Research outputs:

**Effects of control measures on the spread of LA-MRSA among Danish pig herds between 2006 and 2015 – a simulation study**
Research output: Research › peer-review › Journal article – Annual report year: 2019

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

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

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

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

**Afrikansk svinepest**
Research output: Research › Journal article – Annual report year: 2018

**Afrikansk svinepest - en aivorlig trussel for hele svinebranchen**
Research output: Research › peer-review › Journal article – Annual report year: 2018

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

**A new method for estimating transmission rates of mastitis-causing pathogens**
Research output: Research › peer-review › Poster – Annual report year: 2018

**A strain-, cow-, and herd-specific bio-economic simulation model of intramammary infections in dairy cattle herds**
Research output: Research › peer-review › Journal article – Annual report year: 2018

**Drivers for Livestock-Associated Methicillin-Resistant Staphylococcus Aureus Spread Among Danish Pig Herds - A Simulation Study**
Research output: Research › peer-review › Journal article – Annual report year: 2018

**Evaluating the impact of transmission mode, calibration level and farmer compliance in simulation models of paratuberculosis in dairy herds**
Research output: Research › peer-review › Journal article – Annual report year: 2018

**Infection of pigs with African swine fever virus via ingestion of stable flies (Stomoxys calcitrans)**
Research output: Research › peer-review › Journal article – Annual report year: 2018

**Mechanistic modelling of interventions against spread of livestock-associated methicillin-resistant Staphylococcus aureus (LA-MRSA) within a Danish farrow-to-finish pig herd**
Research output: Research › peer-review › Journal article – Annual report year: 2018
Research output: Communication › Comment/debate – Annual report year: 2018

Modeling the Effects of Duration and Size of the Control Zones on the Consequences of a Hypothetical African Swine Fever Epidemic in Denmark
Research output: Research - peer-review › Journal article – Annual report year: 2018

Persistence of antimicrobial resistance genes from sows to finisher pigs
Research output: Research - peer-review › Journal article – Annual report year: 2018

Risk factors for the occurrence of livestock-associated methicillin-resistant Staphylococcus aureus (LA-MRSA) in Danish pig herds
Research output: Research - peer-review › Journal article – Annual report year: 2018

Send more data: a systematic review of mathematical models of antimicrobial resistance
Research output: Research - peer-review › Journal article – Annual report year: 2018

Short time window for transmissibility of African swine fever virus from a contaminated environment
Research output: Research - peer-review › Journal article – Annual report year: 2018

A Cow- and Herd-specific Bio-Economic Model of Intramammary Infections in Dairy Cows
Research output: Research - peer-review › Poster – Annual report year: 2017

A Cow- and Herd-specific Bio-Economic Model of Intramammary Infections in Dairy Cows
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

A mechanistic model for spread of livestock-associated methicillin-resistant Staphylococcus aureus (LA-MRSA) within a pig herd
Research output: Research - peer-review › Journal article – Annual report year: 2017

A Robust Statistical Model to Predict the Future Value of the Milk Production of Dairy Cows Using Herd Recording Data
Research output: Research - peer-review › Journal article – Annual report year: 2017

A simulation study to evaluate the performance of five statistical monitoring methods when applied to different time-series components in the context of control programs for endemic diseases
Research output: Research - peer-review › Journal article – Annual report year: 2017

Association between selected antimicrobial resistance genes and antimicrobial exposure in Danish pig farms
Research output: Research - peer-review › Journal article – Annual report year: 2017

Computational algorithm for lifetime exposure to antimicrobials in pigs using register data – the LEA algorithm
Research output: Research - peer-review › Journal article – Annual report year: 2017

Determinants for Treatments in Relation to Udder Health in Danish Dairy Cattle Farms
Research output: Research › Poster – Annual report year: 2017

Determinants of antimicrobial treatment for udder health in Danish dairy cattle herds
Research output: Research - peer-review › Journal article – Annual report year: 2017

