



University "Ss Cyril and Methodius" in Skopje
Faculty of veterinary medicine-Skopje



NRL-Salmonella Republic of Macedonia (FYROM)

Prof d-r Dean Jankuloski



University "Ss Cyril and Methodius" in Skopje Faculty of veterinary medicine-Skopje



HISTORY

- ✓ 1927 – VETERINARY INSTITUTE IN SKOPJE
- ✓ 1991 – FACULTY OF VETERINARY MEDICINE IN SKOPJE
- ✓ 2007- NRL Salmonella



ONE PROFESSION-MANY POSSIBILITIES

FOOD INSTITUTE

- Laboratory for food and feed microbiology
- Laboratory for residues and contaminants
- Laboratory for raw milk quality
- Laboratory for food quality
- Reception office

- NRL (Salmonella 2007), NRL Campylobacter, NRL Listeria, NRL E. coli, NRL CPS, NRL Milk, NRL chemical risks.

- Accredited according ISO 17025, last audit National accreditation body, May 2018, >130 methods

Regulation 882/2004 NRL tasks

- **Collaborate** with the EURL in their area of competence;
- Ensure the **dissemination** to the CA of information that the EURL supplies,
- **Provide** scientific and technical assistance to the CA for the implementation of coordinated control plans, (MANCP);
- Be **responsible** for carrying out other specific duties, without prejudice to existing additional national duties.
- OL - Inform immediately CA if results indicate risk to human, animal

Comply with Regulation 882/2004 NRL requirements

- Staff- Impartial, confidential, suitably and trained,
- ISO 17025 accredited, Scope of accreditation > 130
- Infrastructure, equipment according to needs
- Emergency situations
- Equipped with relevant biosecurity standards
- Conducted audit by CA in 2017
- Participation in PT, ILCS

NRL Salmonella

- Nomination Food and veterinary agency 2007
- ISO 6579-1:2017 Horizontal method for the detection, enumeration and serotyping of Salmonella - Part 1: Detection of Salmonella spp
- ISO 6579-3 Part 3: Guidelines for serotyping of Salmonella spp.
- ISO 20776-1:2008, ISO 20776-2, Antimicrobial susceptibility determination *for Salmonella spp.* with broth micro dilution technique

Nacional legislation

- Food safety law - REGULATION (EC) No 178/2002
- National control plan and Guidelines for the reduction of the presence of salmonellosis in chickens, laying hens, broilers, incubation stations (*Gallus gallus*) for the period 2017-2020
- Annual order for the conducting of veterinary measures and controls for the protection of public health from contaminants or residues transmitted from animals or products of animal origin in 2018
- Program for antimicrobial resistance for the period 2017-2020

NRL-Training

- Request form FVA
- FBO-poultry breeders, OVs-FVA-april 2018
- 160 participants
- Sampling – official control, FVA – march 2018
- 120 OVs

National level networking

- Collaboration with medical faculty-microbiological laboratory, public health laboratories
- Scientific purposes majority cases, PFGE, publishing papers, PhD
- Requests for technical assistance-serotyping PHL or scientific opinion.

Antimicrobial resistance testing

Dilution method: EUCAST recommends the International Organization for Standardization (ISO) reference methods

- For colistin testing, follow the dilution method agreed between CLSI and EUCAST.
- Laboratory protocols for isolation and identification, MIC-testing with sensititre, and reading and interpreting MIC, *DTU National Food Institute, Danmark, EURL*

DECISIONS

COMMISSION IMPLEMENTING DECISION

of 12 November 2013

on the monitoring and reporting of antimicrobial resistance in zoonotic and commensal bacteria

(notified under document C(2013) 7145)

(Text with EEA relevance)

(2013/652/EU)

Molecular typing

- PFGE typing of salmonella isolates- research and scientific publications
- Introduced 2011
- Accredited method for *Listeria monocytogenes* PFGE typing - epidemiological study 2014.
- Standard Operating Procedure for PulseNet PFGE of *Escherichia coli* O157:H7, *Escherichia coli* non-O157 (STEC), *Salmonella* serotypes, *Shigella sonnei* and *Shigella flexneri*, December 2017

PT PFGE

- EURL PT PFGE TYPING
- International external quality assessment scheme for *Salmonella enterica* ssp. *enterica* funded by the European Food- and Waterborne Diseases and Zoonoses Network, European Centre for Disease Prevention and Control (ECDC), and organized by Statens Serum Institut from 2015.



Ss. Cyril and Methodius University in Skopje Faculty of Veterinary Medicine – Skopje



Search for ...

Search

About Faculty

Studies

Science

Application

Clinics

Students

Staff

Contact Us

Application

- » Application
 - » Veterinary Institute
 - » Food Institute
 - » Institute for Reproduction and Biomedicine
 - » Accreditation
 - » Quality policy
 - » Vision / Mission
 - » Quality Manager
 - » Clients
 - » Questionnaires
 - » Complains
 - » Annual Supervision

Food Institute



Within the **Institute for Food** following laboratories are included:

- Laboratory for microbiology of food and feed (more)
- Laboratory for quality control of food and feed (more)
- Laboratory for residues and contaminant (more)
- Laboratory for raw milk quality (more)
- Laboratory for Pharmacology and Toxicology (more)

Categories

- » Announcements for Students
- » News



THANK YOU