

# The Consortium of Universities and Institutions in Japan (CUIJ) の紹介



The Consortium of Universities and Institutions in Japan(CUIJ)

京都大学大学院医学研究科  
放射線医学講座(画像診断学・核医学)  
中本裕士

2018年

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# IAEA Signs Agreement with Consortium of 11 Japanese Institutions to Support Training in Nuclear Medicine

59/2018

Vienna, Austria

NOV  
30  
2018



## 日本側11施設

- 北海道大学
- 東北大学
- 総合南東北病院
- 国際医療福祉大学
- 東京医科歯科大学
- 国立がん研究センター
- 国立精神神経医療研究センター
- 金沢大学
- 藤田医科大学
- 京大病院
- 大阪大学

# 目的と背景

- 世界で年間3,500万件以上の核医学検査が実施され、がん・心疾患・神経変性疾患の診断に利用
- 多くの国では専門人材の育成体制が不足しており、早期診断のための画像技術研修が不可欠
- 日本の核医学分野の専門性を活用し、国際的な人材育成と医療水準向上を支援



## IAEA と日本11機関の協定概要

- IAEA は日本の11大学・研究機関と核医学人材育成に関する Practical Arrangement を締結
- 非感染性疾患(腫瘍のほか、アルツハイマー病・パーキンソン病など)の診断に不可欠な画像診断の研修機会を、加盟国向けに拡大
- 臨床実践・研究支援、継続教育、核医学カリキュラム開発を日本機関と連携して強化



PRACTICAL ARRANGEMENTS

between

THE INTERNATIONAL ATOMIC ENERGY AGENCY

and

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  
National Center of Neurology and Psychiatry  
Southern TOHOKU Research Institute for Neuroscience  
Tohoku University Graduate School of Medicine  
Tokyo Medical and Dental University

on

COOPERATION IN

Supporting the IAEA Technical Cooperation Programmes for Human Resources Development in Nuclear Medicine

## 2019年に開催されたイベント

- ワークショップ(4件)
  - 1) Workshop-Hands on-Nuclear neurology  
2019年7月29日- 8月2日(国立精神・神経医療研究センター, 松田博史)
  - 2) Workshop / hands on training on Cardiac multimodality imaging  
2019年9月30日- 10月4日(北海道大学, 志賀哲)
  - 3) Workshop on Paediatric Nuclear Medicine with Focus on Paediatric Oncology  
2019年12月2日- 12月6日(金沢大学, 絹谷清剛)
  - 4) Workshop on PET/CT and PET/MRI for Radiotherapy Treatment Planning  
2019年12月9日- 12月13日(国立がん研究センター, 藤井博史)
- 観察(3件)
  - 1) Scientific Visit on Neurology  
2019年7月22日- 2019年7月26日(国立精神・神経医療研究センター, 松田博史)
  - 2) Scientific Visit on Hybrid imaging  
2019年11月4日- 2019年11月8日(東北大学・総合南東北病院, 高瀬圭, 高浪健太郎, 田代学, 渡部浩司, 高井良尋, 石渡喜一)
  - 3) Scientific Visit on QA/QC of equipment and Hot-Lab Management for Nuclear Medicine Technologists  
2019年11月25日- 2019年11月29日(金沢大学, 絹谷清剛)

## 2021, 2022年にオンラインで開催されたイベント

- 研修・ワークショップ(3件)
  - 1) Training Course on PET/CT in Oncology Including the FDG and non- FDG PET/CT Imaging of PSMA and DOTATATE  
2021年9月27日 - 9月30日 (京都大学, 中本裕士)
  - 2) Workshop on Cardiac SPECT, SPECT/CT and PET/CT in Clinical Practice including image processing and interpretation  
2021年11月2日 - 11月6日 (藤田医科大学, 外山宏)
  - 3) Regional Training Course on Paediatric Nuclear Medicine and Theranostics  
2022年9月5日 - 9月9日 (京都大学, 中本裕士)

## 2021, 2022年にオンラインで開催されたイベント

- 研修・ワークショップ(3件)

- 1) Training Course on PET/CT in Oncology Including the use of PSMA and DOTATATE

2021年9月27日 - 9月30日 (京都大学, 中本裕士)

- 2) Workshop on Cardiac SPECT, SPECT/CT and PET processing and interpretation

2021年11月2日 - 11月6日 (藤田医科大学, 外山宏)

