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国际原子能机构

International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

Organismo Internacional de Energía Atómica

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2016-10-03

**Subject:** Invitation to a Regional Training Course on Nuclear Medicine: Update on State of the Art Infection/Inflammation Imaging, Rome, Italy, 12-14 December 2016

Dear National Liaison Officer,

I am pleased to invite you to send nominations of suitable candidates to participate in the above-mentioned training course under the framework of TC Project RER/6/035 – Strengthening Single Photon Emission Computed Tomography/Computed Tomography (SPECT/CT) and Positron Emission Tomography (PET/CT) Hybrid Imaging Applications for Diagnosis of Chronic Diseases, including Cancer. The purpose of the training course and related information are outlined in the attached Prospectus.

For candidates who are selected by the IAEA, the IAEA will cover the cost of return international travel from the home country to Rome and Italy and provide a stipend for the duration of the training course in line with IAEA rules and procedures.

Please submit nominations to the IAEA online through the Technical Cooperation Department's InTouch system (<http://intouch.iaea.org>). Only if this is not possible, nominations may be submitted on the Nomination Form for Training Course available on the IAEA website: <http://www.iaea.org/technicalcooperation/How-to-take-part/train-course/index.html>. Completed forms should be endorsed by relevant national authorities and sent to the Programme Management Officer for this project, Ms Mayumi Yamamoto (IAEA Official Fax: +43-1-26007 or E-Mail [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org)), through the official channels, i.e. the designated National Liaison Office for IAEA matters, not later than **24 October 2016**.

Yours sincerely,

Martin Krause  
Director  
Division for Europe  
Department of Technical Cooperation

Enclosure: Prospectus

## International Atomic Energy Agency

### Regional Training Course on Nuclear Medicine: Update on State of the Art Infection/Inflammation Imaging

#### PROSPECTUS

- Project Number & Title:** RER/6/035 Strengthening Single Photon Emission Computed Tomography/Computed Tomography (SPECT/CT) and Positron Emission Tomography (PET/CT) Hybrid Imaging Applications for Diagnosis of Chronic Diseases, including Cancer
- Place (City, Country):** Rome, Italy
- Dates:** 12-14 December 2016
- Deadline for Nominations:** 24 October 2016
- Organizers:** The International Atomic Energy Agency (IAEA) in cooperation with the Government of Italy through The Sapienza University of Rome, Italy.
- Host Country Organizer:** Mr Alberto Signore  
The Sapienza University of Rome  
Department of Medical-Surgical Sciences and Translational Medicine  
Rome 00185  
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Tel.: 0039 06 3377 5471  
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- Mr Marco Chianelli  
President of Nuclear Medicine Discovery Association  
E-mail: [info@nuclearmedicinediscovery.org](mailto:info@nuclearmedicinediscovery.org)
- Language:** English
- Purpose:** The training course will provide theoretical and practical training in state of the art of hybrid imaging including the use of SPECT/CT and PET/CT technology for the modern management of Infection and Inflammatory conditions.

This year we are aiming at providing an advanced understanding of images in infection with particular emphasis to hybrid images (SPECT/CT, PET/CT and PET/MR). Indeed, each topic will have a dedicated "read with the expert" session in which both a Radiologist and a Nuclear Medicine physician will read hybrid images and several clinical cases with the audience, in an interactive way.

In addition, we will have "keynote lectures" from highly experienced lecturers from all over the world aiming at providing an advanced understanding of images in infection with particular emphasis to hybrid images (SPECT/CT, PET/CT and PET/MR). Indeed, each topic will have a dedicated "read with the expert" session in which both a Radiologist and a Nuclear Medicine physician will read hybrid images and several clinical cases with the audience, in an interactive way. This year we are aiming at providing an advanced understanding of images in infection with particular emphasis to hybrid images (SPECT/CT, PET/CT and PET/MR). Indeed, each topic will have a dedicated "read with the expert" session in which both a Radiologist and a Nuclear Medicine physician will read hybrid images and several clinical cases with the audience, in an interactive way.

