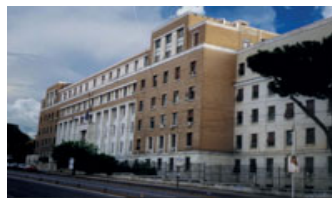


**6th Annual Workshop of the NRLs for *Escherichia coli* in the EU
Rome, 4th November 2011**

Training at the EU Reference Laboratory for *Escherichia coli*

Rosangela Tozzoli

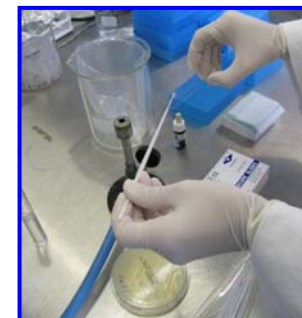
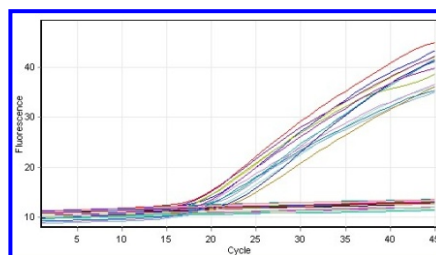
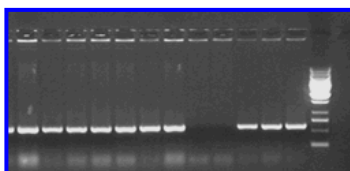
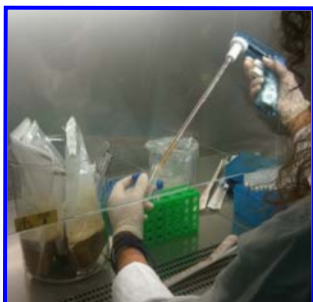


www.iss.it/vtec

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

conduct training for NRLs (annual workshop, courses, visits to EU-RL)

Training on:
VTEC identification and typing
VTEC detection in foodstuffs
Detection and characterization of pathogenic *E. coli*



European Reference Laboratory *Escherichia coli* - www.iss.it/vtec

Dipartimento di Sanità Pubblica Veterinaria e Sicurezza Alimentare - Istituto Superiore di Sanità

Standard Training Programs (STP)



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

Tuesday

Template preparation and introduction to Real Time PCR
Conventional PCR for STEC detection and typing (CRL_Method 01 28_04_08)
Molecular serogrouping with conventional PCR

Wednesday

Agarose gel electrophoresis to visualise amplicons and discussion on the conventional PCR results
Test and control strains DNA preparation for Real Time PCR

Thursday

Real Time PCR according to the Guideline for the identification and characterisation of VTEC by Real Time 28_04_08 using different Real Time technologies.

Friday

General discussion on the activities carried out

European Reference Laboratory *Escherichia coli* - www.iss.it/vtec

Dipartimento di Sanità Pubblica Veterinaria e Sicurezza Alimentare - Istituto Superiore di Sanità

STP on seeds



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

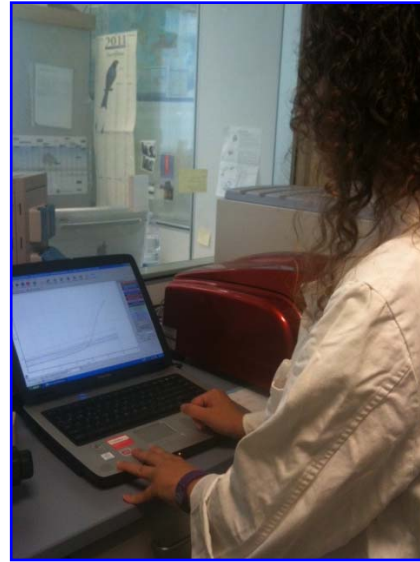
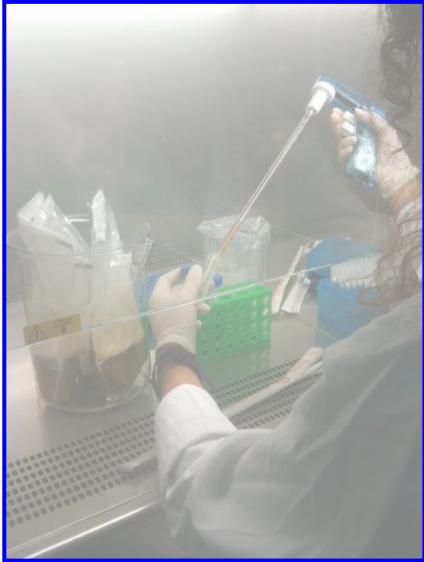
Friday, 15/07/11

General discussion on the activities carried out

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Dipartimento di Sanità Pubblica Veterinaria e Sicurezza Alimentare - Istituto Superiore di Sanità

Visits at the EU-RL for VTEC



Hands-on approach

YEAR	NRLs	OTHERS
2008	2	3
2009	3	2
2010	4	4
2011 ...	4	1

Training Satisfactory Survey

1. Have the agreed targets been achieved?
2. Are you satisfied about the quality of the results?

3. What is your opinion of our staff?

Expertise

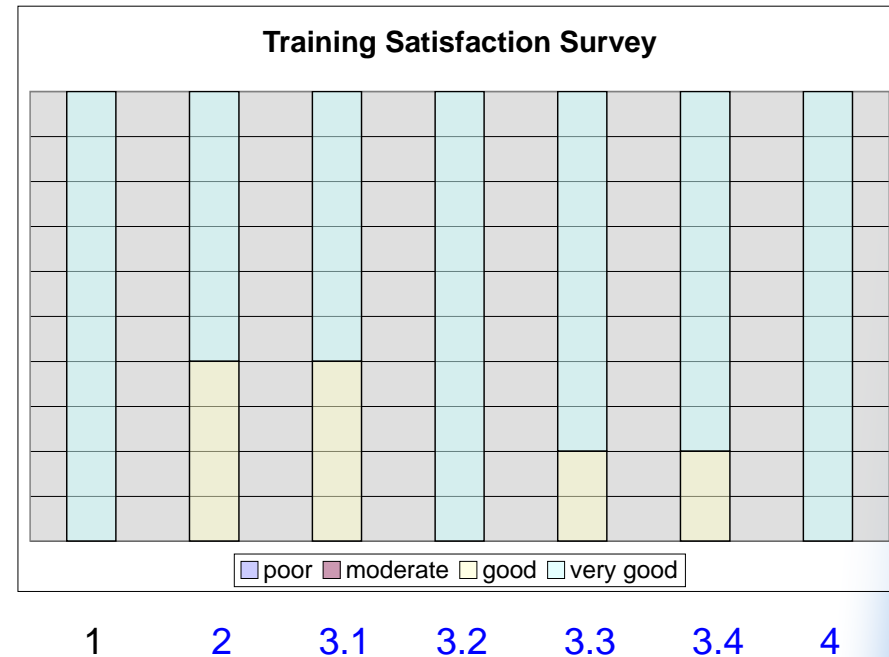
Experience with your main problem

Commitment with your questions/wishes

Communication

4. What is overall opinion of our handling of your stage?

comments or suggestions?



Future perspectives...

Coming soon: Training on molecular typing of VTEC strains

Possibility to support two/three NRLs visits to EURL for VTEC
An application form will be deployed and published on the EU RL
website

Thank you!

See you in our Lab!!!!

