zealand's largest-scale and highest-level virtual research institute in material science
(31 laboratories from 5 major universities participate)

University of Auckland
(7 laboratories)

Massey University
(2 laboratories)

Victoria University of Wellington
(12 laboratories + Administrative office)

University of Canterbury (6 laboratories)

University of Otago (4 laboratories)



Kyoto University On-site Laboratory: International Research Laboratory for Earthquake and Tsunami Risk Cognition and Reduction (iLETs)



General Information

- ◆ Approved in FY 2024
- ◆ Established in November 2024
- ◆ Established by the Disaster Prevention Research Institute (DPRI)
- ◆ Partner Institution: National Autonomous University of Mexico (UNAM), Mexico
- ◆ Location: (Cross-bound type)
National Autonomous University of Mexico (UNAM), Mexico City, Mexico (outbound)
Disaster Prevention Research Institute (DPRI), Kyoto University, Uji, Kyoto, Japan (inbound)
- ◆ Purpose: An interdisciplinary research center on the disaster mitigation of earthquake and tsunami in subduction zones
- ◆ Activities: Enhance understanding of earthquake/tsunami disasters and risks through natural science, engineering, and social sciences

Positive Ripple effects to the university's activities

- Establishment of the new academic field, "Comparative Earthquake and Tsunami Disaster Science."
- Publicize Kyoto University's leading role in earthquake and tsunami disaster prevention research.
- Serve as a hub laboratory with the Latin American research community.
- Recruit excellent master's and doctoral students.

Activity Overview

Kyoto University
Disaster Prevention
Research Institute (DPRI)



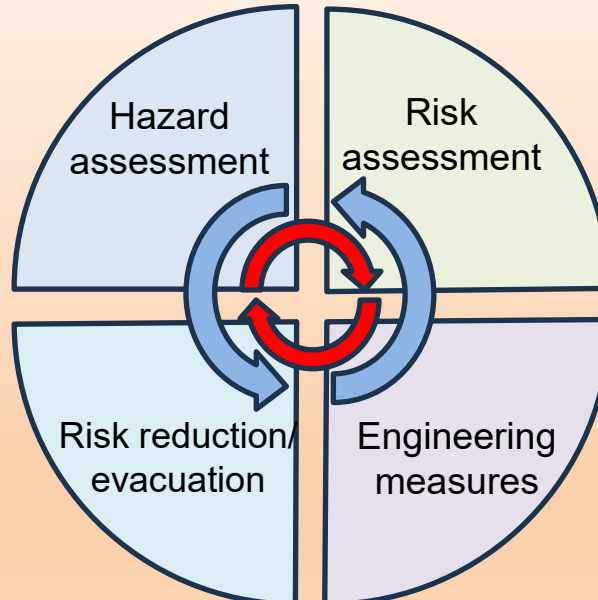
Cooperation with national
government/local
governments/communities

UNAM
OSL iLETs

International Research Laboratory for Earthquake and Tsunami Risk Cognition and Reduction (iLETs)

A research base for comparative studies on earthquake and tsunami disasters in subduction zones worldwide

"Risk communication" to promote disaster prevention in society



Effective evidence-based risk mitigation strategies

Proposal of engineering measures and evacuation strategies

National Autonomous University of Mexico (UNAM)
School of Engineering/
Institute of Geophysics



Cooperation with national
government/local
governments/communities

Kyoto University
OSL iLETs

iLETs Satellite
(Universidad de El Salvador)

Main activities in FY 2025

① Summer school and booth exhibition at the Mexican Geophysical Union meeting 2025

