Research outputs:

Effects of control measures on the spread of LA-MRSA among Danish pig herds between 2006 and 2015 – a simulation study
Schulz, J., Boklund, A., Toft, N. & Halasa, T., 1 Dec 2019, In : Scientific Reports. 9, 1, 9 p., 691.
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Continuing occurrence of vancomycin resistance determinants in Danish pig farms 20 years after removing exposure to avoparcin
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Economic and epidemiological impact of different intervention strategies for clinical contagious mastitis
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Economic and epidemiological impact of different intervention strategies for subclinical and clinical mastitis
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Simulation of transmission and persistence of African swine fever in wild boar in Denmark
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Transmission dynamics of Staphylococcus aureus within two Danish dairy cattle herds
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Vildsvinehegn virker som en del af løsningen
Research output: Contribution to journal › Contribution to newspaper - Comment/debate – Annual report year: 2018 › Communication

Afrikansk svinepest
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research

Afrikansk svinepest - en alvorlig trussel for hele svinebranchen
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Analysis of the dynamics of Staphylococcus aureus in two Danish dairy cattle herds
Research output: Contribution to conference › Poster – Annual report year: 2018 › Research › peer-review

A new method for estimating transmission rates of mastitis-causing pathogens
A strain-, cow-, and herd-specific bio-economic simulation model of intramammary infections in dairy cattle herds

Drivers for Livestock-Associated Methicillin-Resistant Staphylococcus Aureus Spread Among Danish Pig Herds - A Simulation Study

Evaluating the impact of transmission mode, calibration level and farmer compliance in simulation models of paratuberculosis in dairy herds

Infection of pigs with African swine fever virus via ingestion of stable flies (Stomoxys calcitrans)

Mechanistic modelling of interventions against spread of livestock-associated methicillin-resistant Staphylococcus aureus (LA-MRSA) within a Danish farrow-to-finish pig herd


Modeling the Effects of Duration and Size of the Control Zones on the Consequences of a Hypothetical African Swine Fever Epidemic in Denmark

Persistence of antimicrobial resistance genes from sows to finisher pigs

Risk factors for the occurrence of livestock-associated methicillin-resistant Staphylococcus aureus (LA-MRSA) in Danish pig herds
Sørensen, A. I. V., Jensen, V. F., Boklund, A., Halasa, T., Christensen, H. & Toft, N., 2018, In: Preventive Veterinary Medicine. 159, p. 152-159

Send more data: a systematic review of mathematical models of antimicrobial resistance
Evaluation of Strategies to Control a Potential Outbreak of Foot-and-Mouth Disease in Sweden

Farm-level risk factors for Fasciola hepatica infection in Danish dairy cattle as evaluated by two diagnostic methods

Methods for estimating disease transmission rates: Evaluating the precision of Poisson regression and two novel methods

Resource Estimations in Contingency Planning for Foot-and-Mouth Disease

Semiquantitative Decision Tools for FMD Emergency Vaccination Informed by Field Observations and Simulated Outbreak Data
Spatial patterns of antimicrobial resistance genes in a cross-sectional sample of pig farms with indoor non-organic production of finishers
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Transmission of African swine fever virus from infected pigs by direct contact and aerosol routes
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Treatment Patterns for Mastitis in Danish Dairy Cattle Farms
Research output: Contribution to conference › Poster – Annual report year: 2017 › Research › peer-review

What tools are useful for monitoring endemic diseases? A simulation study based on different time-series components.
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Adaptive Test Schemes for Control of Paratuberculosis in Dairy Cows
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

A herd- and cow-specific decision support tool for control of mastitis
Research output: Contribution to conference › Poster – Annual report year: 2016 › Research › peer-review

A simulation model for the spread of LA-MRSA within a pig herd
Research output: Contribution to conference › Poster – Annual report year: 2016 › Research › peer-review

A space-time analysis of Mycoplasma bovis: bulk tank milk antibody screening results from all Danish dairy herds in 2013-2014
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Comparing algorithms performance for monitoring endemic disease: a simulation study based on the Danish PRRSV monitoring program
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2016 › Research › peer-review

Comparing algorithms performance for monitoring endemic disease: a simulation study based on the Danish PRRSV monitoring program
Research output: Contribution to conference › Poster – Annual report year: 2016 › Research › peer-review

Control of African swine fever epidemics in industrialized swine populations
Determining the optimal number of individual samples to pool for quantification of average herd levels of antimicrobial resistance genes in Danish pig herds using high-throughput qPCR

