



# **ERFAN DIALOGUE**

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Listeria monocytogenes deep typing: from the wet to the dry-lab activities

**ERFAN Food Hygiene Working Group** 





### ERFAN DIALOGUE

## Listeria monocytogenes deep typing: from the wet to the dry-lab activities.

•	:	:	TIMETABLE
•	•	•	Central European Time (CET)
•	•	•	METHODOLOGY
	•	•	The online ERFAN Dialogues days will be organized via Zoom platform
•	•	•	WORKING LANGUAGE
•	•	•	English with simultaneous translation in French

PRESENTAT	ΓΙΟΝ

**OBJECTIVES** 

PARTICIPANTS

PROGRAMME

**TRAINERS-FACILITATORS** 

### CONTACTS





## AGENDA

## PRESENTATION

The Globalization of food trade, changing consumption habits towards highly processed foods and demographic changes, with increase of susceptible populations, have increased risk of foodborne illnesses. To date, whole genome sequencing (WGS) provides the highest possible subtyping resolution improving the surveillance, outbreak investigation and source-attribution of foodborne pathogens Listeria as monocytogenes. Moreover, high-risk pathogenic L. monocytogenes strains can be also identified based on the presence of phenotypic properties, such as virulence potential, but also persistence or growth/survival under stress conditions using comparative genomics studies.

## OBJECTIVE

The aim of this training is to increase the knowledge, skills and competences required to work with *L. monocytogenes.* The course will be structured in order to be used as a guide and introduction to an updated wet and dry-lab activities in the public contest.

## PARTICIPANTS

The African participants come from National Veterinary Laboratories and Veterinary schools of Northern and Southern Africa, together with the IZSAM experts of the OIE collaborating centre for Food Hygiene







CHAIRMAN Francesco Pomilio IZSAM, Italy

Wednesday, 23 February 2022			
TIME	TOPIC	TRAINER	
10.00 - 10.05	Opening and welcome	<i>Francesco Pomilio</i> Listeria expert , IZSAM, Italy	
10.05 - 10.20	Overview of NLR for <i>Listeria monocytogenes</i> activities	Marina Torresi IZSAM, Italy	
10.20 - 10.45	L. monocytogenes: extraction principles	<i>Marina Torresi</i> IZSAM, Italy	
10.45 – 11.00	BREAK		
11.00 - 12.00	Principles of NGS technologies	Alexandra Chiaverini IZSAM, Italy	
12.00 – 12.30	WGS data analysis: main concepts	Alexandra Chiaverini IZSAM, Italy	

Wednesday,2 March 2022			
TIME	ТОРІС	TRAINER	
10.00 - 10.10	L. monocytogenes data on GENPAT	Alexandra Chiaverini IZSAM, Italy	
10.10 - 10.45	Quality Check	Alexandra Chiaverini IZSAM, Italy	
10.45 – 11.00	BREAK		
11.00 – 12.30	MLST and cgMLST clustering SNP analysis	Marina Torresi IZSAM, Italy	





Wednesday,9 March 2022			
TIME	ТОРІС	TRAINER	
10.00 – 10.45	Genomic features: virulence, persistence and AMR determinants Pangenome	Alexandra Chiaverini IZSAM, Italy	
10.45 – 11.00	BREAK		
11.00 – 12.30	Validation workflow: wet & dry lab	<i>Marina Torresi</i> IZSAM, Italy	

### **TRAINERS-FACILITATORS**

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Alexandra Chiaverini	a.chiaverini@izs.it	IZSAM	Italy
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### SCIENTIFIC COORDINATORS

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