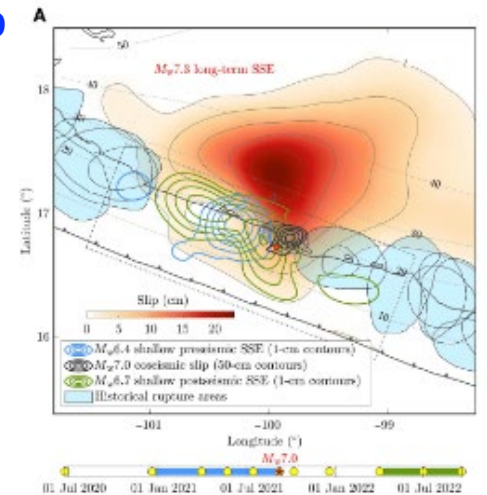
- At the Mexican Geophysical Union 2025 Annual Meeting in Puerto Vallarta, Mexico (October 26–31), iLETs hosted a summer school on earthquake and tsunami risk reduction. Six speakers, including Mexican collaborators and Professor Yoshihiro Ito, delivered lectures to about 15 participants on iLETs' contributions, seafloor seismic observation, tsunami modeling, ground-motion analysis, and disaster preparedness.
- iLETs also showcased its activities at a booth, which attracted many Mexican researchers and students. Many students expressed interest in studying at Kyoto University and exchanged information with the staff on site.



The booth exhibition in the Conference room

② Detection of Shallow slow slip events in Guerrero Seismic Gap

- Using high-precision ocean-bottom tiltmeters, hydrostatic pressure, GNSS, and satellite InSAR, we measured overriding-plate deformation offshore Guerrero, Mexico, and jointly inverted the geodetic records with seismicity, including repeating earthquakes. We thereby detected Mexico's first shallow slow slip event (SSE), migrating from the trench toward the hypocenter before the 2021 Acapulco moment magnitude (M_w) 7.0 earthquake, and detected long-term postseismic slow slip event after the mainshock.
- These results appeared in Science Advances on 10 September 2025 (Cruz-Atienza et al., 2025; DOI: 10.1126/sciadv.adu8259).



Detected Slow slip events in the GGAP

Kyoto University On-site Laboratory: Kyoto University-China Medical University Lab, Taiwan



General Information

- ◆ Approved in FY 2024
- ◆ Established in October 2024
- ◆ Established by the Faculty of Medicine, Graduate School of Medicine, Institute for Life and Medical Sciences, and Institute for Integrated Cell-Material Sciences (iCeMS), Kyoto University Institute for Advanced Study (KUIAS)
- ◆ Partner institution: China Medical University (CMU), Taiwan
- ◆ Purposes: Promotion of clinical trials/Collaborative development of new strategies for clinical application
- ◆ Location: China Medical University, Taichung, Taiwan (outbound)
- ◆ Functions: Clinical trials using drugs and technologies developed at Kyoto University will be transferred to CMU via the on-site lab, where clinical trials will be conducted. The on-site laboratory will not only transfer the technology, but will also conduct joint research for further technological development and non-clinical trials to expand the range of target diseases.

Positive Ripple effects to the university's activities

- Clinical trials using drugs and technologies developed at Kyoto University can be carried out at CMU Hospital.
- This will efficiently increase the number of clinical trial participants, and will serve as a bridgehead for global development.
- CMU will also benefit from being able to conduct joint development based on Kyoto University's materials and technologies.
- Research exchange is expected to lead to interdisciplinary development.

