



# **Virtual Event - Regional Training on the Advanced Molecular Techniques for Characterization and Phylogenetic Analysis of Bacterial Pathogens**

**Hosted by**

The International Atomic Energy Agency  
IAEA Headquarters

**13 to 17 December 2021**

**Ref. No.: RER5025 - EVT2100903**

## **Information Sheet**

### **Purpose**

The purpose of the virtual event is to provide practical exercises to the participants on the Advanced Molecular Techniques for Characterisation and Phylogenetic Analysis of Bacterial Pathogens.

### **Working Language(s)**

The working language of the event will be **English**.

### **Deadline for Nominations**

Nominations received after **15 November 2021** will not be considered.

## **Project Background**

Animal diseases can cause massive losses in livestock and seriously decrease their productivity, creating considerable socio-economic consequences. Moreover, zoonotic diseases can be easily transmitted from animals to humans and therefore pose significant public health threat. Both, worldwide and in Europe, the number of outbreaks of transboundary animal diseases and zoonotic diseases is growing. Many of these diseases are caused by bacterial pathogens. Therefore, capacities for detection and characterization of bacterial pathogens play an important role in the early detection and rapid response to animal diseases caused by bacteria.

## **Scope and Nature**

The regional training course will be organised virtually (as an online event) and will cover theoretical and practical experience in the application of the Variable Number Tandem Repeats (VNTRs) analysis / Multi-locus Variable-Number Tandem Repeat Analysis (MLVA) in molecular characterisation of bacterial pathogens.

## **Expected Outputs:**

The expected outputs of the meeting are to disseminate the theoretical background and practical application (exercises) on the application of VNTR / MLVA in characterization of bacterial pathogens.

The priority diseases (models) for the training course will be the Brucellosis and Anthrax, however wider applications of VNTR / MLVA will be discussed.

## **Participation**

The virtual regional training course is open to 60 participants from Member States.

Each country is invited to nominate up to two participants who must match the profile described in the corresponding paragraph, indicating the order of priority.

## Participants' Qualifications and Experience

The regional virtual training course is open for Member States participating in project RER/5/025. Nominated candidates should be staff members of the officially designated veterinary laboratories responsible for detection and characterization of bacterial diseases of animals, including those with zoonotic impact in Member States. Furthermore, the nominated candidates should also be directly responsible for performing these techniques in the host laboratory or at least involved in training technical staff working with the subject. The participants should be familiar with the most common molecular technologies such as the conventional and real time PCR.

## 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 (EVT2100903) 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](#).

## 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 with regard to administrative and financial matters.

## **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.

## **IAEA Contacts**

Programme Management Officer (responsible for substantive matters):

Ms Ludmila Wiszczor  
Division for Europe  
Department of Technical Cooperation  
International Atomic Energy Agency  
Vienna International Centre  
PO Box 100  
1400 VIENNA  
AUSTRIA  
Tel.: +43 1 2600 22419  
Fax: +43 1 26007  
Email: [L.Wiszczor@iaea.org](mailto:L.Wiszczor@iaea.org)

Administrative Contact (responsible for administrative matters):

Ms Ia Beria  
Division for Europe  
Department of Technical Cooperation  
International Atomic Energy Agency  
Vienna International Centre  
PO Box 100  
1400 VIENNA  
AUSTRIA  
Tel.: +43 1 2600 26099  
Fax: +43 1 26007  
Email: [I.Beria@iaea.org](mailto:I.Beria@iaea.org)