Editorial: Modeling disease spread and control
Research output: Research - peer-review › Editorial – Annual report year: 2017
Estimation of the transmission dynamics of African swine fever virus within a swine house
Research output: Research - peer-review › Journal article – Annual report year: 2017

Evaluation of Strategies to Control a Potential Outbreak of Foot-and-Mouth Disease in Sweden
Research output: Research - peer-review › Journal article – Annual report year: 2017

Farm-level risk factors for Fasciola hepatica infection in Danish dairy cattle as evaluated by two diagnostic methods
Research output: Research - peer-review › Journal article – Annual report year: 2017

Methods for estimating disease transmission rates: Evaluating the precision of Poisson regression and two novel methods
Research output: Research - peer-review › Journal article – Annual report year: 2017

Modelling spread of MRSA within a pig herd
Research output: Research - peer-review › Poster – Annual report year: 2017

Mulighederne for en bedre udnyttelse af de økonomiske ressourcer til det veterinære beredskab for mund- og klovsyge
Research output: Research › Report – Annual report year: 2017

Network analysis of pig movements: Loyalty patterns and contact chains of different holding types in Denmark
Research output: Research - peer-review › Journal article – Annual report year: 2017

Opportunities and challenges when pooling milk samples using ELISA
Research output: Research - peer-review › Journal article – Annual report year: 2017

Resource Estimations in Contingency Planning for Foot-and-Mouth Disease
Research output: Research - peer-review › Journal article – Annual report year: 2018

Sampling pig farms at the abattoir in a cross-sectional study – Evaluation of a sampling method
Research output: Research - peer-review › Journal article – Annual report year: 2017

Semiquantitative Decision Tools for FMD Emergency Vaccination Informed by Field Observations and Simulated Outbreak Data
Research output: Research - peer-review › Journal article – Annual report year: 2017

Simulating control of paratuberculosis in Danish dairy herds
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Spatial patterns of antimicrobial resistance genes in a cross-sectional sample of pig farms with indoor non-organic production of finishers
Research output: Research - peer-review › Journal article – Annual report year: 2017

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

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

What tools are useful for monitoring endemic diseases? A simulation study based on different time-series components.
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017
Adaptive Test Schemes for Control of Paratuberculosis in Dairy Cows
Research output: Research - peer-review › Journal article – Annual report year: 2016

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

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

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

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

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

Control of African swine fever epidemics in industrialized swine populations
Research output: Research - peer-review › Journal article – Annual report year: 2016

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
Research output: Research - peer-review › Journal article – Annual report year: 2016

Dynamic generalized linear models for monitoring endemic diseases: moving beyond univariate process monitoring control algorithms
Research output: Research › Article in proceedings – Annual report year: 2016

Economic analysis of activities to prevent foot and mouth disease in Denmark
Research output: Research - peer-review › Article in proceedings – Annual report year: 2016

Experimental pig-to-pig transmission study with a recent European African Swine Fever virus isolate
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

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
Research output: Research - peer-review › Journal article – Annual report year: 2016

Monitoring endemic livestock diseases using laboratory diagnostic data: A simulation study to evaluate the performance of univariate process monitoring control algorithms
Research output: Research - peer-review › Journal article – Annual report year: 2016

Optimised surveillance for paratuberculosis
Research output: Research - peer-review › Poster – Annual report year: 2016

Simulating the epidemiological and economic effects of an African swine fever epidemic in industrialized swine populations
Research output: Research - peer-review › Journal article – Annual report year: 2016
Simulating the Epidemiological and Economic Impact of Paratuberculosis Control Actions in Dairy Cattle
Research output: Research - peer-review › Journal article – Annual report year: 2016

Simulation of Spread of African Swine Fever, Including the Effects of Residues from Dead Animals
Research output: Research - peer-review › Journal article – Annual report year: 2016