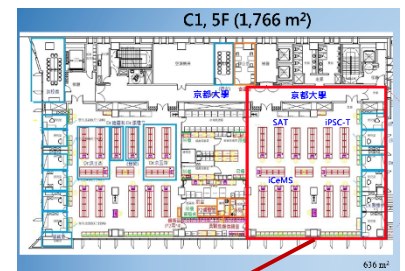
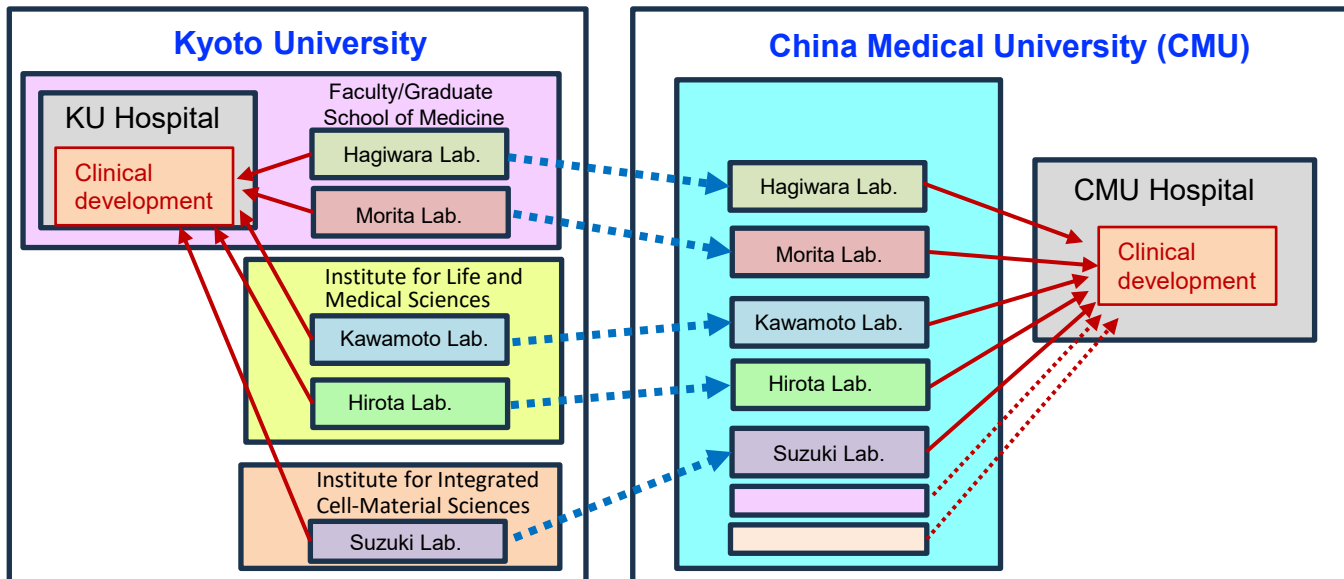
Activity Overview

- The location (building and lab space within the building: 636 m²) has been prepared (see diagram on the right).
- A total of five labs are planned to participate (four currently active labs and one new lab).
- Additional labs can participate in the on-site laboratory.
- A resident PI who will coordinate the entire lab will be employed through a cross-appointment by Kyoto University and CMU.

C1/C2 Building, Shui-Nan Campus



Joint research building		Industry-academia collaboration building	
C1B	C2B	C1B	C2B
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Space for KU On-site lab (636m²)

Main activities in FY 2025

① The 3rd KU-CMU Joint Symposium with JTBA 2025 (June 21, 2025)

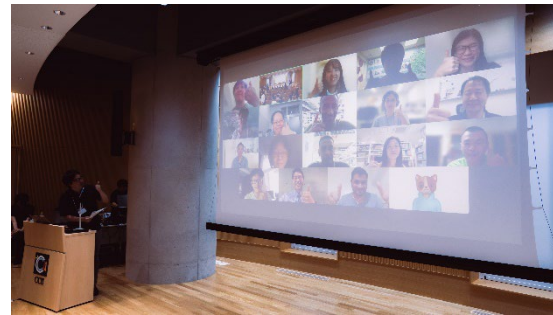
- The 3rd KU-CMU Joint Symposium with JTBA was held on June 21, 2025. 12 researchers from Kyoto University and China Medical University attended the symposium and discussed the latest research developments. On this occasion, the Japan-Taiwan Biotech Association (JTBA) joined as an organizer, and a total of 119 participants attended onsite and online. Many young researchers from Taiwan also took part in the symposium.
- Discussions are currently ongoing regarding the possibility of recruiting graduate students who wish to earn a degree at the On-site Laboratory.



The 3rd KU-CMU Joint Symposium with JTBA (onsite)

② Other notable achievements

- Based on a list of research equipment requirements compiled by Kyoto University, CMU proceeded with the purchase of the equipment and improved the facilities.



