CA18105



Risk-based meat inspection and integrated meat safety assurance

Virtual Training school

Risk-based Meat Safety Assurance Systems focusing on risk categorisation of farms and abattoirs

June $13^{th} - 16^{th}$, 2023

Who, where, when?

Who: 50 selected participants from academia, food industry and competent authorities

Where: Virtual time zone: CET **When:** June 13rd to June 16th, 2023

Aim

The training school will give insights into the challenges of risk-based meat safety assurance systems, current European legislations as well as future trends and tasks with a special focus on risk categorisation of farms and abattoirs.

Participants will receive a mix of high-quality presentations; participate in workshop exercises and group discussions.

During this 4-day online training school we want to learn from each other and get to know the different perspectives regarding meat safety assurance systems.

Furthermore, we hope to give you a unique opportunity to expand your professional network.

Organisers

RIBMINS project (Core group)

Diana Meemken and Truls Nesbakken (WG 2)
Dragan Antic and Kurt Houf (WG 3)
Sergio Ghidini
Technical support

Teachers (in order of appearance in the programme)

Diana Meemken, Freie Universität, Berlin, Germany Dragan Antic, University of Liverpool, UK Bojan Blagojevic, University of Novi Sad, Serbia Simon Rüegg, University of Zurich, Switzerland Lis Alban, University of Copenhagen, Denmark Ole Alvseike, Animalia, Norway Michaela Hempen, EFSA, Italy Boris Antunovic, University of Zagreb, Croatia Stig Gezelius, University of South-Eastern Norway, Norway Truls Nesbakken, University of Life Sciences, Norway Ting-Ting Li, Freie Universität Berlin, Germany Susann Langforth, Freie Universität Berlin, Germany Nina Langkabel, Freie Universität Berlin, Germany Niko Dadios, Royal Veterinary College, UK Morgane Salines, French Ministry of Agriculture, France Silvia Bonardi, University of Parma, Italy Martjin Bouwknegt, Vion Food Group, The Netherlands Olga Varra, University of Parma, Italy Mauro Conter, University of Parma, Italy Madalena Vieira-Pinto, University of Vila Real, Portugal Giovani Loris Alborali, IZSLER, Italy Eduarda Gomes-Neves, University of Porto, Portugal Andrea Capobianco Dondona, Farm4Trade, Italy Viktor Almqvist, University of Uppsala, Sweden Simone Belluco, IZSVe, Italy Eystein Skjerve, University of Life Sciences, Norway













Tuesday, June 13th

Introduction - Status quo and challenges of Risk-Based Meat Safety Assurance Systems (RB MSAS)			
09:00-09:20	Opening – Diana Meemken, Dragan Antic		
09:20-09:50	Who is who – all participants		
09:50-10:15	Introduction to Risk-based Meat Safety Assurance Systems - Bojan Blagojevic		
10:15-10:30	Short coffee break		
10:30-11:00	System thinking: Brucellosis - Simon Rüegg		
11:00-11:20	Introducing the group work: a) Reasons for palpation and incision - Lis Alban b) Risk-based systems and sustainability - Ole Alvseike		
11:20-11:40	Group work – all participants		
11:40-12:20	Presentation/discussion of the key messages as results of the group work - all participants		
12:20-13:20	Lunch break		
European legi	European legislation: Changes and innovations		
13:20-13:45	Overview of EFSA's opinions, basis for the modernisation of meat inspection - Michaela Hempen		
13:45-14:10	Legislation framework that leads to Meat Safety Assurance System changes - Boris Antunovic		
14:10-14:35	Enforcement and society: Why people obey or resist the law - Stig Gezelius		
14:35-15:05	Process from traditional to visual only inspection as a follow-up of the group work a) - Lis Alban		
15:05-15:35	Meat Safety Assurance Systems and Sustainability as follow-up from group work b) – Ole Alvseike		













