



# **Interregional Training Course on Theranostics including Quality of Practice**

Hosted by

**The Government of the United States of America  
through Argonne National Laboratory**

**Houston, Texas, United States of America**

**31 July to 4 August 2023**

**Ref. No.: TN-INT6063-2301054**

## **Information Sheet**

### **Purpose**

The purpose of the event is to train the participants on consolidated approaches in diagnostic and therapeutic nuclear medicine to enhance the quality of practices.

### **Working Language**

The working language of the event will be English.

### **Deadline for Nominations**

Nominations received after **27 April 2023** will not be considered.

## **Project Background**

The interregional training course covers the fundamental principles and application of diagnostic and therapeutic nuclear medicine (theranostics), specifically, nuclear medicine techniques in the management of thyroid cancer, neuroendocrine tumours, prostate cancer, and other cancer types. These lectures should provide theoretical grounding in the improvement of nuclear medicine services. The experts will discuss the clinical utility and relative value with emphasis on the protocols to be used in the above conditions which will be one of the core learning points of this interregional training course. Lectures and interactive discussion sessions covering approaches in Theranostics and Quality Management from streamlined and emerging approaches should provide theoretical grounding in the improvement of theranostic nuclear medicine services to achieve the following:

- a) Review the different established and emerging diagnostic and therapeutic nuclear medicine protocols and nuclear techniques in the evaluation and management of thyroid cancer, neuroendocrine tumours, prostate cancer, and other cancer types using well known and novel radiopharmaceuticals.
- b) Comprehensive knowledge of epidemiology, causes, risk factors, clinical manifestations/symptoms in thyroid cancer, prostate cancer, and others.
- c) Differentiate and analyse the different protocols used in theranostic nuclear medicine procedures including the role of hybrid imaging and quality management.
- d) Explore the role of targeted radionuclide therapies into the clinical practice in IAEA Member States.
- e) Comprehensive knowledge of the different medical aspects of diagnostic imaging with focus on hybrid imaging, as well as targeted radionuclide therapy, including quality management programmes and auditing.

## **Scope and Nature**

The interregional training course consists of lectures and interactive discussion sessions on the different aspects involved in Theranostics and Quality Management.

The expected output is that participants will gain knowledge on the importance of theranostics as a way to continuously improve the effectiveness and efficiency in a nuclear medicine department, understanding the different aspects involved in carrying out these procedures, and how to conduct them in a highly professional manner.

## **Participation**

The interregional training course is open to 25 participants from countries in Africa, Asia and the Pacific, Europe and Latin America and the Caribbean. Each Member State may submit up to two nominations.

## Participants' Qualifications and Experience

The nominees should be qualified nuclear medicine physicians or radiologists, with background in diagnostic and therapeutic nuclear medicine applications.

As the interregional training course will be conducted in English, participants should have sufficient proficiency to follow lectures and express themselves in this language without difficulty.

## Application Procedure

Candidates wishing to apply for this event should follow the steps below:

1. Access the InTouch+ home page (<https://intouchplus.iaea.org>) using the candidate's existing Nucleus username and password. If the candidate is not a registered Nucleus user, she/he must create a Nucleus account (<https://websso.iaea.org/IM/UserRegistrationPage.aspx>) before proceeding with the event application process below.
2. On the InTouch + platform, the candidate must:
  - a) Finalize or update her/his personal details, provide sufficient information to establish the required qualifications regarding education, language skills and work experience ('Profile' tab) and upload relevant supporting documents.
  - b) Search for the relevant technical cooperation event (**EVT2301054**) under the 'My Eligible Events' tab, answer the mandatory questions and lastly submit the application to the required authority.

**NOTE:** Completed applications need to be approved by the relevant national authority, i.e. the National Liaison Office, and submitted to the IAEA through the established official channels by the provided designation deadline.

For additional support on how to apply for an event, please refer to the [InTouch+ Help page](#). Any issues or queries related to InTouch+ can be addressed to [InTouchPlus.Contact-Point@iaea.org](mailto:InTouchPlus.Contact-Point@iaea.org).

Should online application submission not be possible, candidates may download the nomination form for the training course from the [IAEA website](#).

**NOTE:** A medical certificate signed by a registered medical practitioner dated not more than four months prior to starting date of the event must be submitted by candidates when applying for a) events with a duration exceeding one month, and/or b) all candidates over the age of 65 regardless of the event duration.

## **Administrative and Financial Arrangements**

Nominating authorities will be informed in due course of the names of the candidates who have been selected and will at that time be informed of the procedure to be followed regarding administrative and financial matters.

Selected participants will receive an allowance to cover their costs of lodging, daily subsistence and miscellaneous expenses. They will also receive either a round-trip air ticket based on the most direct and economical route between the airport nearest their residence and the airport nearest the duty station.

## **Disclaimer of liability**

The organizers of the event do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability, or death of a participant while he/she is travelling to and from or attending the course, and it is clearly understood that each Government, in approving his/her participation, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.

## **Note for female participants**

Any woman engaged by the IAEA for work or training should notify the IAEA on becoming aware that she is pregnant.

The Board of Governors of the IAEA approved new International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources. The Standards deal specifically with the occupational exposure conditions of female workers by requiring, inter alia, that a female worker should, on becoming aware that she is pregnant, notify her employer in order that her working conditions may be modified, if necessary. This notification shall not be considered a reason to exclude her from work; however, her working conditions, with respect to occupational exposure shall be adapted with a view to ensuring that her embryo or foetus be afforded the same broad level of protection as required for members of the public.

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