Dynamic generalized linear models for monitoring endemic diseases: moving beyond univariate process monitoring control algorithms

Economic analysis of activities to prevent foot and mouth disease in Denmark

Experimental pig-to-pig transmission study with a recent European African Swine Fever virus isolate

Models to Estimate Lactation Curves of Milk Yield and Somatic Cell Count in Dairy Cows at the Herd Level for the Use in Simulations and Predictive Models

Optimised surveillance for paratuberculosis

Simulating the epidemiological and economic effects of an African swine fever epidemic in industrialized swine populations
Hisham Beshara Halasa, T., Bøtner, A., Mortensen, S., Christiansen, H., Toft, N. & Boklund, A., 2016, In : Veterinary Microbiology. 193, p. 7-16

Simulating the Epidemiological and Economic Impact of Paratuberculosis Control Actions in Dairy Cattle

Simulation of Spread of African Swine Fever, Including the Effects of Residues from Dead Animals
Spatial patterns of Antimicrobial Resistance Genes in Danish Pig Farms
Birkegård, A. C., Erssøll, A. K., Hisham Beshara Halasa, T., Clasen, J., Folkesson, A., Vigre, H. & Toft, N., 2016,

Towards control of LA-MRSA - Simulation modeling of LA-MRSA spread between pig farms

What to look for when monitoring animal diseases?

A Bayesian herd-level diagnostic test evaluation - Mycoplasma bovis

A space-time analysis of Mycoplasma bovis in Denmark

Comparison of individual and pooled samples for quantification of antimicrobial resistance genes in swine feces by high-throughput qPCR

iCull – A bioeconomic model for herd management and disease control

Improving the Effect and Efficiency of FMD Control by Enlarging Protection or Surveillance Zones

Latent class analysis of bulk tank milk PCR and ELISA testing for herd level diagnosis of Mycoplasma bovis

Mean effective sensitivity for Mycobacterium avium subsp paratuberculosis infection in cattle herds

Monitoring PRRS based on laboratory submissions: a simulation study to evaluate detection algorithms performance
Association of map specific ELISA-responses and productive parameters in 367 danish dairy farms
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

iCull - a herd-specific tool for financial evaluation of the impact of paratuberculosis
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

Impact of clinical surveillance during a foot-and-mouth disease epidemic
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2014 › Research › peer-review

Infections with cardiopulmonary and intestinal helminths and sarcoptic mange in red foxes from two different localities in Denmark
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Opportunities and challenges of using diagnostic databases for monitoring livestock diseases in Denmark
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2014 › Research › peer-review

Opportunities and challenges of using diagnostic databases for monitoring livestock diseases in Denmark
Research output: Contribution to conference › Poster – Annual report year: 2014 › Research › peer-review

Resource estimations in contingency planning for FMD
Research output: Contribution to conference › Poster – Annual report year: 2014 › Research › peer-review

Spatiotemporal analysis of the Porcine Reproductive and Respiratory Syndrome epidemic in Denmark using laboratory submission data
Research output: Contribution to conference › Poster – Annual report year: 2014 › Research
Comparison of different control strategies on FMD in Denmark
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2012 – Research – peer-review

Consequence of changes in herd size and densities for the contingency planning
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2012 – Research – peer-review

General introduction to simulation models
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2012 – Research – peer-review

Influence of livestock markets on the spread of FMD
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2012 – Research – peer-review

Input parameters and scenarios, including economic inputs
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2012 – Research – peer-review

Input parameters in the models
Boklund, A., Hisham Beshara Halasa, T., Christiansen, L. E. & Enøe, C., 2012

Meta-analysis on the efficacy of foot-and-mouth disease emergency vaccination
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2012 – Research – peer-review

Model's comparison
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2012 – Research – peer-review

Optimizing the control of foot-and-mouth disease in Denmark by simulation: Meta-analysis on the efficacy of foot-and-mouth disease emergency vaccination
Hisham Beshara Halasa, T., Boklund, A. & Enøe, C., 2012

Optimizing the control of foot-and-mouth disease in Denmark by simulation: Foot-and-mouth disease simulation modeling
Hisham Beshara Halasa, T. & Boklund, A., 2012
Optimizing the control of foot-and-mouth disease in Denmark by simulation: Comparison of foot-and-mouth disease simulation models
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2012 › Research › peer-review