- 3) Regional Training Course on Paediatric Nuclear Medicine

2022年9月5日 - 9月9日 (京都大学, 中本裕士)



### DRAFT PROGRAMME

### International Atomic Energy Agency

Regional Training Course (RTC) on Paediatric Nuclear Medicine and Theranostic

5 to 9 September 2022  
Kyoto, Japan

Project Officer:

Pr Francesco Giammarile, MD  
Nuclear Medicine and Diagnostic Imaging Section  
Division of Human Health, IAEA  
E-mail: [F.Giammarile@iaea.org](mailto:F.Giammarile@iaea.org)

Ms Mio Kato  
Programme Management Officer.  
Department of Technical Cooperation, IAEA.  
E-mail: [m.kato@iaea.org](mailto:m.kato@iaea.org)

Local Director

Pr. Yuji Nakamoto, MD, PhD  
Department of Diagnostic Imaging and Nuclear Medicine  
Graduate School of Medicine Kyoto University  
54 Shogoinkawahara-cho, Sakyo-Ku,  
Kyoto 606-8507 Japan

## Online Training Course (2021/9/27-30)

### 1st Day, 27 September (Monday)

<https://kyoto-u-edu.zoom.us/j/86233552942?pwd=NTZaT2xjakd3Y282eDVYRmRLc01oZz09>

15:00-15:05	Opening remarks	Pr. Susumu Miyamoto Kyoto University Hospital
15:05-15:30	Administrative matters and presentation of the course	Pr. Francesco Giammarile, IAEA
Section I: Technological Aspects		
15:30-15:45	(111) Imaging techniques	Dr. Kristoff Muylle
15:45-16:00	(112) Radiopharmaceuticals 1: FDG	Pr. Francesco Giammarile
16:00-16:15	(113) Radiopharmaceuticals 2: non-FDG	Pr. Francesco Giammarile
16:15-16:30	(114) PET and Radiotherapy	Pr. Francesco Giammarile
16:30-17:15	Discussion and remarks	Experts (FG-KM)
17:15-17:30	Coffee Break	
Section II: Endocrinology		
17:30-17:45	(121) Clinician expectation	Dr. Shigemi Matsumoto
17:45-18:00	(122) PET/CT in NET	Dr Thomas Mognetti
18:00-18:15	(123) PET/CT in thyroid and parathyroid	Pr. Francesco Giammarile
18:15-19:00	Discussion and remarks End of the day	Experts (SM, TM, FG)

## Online Training Course (2022/9/5-9)

### Day 1: September 5, 2022 (Monday)

<https://kyoto-u-edu.zoom.us/j/84515512732?pwd=cXdlTXRta2ZOSnZueHI1S3lVTC94Zz09>

<b>JST</b> 13:00 – 14:00	Welcome Background information on the <u>course</u> ; Pre-test assessment <a href="https://forms.gle/o6ezDxXCesx6gybFA">https://forms.gle/o6ezDxXCesx6gybFA</a>	Francesco Giammarile, Yuji Nakamoto
	Self-introduction of participants	All Participants
Paediatric Nuclear Medicine – part 1		
14:00 – 14:30	Introduction to paediatric nuclear medicine (setting up a paediatric nuclear medicine service)	Zvi Bar-Sever
14:30 – 15:00	Clinical aspects: the limping child	Takeshi Yoshida
15:00 – 15:30	Nuclear medicine and the limping child	Zvi Bar-Sever
15:30 – 15:35	General discussion	All Participants
15:35 – 15:45	Break	

### Day 4: September 8, 2022 (Thursday)

WFNMB meeting @International Conference Hall			
15:40 – 17:10	Room1	Symposium 1 [PSMA]	Yuji Nakamoto, Ken Herrmann
15:40 – 17:10	Room2	Read with experts [paediatric]	Zvi Bar-Sever

No lectures will be held at Kyoto University on this day.

