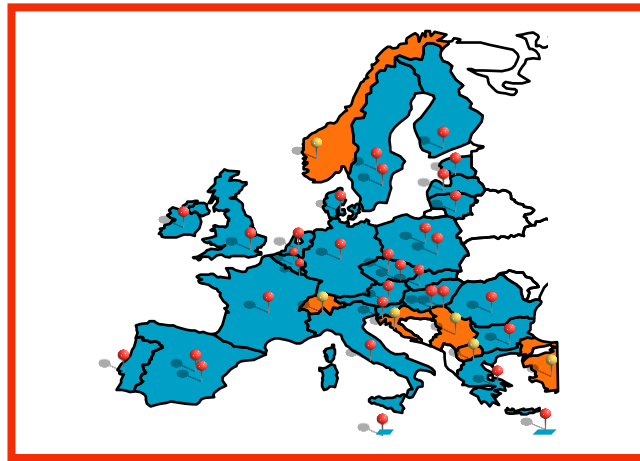


Training at the EU Reference Laboratory for *Escherichia coli*

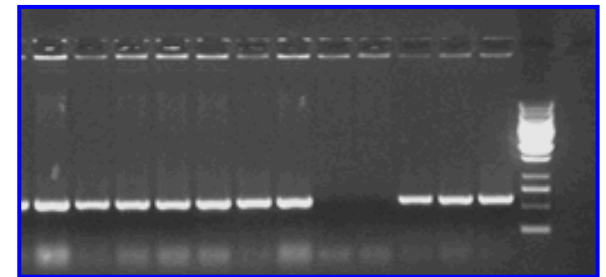
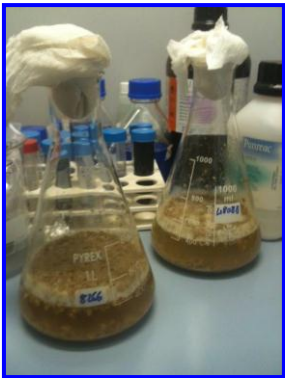
Antonella Maugliani



Functions and duties of EU-RLs (882/2004, Art. 32)

To conduct training for NRLs

Visits to EU-RL



Standard Training Programs (STP)

VTEC identification and typing



EU Reference Laboratory for *E.coli*
Department of Veterinary Public Health and Food Safety
Unit of Foodborne Zoonoses and Veterinary Epidemiology

Istituto Superiore di Sanità



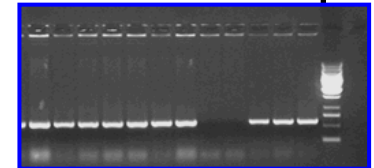
Program for a one week-training at the EU-RL VTEC, Istituto Superiore di Sanità, Roma, on VTEC identification and characterization by molecular methods

Monday

Opening discussion on the work-plan of the week

Inocula of test strains and control strains

Overview on the activities of the lab



Standard Training Programs (STP)

Detection of VTEC in foodstuffs



European Reference Laboratory for *E. coli*

Department of Veterinary Public Health and Food Safety
Unit of Foodborne Zoonoses

Istituto Superiore di Sanità



Preliminary program of a three day-training at EU RL-VTEC, Istituto Superiore di Sanità, Roma, on VTEC detection, identification and characterization in seeds by molecular methods

