

**Report on the Second Coordination Meeting
of the Practical Arrangements between the
IAEA and the Consortium of Universities and Institutions in Japan (CUIJ)**



3-4 July 2023

**Nihonbashi Life Science Building – Room 913,
Tokyo Branch of Osaka University Graduate School of Medicine, Tokyo, JAPAN**

Executive Summary

The Second Coordination Meeting of the Practical Arrangements (PA) between the IAEA and the Consortium of Universities and Institutions in Japan (CUIJ) was held at Nihonbashi Life Science Building, Tokyo branch of Osaka University Graduate School of Medicine, from 3 – 4 July 2023. The meeting was inaugurated by Ms Jane Gerardo-Abaya, Director of the IAEA Technical Cooperation Division for Asia and the Pacific, who is assigned as the Point of Contact of the PA from IAEA side, and Mr Jun Hatazawa, Chief Executive Director of Japan Radioisotope Association, who is assigned as the Point of Contact of the PA from the Consortium side. Ms Gerardo-Abaya mentioned that Rays of Hope Initiative which was launched last year by the Director General, Mr Mariano Grossi, emphasized the need for enhancing access to radiation medicine, in ensuring safe and secure radiation medicine for accurate diagnostics, for effective treatment of cancer patients, and highlighted the importance of healthcare capacity building under this initiative. Mr Hatazawa mentioned that this Consortium presented a significant opportunity for both the participating institutions and the Member States to enhance their capabilities for the benefit of the patients, welcoming 2 (two) new institutions from Japan with the potential for further expansion in the future. Mr Shinichi Sato, Director of the Ministry of Foreign Affairs (MOFA), expressed the greetings of MOFA through video message. He highlighted the importance of Rays of Hope Initiative and anticipated further collaboration between the IAEA and the Consortium under this initiative.

Mr Tadashi Watabe, the Coordinator of the PA from the Consortium side, gave a presentation showing previous collaboration activities and lessons learned. He also reported that the virtual PA signing ceremony was held on 9 of March 2023. Mr Enrique Estrada-Lobato, Nuclear Medicine Physician of the IAEA Nuclear Science and Application Division for Human Health, gave a presentation showing the IAEA activities in Human Health, including Rays of Hope Initiative. Mr Koichi Watanabe, the Coordinator of the PA from IAEA side and Consultant of the IAEA Technical Cooperation Division for Asia and the Pacific, gave an introduction of TC activities including the mechanism of the implementation procedure and expectation for the Consortium. Each university/institution presented their potential and capacity for TC activities.

Based on the presentations and constructive discussions, the following 4 (four) major outputs in the Action plan 2024-2025 to operationalize the PA was agreed on a) Human Resource Development of Member States for clinical theranostics; b) Developing of teleradiology for the Pacific Islands; c) Improving access to radiopharmaceuticals for Theranostics; and d) Rays of Hope Regional Anchor Centre. Depending on the review of the comprehensive survey to the Member States by the IAEA, 2 (two) new institutions of the PA, Kagawa University and Shonan Kamakura General Hospital, will be assigned to host Hands-on regional training courses (RTC) in 2024.

Way forward:

The following are the specific actions to the agreed to have 4 outputs in the Action Plan for the operationalization of the PAs:

A. Human Resource Development of Member States for clinical theranostics

Actions:

- 1) Preparation of curriculum based on IAEA standard curriculum for nuclear medicine professionals.
 - Mr Hatazawa will share the draft of the curriculum to the Consortium for review shortly.
 - After conducting comprehensive survey by IAEA in October 2023 and its review, IAEA will conduct introductory Workshop.
 - Online/Virtual training packages to be prepared by Dr Watabe (Osaka University) by the end of 2023, which will be prerequisites for the in-person/in-depth hands-on training based on the curriculum.
 - Hands-on RTC will be organized in 2024 (by December 2024) as 5-day training for medical doctors.
- 2) Fellowships towards specialization for young medical professionals to be implemented in line with regional workplans of forthcoming projects in 2024-2025.
- 3) Scientific Visits and RTCs planned in the forthcoming projects will be allocated to the appropriate Consortium members after the survey review.