Spatial patterns of Antimicrobial Resistance Genes in Danish Pig Farms
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Towards control of LA-MRSA - Simulation modeling of LA-MRSA spread between pig farms
Research output: Research - peer-review › Poster – Annual report year: 2016

What to look for when monitoring animal diseases?
Research output: Research - peer-review › Poster – Annual report year: 2016

A Bayesian herd-level diagnostic test evaluation - Mycoplasma bovis
Research output: Research - peer-review › Poster – Annual report year: 2015

A space-time analysis of Mycoplasma bovis in Denmark
Research output: Research - peer-review › Poster – Annual report year: 2015

Comparison of individual and pooled samples for quantification of antimicrobial resistance genes in swine feces by high-throughput qPCR
Research output: Research - peer-review › Poster – Annual report year: 2015

iCull – A bioeconomic model for herd management and disease control
Research output: Research - peer-review › Poster – Annual report year: 2015

Improving the Effect and Efficiency of FMD Control by Enlarging Protection or Surveillance Zones
Research output: Research - peer-review › Journal article – Annual report year: 2015

Latent class analysis of bulk tank milk PCR and ELISA testing for herd level diagnosis of Mycoplasma bovis
Research output: Research - peer-review › Journal article – Annual report year: 2015

Mean effective sensitivity for Mycobacterium avium subsp paratuberculosis infection in cattle herds
Research output: Research - peer-review › Journal article – Annual report year: 2015

Monitoring PRRS based on laboratory submissions: a simulation study to evaluate detection algorithms performance
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Monitoring PRRS based on laboratory submissions: A simulation study to evaluate detection algorithms performance.
Research output: Research - peer-review › Poster – Annual report year: 2015

Monitoring PRRS sero-prevalence in Danish breeding herds: Evaluation of algorithms performance
Research output: Research - peer-review › Poster – Annual report year: 2015

Planning a cross-sectional study of antimicrobial resistance genes in Danish pig farms
Research output: Research - peer-review › Poster – Annual report year: 2015

Planning a cross-sectional study of antimicrobial resistance genes in Danish pig farms
Research output: Research - peer-review › Poster – Annual report year: 2015
Prevalence, risk factors and spatial analysis of infections with liver flukes in Danish cattle herds
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Simulator bruges i kampen mod plasmacytose
Research output: Research - peer-review › Journal article – Annual report year: 2015

Simulering af kontroloforanstaltninger til bekæmpelse af plasmacytose i minkfarmer
Research output: Research - peer-review › Journal article – Annual report year: 2015

Simulering af tiltag til bekæmpelse af plasmacytose i mink
Research output: Research › Book chapter – Annual report year: 2015

Spatial analysis and temporal trends of porcine reproductive and respiratory syndrome in Denmark from 2007 to 2010 based on laboratory submission data
Research output: Research - peer-review › Journal article – Annual report year: 2015

A Comparison between Two Simulation Models for Spread of Foot-and-Mouth Disease
Research output: Research - peer-review › Journal article – Annual report year: 2014

Association of MAP specific ELISA-responses and productive parameters in 314 Danish dairy farms
Research output: Research - peer-review › Poster – Annual report year: 2014

Association of map specific ELISA-responses and productive parameters in 367 Danish dairy farms
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

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

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

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

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

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

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

Resource Estimations in Contingency Planning for Foot-And-Mouth Disease
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014
Resource Estimations in Contingency Planning for Foot-And-Mouth Disease
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Spatiotemporal analysis of the Porcine Reproductive and Respiratory Syndrome epidemic in Denmark using laboratory submission data
Research output: Research › Poster – Annual report year: 2014

Spatiotemporal analysis of the Porcine Reproductive and Respiratory Syndrome (PRRS) epidemic in Denmark using laboratory submission data
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Spatiotemporal patterns, annual baseline and movement-related incidence of Streptococcus agalactiae infection in Danish dairy herds: 2000–2009
Research output: Research - peer-review › Journal article – Annual report year: 2014

