

**COUNTRY: DENMARK****ONGOING MASTITIS-RELATED RESEARCH PROJECTS IN THE NORDIC COUNTRIES****JANUARY 2020**

Project title	Start yr	End yr	Contact person	Contact e-mail telephone
Mandatory <i>Streptococcus agalactiae</i> surveillance in Danish Dairy Herds	2009	Ongoing	Michael Farre	+45 87406658 <a href="mailto:MIFA@SEGES.dk">MIFA@SEGES.dk</a>
Effective monitoring and control of mastitis (EMCo-Mast)	2015	2020	Carsten Kirkeby Tariq Halasa	<a href="mailto:ckir@sund.ku.dk">ckir@sund.ku.dk</a> +45 30709439 <a href="mailto:tariq.halasa@sund.ku.dk">tariq.halasa@sund.ku.dk</a>
Operational mastitis management – with focus on infection dynamics and evaluation of treatment strategies. PhD scholarship.	2016	2020	Søren Østergaard Alice Puk Skarbye	<a href="mailto:soren.ostergaard@anis.au.dk">soren.ostergaard@anis.au.dk</a> +4587157961 <a href="mailto:alice.puk@anis.au.dk">alice.puk@anis.au.dk</a>
Quality control of microbiological diagnoses in Danish veterinary practices	2018	2020	Lærke B. Astrup	<a href="mailto:lboast@vet.dtu.dk">lboast@vet.dtu.dk</a> 0045 93510851
Functional validation of the genome sequence variants we have identified from the genome-wide association study using cell lines	2018	2022	Goutam Sahana	<a href="mailto:goutam.sahana@mbg.au.dk">goutam.sahana@mbg.au.dk</a>
Udder health in a top class	2019	2022	Michael Farre	+45 87406658 <a href="mailto:MIFA@SEGES.dk">MIFA@SEGES.dk</a>
Udder health in a world class	2019	2020	Michael Farre	+45 87406658 <a href="mailto:MIFA@SEGES.dk">MIFA@SEGES.dk</a>
PhD scholarship in antibiotic resistance among mastitis causing bacteria	2019	2022	Lærke B. Astrup	<a href="mailto:lboast@vet.dtu.dk">lboast@vet.dtu.dk</a> 0045 93510851
Mastitis milking parlour diagnostic	2019	2021	Lærke B. Astrup Helene Larsen	<a href="mailto:lboast@vet.dtu.dk">lboast@vet.dtu.dk</a> 0045 93510851 <a href="mailto:helela@dtu.dk">helela@dtu.dk</a> 0045 42440166

BovReg - Identification of functionally active genomic features relevant to phenotypic diversity and plasticity in cattle	2019	2023	Goutam Sahana	<a href="mailto:goutam.sahana@mbg.au.dk">goutam.sahana@mbg.au.dk</a>
Digital precision breeding – increased welfare and production in dairy cows (Danish part)	2020	2023	Tariq Halasa Völker Krömker	+45 30709439 <a href="mailto:tariq.halasa@sund.ku.dk">tariq.halasa@sund.ku.dk</a> <a href="mailto:volker.kroemker@sund.ku.dk">volker.kroemker@sund.ku.dk</a>
Evidence based clinical mastitis treatment	2020	2022	Völker Krömker	<a href="mailto:volker.kroemker@sund.ku.dk">volker.kroemker@sund.ku.dk</a>
Biofilm and mastitis in dairy cows	2020	2022	Rikke Buhl  Völker Krömker	+45 35332994 <a href="mailto:rib@sund.ku.dk">rib@sund.ku.dk</a> <a href="mailto:volker.kroemker@sund.ku.dk">volker.kroemker@sund.ku.dk</a>