- ✓ 2019年 活動開始  
(Workshop 4回、Scientific visit 3回)
- ✓ 2020年は新型コロナウイルス感染症のため、イベント中止
- ✓ 2021, 2022年 オンラインで再開
- ✓ 2023年 契約更新(2施設辞退、2施設追加)

### 日本側11施設

- 北海道大学
- 東北大学
- 総合南東北病院
- 国際医療福祉大学
- 国立がん研究センター
- 金沢大学
- 藤田医科大学
- 京大病院
- 大阪大学
- 香川大学\*
- 湘南鎌倉総合病院\*

\*更新時に追加



Consortium of  
Universities and  
Institutions in Japan

更新

### PRACTICAL ARRANGEMENTS

between

THE INTERNATIONAL ATOMIC ENERGY AGENCY

and

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

on

### COOPERATION IN THE AREA OF

SUPPORTING THE IAEA TECHNICAL COOPERATION  
PROGRAMME FOR HUMAN RESOURCES DEVELOPMENT IN  
NUCLEAR MEDICINE AND IN THE FRAMEWORK OF IAEA'S RAYS  
OF HOPE INITIATIVE

# The Second Coordination Meeting of the Practical Arrangements between IAEA and CUIJ



3-4 July 2023

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



## AGREEMENT

between

THE INTERNATIONAL ATOMIC ENERGY AGENCY

and

THE FUKUSHIMA MEDICAL UNIVERSITY,  
on behalf of 16 Japanese Institutes,  
concerning

## THE DESIGNATION

as

an "INTERNATIONAL ATOMIC ENERGY AGENCY  
COLLABORATING CENTRE - ANCHOR CENTRE"



グロッシー事務局長出席のもと、11施設よりなるCUIJと、放射線治療の5施設(群馬大、埼玉医大、福島医大、QST、がん研有明病院)を追加した16施設を日本アンカーセンターとして **Rays of Hope** を形成<sub>10</sub>

施設名	Specialization											
	Oncology	Cardiology	Neurology	Inflammation	Rad Therapy	NM technology	PET chemistry	Nuclear Physics	brain imaging	diagnostic Radiology	Rad Protection & Safety	
大阪大学	○		○	○	○	○	○	○				
藤田医科大学	○	○	○						○			
北海道大学	○	○	○		○				○			
国際医療福祉大学	○								○			
金沢大学	○	○	○		○							
京都大学病院	○	△	○	○	△				○	○		
国立がんセンター	○				○	○				○		
総合南東北病院	○		○		○		○		○			
東北大学	○	○	○				○		○		○	
香川大学	○			○								
湘南鎌倉総合病院	○	○	○	○	○							11

施設名	HR Development to host in Japan (FY2024)			
	Workshop/Training Course	Fellowship (-6 months)	Scientific Visit (-2 weeks)	Suggested field/area
大阪大学	○ (1 event/year) Autumn-Winter	△(Consultation required)	○ (1-2 visits/year) Autumn-Winter	Neurology, Oncology, Chemistry, Technogogy
藤田医科大学	○ (1 event/year) April-June		○ (1-2 visits/year) April-June; 2-4 people	
北海道大学	○ (1 event/year) Summer-Autumn	○ (1 fellow/year)	○ (1-2 visits/year) 1 week; 5 people	Neurology, Oncology, Artificial intelligence
国際医療福祉大学			○ (1 visit/year) a few people	
金沢大学	○ (1 event/year)		○ (1-2 visits/year) a few people	
京都大学病院			○ (1 visit/year)	
国立がんセンター			○ (1 event/year)	
総合南東北病院			○ (1 visit/year) a few people, assistance to Tohoku Univ	
東北大学	×		○ (up to 6 visits/year) 1 week	
香川大学		△(Consultation required)	○ (1-2 visits/year) 1 week; 3 people	Oncology
湘南鎌倉総合病院	○ (1 event/year)		○ (1 visit /year) a few people	

## 2024年に開催されたイベント

### 研修・ワークショップ(2件)

#### 1) Regional Training Course on Streamlined and Emerging Theranostics Techniques Event Reference

2024年8月5日～9日 (湘南鎌倉総合病院)

15か国(バングラデシュ, カンボジア, イラク, ヨルダン, クウェート, マレイシア, モンゴル, オマーン, フィリピン, サウジアラビア, シンガポール, タイ, UAE, ベトナム, イエメン)より、19人参加

#### 2) Regional Workshop on Best Practices in Centers of Excellence for Nuclear Medicine Radiology and Radionuclide Therapy

2024年10月28日～11月1日 (京都大学・大阪医科大学・大阪大学)

ARASIA構成諸国6か国(イラク, ヨルダン, クウェート, レバノン, カタール, UAE, イエメン)より、6人参加

# 2024年に開催された

## 研修・ワークショップ(2件)

### 1) Regional Training Course on Streamlined and Emerging Therapies

2024年8月5日～9日 (湘南鎌倉総合病院)