Wednesday, 13/07/11

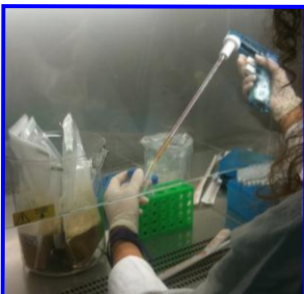
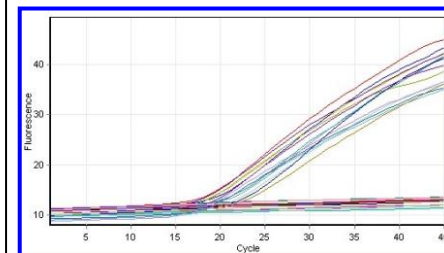
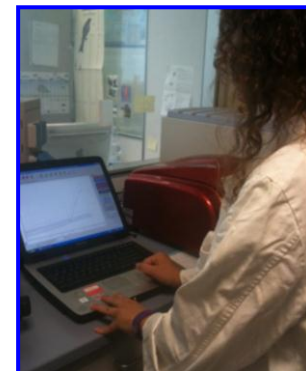
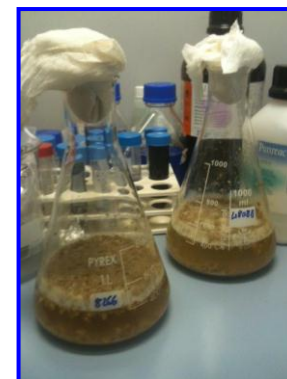
- Opening discussion on the work-plan and overview on the activities of the laboratory
- DNA purification from pure bacterial cultures
- Real-Time PCR for VTEC identification according to the ISO TS 16136
- Enrichment of seeds samples according to the EU-RL laboratory procedure for VTEC O104 detection and identification

Thursday, 14/07/11

- DNA purification from enrichment cultures
- Real Time PCR for VTEC identification with different RT-PCR platforms
- Real Time PCR for O104 identification

Friday, 15/07/11

- General discussion on the activities carried out



Standard Training Programs (STP)

Molecular typing of VTEC by PFGE



European Reference Laboratory for *E. coli*
Department of Veterinary Public Health and Food Safety
Unit of Foodborne Zoonoses
Istituto Superiore di Sanità



PFGE TRAINING PROGRAM AT EU-RL VTEC (1 WEEK)

- **DAY 1**

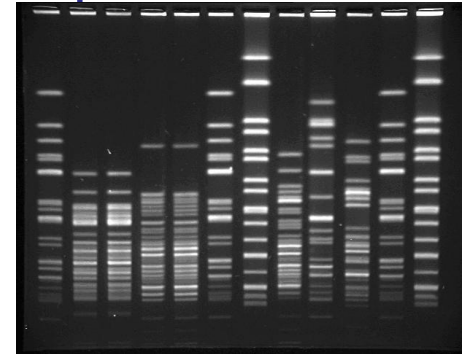
Opening discussion on the work-plan of the week and overview on the activities of the laboratory.

Types & Typing Systems: (typing terminology, reason for typing, types of typing tests, typing and epidemiology of VTEC O157).

PFGE: (Principles, standardized laboratory protocol, equipment and expertise).

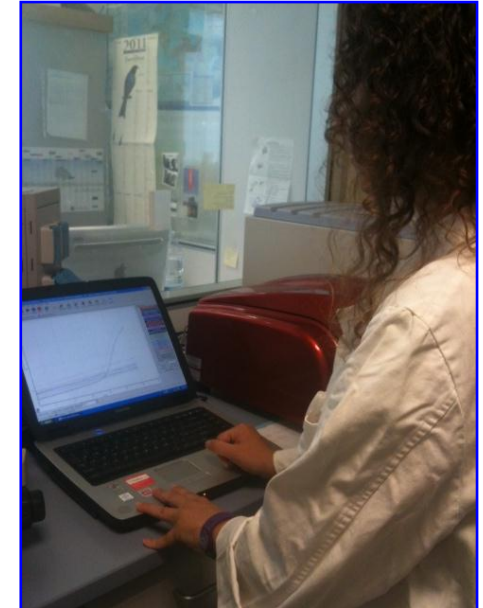
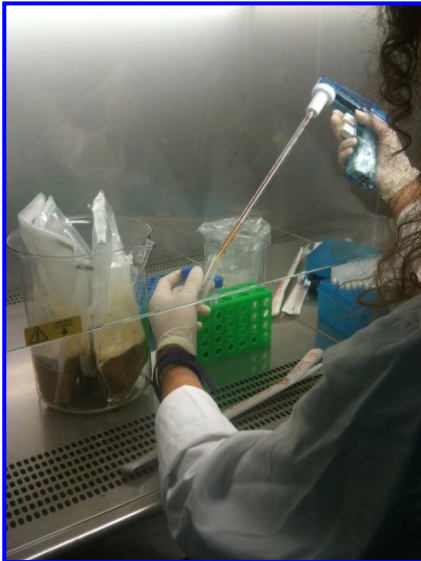
PRACTICAL SESSION:

