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Anne Margrete Urdahl

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About me:
Dr. Urdahl is a veterinary senior researcher (DVM, PhD) with long experience within zoonoses, particularly human pathogenic *E. coli* and antimicrobial resistance (AMR). Urdahl is currently project leading the Norwegian antibiotic resistance surveillance programs in the veterinary sector; NORM-VET and MRSA in swine. She is also involved in several AMR research projects, and coordinates AMR advisory to the authorities. Dr. Urdahl is an appointed member of the National Institute of Publice Health Committee on preventing and combating antibiotic resistance, as well as to the Nordic One Health AMR expert group. She has also participated in national AMR expert groups.

EDUCATION AND TRAINING

1991 – 1997 – Ås, Norway
CAND. MED. VET. (DVM) – Norwegian School of Veterinary Science (now the NMBU)

https://www.nmbu.no/en

1998 – 2002 – Norway
PHD / DMV – Norwegian School of Veterinary Science (now the NMBU)

https://www.nmbu.no/en

1998 – 1999
EPIDEMIOLOGY - NORDIC POSTGRADUATE COURSE IN VETERINARY EPIDEMIOLOGY – Nordic Society for Veterinary Epidemiology (NOSOVE)

WORK EXPERIENCE

2003 – 2005 – Oslo, Norway
POSTDOC – NORWEGIAN SCHOOL OF VETERINARY SCIENCE (NOW NMBU)

PostDoc project “Risk assessment of STEC/*stx*-bacteriophages as zoonotic agents in the food production chain”; i.e. planning, conducting laboratory experiments, coordinating technician, writing publications.

2006 – CURRENT – Ås, Norway
SCIENTIST - SENIOR SCIENTIST – NORWEGIAN VETERINARY INSTITUTE

Through these years activity and responsen has gradually shiftet from all kind of zoonotic diseases, to almost solely antimicrobial resistance. However, main activities have been and still are project leading of research projects and surveillance programmes (including design, planning, economy, coordinating the activites on daily bases and the reporting), advisory to the authorities, participating in research activities, as well as communication to the public, authorities and research communities.

LANGUAGE SKILLS

Mother tongue(s): **NORWEGIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	C2	C1	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PROJECTS

2015 – 2017
Quinolone resistant Escherichia coli in Norwegian poultry and their impact on humans (QREC-Risk)

https://www.vetinst.no/forskning-innovasjon/tidligere-forskningsprosjekter/quinolone-resistant-escherichia-coli-in-norwegian-poultry-and-their-impact-on-humans-qrec-risk

2016 – 2020
Combating antimicrobial resistance in the Norwegian food production chain (NoResist)

https://www.vetinst.no/forskning-innovasjon/tidligere-forskningsprosjekter/noresist-combating-antimicrobial-resistance-in-the-norwegian-food-production-chain

2017 – 2021
Joint Action on Antimicrobial Resistance and Healthcare-associated Infections (EU-JAMRAI)

https://www.vetinst.no/forskning-innovasjon/tidligere-forskningsprosjekter/eu-jamrai-european-union-joint-action-on-antimicrobial-resistance-amr-and-healthcare-associated-infections-hcai

2019 – CURRENT
Klebsiella pneumoniae – a key driver in the global spread of antimicrobial resistance and a target for new approaches in diagnostics, surveillance and alternative therapeutics (KLEB-GAP)

https://www.vetinst.no/forskning-innovasjon/pagaende-forskningsprosjekter/kleb-gap-klebsiella-pneumoniae-en-sentral-aktor-i-den-globale-spredningen-av-antibiotikaresistens-og-malbakterie-for-nyskapende-diagnostikk-overvakning-og-alternativ-behandling