**COUNTRY: FINLAND****ONGOING MASTITIS-RELATED RESEARCH PROJECTS IN THE NORDIC COUNTRIES****JANUARY 2020**

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Virulence of <i>S. aureus</i> and coagulase-negative staphylococci (several ongoing subprojects)	2003	ongoing	Suvi Taponen, Joanna Koort, Silja Åvall-Jääskeläinen, Heli Simojoki	<a href="mailto:suvi.taponen@helsinki.fi">suvi.taponen@helsinki.fi</a> <a href="mailto:joanna.koort@helsinki.fi">joanna.koort@helsinki.fi</a> <a href="mailto:silja.avall@helsinki.fi">silja.avall@helsinki.fi</a> <a href="mailto:heli.simojoki@helsinki.fi">heli.simojoki@helsinki.fi</a>
<i>Mycoplasma bovis</i> in bulk tank milk	2015	2020	Vera Haapala, Piret Kalmus, Heidi Hiitio, Jani Holopainen Heli Simojoki, Timo Soveri	<a href="mailto:vera.haapala@helsinki.fi">vera.haapala@helsinki.fi</a> <a href="mailto:piret.kalmus@emu.ee">piret.kalmus@emu.ee</a> <a href="mailto:heidi.hiitio@helsinki.fi">heidi.hiitio@helsinki.fi</a> <a href="mailto:jani.holopainen@thermofisher.com">jani.holopainen@thermofisher.com</a> <a href="mailto:heli.simojoki@helsinki.fi">heli.simojoki@helsinki.fi</a>
Drying-off practices in Finnish dairy herds	2016	2022	Päivi Rajala-Schultz Riitta Niemi, Maria Vilar, Mari Hovinen Heli Simojoki	<a href="mailto:paivi.rajala-schultz@helsinki.fi">paivi.rajala-schultz@helsinki.fi</a> <a href="mailto:riitta.e.niemi@helsinki.fi">riitta.e.niemi@helsinki.fi</a>
Teat diseases in Finland	2016	2020	Heli Simojoki, Niina Airas, Mari Hovinen, Päivi Rajala-Schultz	<a href="mailto:heli.simojoki@helsinki.fi">heli.simojoki@helsinki.fi</a> <a href="mailto:niina.airas@helsinki.fi">niina.airas@helsinki.fi</a> <a href="mailto:mari.hovinen@helsinki.fi">mari.hovinen@helsinki.fi</a> <a href="mailto:paivi.rajala-schultz@helsinki.fi">paivi.rajala-schultz@helsinki.fi</a>
Can Maldi-ToF MS differentiate <i>Staphylococcus agnetis</i> and <i>S. hyicus</i> ?	2018	2020	Suvi Taponen	<a href="mailto:suvi.taponen@helsinki.fi">suvi.taponen@helsinki.fi</a> <a href="mailto:karin.persson-waller@sva.se">karin.persson-waller@sva.se</a>
Antimicrobial resistance of mastitis causing staphylococci	2019	2021	Päivi Rajala-Schultz Suvi Taponen Heli Simojoki	<a href="mailto:paivi.rajala-schultz@helsinki.fi">paivi.rajala-schultz@helsinki.fi</a> <a href="mailto:suvi.taponen@helsinki.fi">suvi.taponen@helsinki.fi</a>
Antimicrobial resistance of <i>Streptococcus uberis</i> in milk samples of mastitic cows	2019	2022	Maria Vilar Päivi Rajala-Schultz Heli Simojoki	<a href="mailto:maria.vilar@helsinki.fi">maria.vilar@helsinki.fi</a> <a href="mailto:paivi.rajala-schultz@helsinki.fi">paivi.rajala-schultz@helsinki.fi</a> <a href="mailto:heli.simojoki@helsinki.fi">heli.simojoki@helsinki.fi</a>

**COUNTRY: NORWAY****ONGOING MASTITIS-RELATED RESEARCH PROJECTS IN THE NORDIC COUNTRIES****JANUARY 2020**

Project title	Start yr	End yr	Contact person	Contact e-mail telephone
Udder health in Automatic Milking Systems (AMS)	2015	2020	Gunnar Dalen TINE/NMBU, Olav Reksen NMBU	<a href="mailto:Gunnar.dalen@tine.no">Gunnar.dalen@tine.no</a>
Bovine mastitis: Genetic background of animals with chronic / subclinical mastitis (PhD project by Elena Kirsanova)	2016	2020	Ingrid Olsaker, Bjørg Heringstad, Anna M. Lewandowska- Sabat	<a href="mailto:Ingrid.olsaker@nmbu.no">Ingrid.olsaker@nmbu.no</a>
Changing patterns of ovine mastitis in a Norwegian meat sheep flock: risk factors, outcomes and impacts on flock health, welfare and production	2016	ongoing	Clare Phythian, NMBU	<a href="mailto:clare.phythian@nmbu.no">clare.phythian@nmbu.no</a>
Antimicrobial resistance (AMR): a sheep mastitis treatment problem or a sheep in wolf's clothing? (Moredun Research Institute/ Glasgow University & NMBU)	2016	ongoing	Ruth Zadoks, Glasgow Nuno Silva, Moredun Clare Phythian, NMBU	<a href="mailto:clare.phythian@nmbu.no">clare.phythian@nmbu.no</a>
The udder microbiome in dairy cows: importance for animal health and welfare, mastitis and milk quality	2017	2020	Judith Narvhus, project leader Birgit Ranheim, NMBU, Anne Cathrine Whist, TINE	<a href="mailto:Judith.narvhus@nmbu.no">Judith.narvhus@nmbu.no</a>
STATs expression in healthy and diseased ovine mammary tissue (University of Cambridge & NMBU)	2017	2020	Kate Hughes, Cambridge Clare Phythian, NMBU	<a href="mailto:clare.phythian@nmbu.no">clare.phythian@nmbu.no</a>

Increasing sustainability of Norwegian food production by tackling streptococcal infections in modern livestock systems	2018	2022	Hannah Jørgensen, Norwegian Veterinary Institute (NVI)/ Marit Smistad, Tine/NVI	<a href="mailto:Hannah.jorgensen@vetinst.no">Hannah.jorgensen@vetinst.no</a> <a href="mailto:Marit.smistad@tine.no">Marit.smistad@tine.no</a>
Sustainable use of antimicrobials for Norwegian dairy production in the future	2020	2021	Ane Nødtvedt, NMBU Anne Cathrine Whist/Håvard Nørstebø TINE	<a href="mailto:Ane.nodtvedt@nmbu.no">Ane.nodtvedt@nmbu.no</a>

