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International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

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The Secretariat of the International Atomic Energy Agency (IAEA) presents its compliments to the IAEA's Member States and has the honour to draw their attention to the **International Symposium on Trends in Radiopharmaceuticals (ISTR-2019)** to be held at the IAEA's Headquarters in Vienna, Austria, from **28 October to 1 November 2019**.

The purpose of the symposium is to provide an international forum to scientists and professionals working on the production of radioisotopes and radiopharmaceuticals in order to discuss the most recent developments in the field. Various topics will be covered during the symposium including development, production, and uses of diagnostic, therapeutic, and theranostic radioisotopes and radiopharmaceuticals, as well as regulatory and licensing issues related to their production. Education, certification, and training methodologies will also be addressed.

The symposium will be held in English.

Member States are invited to disseminate the attached Announcement and Call for Papers to the target audience for the symposium and to designate participants using Form A. Member States are strongly encouraged to identify suitable women participants.

The IAEA is generally not in a position to bear the travel and other costs of participants in the symposium. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants. Upon specific request, such assistance may be offered to normally one participant per country, provided that, in the IAEA's view, the participant will make an important contribution to the symposium.

Applications for financial support using Form C, as well as submissions of papers using Form B, can only be considered if received by the deadlines indicated in Section M of the Announcement and Call for Papers.

It should be noted that compensation is not payable by the IAEA for any damage to or loss of personal property. The IAEA also does not provide health insurance coverage for participants in conferences and symposia. Arrangements for private insurance coverage on an individual basis should therefore be made. The IAEA will, however, provide insurance coverage for accidents and illnesses that clearly result from any work performed for the IAEA.

The Secretariat of the International Atomic Energy Agency avails itself of this opportunity to assure the IAEA's Member States of its highest consideration.



2018-12-13

Enclosures: Announcement and Call for Papers

Participation Form (Form A)

Form for Submission of a Paper (Form B)

Grant Application Form (Form C)



International Symposium on Trends in Radiopharmaceuticals (ISTR-2019)

IAEA Headquarters
Vienna, Austria

28 October–1 November 2019

Announcement and Call for Papers

A. Background

Progress in nuclear medicine has always been closely linked to the development of new radiopharmaceuticals and the efficient production of relevant radioisotopes. Radiopharmaceuticals are an important tool for a better understanding of human diseases and for developing effective treatments. The availability of new radioisotopes and radiopharmaceuticals may produce unprecedented solutions to clinical problems by providing a better diagnosis and more efficient therapy.

Impressive progress has been made recently in radioisotope production technologies owing to the introduction of high-energy and high-current cyclotrons and to the growing interest in the use of linear accelerators (linacs) for radioisotope production. This has allowed broader access to several new radionuclides, including gallium-68, copper-64 and zirconium-89. The development of high power electron linacs has resulted in the availability of theranostic beta emitters such as scandium-47 and copper-67. Alternative accelerator-based production methods for technetium-99m, which remains the most widely used diagnostic radionuclide, are also being developed using both electron and proton accelerators.

Special attention has recently been given to alpha-emitting radionuclides for in vivo therapy. A few years ago, the first alpha-emitting radiopharmaceutical, Xofigo, (pharmaceutical grade radium-223 dichloride solution) was approved by the US Food and Drug Administration for cancer treatment. Many other alpha-emitting radiopharmaceuticals based on astatine-211, bismuth-212, bismuth-213, actinium-225, radium-223, lead-212, thorium-227, and terbium-149, are currently being developed. However,

demand for these alpha-emitting radionuclides significantly exceed their supply. Numerous research groups worldwide are working on efficiently producing these much sought after alpha emitters.

The field of radiopharmaceuticals has continuously evolved thanks to the immense contributions of scientists from diverse disciplines, such as radiochemistry, inorganic chemistry, organic chemistry, organometallic chemistry, biochemistry, molecular biology, physiology and pharmacology. Several milestones can be cited in the trajectory of this growth, which include the continuing development of technetium-99m radiopharmaceuticals, automated synthesis of fluorine-18 labelled compounds, radiopharmaceuticals labelled with generator-eluted gallium-68, labelled peptides and monoclonal antibodies for the accurate diagnosis and treatment of tumours. The concept of theranostic radioisotopes, which combines the diagnosis and therapy properties of one radioisotope or a pair of similar radioisotopes, may provide an attractive paradigm for the future development of medical applications of radionuclides. Biomolecules developed for a specific molecular target and labelled with theranostic radionuclides provide clinically significant information for diagnosis, suitability of radionuclide therapy, dosimetry and post therapy planning, making personalized medicine a reality.