- Strain cultures in broth and Mac Conkey agar prepared in advance by the EU RL available. Transfer of pure colonies from Mac Conkey to TSA plates and overnight



Visits at the EU-RL VTEC

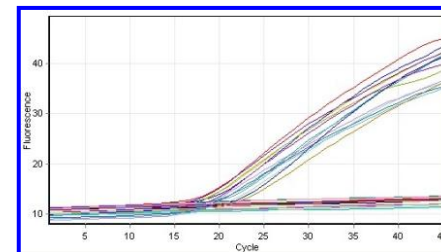
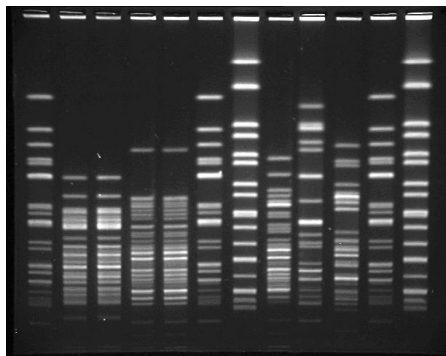
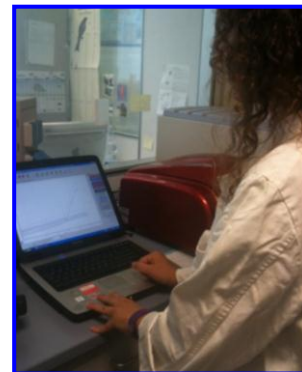
Hands-on approach



Training at the EU-RL VTEC

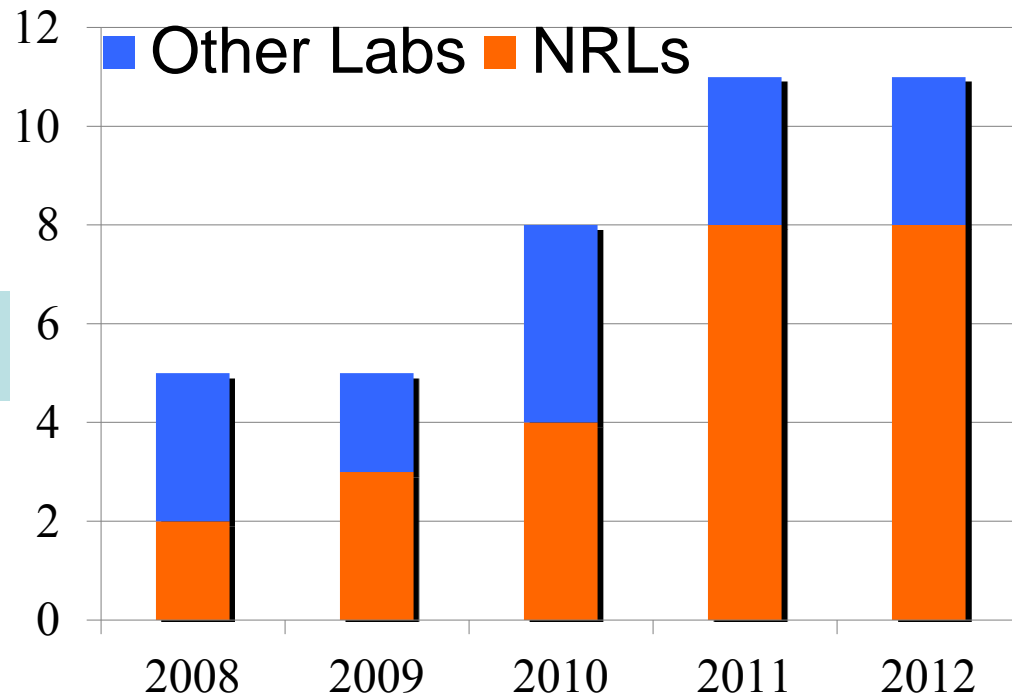
2012

- ✓ Budget dedicated to support the visits
- ✓ Call to apply for short term visits on:
 - ✓ Detection and characterization
 - ✓ Molecular typing