2021 – CURRENT
Evaluating emerging AMR threats and future capacity for action in Norwegian livestock agriculture (LIMBO)

https://www.vetinst.no/forskning-innovasjon/pagaende-forskningsprosjekter/limbo

2022 – CURRENT
Ionophore coccidiostats: risk of CO-selectioN of antImicrobial resistance – Clinical impact and intervention strategies (ICONIC)

https://www.vetinst.no/en/research-and-innovation/ongoing-research-projects/iconic

2007 – 2013
Public health aspects and the relationship between Shiga toxin-producing and Enteropathogenic E. coli in the ruminant food production chain

https://www.vetinst.no/forskning-innovasjon/tidligere-forskningsprosjekter/public-health-aspects-and-the-relationship-between-shiga-toxin-producing-and-enteropathogenic-e-coli-in-the-ruminant-food-production-chain

2007 – 2008
Foodborne Zoonoses - Campylobacter and E. coli - a network project (CampEc-NET)

Pathogens in the food chain – persistence, elimination and risk management (PathFoodChain)

2015 – 2019
HYGENEA: Risk based hygiene control in European Abattoirs

https://www.vetinst.no/forskning-innovasjon/tidligere-forskningsprosjekter/hygenea-risikobasert-hygienekontroll-i-europeiske-slakteri

2013 – CURRENT
NORM-VET – Monitoring program for antimicrobial resistance in the veterinary and food production sector

https://www.vetinst.no/overvaking/antibiotikaresistens-norm-vet

2013 – CURRENT
MRSA in swine

https://www.vetinst.no/overvaking/mrsa-svin

PUBLICATIONS

Review and analysis of national monitoring systems for antimicrobial resistance in animal bacterial pathogens in Europe: a basis for the development of the European Antimicrobial Resistance Surveillance network in Veterinary medicine (EARS-Vet)

https://doi.org/10.3389/fmicb.2022.838490 – 2022

Defining the scope of the European Antimicrobial Resistance Surveillance network in Veterinary medicine (EARS-Vet): a bottom-up and One Health approach.

doi.org/10.1093/jac/dkab462 – 2022

Longitudinal sampling reveals persistence of and genetic diversity in extended-spectrum cephalosporin-resistant Escherichia coli from Norwegian broiler production. Frontiers in Microbiology

doi.org/10.3389/fmicb.2021.795127 – 2021

Building the European Antimicrobial Resistance Surveillance network in veterinary medicine (EARS-Vet)

10.2807/1560-7917.ES.2021.26.4.2001359 – 2021

The Effect of Antimicrobial Resistance Plasmids Carrying blaCMY-2 on Biofilm Formation by Escherichia coli from the Broiler Production Chain

https://doi.org/10.3390/microorganisms9010104 – 2021

Actinobacillus pleuropneumoniae Eradication with Enrofloxacin May Lead to Dissemination and Long-Term Persistence of Quinolone Resistant Escherichia coli in Pig Herds

10.3390/antibiotics9120910

Persistence of a stx-encoding bacteriophage in minced meat investigated by Application of an improved DNA extraction Method and digital droplet PCR.

10.3389/fmicb.2020.581575 – 2021

The prevalence and genomic context of Shiga toxin 2a genes in E. coli found in cattle

https://doi.org/10.1371/journal.pone.0232305 – 2020

blaCTX-M-1/IncI1-Iγ plasmids circulating in Escherichia coli from Norwegian broiler production are related, but distinguishable

10.3389/fmicb.2020.00333

Biofilm forming properties of quinolone resistant Escherichia coli from the broiler production chain and their dynamics in mixed biofilms

10.1186/s12866-020-01730-w – 2020

Comparative genome analyses of wildtype- and quinolone resistant Escherichia coli indicate dissemination of QREC in the Norwegian broiler breeding pyramid

10.3389/fmicb.2020.00938 – 2020

Dissemination of quinolone resistant Escherichia coli in the Norwegian broiler and pig production chain, and possible persistence in the broiler production environment