Optimizing the control of foot-and-mouth disease in Denmark by simulation: Comparison of different control strategies on FMD in Denmark
Boklund, A., Hisham Beshara Halasa, T., Christiansen, L. E. & Enøe, C., 2012
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2012 › Research › peer-review

Optimizing the control of foot-and-mouth disease in Denmark by simulation: Influence of livestock markets on spread of FMD
Boklund, A., Hisham Beshara Halasa, T., Christiansen, L. E. & Enøe, C., 2012
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2012 › Research › peer-review

Optimizing the control of foot-and-mouth disease in Denmark by simulation: Consequences of changes in herd sizes and densities for the contingency planning
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2012 › Research › peer-review

Predicting the structural development in Danish livestock and how it affects control strategies against FMD
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review

Simple decision tools to help optimize the control strategy 2 weeks into a Danish FMD epidemic
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review

Simulated Effects of Introducing Emergency Vaccination or Depopulation During FMD Outbreaks in Denmark
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2012 › Research › peer-review

Simulation of the influence of Danish cattle markets on a Foot-and-Mouth epidemic
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2012 › Research › peer-review

Simuleringsstudier af konsekvenser af mund- og klovesyge i Danmark
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2012 › Research › peer-review

Source attribution of human campylobacteriosis using a meta-analysis of case-control studies of sporadic infections
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Source attribution of human salmonellosis using a meta-analysis of case-control studies of sporadic infections
Meta-analysis on the efficacy of foot-and-mouth disease emergency vaccination
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Modelling food safety and economic consequences of surveillance and control strategies for Salmonella in pigs and pork
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

A simulation model to calculate costs and benefits of dry period interventions in dairy cattle
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Bioeconomic modeling of lactational antimicrobial treatment of new bovine subclinical intramammary infections caused by contagious pathogens
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Meta-analysis of dry cow management for dairy cattle. Part 1. Protection against new intramammary infections
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Meta-analysis of dry cow management for dairy cattle. Part 2. Cure of existing intramammary infections
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Production loss due to new subclinical mastitis in Dutch dairy cows estimated with a test-day model
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Stochastic bio-economic model of bovine intramammary infection
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Economic effects of bovine mastitis and mastitis management: A review
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Projects:

Veterinary epidemiology with emphasis on the association between spatial proximity, contact structures, antibiotic consumption and antibiotic resistance
Birkegård, A. C., Toft, N., Hisham Beshara Halasa, T., Boklund, A., Dewulf, J. & Nielsen, S. S.
Samfinansieret - Andet
01/12/2013 → 20/12/2017
Project: PhD

Development of a herd- and cow-specific decision support tool for control of mastitis
Samfinansieret - Andet
01/07/2015 → 30/09/2018
**Simulation modeling of LA-MRSA dispersal and control between swine herds**
Schulz, J., Hisham Beshara Halasa, T., Boklund, A., Toft, N., Jensen, V. F., Baekbo, P. & Selhorst, T.
Offentlig finansiering
01/05/2015 → 21/02/2019
Project: PhD

**The spread and control of LA-MRSA within Danish pig herds**
Offentlig finansiering
01/04/2015 → 20/06/2018
Project: PhD

**Veterinary Epidemiology with focus on monitoring livestock disease using diagnostic databases**
Lopes Antunes, A. C., Toft, N., Hisham Beshara Halasa, T., Jensen, V. F., Revie, C. W. & Mortensen, S.
Offentlig finansiering
15/12/2013 → 26/04/2017
Project: PhD

**Optimizing the bulk milk tank surveillance in Danish dairy cattle**
Institut, samfinansiering
01/07/2010 → 09/03/2015
Project: PhD

**iCull: iCull**
Kirkeby, C. T., Hisham Beshara Halasa, T., Græsbøll, K., Christiansen, L. E., Toft, N. & Saxmose, S.
01/11/2013 → 31/10/2015
Project: Research

**Activities:**

**Maul- und Klauenseuche – verschiedene Bekämpfungsmethoden und ihre Auswirkungen**
Carola Sauter-Louis (Other), Christoph Staubach (Other), Thomas Selhorst (Other), Tariq Hisham Beshara Halasa (Guest lecturer), Christine Pottgiese (Other), Jorn Gethmann (Other), Carolina Probst (Other), Brend Haas (Other), Franz J. Conraths (Other)
6 Sep 2017 → 8 Sep 2017
Activity: Talks and presentations › Conference presentations