Training at the EU-RL

- ✓ Increasing number of scientists visiting the EU-RL
- ✓ 8 training visits supported by DG SANCO in 2012

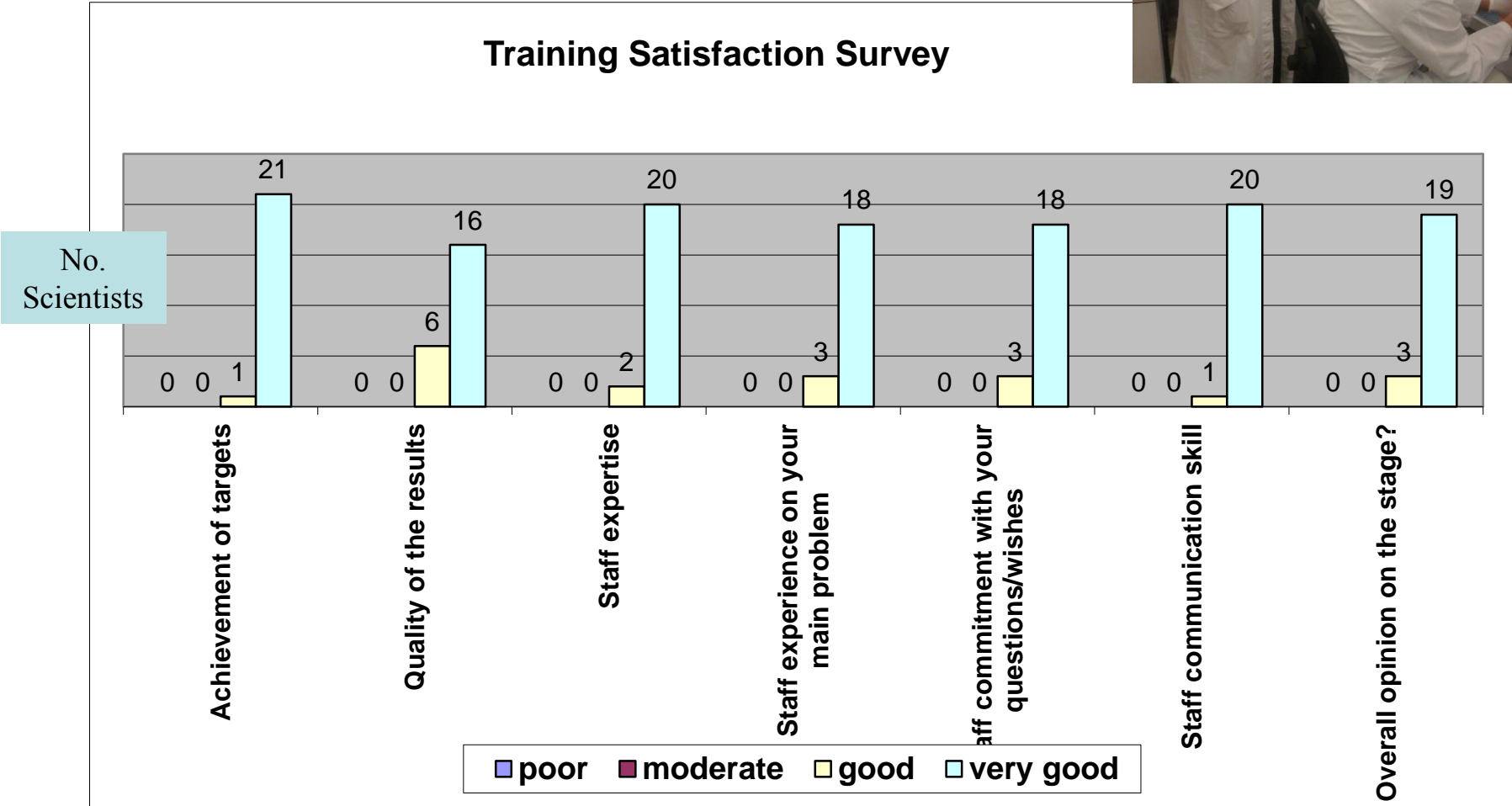


Training at the EU-RL



Training satisfaction survey introduced in 2011

Training Satisfaction Survey



See you in our Lab!!!!