In addition, we will have "keynote lectures" from highly experienced lecturers from all over the world.

**Expected Output(s):**

Participants trained, level of knowledge upgraded. Training material in the form of DVDs will be provided at the end of the course.

**Scope and Nature:**

The training course will provide an advanced understanding of modern state of the art molecular imaging in infection/ inflammation with particular emphasis to hybrid images (SPECT/CT and PET/CT), including an overview of new developments on Cancer Inflammation Imaging. Each topic will have a dedicated "read with the expert" session in which both a Radiologist and a Nuclear Medicine physician will read hybrid images and several clinical cases in an interactive way.

This regional training course will be organized in conjunction with the 2nd European Congress Imaging Infections and Inflammation's Event in Rome, Italy, and selected participants are expected to attend both the hands-on observation course at the Nuclear Medicine Department at Sapienza University as well as the 2nd European Congress Imaging Infection and Inflammation.

[http://www.bnms.org.uk/images/2nd\\_European\\_Congress\\_12\\_-\\_13\\_Dec.pdf](http://www.bnms.org.uk/images/2nd_European_Congress_12_-_13_Dec.pdf)

**Background Information:**

Nuclear medicine/molecular imaging has a strong role to play as molecular imaging is emerging as a new approach for the non-invasive detection of molecular and cellular processes that can identify disease such as infectious and inflammatory conditions before the manifestation of gross anatomic features or physiologic consequences. Application of molecular imaging for early detection of the initiating events associated with disease will be critical for improved understanding of the underlying mechanisms of disease. SPECT/CT and PET/CT are new imaging technologies which couple the metabolic information provided by SPECT and PET with the exquisite anatomical resolution of X-ray CT. Both procedures have already found a number of clinical applications in inflammation / infection imaging. It can already be stated that the synthesis of structural and metabolic information improves the accuracy for detection of inflammation and infectious pathologic processes.

**Participation:** The training course is open to a maximum of 20 participants from countries that participate in the RER/6/035 project and need assistance in training staff on modern techniques for infection and inflammation imaging.

The target countries are: Armenia, Azerbaijan, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Estonia, Georgia, Greece, Hungary, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Montenegro, Poland, Republic of Moldova, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Tajikistan, The former Yugoslav Republic of Macedonia, Turkey, Ukraine and Uzbekistan.

**Participants' Qualification:** The nominees should be qualified Nuclear Medicine Physicians, Nuclear Medicine technologists and Radiologists. Candidates should be working currently in nuclear medicine or radiology departments, with strong commitment to provide hybrid imaging services for infection and inflammation imaging.

**Nomination Procedure:** Nominations should be submitted to the IAEA online through the Technical Cooperation Department's InTouch system (<http://intouch.iaea.org>). Should this not be possible, nominations may be submitted on the standard IAEA Nomination Form for Training Courses (available from the IAEA website: <http://www.iaea.org/>). Completed forms should be endorsed by the relevant national authorities and returned to the Agency through the normal official channels, i.e. the designated National Liaison Office for IAEA matters.

The completed nomination forms should be sent to the Programme Management Officer for this project, Ms Mayumi Yamamoto, through IAEA Official Fax (+43-1-26007) or E-Mail ([Official.Mail@iaea.org](mailto:Official.Mail@iaea.org)), not later than **24 October 2016**. Nominations received after this date or which have not been routed through the established official channels cannot be considered.

**Administrative and Financial Arrangements:** Nominating Governments will be informed in due course of the names of the candidates who have been selected and will, at that time, be given full details of the procedures to be followed with regard to administrative and financial matters.

Selected participants from countries eligible to receive technical assistance will be provided with a round trip economy class air ticket from their home countries to Rome, Italy, and a stipend sufficient to cover the cost of their accommodation, food and minor incidentals. Shipment of accumulated training course materials to the participants' home countries is not the responsibility of the IAEA.

The organizers of the training course 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 nominating participants, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.