B. Purpose and Objectives

The International Symposium on Trends in Radiopharmaceuticals (ISTR-2019) will provide an international forum to scientists and professionals working in the fields of the production of radioisotopes and radiopharmaceuticals in order to discuss its most recent developments. Various topics will be covered during the symposium, including the development, production and uses of diagnostic, therapeutic, and theranostic radioisotopes and radiopharmaceuticals, as well as regulatory and licensing issues related to their production. Education, certification and training methodologies will also be addressed.

The ISTR-2019 will provide an opportunity for chemists, biologists, pharmacists, physicists, medical researchers and other experts in the international community to meet and discuss their most recent work. This meeting will help maintain existing, and establish new, collaborations to address common problems and expand the worldwide use of radiopharmaceuticals.

C. Structure, Themes and Topics

The symposium programme will consist of an opening session, plenary sessions, technical sessions, poster and interactive content sessions, exhibitions, and a closing session. The opening session will include welcoming addresses by representatives of the IAEA, cooperating organizations, and other relevant organizations. The plenary sessions will continue with a combination of invited keynote presentations and submitted papers addressing the main themes and topics of the symposium. Each technical session will include presentations and/or panel discussions delivered by participants which will have been selected based on the abstracts submitted. The symposium will also include poster sessions, and sufficient time will be provided for discussion and interaction with colleagues. The final plenary session on the last day of the symposium will be dedicated to conclusions and recommendations on the way forward.

The scope of the conference covers, but is not limited to, the following topical areas:

- Production of PET- and SPECT-based diagnostic, therapeutic and theranostic medical radioisotopes;
- Production of radionuclide generators;
- Production of PET- and SPECT-based diagnostic, therapeutic, and theranostic radiopharmaceuticals;
- Research and development related to the production of medical radioisotopes and radiopharmaceuticals;
- Quality control and quality assurance of medical radioisotopes and radiopharmaceuticals;
- Pre-clinical evaluation of radiopharmaceuticals;
- Good manufacturing practices for the production of medical radioisotopes and radiopharmaceuticals;
- Design of industrial, hospital and centralized radiopharmacy facilities;
- Health regulatory aspects related to the production of radiopharmaceuticals;
- Radiopharmacy chapters in pharmacopoeias; and
- Education, including e-learning, certification and training methodologies for professionals involved in radiopharmacy.

D. Target Audience

The target audience for this symposium comprises of, but is not limited to: (radio)chemists, (radio)pharmacists, biologists, physicists, technologists, medical researchers, policymakers and health regulators, educators and other professionals working in the fields of the production and uses of medical radioisotopes and radiopharmaceuticals. The IAEA welcomes and encourages the participation of individuals from developing countries, women, and early career professionals, including students.

E. Participation and Registration

All persons wishing to participate in the symposium must be designated by an IAEA Member State or should be members of organizations that have been invited to attend.

In order to be designated by an IAEA Member State, participants are requested to send the following form(s) (as applicable) to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority):

- Participation Form (Form A): participation only; no deadline if only Form A is required.
- Form for Submission of a Paper (Form B): participants submitting a paper through INDICO have to send the completed and signed Form B together with Form A to their competent national authority for transmission to the IAEA (Official.Mail@iaea.org) by **31 January 2019**.
- Grant Application Form (Form C): participants requesting financial support from the IAEA have to complete Form C and send it together with Form A (and Form B, if applicable) to the

competent national authority for transmission to the IAEA (Official.Mail@iaea.org) by **31 January 2019**. Form C must be stamped and signed by the competent national authority.

Participants who are members of an organization invited to attend are requested to send the above form(s) through their organization to the IAEA (Official.Mail@iaea.org).

In addition, participants are requested to pre-register for the symposium online through the IAEA web page: www.iaea.org/events/istr-2019.

Participants who register in accordance with the above procedure will receive further information from the IAEA approximately three months before the opening of the symposium.

F. Abstracts, Poster Presentations, and Proceedings

All papers submitted — other than invited keynote papers — must be original work and should not have been published elsewhere. Persons who wish to present a paper at the symposium — either orally or in the form of a poster — must submit an abstract on one of the topics listed under Section C. The abstract should give enough information on the contents of the proposed paper to enable the Programme Committee to evaluate it. Introductory remarks and general matters should not be included. The accepted abstracts will be reproduced in their unedited form in the electronic compilation of abstracts, which will be distributed to all participants during the symposium.