Stochastic simulation modeling to determine time to detect Bovine Viral Diarrhea antibodies in bulk tank milk
Research output: Research - peer-review › Journal article – Annual report year: 2014

The Impact of Resources for Clinical Surveillance on the Control of a Hypothetical Foot-and-Mouth Disease Epidemic in Denmark.
Research output: Research - peer-review › Journal article – Annual report year: 2014

Comparing control strategies against foot-and-mouth disease: Will vaccination be cost-effective in Denmark?
Research output: Research - peer-review › Journal article – Annual report year: 2013

Decisions on control of foot-and-mouth disease informed using model predictions
Research output: Research - peer-review › Journal article – Annual report year: 2013

Decisions on foot-and-mouth disease control informed by model prediction
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Simulated effects of changes in herd sizes and densities with regard to fmd outbreaks in Denmark
Research output: Research - peer-review › Poster – Annual report year: 2013

Research output: Research - peer-review › Poster – Annual report year: 2013

Research output: Research - peer-review › Journal article – Annual report year: 2013

Annual incidence, prevalence and transmission characteristics of Streptococcus agalactiae in Danish dairy herds
Research output: Research - peer-review › Journal article – Annual report year: 2012

Bioeconomic modeling of intervention against clinical mastitis caused by contagious pathogens
Research output: Research - peer-review › Journal article – Annual report year: 2012

Comparison of different control strategies on FMD in Denmark
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Consequence of changes in herd size and densities for the contingency planning
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012
General introduction to simulation models
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Influence of livestock markets on the spread of FMD
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Input parameters and scenarios, including economic inputs
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Input parameters in the models
Research output: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2012

Meta-analysis on the efficacy of foot-and-mouth disease emergency vaccination
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Model's comparison
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Optimizing the control of foot-and-mouth disease in Denmark by simulation: Meta-analysis on the efficacy of foot-and-mouth disease emergency vaccination
Research output: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2012

Optimizing the control of foot-and-mouth disease in Denmark by simulation: Foot-and-mouth disease simulation modeling
Research output: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2012

Optimizing the control of foot-and-mouth disease in Denmark by simulation: Comparison of foot-and-mouth disease simulation models
Research output: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2012

Optimizing the control of foot-and-mouth disease in Denmark by simulation: Comparison of different control strategies on FMD in Denmark
Research output: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2012

Optimizing the control of foot-and-mouth disease in Denmark by simulation: Influence of livestock markets on spread of FMD
Research output: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2012

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: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2012

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

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

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

Simulation of the influence of Danish cattle markets on a Foot-and-Mouth epidemic
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2012
Simuleringsstudier af konsekvenser af mund- og klovesyge i Danmark
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2012

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

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

Meta-analysis on the efficacy of foot-and-mouth disease emergency vaccination
Research output: Research - peer-review › Journal article – Annual report year: 2011

Modelling food safety and economic consequences of surveillance and control strategies for Salmonella in pigs and pork
Research output: Research - peer-review › Journal article – Annual report year: 2010

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

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

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

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

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

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

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

Projects:

Veterinary epidemiology with emphasis on the association between spatial proximity, contact structures, antibiotic consumption and antibiotic resistance
Project: PhD

Development of a herd- and cow-specific decision support tool for control of mastitis
Project: PhD

Simulation modeling of LA-MRSA dispersal and control between swine herds
Project: PhD
The spread and control of LA-MRSA within Danish pig herds  
Project: PhD

Veterinary Epidemiology with focus on monitoring livestock disease using diagnostic databases  
Project: PhD

Optimizing the bulk milk tank surveillance in Danish dairy cattle  
Project: PhD

iCull  
Project: Research

Activities:

Maul- und Klauenseuche – verschiedene Bekämpfungsmethoden und ihre Auswirkungen  
Activity: Talks and presentations » Conference presentations