The 3rd KU-CMU Joint Symposium with JTBA (online)



Laboratory space

Kyoto University On-site Laboratory: INitiative for INtelligent ChemBioInformatics (IN-CBI)

General Information

- ◆ Approved in FY 2024
- ◆ Establishment in October 2024
- ◆ Established by the Institute for Integrated Cell-Material Sciences (iCeMS), Kyoto University Institute for Advanced Study (KUIAS), and backed by the Institute for Chemical Research
- ◆ Partner Institution: Indian Institute of Technology Roorkee
- ◆ Location: (Cross-bound type)
Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India (outbound)
KUIAS, Kyoto, Japan (inbound)
- ◆ Purpose: Scripting an ecosystem to develop intelligent medical tools for age-related diseases
- ◆ Functions: Establishment of a hybrid (physical and virtual) platform between Kyoto University and premier Indian research institutions to efficiently identify and exchange outstanding students and early career researchers for education

Positive ripple effects to the university's activities

- Collaborate with India's top-tier engineering and medical institutions to co-develop innovative chemical biology tools at Kyoto University.
- Cultivate a new generation of scientists through the exchange of top students and researchers, empowering them to contribute to the global scientific community.
- Create an environment in which Kyoto University can become a "first destination" for Indian students.

Activity Overview

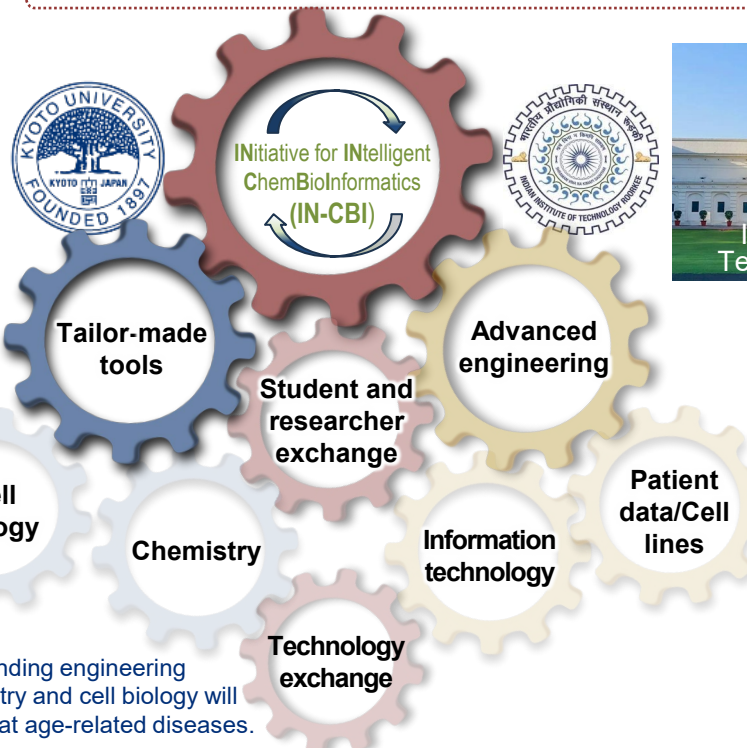
A hybrid (physical and virtual) cross-bound on-site laboratory for accelerating the development of intelligent (=programmable molecular design) chemical biology tools with the aim of advancing precision medicine

- Promoting research exchange and brain circulation as a hub between Kyoto University and the IIT network

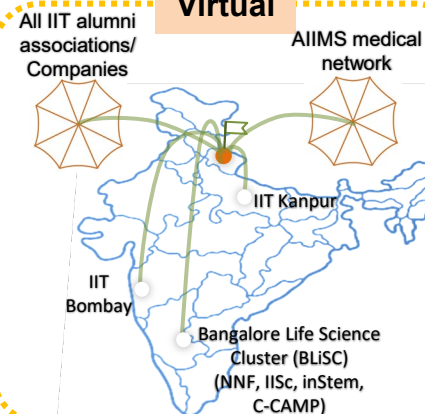


Physical

Provisional space by IIT Roorkee (3500 m²) and iCeMS (124 m²), cross-appointment of principal investigators, assignment of resident researchers by IIT and Kyoto University



Virtual



- ✓ Cross-border funding initiatives
- ✓ Sustainable mechanisms
- ✓ Network expansion
- ✓ Regional development contribution
- ✓ Engagement and outreach activities

- The synergistic effect of combining IIT Roorkee's outstanding engineering environment and Kyoto University's expertise in chemistry and cell biology will accelerate collaborative research to understand and treat age-related diseases.