15か国(バングラデシュ, カンボジア, イラク, ヨルダン, クウェート, ピン, サウジアラビア, シンガポール, タイ, UAE, ベトナム,

### 2) Regional Workshop on Best Practices in Centers of Excellence for Nuclear Medicine and Radionuclide Therapy

2024年10月28日～11月1日 (京都大学・大阪医科大学)

ARASIA構成諸国6か国(イラク, ヨルダン, クウェート, レバノン,



## International Atomic Energy Agency

Regional Workshop on Best Practices in Centers of Excellence for Nuclear Medicine Radiology and Radionuclide Therapy

28 October to 1 November 2024  
Kyoto & Osaka, Japan

Programme Management Officer & Technical Officer:

Ms. Linda Eid  
Programme Management Officer  
Asia and the Pacific Section 2, Division for Asia and the Pacific  
Department of Technical Cooperation; IAEA.  
E-mail: [L.Eid@iaea.org](mailto:L.Eid@iaea.org)

Ms. Diana Paez / Mr. Enrique Estrada Lobato  
Section Head / Nuclear Medicine Physician  
Nuclear Medicine and Diagnostic Imaging Section  
Division of Human Health. IAEA  
Department of Nuclear Science and Applications  
E-mail: [D.Paez@iaea.org](mailto:D.Paez@iaea.org) / [E.Estrada-Lobato@iaea.org](mailto:E.Estrada-Lobato@iaea.org)

Local Directors:

Mr. Yuji Nakamoto  
Department of Diagnostic Imaging and Nuclear Medicine  
Graduate School of Medicine, Kyoto University  
[ynakamo1@kuhp.kyoto-u.ac.jp](mailto:ynakamo1@kuhp.kyoto-u.ac.jp)

and

Mr. Noriyuki Tomiyama  
Department of Radiology, Graduate School of Medicine, Osaka University  
Email: [tomiyama@radiol.med.osaka-u.ac.jp](mailto:tomiyama@radiol.med.osaka-u.ac.jp)

## 2025年に開催されたイベント

### ワークショップ(1件)

#### 1) Regional Training Course on Quality and Radiation Safety in Diagnostic Radiology

2025年8月4日～8月8日 (国際医療福祉大学)

SAPI加盟国(バヌアツ, フィジー, モルディブ, パプアニューギニア, トンガ, サモア, マーシャル諸島)および IAEA-TC非加盟国(ブータン)より、17人参加

### 視察・研修(3件)

#### 1) TC Group Scientific Visit to update on the appropriate use of Theranostics in the Asia-Pacific region

2025年9月23日～9月26日 (京都大学・藤田医科大学・大阪大学)

5か国(レバノン, タイ, インドネシア, ベトナム, フィリピン)より、5人参加

#### 2) TC FE 1 month x 1 person from the 3rd center

2025年10月1日～10月31日 (藤田医科大学)

1か国(タイ)より、1人参加

#### 3) TC Fellowship under the Rays of Hope Initiative for 2025 / TC Fellowship on SPECT-CT Operation

2025年9月1日～11月25日, 2025年10月1日～10月31日 (北海道大学)

1か国(モンゴル)より、各期間1人(計2名)参加

# 湘南鎌倉総合病院で開催された時の理解度チェック

Please choose the answer from a to e for the following questions.

Q1 Which of the following is an incorrect description regarding "theranostics"?

- (1) In order to provide better treatment, it is important to evaluate the efficacy and safety, and improve treatment after it.
- (2) One radioactive drug to identify and a second radioactive drug to deliver therapy
- (3) a two-pronged approach to diagnosing and treating cancers through the use of radiotracers
- (4) the combination of radionuclide imaging and radiation therapy
- (5) the combination of both therapeutics and diagnostics in one package for image-guided therapy