10.1128/AEM.02769-19 – 2020

Significant reduction of vancomycin resistant E. faecium in the Norwegian broiler population coincided with measures taken by the broiler industry to reduce antimicrobial resistant bacteria

10.1371/journal.pone.0226101 – 2019

Occurrence of and risk factors for extended-spectrum cephalosporin-resistant Enterobacteriaceae determined by sampling of all Norwegian broiler flocks during a six month period

https://doi.org/10.1371/journal.pone.0223074 – 2019

Occurrence and characterization of quinolone resistant Escherichia coli from Norwegian turkey meat and complete sequence of an IncX1 plasmid encoding qnrS1

10.1371/journal.pone.0212936 – 2019

Slaughter hygiene in European cattle and sheep abattoirs assessed by microbiological testing and Hygiene Performance Rating Food Control

10.1016/j.foodcont.2019.01.033 – 2019

Livestock-associated MRSA CC1 in Norway; introduction to pig farms, zoonotic transmission and eradication

https://doi.org/10.3389/fmicb.2019.00139 – 2019

What does the fox say? Monitoring antimicrobial resistance in the environment using wild red foxes as an indicator

10.1371/journal.pone.0198019

Occurrence of quinolone resistant E. coli originating from different animal species in Norway

10.1016/j.vetmic.2018.02.022 – 2018

Evaluation of a widely used culture-based method for detection of livestock-associated meticillin-resistant Staphylococcus aureus (MRSA), Denmark and Norway, 2014 to 2016

http://dx.doi.org/10.2807/1560-7917.ES.2017.22.28.30573 – 2017

Imported food and feed as contributors for introduction of plasmid-mediated colistin resistant Enterobacteriaceae to a “low prevalence” country

10.1093/jac/dkx161 – 2017

Hepatitis E in Norway: seroprevalence in humans and swine

10.1017/S0950268816002144 – 2016

CC398 in humans and pigs in Norway: A "One Health" perspective on introduction and transmission

10.1093/cid/ciw552

Emergence of AmpC-producing Escherichia coli in the broiler production chain in a country with a low antimicrobial usage profile

http://dx.doi.org/10.1016/j.vetmic.2014.02.002 – 2014

Potentially pathogenic E. coli can produce biofilm under conditions relevant for the food production chain

10.1128/AEM.03331-13. – 2014

Synthetic brominated furanone F202 prevents biofilm formation by potentially human pathogenic Escherichia coli O103:H2 and Salmonella ser. Agona

10.1111/jam.12355. – 2014

Occurrence of potentially human-pathogenic Escherichia coli O103 in Norwegian sheep

10.1128/AEM.01825-13 – 2013

Biofilm as an environment for dissemination of stx genes by transduction

10.1128/AEM.03512-12 – 2013

Two outbreaks of diarrhoea in nurseries after farm visits

10.2807/ese.17.47.20321-en. – 2012

Shiga toxin-encoding genes (stx) in human faecal samples in Norway

10.1111/j.1600-0463.2012.02957.x – 2012

No indication of Coxiella burnetii infection in Norwegian farmed ruminants

10.1186/1746-6148-8-59. – 2012

Norwegian sheep is an important reservoir for human pathogenic Escherichia coli O26:H11

10.1128/AEM.00186-12. – 2012

Potentially human pathogenic Escherichia coli O26 in Norwegian sheep flocks

10.1128/AEM.00189-11. – 2011

Pathogenic potential and horizontal gene transfer in ovine gastrointestinal Escherichia coli

10.1111/j.1365-2672.2009.04575.x. – 2010

Experimental infection in calves with a specific subtype of verocytotoxin-producing Escherichia coli O157:H7 of bovine origin

https://actavetscand.biomedcentral.com/articles/10.1186/1751-0147-51-43 – 2009

Diversity of Escherichia coli O157 in a longitudinal farm study using Multiple-Locus Variable-Number Tandem-Repeats Analysis

10.1111/j.1365-2672.2008.03856.x. – 2008

Is lack of susceptible recipients in the intestinal environment the limiting factor for transduction of Shiga toxin-encoding phages?