**COUNTRY: SWEDEN****ONGOING MASTITIS-RELATED RESEARCH PROJECTS IN THE NORDIC COUNTRIES****JANUARY 2020**

Project title	Start yr	End yr	Contact person	Contact e-mail telephone
Udder cleft dermatitis and hock lesions in dairy cows	2014	2020	Karin Persson Waller, SVA	<a href="mailto:Karin.Persson-Waller@sva.se">Karin.Persson-Waller@sva.se</a> +46 (0)18 674000
Improved detection of mastitis in dairy cows	2016	2020	Ulf Emanuelson, SLU	<a href="mailto:Ulf.Emanuelson@slu.se">Ulf.Emanuelson@slu.se</a>
Control of <i>Streptococcus agalactiae</i> to reduce subclinical mastitis in pastoralist camel herds in Kenya	2016	2021	Erika Chenais, SVA	<a href="mailto:Erika.Chenais@sva.se">Erika.Chenais@sva.se</a> +46(0)18 674098
Studies on evolution of <i>Streptococcus agalactiae</i> milk isolates in Sweden from 1953 to 2012	2016	2020	Karin Persson Waller, SVA	<a href="mailto:Karin.Persson-Waller@sva.se">Karin.Persson-Waller@sva.se</a> +46 (0)18 674000
Good udder health in primiparous cows – a way to good economy in the dairy farm	2017	2020	Karin Persson Waller, SVA	<a href="mailto:Karin.Persson-Waller@sva.se">Karin.Persson-Waller@sva.se</a> +46 (0)18 674000
Swedish dairy farmers' decision making, attitudes, and motives to work preventively towards mastitis for improved animal welfare	2017	2020	Nina Lind, SLU	<a href="mailto:Nina.Lind@slu.se">Nina.Lind@slu.se</a> +46(0)18 671000
Individually adapted lactation length for paying and sustainable milk production	2018	2020	Kjell Holtenius, SLU	<a href="mailto:Kjell.holtenius@slu.se">Kjell.holtenius@slu.se</a> +46(0)18671000
Sensor based mastitis management in automatic milking system	2018	2023	Ulf Emanuelson, SLU	<a href="mailto:Ulf.Emanuelson@slu.se">Ulf.Emanuelson@slu.se</a> +46(0)18671826
Targeting key virulence factors in <i>Staphylococcus aureus</i> during the initial phase of infection using omics and live cell microscopy analyses	2018	2020	Karin Artursson, SVA	<a href="mailto:Karin.artursson@sva.se">Karin.artursson@sva.se</a> <a href="tel:+4618674000">+4618674000</a>
Genotyping for better knowledge of spread, virulence and resistance of coagulase-negative staphylococci from cases of mastitis in dairy cows including zoonotic aspects	2019	2021	Karin Persson Waller, SVA	<a href="mailto:Karin.Persson-Waller@sva.se">Karin.Persson-Waller@sva.se</a> +46 (0)18 674000
Drying-off and dry cow therapy – routines and attitudes among Swedish dairy farmers and veterinarians	2019	2020	Karin Persson Waller, SVA	<a href="mailto:Karin.Persson-Waller@sva.se">Karin.Persson-Waller@sva.se</a> +46 (0)18 674000

Climate change mitigation by a sustainable water buffalo dairy chain in Bangladesh.	2019	2021	Ylva Persson, SVA	<a href="mailto:Ylva.persson@sva.se">Ylva.persson@sva.se</a> +46(0)18674000
Extreme weather – impacts on health and productivity of dairy cows	2019	2022	Ulf Emanuelson, SLU	<a href="mailto:Ulf.emanuelson@slu.se">Ulf.emanuelson@slu.se</a> +46 (0)18 671826
Detection of udder pathogens in bedding materials	2020	2021	Charlotta Fasth, SVA	<a href="mailto:Charlotta.Fasth@sva.se">Charlotta.Fasth@sva.se</a>
Optimal antibiotic treatment of acute clinical mastitis in dairy cows – a possibility to reduce the use of antibiotics without reducing treatment efficacy	2020	2023	Karin Persson Waller, SVA	<a href="mailto:Karin.Persson-Waller@sva.se">Karin.Persson-Waller@sva.se</a> +46 (0)18 674000
Mastitis in a sustainable dairy production - strategies and recovery	2020	2022	Nils Fall, SLU	<a href="mailto:Nils.fall@slu.se">Nils.fall@slu.se</a> +46 (0)18 671000
Understanding antibiotic use decision making in contrasting countries and animal species - On the road to reducing antimicrobial resistance for all	2020	2022	Gabriela Olmos Antillón	<a href="mailto:gabriela.olmos.antillon@slu.se">gabriela.olmos.antillon@slu.se</a> +46 (0)18 671000
Precision livestock breeding – improving both health and production in dairy cattle	2020	2022	Lars Rönnegård	<a href="mailto:Lars.Ronnegard@slu.se">Lars.Ronnegard@slu.se</a>