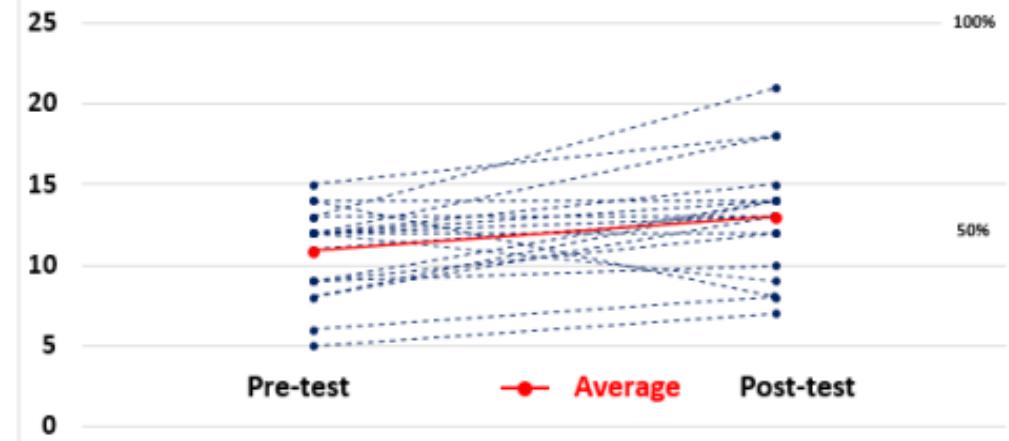
1. How useful for your professional activity did you find this event?

[More Details](#)

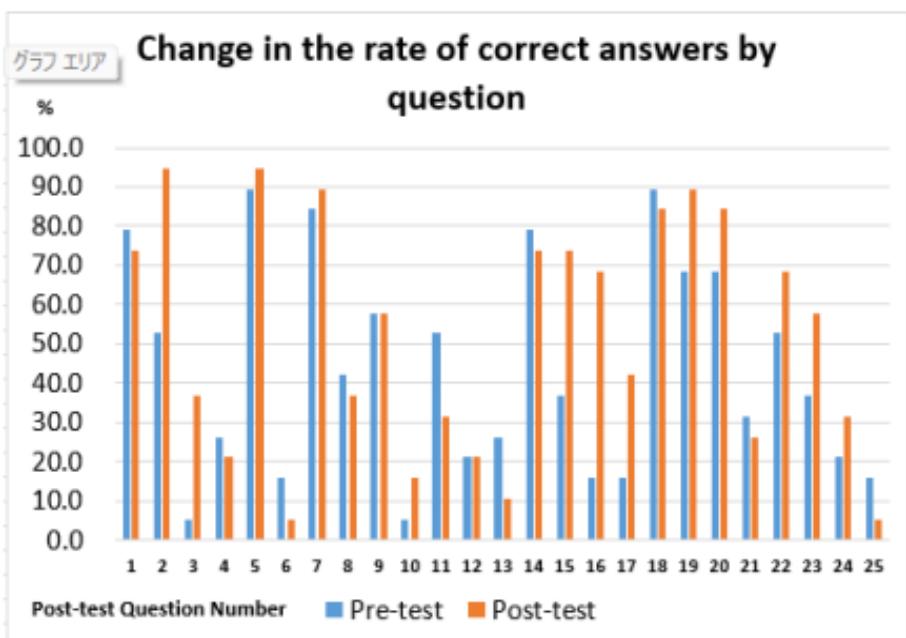
Extremely Useful	15
Useful	4
Fairy Useful	0
Not Useful	0



Change in the test scores before and after the training



Change in the rate of correct answers by question





2024年8月 湘南鎌倉総合病院

# 2024年10月の Regional Workshop 京大・阪大



# 2024年10月の Regional Workshop 京大・阪大



KUHP



大阪大学

This is to certify that

participated in and completed

**The IAEA-ARASIA Regional Workshop on Best Practices in  
Centers of Excellence for Nuclear Medicine Radiology and  
Radionuclide Therapy in Kyoto and Osaka in 2024**

held from 28 October to 1 November 2024

The Workshop was organized by the International Atomic Energy Agency (IAEA) in the framework of technical cooperation project RAS6102 "Strengthening Capabilities in Nuclear Medicine, Radiation Oncology, and Radiopharmaceutical Production for Diagnostics and Treatment of Cancer and Non-Communicable Diseases (ARASIA)" and hosted by the Government of Japan through Kyoto University Hospital and Osaka University.

The Workshop fostered a culture of excellence and innovation in the field of nuclear medicine and theranostics by bringing together professionals of ARASIA with Kyoto University Hospital, Osaka University, and other institutes that are members of the 11 Consortia of University and Institutes of Japan (CUIJ), in alignment with the IAEA's Rays of Hope initiative.