Kyoto University On-site Laboratory: INitiative for INtelligent ChemBioInformatics (IN-CBI)



Main activities in FY 2025

1 Research Achievements

IN-CBI Head Namasivayam successfully fostered the joint research with IIT Roorkee Head Gopinath through joint supervision of three students. Together, they demonstrated that 1) carbon dot platforms enable mitochondrial regulation and oxidative stress control, 2) a mucoadhesive nanofiber patch achieves localized oral cancer therapy and 3) DNA origami pore for nucleobase detection in space biology. Three manuscripts are already published and their poster got first prize in Indian Government SPARC project.

2 Bridging Indo-Japan Collaboration and Young Researcher Exchange Programs

From Launch to scale: IN-CBI made steadfast progress to evolve as a ChemBioInformatics hub for aging research by building a sustained pipeline to enable high-quality early career researcher exchange through joint supervision, training, and outreach *via* strategic engagement with JST programs (LOTUS, Sakura Science) and KU-STAR.

Outreach lectures at IITs, embassy-led events, and national conferences significantly enhanced visibility and attracted top-tier candidates to Kyoto University.

Precision Analysis Center is being established at IIT Roorkee, supported by IIT alumni, industry-backed instrumentation, Tamil Nadu government engagement, a startup-oriented ecosystem, and future diaspora funding pathway.



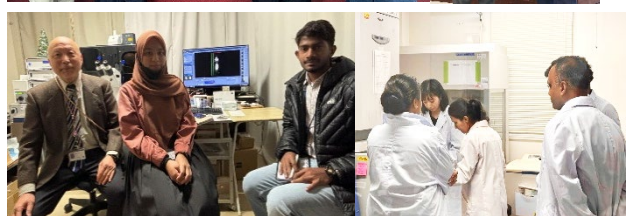
Participants including JST President Hashimoto, at the "Gathering of Invited Young Indian Researchers in the LOTUS Programme" Embassy of India in Japan, Tokyo, July 28, 2025. Dr. Namasivayam and Mr. Kiran of the IIT Roorkee delivered invited talks as JST LOTUS host and student.



Gathering of Kyoto University Indian and International students at iCeMS for Diwali Festival and Symposium to advertise the scope and the activities of IN-CBI, October 22, 2025.



Dr. Namasivayam officially joined as 'Visiting Professor' at IIT Roorkee and a joint workshop with Prof. Subramaniam of the IIT Kanpur was held, January 2026.



Exchange students and researchers from IITs and Government getting Hands-on training at IN-CBI.