10.1111/j.1365-2672.2008.03845.x.

Comparison of E. coli O157 and Shiga toxin-encoding genes (stx) prevalence between Ohio and Norwegian dairy cattle

10.1016/j.ijfoodmicro.2006.01.005. – 2006

Fluctuations in the occurrence of E. coli O157:H7 on a Norwegian farm

10.1111/j.1472-765X.2005.01673.x. – 2005

Animal host associated differences in Shiga toxin-producing Escherichia coli from sheep and cattle on the same farm

10.1046/j.1365-2672.2003.01964.x. – 2003

Serotypes and virulence factors of Shiga toxin-producing Escherichia coli isolated from healthy Norwegian sheep

10.1046/j.1365-2672.2002.01787.x.

Isolation of Shiga toxin-producing Escherichia coli O103 from sheep using automated Immunomagnetic separation (AIMS) and AIMS-ELISA: Sheep as the source of a clinical E. coli O103 case?

10.1046/j.1472-765x.2002.01161.x. – 2002

Shiga toxin genes (stx) in Norwegian sheep herds

10.1017/s0950268801005751.

NORM/NORM-VET annual reports

https://www.vetinst.no/overvaking/antibiotikaresistens-norm-vet

MRSA in swine annual reports

https://www.vetinst.no/overvaking/mrsa-svin

Screening for antimicrobial- and heavy metal resistant bacteria in copper contaminated areas

ISSN:1893-4536
https://www.hi.no/hi/nettrapporter/rapport-fra-havforskningen-en-2021-18 – 2021

Antimikrobiell resistens hos dyr og i mat – status i Norge i 2020

https://www.vetinst.no/rapporter-og-publikasjoner/rapporter/2020/antimikrobiell-resistens-hos-dyr-og-i-mat-status-i-norge-i-2020/_/attachment/download/0c742118-c15b-406a-8368-e7e6a680e140:8d5141959da8af651af8ceea19d589f8286d9cd0/20_2020_Antimikrobiell resistens hos dyr og i mat.pdf – 2020

Antibiotikaresistens - Kunnskapshull, utfordringer og aktuelle tiltak. Status 2020. [Antimicrobial resistance – knowledge gaps, challenges and relevant measures. Status 2020.)

https://www.fhi.no/globalassets/dokumenterfiler/rapporter/2020/amr-kunnskapshull-rapport.pdf – 2020

Antibiotic resistance in terrestrial wild mammal species in Norway- roe deer and wild reindeer as indicator species.

https://www.vetinst.no/rapporter-og-publikasjoner/rapporter/2018/antibiotic-resistance-in-terrestrial-wild-mammal-species-in-norway-roe-deer-and-wild-reindeer-as-indicators-species/_/attachment/download/64496e0e-8615-4ddf-95ff-da7b82fcd573:6cbf798b78f8dbc652d7ba04ee13de0ec3ecb156/2018_6_Antibiotic resistance in terrestrial wild mammal species in Norway.pdf – 2018

A survey on methicillin resistant Staphylococcus aureus (MRSA) in mink in Norway 2016

ISSN 1894-5678
https://www.vetinst.no/nyheter/gode-resultater-for-mrsa-overvakingen-i-2016/_/attachment/download/8ceea1dd-5fa9-48c9-bbd2-b63b78aae4a1:0755f21a44f45f9c0f81eaa05678c04947c98c84/2017_OK_MRSA Mink_Report 2016.pdf – 2017

Antibiotikaresistens - kunnskapshull, utfordringer og aktuelle tiltak. Rapport fra tverrsektoriell ekspertgruppe, 2014

https://www.fhi.no/globalassets/dokumenterfiler/rapporter/2014/2014-antibiotikaresistens.pdf – 2014