F.1. Submission of Abstracts

Abstracts must be sent **in electronic format** (no paper copies) directly to the IAEA. Instructions on how to upload the abstracts to the symposium's web browser-based file submission system (INDICO) will be available on the symposium web page (see Section O). The abstracts **must** be submitted through this system by **31 January 2019**. No other form of submission will be accepted.

Submissions should indicate to which of the topics outlined above in Section C it relates and the abstract content should be structured as follows:

- Background/goal/objective of the study;
- Methodology;
- Results and discussion; and
- Conclusion.

The abstract:

- should be a maximum of 500 words (including title);
- should not include more than one figure, graph or table;
- should not include references; and
- must be written and submitted using the abstract template available from the symposium web page (see Section O).

In addition, authors must submit the following two forms to their appropriate governmental authority (see Section E) for transmission to the IAEA. These forms must be received by the IAEA no later than **31 January 2019**:

- Participation Form (Form A); and
- Form for Submission of a Paper (Form B).

IMPORTANT: Abstracts received electronically will only be considered by the Programme Committee if these two forms have been received by the IAEA through the established official channels (see Section E).

Authors should state to which of the topics outlined in Section C their contribution relates.

F.2. Acceptance of Abstracts for Oral or Poster Presentations

Given the number of abstracts anticipated and the need to provide ample time for discussion, a limited number of papers can be accepted for oral presentation. Authors who prefer to present their papers as posters are requested to indicate this preference on Form A and through INDICO.

The Secretariat reserves the right to exclude papers that do not comply with its quality standards and/or that do not apply to one of the topics in Section C above.

Authors will be informed **by the end of February 2019** as to whether their abstracts have been accepted for oral or poster presentation. The abstracts, if accepted by the Programme Committee, will also be reproduced in their unedited form in the electronic compilation of abstracts, which will be distributed to all participants during the symposium.

F.3. Symposium Proceedings

The full papers of the best abstracts must be submitted before the deadline for publication in the Proceedings.

G. Expenditures and Grants

No registration fee will be charged to participants.

The IAEA is generally not able to bear the travel expenses and other costs for participants of the symposium. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants. Such assistance may be offered upon specific request to normally one participant per country provided that, in the IAEA's view, the participant on whose behalf assistance is requested will make an important contribution to the symposium.

If participants wish to apply for a grant, they should submit applications to the IAEA to this effect through their competent national authority. Participants should ensure that applications for grants are:

1. submitted through the competent national authority by **31 January 2019**;
2. accompanied by a completed and signed Grant Application Form (Form C); and
3. accompanied by a completed Participation Form (Form A).

Applications that do not comply with the above conditions cannot be considered.

Approved grants will be issued in the form of a lump sum payment that usually **covers only part of the cost of attendance**.

H. Distribution of Documents

A preliminary programme will be posted on the IAEA web page for the symposium (see Section O) as soon as possible. The final programme and the *Book of Extended Abstracts* will be made available on the symposium web page and the IAEA Symposiums and Meetings app.

I. Exhibitions

A limited amount of space will be available for displays/exhibits during the symposium. Interested parties should contact the Scientific Secretary (see Section N) by email at ISTR2019@iaea.org by **31 March 2019**.

J. Working Language

The working language of the symposium will be English. No interpretation will be provided.

K. Symposium Venue and Accommodation

The symposium will be held at the IAEA's Headquarters in Vienna, Austria. Participants must make their own travel and accommodation arrangements. Hotels offering a reduced rate for symposium participants will be listed on the symposium web page (see Section O). Please note that the IAEA is not in a position to assist participants with hotel bookings, nor can the IAEA assume responsibility for paying cancellation fees or for re-bookings or absences.

Detailed information on accommodation and other relevant matters will be made available on the symposium web page as soon as possible.

L. Visas

Designated participants who require a visa to enter Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria at least eight weeks before they travel to Austria. Designated participants will be required to submit a letter of invitation in support of their visa application.

M. Key Dates and Deadlines

Opening of synopsis/abstract submission through INDICO	1 November 2018
Deadline for the submission of synopses/abstracts through INDICO	31 January 2019
Deadline for the submission of Form for Submission of a Paper (Form B) (together with Form A) through the competent national authority or through InTouch+	31 January 2019
Deadline for the submission of Grant Application Form (Form C) (together with Form A) through the competent national authority or through InTouch+	31 January 2019
Notification of synopsis/abstract acceptance	28 February 2019
Deadline for submission of full papers	TBD
Deadline for the submission of oral presentations, interactive content presentations, and posters	TBD
Registration only (without a paper submission/grant request)	No deadline

N. Symposium Secretariat

General contact details

International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA
Tel.: +43 1 26000
Fax: +43 1 26007
Email: Official.Mail@iaea.org

Scientific Secretary

Mr Joao Osso Junior

Division of Physical and Chemical Sciences
Department of Nuclear Sciences and Applications
Tel.: +43 1 2600 21748
Email: ISTR2019@iaea.org

Administrative Secretary

Ms Julie Zellinger

Division of Conference and Document Services
Department of Management

Tel.: +43 1 2600 21321
Email: IAEA-CSS-Conferences.Contact-Point@iaea.org

Subsequent correspondence on scientific matters should be sent to the Scientific Secretary of the symposium and correspondence on administrative matters to the Administrative Secretary.