NNF Alumni Graduation at KU

General Information

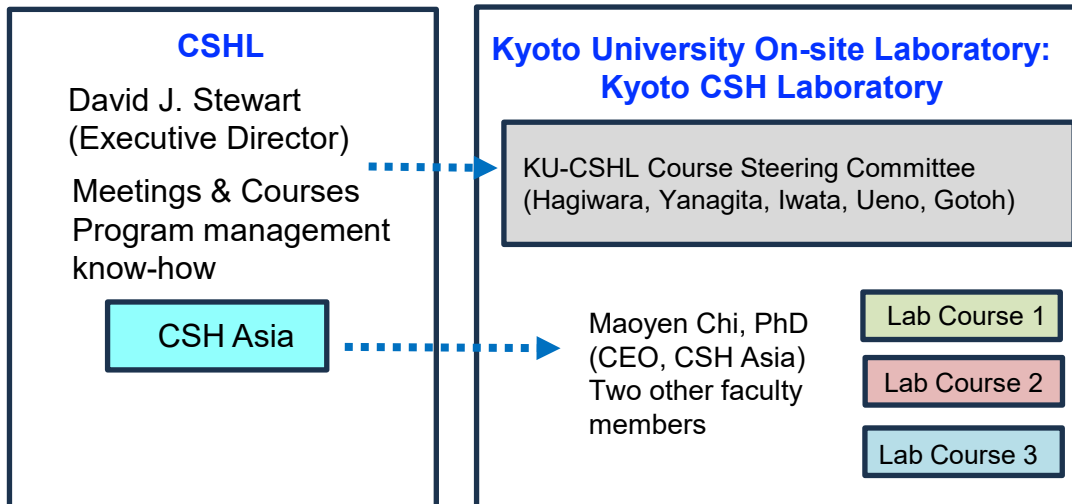
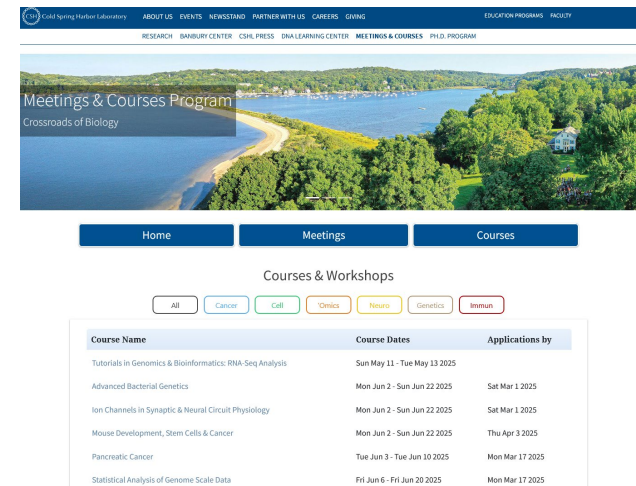
- ◆ Approved in FY 2025
- ◆ Established in October 2025
- ◆ Established by the Graduate School and Faculty of Medicine, Center for iPS Cell Research and Application (CiRA)
- ◆ Partner institution: Cold Spring Harbor Laboratory (CSHL), USA
- ◆ Type: inbound
- ◆ Purposes: Establishment of a KU-CSH laboratory course to promote human resources development, international exchange, and international collaborative research.
- ◆ Location: Kyoto University Graduate School of Medicine, Kyoto, Japan
- ◆ Activities: CSHL will establish an office within the Graduate School of Medicine for research collaboration and human resources development, assign CSHL staff on-site, and offer international technical training courses in cutting-edge life sciences. These activities are expected to promote the international dissemination of cutting-edge technology information and international collaborative research.

Positive Ripple effects to the university's activities

- Provide opportunities for Kyoto University graduate students and early-career researchers to study cutting-edge life sciences technology in Kyoto.
- Provide increased opportunities to attend seminars by international researchers, including Nobel laureates.
- As many graduate students and early-career researchers from overseas will participate in the lab's courses, it will significantly promote international exchange.
- Increased interaction between pioneering researchers from CSHL and Kyoto University researchers will also lead to increased international research collaboration.

Activity Overview

CSHL is a world-leading research institute that has led the development of molecular biology. It maintains and develops its position as a global center for life sciences by holding meetings and lab courses that bring together outstanding scientists from around the world. Hosting such lab courses within the Graduate School of Medicine will provide Kyoto University's graduate students and early-career researchers with opportunities to study cutting-edge life sciences technology in Kyoto. International researchers, including Nobel laureates, will provide lectures for the lab courses, providing increased opportunities for Kyoto University researchers to attend such seminars. As many graduate students and early-career researchers from overseas will participate in the lab courses, it is expected to significantly promote international exchange. This joint initiative will promote interaction between pioneering researchers from CSHL and researchers at Kyoto University, and can be expected to increase the impact of international collaborative research.

