



EURL Lm
European Union Reference Laboratory for
Listeria monocytogenes
<http://eurl-listeria.anses.fr>



**Second Joint Training Course on the
Use of BioNumerics Software to analyse PFGE data of
Shiga-toxin producing *Escherichia coli*, *Salmonella* and
*Listeria monocytogenes***

3-4 July 2017

SIDBAE Training Room

(Building 1, Floor B)

Istituto Superiore di Sanità

Viale Regina Elena, 299 – Rome, Italy



**Organized for the 3 networks of National Reference Laboratories for
STEC, *Listeria monocytogenes* & *Salmonella* by:**

- **The EU Reference Laboratory for STEC**
(ISS: Antonella MAUGLIANI, Valeria MICHELACCI, Rosangela TOZZOLI)
- **The EU Reference Laboratory for *L. monocytogenes***
(ANSES-Laboratory for Food Safety: Benjamin FELIX, Ludivine BONANNO)
- **The EU Reference Laboratory for *Salmonella***
(RIVM: EI BOUW, Wilma JACOBS)

Funded by the European Commission – DG SANTE



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DIRECTOR OF THE COURSE

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TECHNICAL SECRETARIAT

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IT Services
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GENERAL INFORMATION

Venue: Istituto Superiore di Sanità, SIDBAE Training Room (Building 1, Floor B)
Viale Regina Elena 299, 00161 Rome

This event is part of the scientific and tutorial activities of the EURL-VTEC, EURL Listeria and EURL Salmonella, funded by the European Commission – DG SANTE

For any information regarding the event, please send an email to crl.vtec@iss.it



PROGRAM

Monday, 3 July

- 9.00 **Registration**
- 9.15 Welcome, housekeeping and general overview on the training course (S. Morabito)
- 9.30 Case studies on PFGE typing: *Listeria*; *Salmonella*, STEC (The three EURLs)
- 10.30 Molecular typing by PFGE: gel production and staining, image acquisition, analysis and self-evaluation (A. Maugliani)
- 11.00 **Coffee break**
- 11.30 The BioNumerics Software: database creation, import of TIFF files, setting up experiments and image analyses (A. Maugliani/W. Jacobs)
- 12.00 Profiles analysis and interpretation (L. Bonanno, A. Maugliani)
- 12:30 **HANDS-ON EXERCISES:** Visual evaluation of PFGE gel images fingerprint data analysis (all)
- 13.00 **LUNCH**
- 14.00 **PRACTICAL SESSION**
Creation of the groups based on specific needs
Description of the dataset
Start of exercises
- 17.00 End of the first day

Tuesday, 4 July

- 9.00 Introduction to cluster analysis: purpose and parameters and Global Database Management (e.g. re-normalisation, re-mapping) (B. Felix)
- 9.30 Molecular surveillance of foodborne infections in the EU: EFSA-ECDC Joint Database. State of play (V. Rizzi - EFSA)
- 10.00 **Coffee break**
- 10.30 **PRACTICAL SESSION**
- 13.00 Concluding remarks



LIST OF PARTICIPANTS and SPEAKERS

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|-----------------------------|--|
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