B. Developing of teleradiology for the Pacific Islands.

Actions:

Stage 1 (2023-2026): Focusing on processing and interpretation of mobile/portable diagnostic instruments for the 7 Member States in Pacific Islands and forthcoming countries, to include:

- Scientific Visit to Tohoku University to assess the status of teleradiology with centres in the area (to be led by Dr Takase, Tohoku University).
- Deployment of expertise from Japan to Member States for on-site mentoring, considering retired medical doctors/professionals as well as exchange program of young doctors/professionals.
- Mobilizing support from FUJIFILM on providing X-ray and ultrasound machines.
- Installation/operationalization of system for teleradiology from TCP and supplementary support that could be mobilized from Japan.

Stage 2 (2026-2027+): To cover advance imaging capabilities in time when the Pacific Islands have upgraded/obtained their technological capabilities in their hospitals.

C. Improving access to radiopharmaceuticals for Theranostics



Actions:

- capacity building for people involved in theranostic radiopharmaceuticals production and quality control, such as Scientific Visits/Fellowships to reactor or Cyclotron facilities and 1-2 RTC per year (possible hosts on radiolabelling training course: National Cancer Center, Osaka University, Tohoku University and Hokkaido University).

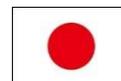
D. Rays of Hope Regional Anchor Centre

Actions:

- A Letter of Intent addressed to the Director General, stating the Consortium is willing to be a Rays of Hope Anchor Centre (*handed by Prof. Hatazawa on 7 July 2023*).
- National Cancer Center will be the regional hub of the Consortium for Rays of Hope Anchor Centre.

Annex I: Overview of the Current Capabilities and Specialization of the CUJ

Name of University/Institution	Specialization									
	Oncology	Cardiology	Neurology/Brain Imaging	Inflammation	Rad Therapy	NM technology	PET chemistry	Nuclear Physics	diagnostic Radiology	Rad Protection & Safety
Osaka University Graduate School of Medicine	○		○	○	○	○	○	○		
Fujita Health University School of Medicine	○	○	○							
Hokkaido University Graduate School of Medicine	○	○	○		○					
International University of Health and Welfare	○		○							
Kanazawa University Institute of Medical, Pharmaceutical and Health Sciences	○	○	○		○					
Kyoto University Hospital	○	△	○	○	△				○	
National Cancer Center	○				○	○			○	
Southern Tohoku Research Institute for Neuroscience	○		○		○		○			
Tohoku University Graduate School of Medicine	○	○	○				○			○
Kagawa University	○			○						
Shonan Kamakura General Hospital	○	○	○	○	○					



Annex II: List of Participants

Name	Affiliation
Jane Gerardo-Abaya	IAEA
Enrique Estrada-Lobato	IAEA
Koichi Watanabe	IAEA
Jun Hatazawa	Osaka University Graduate School of Medicine
Tadashi Watabe	
Takako Ichiba	
Hiroshi Toyama	Fujita Health University School of Medicine
Yuna Kamiya	
Naoko Nagata	
Kenji Hirata	Hokkaido University Graduate School of Medicine
Shigeru Kiryu	International University of Health and Welfare
Technician	
Office staff	
Seigo Kinuya	Kanazawa University Institute of Medical, Pharmaceutical and Health Sciences
Yuji Nakamoto	Kyoto University Hospital
Hirofumi Fujii	National Cancer Center
Kimiteru Ito	
Takahiro Morita	
Anri Inaki	Southern Tohoku Research Institute for Neuroscience
Hiroshi Matsuda	
Kei Takase	
Kentaro Takanami	Tohoku University Graduate School of Medicine
Hiroshi Watabe	
Manabu Tashiro	
Yoshihiro Nishiyama	Kagawa University
Yuka Yamamoto	
Shigehiko Terada	Shonan Kamakura General Hospital
Rumi Nakashima	