Course Name	Course Dates	Applications by
Tutorials in Genomics & Bioinformatics: RNA-Seq Analysis	Sun May 11 - Tue May 13 2025	
Advanced Bacterial Genetics	Mon Jun 2 - Sun Jun 22 2025	Sat Mar 1 2025
Ion Channels in Synaptic & Neural Circuit Physiology	Mon Jun 2 - Sun Jun 22 2025	Sat Mar 1 2025
Mouse Development, Stem Cells & Cancer	Mon Jun 2 - Sun Jun 22 2025	Thu Apr 3 2025
Pancreatic Cancer	Tue Jun 3 - Tue Jun 10 2025	Mon Mar 17 2025
Statistical Analysis of Genome Scale Data	Fri Jun 6 - Fri Jun 20 2025	Mon Mar 17 2025

URL: <https://meetings.cshl.edu/courses>

Main activities in FY 2025

① Establishment of the Kyoto CSH Laboratory

- Cold Spring Harbor Laboratory (CSHL) is a world-leading research institution at the forefront of molecular biology that has contributed to the careers of numerous Nobel laureates, including its former director, James Watson. CSHL has maintained and developed its position as a global hub in the field of life sciences by hosting meetings and lab courses that bring together leading scientists from around the world. Now, the Kyoto CSH Laboratory has been established in collaboration with Kyoto University as a new collaborative hub.
- To promote this program, the incorporated association CSHA-Japan was established in December 2025.

② Launch of an International Technical Training Course in Cutting-Edge Life Sciences

- In August 2026, CSHL and Kyoto University's Graduate School of Medicine plan to jointly launch an international technical training course in cutting-edge life sciences, and preparations are underway for the establishment of the KU-CSHL Course Program Review Committee.
- The lab has established a system that provides opportunities to acquire cutting-edge life-science technology skills and knowledge in Kyoto. The lab aims to provide course lectures by Nobel laureates and other prominent scholars, as well as increased opportunities for Kyoto University researchers to attend top-level seminars.

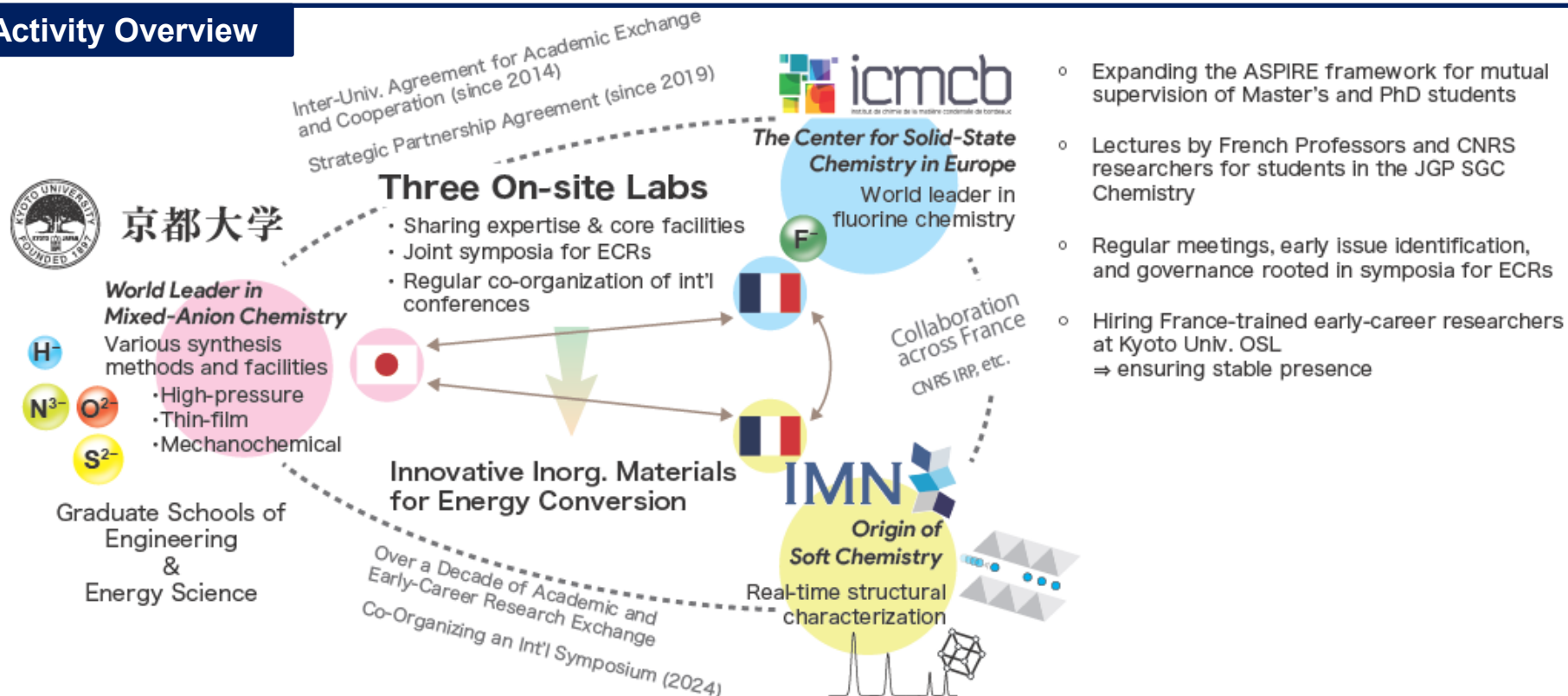
General Information

- ◆ Approved in FY 2025
- ◆ Established in November 2025
- ◆ Established by the Graduate School of Engineering, the Graduate School of Energy Science
- ◆ Partner institution: University of Bordeaux ICMCB (France), Nantes University IMN (France)
- ◆ Type: cross-bound
- ◆ Purposes: Development of inorganic energy materials with innovative functions
- ◆ Location: Kyoto University (Kyoto, Japan), University of Bordeaux ICMCB (Bordeaux, France), Nantes University IMN (Nantes, France)
- ◆ Activities : Establish a hub to promote the mobility and education of outstanding students and early-career researchers between Kyoto University and leading French research institutions

Positive Ripple effects to the university's activities

- Technological innovation in energy materials through collaborative research between leading material chemists in Japan and France.
- Through early-career researcher and student exchange, the labs will foster early-career researchers who will lead the next generation and contribute to international society.
- Development of the Kyoto University brand in Europe.

Activity Overview



Main activities in FY 2025

① Opening Ceremony in Nantes, France

- On January 26, 2026, the opening ceremony of the on-site laboratory was held at IMN, Nantes University, France. The event was attended by the laboratory's coordinators and senior representatives from Kyoto University, together with officials from JSPS and JST. Senior representatives from the University of Bordeaux, Nantes University, and CNRS also joined, reflecting strong academic collaboration between Japan and France.
- A workshop was held the following day, featuring presentations by 13 researchers from the three institutions. The subsequent panel discussion addressed future directions for collaborative research in inorganic energy materials and the development of researcher training and exchange programs.




Group photo at the opening ceremony

② Research Activities and Brain Circulation

- In December 2025, we hosted ISSSC2025, an international conference on solid-state chemistry, in Japan. Researchers from IMN and ICMCB were also invited as speakers.
- We hosted a doctoral student from IMN and a postdoctoral researcher from ICMCB for three and two months, respectively.
- Three CNRS researchers from IMN were invited to Kyoto and stayed for a couple of months.
- A grad student from Kyoto University was dispatched to IMN for a 3-month stay.

2nd International Symposium on Solid State Chemistry



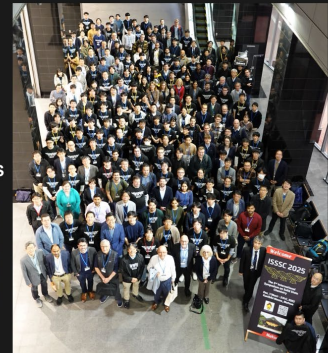

ISSSC 2025

256 Participants

32 Invited Speakers

Japan 176	
China 23	
France 16	
United States 10	
United Kingdom 9	
Germany 8	
Korea 6	
Hong Kong, China 4	

185 Posters

Overview of ISSSC 2025