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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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In reply please refer to: C7-RER/9/137/001 and  
C7-RER/9/137/002

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2016-06-27

**Subject:** Invitation to Regional Training Courses number 1 and number 2 on the Nuclear and Nuclear Related Techniques for Early and Rapid Detection and Confirmation of Pox Virus Infections in Animals, Vienna, Austria, training course number 1 on 15-19 August 2016, training course number 2 on 22-26 August 2016

Dear National Liaison Officer,

I am pleased to invite you to send nominations of suitable candidates to participate in the above-mentioned training courses under the framework of TC Project RER/9/137 – Enhancing National Capabilities for Response to Nuclear and Radiological Emergencies. The purpose of the training courses 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 Vienna, Austria and provide a stipend for the duration of the training courses 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, Mr Zhang Jing (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 **12 July 2016**.

Yours sincerely,

Martin Krause

Director

Division for Europe

Department of Technical Cooperation

Enclosures: Prospectus

# International Atomic Energy Agency

**Regional Training Course number 1 on the Nuclear and Nuclear Related Techniques for Early and Rapid Detection and Confirmation of Pox Virus Infections in Animals; and**

**Regional Training Course number 2 on the Nuclear and Nuclear Related Techniques for Early and Rapid Detection and Confirmation of Pox Virus Infections in Animals**

## PROSPECTUS

**Project Number & Title:** RER/9/137-Enhancing National Capabilities for Response to Nuclear and Radiological Emergencies  
(Component: Re-enforcing Veterinary Authorities to Respond to Nuclear Emergencies).

**Place (City, Country):** Animal Production and Health Laboratories of the Joint FAO/IAEA Division, Seibersdorf , Austria

**Dates:** 15 – 19 August 2016 (Training Course number 1)

22 – 26 August 2016 (Training Course number 2)

**Deadline for Nominations:** 12 July 2016

**Organizers:** The International Atomic Energy Agency (IAEA) in collaboration with the Government of Austria through IAEA Seibersdorf Laboratories.

**Host Country Organizer:** Mr Ivancho Naletoski and Mr Charles Lamien  
International Atomic Energy Agency - IAEA  
Department of Nuclear Sciences and Applications  
Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture  
Animal Production and Health Section (APH)  
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**Language:** English

**Purpose:** The purpose of the two training courses are to enhance veterinary diagnostic laboratory proficiencies for the early and confirmatory nuclear and nuclear derived molecular detection and characterization of pox virus infections in animals with focus on Lumpy Skin Disease (LSD) in cattle, through theoretical and practical classes on the topic.

The training courses will include:

- a. Expert presentations on the ethiology, pathogenesis, clinical signs, epidemiology and control of the pox virus infections in animals;
- b. Screening techniques for detection of the pox virus infections in animals;
- c. Techniques for differentiation of the pox virus infections in animals;
- d. Advanced understanding of the molecular evolution of pox viruses through the free-of-charge sequencing services for Member States established by APHS;
- e. The use of open source information platforms for data sharing, and their use in analysis and decision making.

**Expected Output(s):**

The expected outputs of the courses are:

- a. Most current understanding of the ethiology, pathogenesis, clinical signs, epidemiology and control of the pox virus infections in animals transferred to Member States laboratories;
- b. Updated nuclear and nuclear related techniques for laboratory detection and differentiation of the pox virus infections in animals transferred into the Member States' laboratories;
- c. Protocols and instructions for the use of the free-of-charge sequencing services transferred into the laboratories of Member States;
- d. Exchange of epidemiological data on the pox virus infections of animals, between the designated veterinary laboratories and authorities in the region improved.

**Scope and Nature:**

The courses will consist of: i) presentations ethiology, pathogenesis, clinical signs, epidemiology and control of the pox virus infections in animals, ii) practical classes on the most updated nuclear and nuclear related techniques for detection and differentiation of pox virus infections in animals, iii) practical classes on the use of the free-of-charge sequencing services for Member States established by APHS and iv) practical classes on sequence data analysis, interpretation and sharing.

Presentations of relevant experts in the area of pox virus infections in animals are also expected.

**Background Information:**

Sheep pox, goat pox and lumpy skin disease are infectious diseases of animals, caused by the members of the poxviridae family, a group of DNA viruses transmitted by direct or indirect contact, as well as through the vector insects. The diseases were classified in the former "List A" diseases of the World Organization for Animal Health (OIE) and until recently were considered as exotic, not appearing on the European mainland.

Occurrence of the diseases in countries and regions has significant impact on animal production and health and is associated with international restrictions in trade of animals and animal products.

During 2013 the first cases of LSD in the region has been officially reported.

The disease was reported in Greece during 2015 and in Bulgaria, The FYR of Macedonia and Serbia during 2016. The dynamic of the disease spread has urged the need to review and update the existing techniques for early and rapid detection and differentiation of the virus spread, as well as to integrate these techniques into the Member States disease control plans.

Veterinary authorities are the key stakeholder for management of animal production and health systems, and have already well-defined responsibility structures comprised of competent veterinary authorities, designated veterinary laboratories and designated veterinary field services.

There is a clear need to establish or update the most current early and rapid detection techniques into the designated laboratories of Member States through a hands-on training course.

**Participation:** Each training course is open to 30 participants from IAEA Member States of the Europe Region.

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

**Participants' Qualifications:** Each course is open to one participant from the designated laboratories of Member States of the IAEA European region. Application of candidates with certain previous knowledge in the molecular detection techniques in general, as well as candidates who are directly responsible for daily diagnosis of infectious diseases using molecular techniques is strongly encouraged!

**Nomination Procedure:** 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, Mr Zhang, Jing (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 **12 July 2016**.

**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 Vienna, Austria, 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 courses 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 training 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.

## OCCUPATIONAL EXPOSURE HISTORY

Candidate's Name	
Employer	

Event Title	
Event Number	
Venue	
Dates	From: _____ To: _____

Are you covered under an individual monitoring programme in your country? <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, <ul style="list-style-type: none"> <li>▪ Starting date of the individual monitoring (mm/yyyy): .....</li> <li>▪ please fill in the applicable fields below:</li> </ul>			
Quantity	Unit reported	Value during the previous five calendar years	Value during the current calendar year
Effective dose <sup>(1)</sup>			
Equivalent dose to the lens of the eyes			
Equivalent dose to the extremities or to the skin			
OEH data provided or confirmed by <sup>(2)</sup> :	Name: ----- Responsibility: ----- Signature: -----		

Candidate's Signature: ----- Date<sup>(3)</sup>: -----

<sup>(1)</sup> Effective dose due to external AND internal exposure. If another quantity is reported, please indicate name and unit.  
<sup>(2)</sup> The OEH data is to be provided or confirmed by the radiation protection officer, the candidate's supervisor, or the provider of the individual monitoring service.  
<sup>(3)</sup> This form should not be older than six months before the date of the event.