O. Symposium Web Page

Please visit the following web page regularly for new information regarding this symposium:
www.iaea.org/events/istr-2019.

Greening

To demonstrate its commitment to sustainability, the IAEA will organize this symposium as a 'green meeting' according to Austrian Ecolabel guidelines.

There will be a focus on the areas of paper smart documentation, waste reduction and recycling, and environmentally friendly catering.

Participation Form

International Symposium on Trends in Radiopharmaceuticals (ISTR-2019)

IAEA Headquarters, Vienna, Austria

28 October–1 November 2019

To be completed by the participant and sent to the competent official authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority) of his/her country for subsequent transmission to the International Atomic Energy Agency (IAEA), Vienna International Centre, PO Box 100, 1400 Vienna, Austria, either electronically by email to: Official.Mail@iaea.org or by fax to: +43 1 26007 (no hard copies needed).

Please attach a passport copy or other document of identification (ID).

Participants who are members of an invited organization can submit this form to their organization for subsequent transmission to the IAEA.

Family name: (e.g. Smith)	First name(s): (e.g. John)	Mr/Ms
Institution:		
Full address:		
Tel:		
Email:		
Nationality:	Representing following Member State/non-Member State/entity or invited organization:	
Do you intend to submit a paper? Yes <input type="checkbox"/> No <input type="checkbox"/> Would you prefer to present your paper as a poster? Yes <input type="checkbox"/> No <input type="checkbox"/> Title:		



Form for Submission of a Paper

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Participants who are members of an invited organization can submit this form to their organization for subsequent transmission to the IAEA.

Deadline for receipt by IAEA through official channels: 31 January 2019

Title of the paper:		
Abstract id in IAEA-INDICO:		
Family name(s) and first name(s) of author(s): e.g. Smith, John (if more than 3, please indicate them in INDICO)	Scientific establishment(s) in which the work has been carried out	City/Country
1.		
2.		
3.		
Family name and first name(s) of author presenting the paper: e.g. Smith, John	Mr/Ms:	
Mailing address:		
Tel (Fax):		

Email:

I hereby agree to assign to the International Atomic Energy Agency (IAEA):

- the copyright; or
- the non-exclusive, world-wide, free-of-charge licence (this option is only for those authors whose parent institution does not allow them to transfer the copyright for work carried out in that institution) granting the IAEA world rights for the use of the aforementioned material in this and any future editions of the publication, in all languages, and in all formats available now, or to be developed in the future (digital formats, hardcopy etc.).

Please note: If granting the licence mentioned above, please supply any copyright acknowledgement text required.

Furthermore, I herewith declare:

- that the material submitted to the IAEA is original, except for such excerpts from copyrighted works as may be included with the permission of the copyright holder thereof, has been written by the stated authors, has not been published before, and is not under consideration for publication by another entity;
- that any permissions and rights to publish required for third-party content, including but not limited to figures and tables, have been obtained, that all published material is correctly referenced; and
- that the material submitted to the IAEA does not contain any libellous or other unlawful statements and does not contain any materials that violate any personal or proprietary rights of any person or entity.

Date:

Signature of main author:

Grant Application Form

International Symposium on Trends in Radiopharmaceuticals (ISTR-2019)

IAEA Headquarters, Vienna, Austria

28 October–1 November 2019

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Deadline for receipt by IAEA through official channels: 31 January 2019

Family name: (e.g. Smith)	First name(s): (e.g. John)	Mr/Ms:
Mailing address:	Tel.:	
	Fax:	
	Email:	
Date of birth (yy/mm/dd):	Nationality:	

1. Education (post-secondary):

Name and place of institution	Field of study	Diploma or Degree	Years attended	
			from	to

2. Recent employment record (starting with your present post):

Name and place of employer/ organization	Title of your position	Type of work	Years worked	
			from	to

3. Description of work performed over the last three years:

4. Institute's/Member State's programme in field of symposium:

Date: Signature of applicant: _____

Date: Name, signature and stamp of Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority _____