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Research outputs

A simulation model for highly pathogenic avian influenza spread in Danish wild birds

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Ny forskning viser vejen til at reducere både mastitis og antibiotikaforbrug. De danske landmænd kan balancere mellem antibiotikaforbrug og mastitis. Et nyt studie viser, at det er muligt at reducere begge dele

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Differential Somatic Cell Count (DSCC) for Detecting Intra-mammary Infections

Kirkeby, Carsten, 29 Jan 2019.

A cohort study of the effect of *Streptococcus agalactiae* on milk yield and somatic cell count in Norwegian dairy cows

Holmøy, I. H., Toftaker, I., Kirkeby, Carsten, Østerås, O., Jørgensen, H. J. & Nødtvedt, A., 2019, In: Journal of Dairy Science. 102, 9, p. 8385-8399

Associations between udder health and culling in dairy cows

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Composite or aseptic quarter milk samples: Sensitivity and specificity of PCR and bacterial culture of *Staphylococcus aureus* based on Bayesian latent class evaluation

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Gussmann, Maya Katrin, Steeneveld, W., Kirkeby, Carsten, Hogeveen, H., Nielen, M., Farre, M. & Halasa, T., 2019, In: Journal of Dairy Science. 102, 2, p. 1483-1493

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A strain-, cow-, and herd-specific bio-economic simulation model of intramammary infections in dairy cattle herds
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Improving productivity in growing pigs by combining specific and non-specific monitoring

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Haider, N., Kristensen, B., Kirkeby, Carsten, Toft, N. & Bødker, René, 2016.

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Ny forskning optimerer overvågning af paratuberkulose

Kirkeby, Carsten, 2015, In: Bovilgisk. September, p. 20-21 2 p.

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Mikroskopiske droners hemmelige mission afsløret

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Rapid spread of Schmallenberg virus-infected biting midges (*Culicoides* spp.) across Denmark in 2012

Rasmussen, L. D., Kirkeby, Carsten, Bødker, René, Kristensen, B., Rasmussen, T. B., Belsham, G. & Bøtner, A., 2014, In: Transboundary and Emerging Diseases. 61, 1, p. 12-16 5 p.

Sibirsk mitte opdaget i Småland

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iCull - a herd-specific tool for financial evaluation of the impact of paratuberculosis

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Quantifying Dispersal of European Culicoides (Diptera: Ceratopogonidae) Vectors between Farms Using a Novel Mark-Release-Recapture Technique

Kirkeby, Carsten, Bødker, René, Stockmarr, A., Lind, P. & Heegaard, P. M. H., 2013, In: P L o S One. 8, 4, e61269.

Spatial abundance and clustering of Culicoides (Diptera: Ceratopogonidae) on a local scale

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Spatio-temporal abundance and dispersal of Culicoides

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Spatio-temporal abundance of Culicoides on a local scale

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Spatio-temporal optimization of sampling for bluetongue vectors (Culicoides) near grazing livestock

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The range of attraction for light traps catching *Culicoides* biting midges (Diptera: Ceratopogonidae)

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Emerging Schmallenberg and Bluetongue virus in Europe – what should we expect next?

Bødker, René, Kristensen, B., Græsbøll, K., Kirkeby, Carsten, Skovgaard, H. & Nielsen, S. A., 2012.

Evidence for *Culicoides obsoletus* group as vector for Schmallenberg virus in Denmark

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Schmallenberg virus fundet i mitter i Danmark

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The impact of climate environment and control on *Culicoides* borne Schmallenberg virus

Bødker, René, Kristensen, B., Græsbøll, K., Kirkeby, Carsten, Skovgaard, H. & Nielsen, S. A., 2012.

R0-modeling as a tool for early warning and surveillance of exotic vector borne diseases in Denmark

Bødker, René, Kristensen, B., Græsbøll, K., Kirkeby, Carsten & Stockmarr, A., 2011

Spatial models for the distribution of *Culicoides* on a local scale

Kirkeby, Carsten, Bødker, René, Stockmarr, A. & Lind, P., 2011

An atlas of climatic and environmental determinants of present and future veterinary and zoonotic diseases in the Nordic area

Bødker, René & Kirkeby, Carsten, 2010.

Mitternes gådefulde liv

Kirkeby, Carsten, 2010, In: Faar. 75, 01, p. 14-15 2 p.

Modeling the density of bluetongue vectors in a field

Kirkeby, Carsten, Bødker, René & Stockmarr, A., 2010.

Modelling the seasonal variation in the basic reproduction ratio for bluetongue – a model incorporating Culicoides biology to quantify the vaccination cover needed to prevent outbreaks in the Nordic countries

Bødker, René, Græsbøll, K., Kristensen, B., Kirkeby, Carsten & Stockmarr, A., 2010.

Simple spatial distribution models for vector density in a field: Bloodsucking creatures from dusk to dawn

Kirkeby, Carsten, Bødker, René, Stockmarr, A., Lind, P. & Græsbøll, K., 2010

Simulating the spread of Bluetongue virus – Focused on the effects of spatial distribution of cattle

Græsbøll, K., Bødker, René, Christiansen, L. E., Enøe, C. & Kirkeby, Carsten, 2010

Association between land cover and Culicoides (Diptera: Ceratopogonidae) breeding sites on four Danish cattle farms

Kirkeby, Carsten, Bødker, René, Stockmarr, A. & Enøe, C., 2009, In: Entomologica Fennica. 20, 4, p. 228-232 5 p.

Hvor kommer mitterne fra?

Kirkeby, Carsten, 2009, In: Dansk Veterinaertidsskrift.

Kvægsygdom kontrolleres ved studier af insektadfærd

Jørgensen, S. B. & Kirkeby, Carsten, 2009, In: FoodDTU Midt i Ugen. 75

Mitternes hemmeligheder

Kirkeby, Carsten, 2009, In: Dansk Veterinaertidsskrift. 92, 23, p. 35 1 p.

Activities

PAIR Project kickoff meeting 2024

Kirkeby, Carsten (Participant), Bjerrum, A. (Participant) & Madsen, M. (Participant)
23 Jan 2024 → 24 Jan 2024

The Danish Trout Case

Kirkeby, Carsten (Other)
11 Jan 2024

Opponent for PhD defense

Kirkeby, Carsten (Editor)
18 Oct 2023

Short term mission award

Kirkeby, Carsten (Participant)
18 Oct 2023

A recent Danish mastitis treatment project

Kirkeby, Carsten (Other) & Svennesen, Line (Other)
28 Sep 2023

Dairy Farmer and Veterinarian Perception of Udder Health Management

Kirkeby, Carsten (Other) & Farre, M. (Other)
27 Sep 2023

Auxiliary supervisor at University of Sydney

Kirkeby, Carsten (Participant)
26 May 2023

Simulating outbreaks of avian influenza within poultry flocks

Kirkeby, Carsten (Other)
26 Apr 2023

ESFLU scientific meeting Barcelona 25-27 April 2023

Kirkeby, Carsten (Participant)
25 Apr 2023 → 27 Apr 2023

Exploring the role of wild birds in transmitting avian influenza virus in Denmark using a spatiotemporal epidemic model

Liu, Yangfan (Speaker), Kjær, Lene Jung (Other), Boklund, Anette (Other), Kirkeby, Carsten (Other), Clausen, P. (Other) & Nygaard, T. (Other)
23 Mar 2023

One Health Summer School 2022

Kirkeby, Carsten (Invited speaker)
15 Aug 2022 → 19 Aug 2022

Scientific Reports (Journal)

Kirkeby, Carsten (Editor)
10 Aug 2022

ISVEE 16 Halifax 2022

Kirkeby, Carsten (Participant) & Denwood, Matt (Participant)
6 Aug 2022 → 12 Aug 2022

ISVEE 16 Pre-symposium workshop

Kirkeby, Carsten (Organizer) & Denwood, Matt (Organizer)
6 Aug 2022 → 7 Aug 2022

Michael P. Ward

Kirkeby, Carsten (Host)
29 Apr 2022 → 13 May 2022

Nynke Schnipper

Kirkeby, Carsten (Host)
14 Apr 2022 → 16 May 2022

University of Sydney

Kirkeby, Carsten (Visiting researcher) & Ward, M. P. (Visiting researcher)
30 Mar 2022 → 13 Apr 2022

SVEPM 2022

Kirkeby, Carsten (Participant)

22 Mar 2022 → 25 Mar 2022

Spatial patterns of avian influenza in wild birds from Denmark, 2006-2020

Kjær, Lene Jung (Other), Hjulsager, C. (Other), Larsen, Lars (Other), Boklund, Anette (Other), Halasa, T. (Other), Ward, M. P. (Other) & Kirkeby, Carsten (Other)

25 Mar 2021

Risikofaktorer for aviær influenza i Danmark - resultatet af ROFUS projektet

Kjær, Lene Jung (Other), Kirkeby, Carsten (Other), Boklund, Anette (Other), Larsen, Lars (Other), Hjulsager, C. K. (Other), Halasa, T. (Other) & Ward, M. P. (Other)

17 Mar 2021

Avian influenza in Denmark: Passive surveillance bias and future monitoring

Kirkeby, Carsten (Other)

15 Sep 2020

Husmand / Houseman

Kirkeby, Carsten (Consultant)

1 Sep 2020 → ...

International Colloquium for Paratuberculosis 2020

Kirkeby, Carsten (Organizer)

14 Jun 2020 → 18 Jun 2020

Mulighederne med DSCC (Differential Somatic Cell Count)

Kirkeby, Carsten (Other)

23 Jan 2020

Tillægsrapport af den 4. april 2020 til ekspertrapport af den 2. april 2020 vedr. matematisk modellering af COVID19 smittespredning og sygehusbelastning ved scenarier for delvis genåbning af Danmark

Kirkeby, Carsten (Participant), Denwood, Matt (Participant) & Halasa, T. (Participant)

2020

Photonic classification of pests

Kirkeby, Carsten (Other)

13 Dec 2019

Forskning og formidling

Kirkeby, Carsten (Other)

10 Sep 2019

Introduction to Modelling of Disease Spread and Control

Kirkeby, Carsten (Organizer) & Halasa, T. (Organizer)

24 Jun 2019 → 28 Jun 2019

Modelling economical impact of disease in animal husbandry

Kirkeby, Carsten (Other)

28 May 2019

Sensitivity and Specificity of PCR and Bacterial Culture of S. aureus based on Bayesian LCA

Kirkeby, Carsten (Other)

16 May 2019

Cost effectiveness and mastitis intervention

Kirkeby, Carsten (Participant)

14 May 2019

IDF mastitis conference 2019

Kirkeby, Carsten (Organizer)
14 May 2019 → 16 May 2019

Differential Cell Count (DSCC) for indicating Intramammary Infections in Dairy cows

Kirkeby, Carsten (Other)
11 Apr 2019

Bliv opdateret på yversundhed i Danmark

Kirkeby, Carsten (Participant) & Halasa, T. (Participant)
10 Jan 2019

Differential cell counts – promising results from the EMCoMAST project

Kirkeby, Carsten (Other)
31 Oct 2018

Ekstern vejleder

Kirkeby, Carsten (Participant), Christiansen, L. E. (Participant) & Graesboll, K. (Participant)
4 Sep 2018 → 4 Dec 2018

One Health Summer School

Kirkeby, Carsten (Participant)
2018

Spread and control of livestock associated methicillin resistant Staphylococcus aureus (LA-MRSA) in Danish pig herds

Kirkeby, Carsten (Examiner)
2018

ETALEE 2017

Kirkeby, Carsten (Participant)
2017

EVALUATION OF ADAPTIVE TEST STRATEGIES FOR CONTROL AND ERADICATION OF PARATUBERCULOSIS WITHIN DAIRY CATTLE HERDS

Kirkeby, Carsten (Other)
2017

One Health Summer School

Kirkeby, Carsten (Participant)
2017

Simulating control of paratuberculosis in Danish dairy herds

Kirkeby, Carsten (Other)
2017

One Health Summer School

Kirkeby, Carsten (Participant)
2016

SVEPM

Kirkeby, Carsten (Participant)
2016

Bio-economic simulation modeling: How to control Paratuberculosis on dairy farms?

Kirkeby, Carsten (Other)

3 Nov 2015

Simulation modelling of paratuberculosis within herds

Kirkeby, Carsten (Other)

30 Sep 2015

NEAT Economics of Animal Health workshop, Cesenatico, Italy, 2015

Kirkeby, Carsten (Participant)

2015

One Health Summer School

Kirkeby, Carsten (Participant)

2015

8th Annual Meeting of Epizone

Kirkeby, Carsten (Participant)

2014

One Health Summer School

Kirkeby, Carsten (Participant)

2014

Informations medieskole

Kirkeby, Carsten (Participant)

2013

Prizes

EDENext 2013 3rd prize PhD award

Kirkeby, Carsten (Recipient), 2013

Erasmus+ Grant

Kirkeby, Carsten (Recipient), 1 Mar 2022

MedVetNet Short Term Mission Grant

Kirkeby, Carsten (Recipient), 1 Sep 2023

Partnership Collaboration Award

Kirkeby, Carsten (Recipient), 14 Dec 2018

Partnership Collaboration Award

Kirkeby, Carsten (Recipient), 14 Dec 2019

PhD Cup 2014

Kirkeby, Carsten (Recipient), Apr 2014

Investigating nature. My main interest is to find patterns in a large variety of biological systems, extract parameters and create computer models to understand the systems. I mainly work with epidemiological methods, including estimation of transmission rates, simulation of disease outbreaks in different populations. This often includes bioeconomic modeling of the consequences and control scenarios for disease outbreaks. I also have a passion for building bridges between research areas, merging different disciplines into new methods for biological discoveries. My main research interests

include epidemiology, (lidar) entomology, amphibians, evolutionary and general biology.