Wednesday, June 14th

Risk categorization of farms and abattoirs		
Food Chain Information (FCI) and Harmonized Epidemiological Indicators (HEIs) as tool for risk categorisation of farms, background – Diana Meemken		
FCI & HEIs for pigs - Ting-Ting Li		
FCI & HEIs for broilers - Susann Langforth		
FCI & HEIs for bovines - Nina Langkabel		
Using FCI & HEIs for risk categorisation of farms - Diana Meemken		
Short coffee break		
Food safety management systems - Niko Dadios		
Keynote on risk categorisation of abattoirs by FCI and HEIs - Morgane Salines		
Introducing the concepts of risk analysis with focus on risk assessment – Lis Alban		
Lunch break		
Group work on different meat safety hazards- (Case 1-10, 5 participants per case)		
Case 1: Salmonella in pigs - Silvia Bonardi		
Case 2: Campylobacter in poultry - Dragan Antic		
Case 3: Toxoplasma in pigs - Martijn Bouwknegt		
Case 4: Dioxin in poultry - Olga Varra		
Case 5: Toxoplasma in sheep - Niko Dadios		
Case 6: STEC in beef - Bojan Blagojevic		
Case 7: Hepatitis E in pigs - Morgane Salines		
Case 8: Yersinia in pigs - Truls Nesbakken		
Case 9: ESBLs in pigs - Mauro Conter		
Case 10: Taenia in beef - Madalena Vieira-Pinto		













Thursday, June 15th

Group work presentations		
09:00-09:20	Case 1: Salmonella in pigs	
09:20-09:40	Case 2: Campylobacter in poultry	
09:40-10:00	Case 3: Toxoplasma in pigs	
10:00-10:20	Case 4: Dioxin in poultry	
10:20-10:35	Short coffee break	
10:35-10:55	Case 5: Toxoplasma in sheep	
10:55-11:15	Case 6: STEC in beef	
11:15-11:35	Case 7: Hepatitis E in pigs	
11:35-11:55	Case 8: Yersinia in pigs	
11:55-12:15	Case 9: ESBLs in pigs	
12:15-12:35	Case 10: Taenia in beef	
12:35-13:35	Lunch	
Risk analysis	: Risk assessment & Risk Communication	
13:35-14:15	Global risk categorisation of pig farms and pig abattoirs based on four pig	
	hazards – Morgane Salines, Martijn Bouwknegt, Dragan Antic, Truls	
	Nesbakken	
14:15-14:45	Antibiotic consumption management in pig sector -Giovani Loris Alborali	
14:45-15:15	Introducing the concepts of risk communication – Boris Antunovic	
15:15-15:45	Official Veterinarians in Europe: a survey for the characterization of	
	demographics and training needs for future Meat Safety Assurance System – Eduarda Gomes-Neves	











Friday, June 16th

Future trends		
09:00-09:30	Challenges and opportunities in the implementation of new meat inspection systems in Europe – Boris Antunovic	
09:30-10:00	Practical solutions to digital transformations – Ole Alvseike	
10:00-10:15	Short coffee break	
10:15-10:45	Practical solutions to computerized vision systems - Andrea Capobianco Dondona	
10:45-11:15	Practical solutions to remote ante and post mortem inspection - Viktor Almqvist	
11:15-11:45	Future roles of vets in food production: From pathology-> microbiology-> epidemiology - Simone Belluco	
11:45-12:15	Risk-based handling in relation to meat inspection - Lis Alban	
12:15-13:15	Lunch break	
Future tasks		
13:15-13:45	New application possibilities in the diagnostic methods: multiserology - Diana Meemken	
13:45-14:15	Metagenomics in food safety diagnostics in comparison to the classical culturing - Martjin Bouwknegt	
14:15-14:35	New application possibilities in the diagnostic methods: Acute phase proteins - Bojan Blagojevic	
14:35-15:05	Next steps: evidence-based decisions: data management, connection between lesion and microbiological burden, algorithm and artificial intelligence - Eystein Skjerve	
15:05-15:20	Feedback from the participants	
15:20-15:30	Farewell – Diana Meemken, Dragan Antic	









CA18105



Risk-based meat inspection and integrated meat safety assurance

Why RIBMINS?

Traditional meat inspection systems may not necessarily detect current public health hazards and increase the risk of cross-contamination through physical examination. There is a need to modernise the meat safety systems through a risk-based approach.

Aim and Objectives

Develop a network to combine and strengthen European-wide research efforts on modern meat safety control systems

- ✓ Coordinate research on risk-based meat inspection and meat safety assurance.
- ✓ Establish effective links between scientists, meat industry and policy makers.
- Exchange European experiences with overseas countries
- ✓ Develop training platform and train participants in the new system.

Framework

Participants are working together in five working groups (WG)

Expected impact

Technological

 Development of innovative meat inspection technologies based on food safety risk

Scientific

✓ Filling knowledge-gaps and foster new research networks on risk-based meat inspection.

Socioeconomic

Strengthen public-private partnership and assist policy makers to identify targets and measures for reduction of public health and animal hazards.

Constantly expanding!