*Yuji Nakamoto*

Yuji Nakamoto, MD, PhD.  
Professor / Chairman  
Department of Diagnostic  
Radiology, Kyoto University  
Hospital

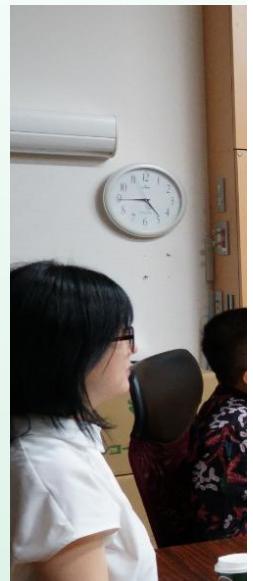
*Noriyuki Tomiyama*

Noriyuki Tomiyama, MD, PhD.  
Professor / Chairman  
Department of Radiology,  
Graduate School of Medicine,  
Osaka University

# 2025年9月 3施設(京大・藤田医科大・阪大)における Scientific Visit



# 2025年9月 3施設(京大・藤田医科大・阪大)における Scientific Visit



This is to certify that

.....  
participated in and completed

**RAS6106 - EVT2502640: TC Group Scientific Visit to update on the appropriate use of  
Theranostics in the Asia-Pacific region in Kyoto, Toyoake, and Osaka in 2025**

held from 23 to 26 September 2025

The Group Scientific Visit was organized by the International Atomic Energy Agency (IAEA) and hosted by the Government of Japan through Kyoto University Hospital, Fujita Health University, and the University of Osaka.

The visit aimed to enhance knowledge and promote collaboration in the field of nuclear medicine in the Asia-Pacific region, in line with the IAEA's Rays of Hope initiative, with the participation of experts from member institutions of the 11 Consortia of Universities and Institutes of Japan (CUIJ).

Yuji Nakamoto, MD, PhD.  
Professor / Chairman  
Department of Diagnostic Radiology,  
Kyoto University Hospital

Hiroshi Toyama, MD, PhD  
Designated Clinical Professor  
Department of Radiology,  
Fujita Health University Hospital

Noriyuki Tomiyama, MD, PhD.  
Professor / Chairman  
Department of Radiology,  
Graduate School of Medicine, Graduate School of  
Medicine, the University of Osaka



# 今後予定されている CUIJ 関連イベント

Regional Training Course on Clinical Best Practice of Theranostics  
2026年3月23日～26日 香川大(西山佳宏・山本由佳)にて開催予定

## Overall Programme (Tentative)

Time / Note	23rd March 2026 Takamatsu	24th March 2026 Kagawa Umi's Hospital-Tour	25th March 2026 Takamatsu	26th March 2026 Takamatsu
09:00-10:00	Orientation by CUIJ Pre-examination	Bus Transportation	Lecture#7 Dr. Shimizu (Theranostics: radiopharmaceuticals)	Presentation Session#1 (4-5 persons/h)
10:00-11:50	IAEA Presentation & Q&A #Dr. Estrada-Lobato (Rays of Hope Initiative of IAEA)	Lecture#4 Dr. Inoue (Radiation protection perspective of theranostics)	Lecture#8 Dr. Ito (Theranostics:DOTATATE)	Presentation Session#2 (4-5 persons/h)
11:00-12:00	Lecture#1 Dr. Higashi (Introduction - Radiotheranostics in Japan-)	Lecture#5 Dr. Hirata (Theranostics:PSMA)	Lecture#9 Dr. Hatazawa (Theranostics: RI production and supply)	Presentation Session#3 (4-5 persons/h)
12:00-13:00	Lunch	Lunch	Lunch	Lunch
13:00-14:00	Lecture#2 Dr. Kinuya (Theranostics: Iodine)	Lecture#6 Dr. Nakajo (Theranostics: MIBG)	Lecture#10 Dr. Nakamoto (Let's enjoy the PET cases together. -Interactive session-)	Presentation Session#4 (4-5 persons/h)
14:00-15:00	Lecture#3 Dr. Watabe (Theranostics: Targeted alpha therapy)	Technical Visit to Kagawa University Hospital	Discussion Session#2 (Moderated by Dr. Estrada-Lobato)	Presentation Session#5 (4-5 persons/h)
15:00-16:00	Discussion Session #1 (Moderated by Dr. Estrada-Lobato)		Post-examination	Presentation Session#6 (4-5 persons/h)
16:00-17:00		Bus Transportation	Closing Ceremony	
Reception				✓
Note	Each Q&A session pertaining to the respective lecture will be available, and which is to be moderated by Dr. Estrada-Lobato			