



Basic Course on the use of BioNumerics Software for the analysis of Pulsed Field Gel Electrophoresis- generated profiles of *E. coli*

12-13 June, 2014

SIDBAE Training Room

(*Building 1, Floor B*)

Istituto Superiore di Sanità

Viale Regina Elena, 299 – Rome, Italy

Program



Organized by:

- The EU Reference Laboratory for *E. coli*
- The ISS IT Service (SIDBAE)

Funded by the European Commission – DG SANCO

DIRECTOR OF THE COURSE

Alfredo CAPRIOLI
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SPEAKERS

EU Reference Laboratory for *E. coli*, Rome, Italy

Alfredo CAPRIOLI
Antonella MAUGLIANI
Valeria MICHELACCI
Stefano MORABITO
Rosangela TOZZOLI

EU Reference Laboratory for *Listeria*, Maison Alfort, ANSES, France

Damien MICHELON

TECHNICAL SECRETARIAT

Susan BABSA, Clarissa FERRERI

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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 EU-RL VTEC, funded by the European Commission – DG SANCO

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

Thursday 12 June

9.00 Registration

- 9.15 Welcome, housekeeping, and general overview on the training course
- Alfredo Caprioli**
Stefano Morabito
(EU-RL VTEC)
- Arnold Knijn**
(SIDBAE)

Session 1

- 9.45 Molecular surveillance of foodborne infections in the EU **Alfredo Caprioli**
- 10.00 Molecular typing of VTEC by PFGE: gel production and staining, image acquisition and self-evaluation **Antonella Maugliani**
Rosangela Tozzoli
- 11.00 **Coffee break**
- 11.30 Exercises: visual evaluation of PFGE gel images **Antonella Maugliani**
Valeria Michelacci
Rosangela Tozzoli
- 12.00 The BioNumerics Software: database creation, import of TIFF files, and setting up experiments **Rosangela Tozzoli**
Antonella Maugliani
Valeria Michelacci
- 13.00 **Lunch**
- 14.00 Image analysis: profiles analysis and interpretation **Stefano Morabito**
Antonella Maugliani
- 15.00 Hands-on exercises: fingerprint data analysis **Antonella Maugliani**
Valeria Michelacci
Rosangela Tozzoli
- 16.30 Discussion and concluding remarks on the first session

Friday 13 June

Session 2

- 9.30** Molecular typing data collection: the experience of EU-RL Listeria **Damien Michelon**
- 10.15** Introduction to cluster analysis: purpose and parameters **Stefano Morabito**
- 11.00** **Coffee break**
- 11.30** Practical Session on cluster analysis **Stefano Morabito**
Antonella Maugliani
- 12.15** Sharing data in the network: The markup language XML **Arnold Knijn**
- 12.45** Concluding remarks **Stefano Morabito**
- 13.00** **Lunch**