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Research outputs

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

Liu, Yangfan, Kjær, Lene Jung, Boklund, Anette, Clausen, P., Nygaard, T., Ward, M., Laffan, S. & Kirkeby, Carsten, 19 Mar 2024.

The PAIR Project Charting Epidemic Frontiers with One Health Precision

Kirkeby, Carsten, Bjerrum, A., Madsen, M. & Boklund, Anette, 18 Mar 2024.

Kan man forudsige fugleinfluenza i Danmark? Kan man forudsige fugleinfluenza i Danmark?

Kjær, Lene Jung, Boklund, Anette, Hjulsager, C. K., Larsen, Lars & Kirkeby, Carsten, 22 Feb 2024, In: videnskab.dk.

Using registry data to identify individual dairy cows with abnormal patterns in routinely recorded somatic cell counts

Henningsen, Maj Beldring, Reimert, Mossa Merhi, Denwood, Matt, Gussmann, Maya Katrin, Kirkeby, Carsten & Nielsen, Søren Saxmose, 21 Feb 2024, In: Journal of Theoretical Biology. 579, p. 1-7 7 p., 111718.

Are all avian influenza outbreaks in poultry the same? The predicted impact of poultry species and virus subtype

Kirkeby, Carsten, Boklund, Anette, Larsen, Lars & Ward, M. P., 16 Feb 2024, In: Zoonoses and Public Health.

Ny forskning viser mulighed for langt mindre antibiotika til malkekøer: Ved at ændre medicineringen af køer, der lider af yverbetændelse, kan det samlede antibiotikaforbrug skæres ned til det halve.

Svennesen, Line & Kirkeby, Carsten, 8 Feb 2024

Risk factors for avian influenza in Danish poultry and wild birds during the epidemic from June 2020 to May 2021

Liu, Yangfan, Kjær, Lene Jung, Boklund, Anette, Hjulsager, C. K., Larsen, Lars & Kirkeby, Carsten, Feb 2024, In: Frontiers in Veterinary Science. 11

Are all avian influenza outbreaks in poultry the same? The predicted impact of poultry species and virus subtype

Kirkeby, Carsten, Boklund, Anette, Larsen, Lars & Ward, M. P., 2024, (Accepted/In press) In: Zoonoses and Public Health.

Photonic sensors reflect variation in insect abundance and diversity across habitats

Rydhmer, Klas Karl Gustav, Jansson, S., Still, L., Beck, B. D., Chatzaki, V., Olsen, K., Van Hoff, B., Grønne, C., Meier, Jakob Klinge, Montoro, M., Schmidt, Inger Kappel, Kirkeby, Carsten, Smith, H. G. & Brydegaard, M., 2024, In: Ecological Indicators. 158, 12 p., 111483.

Treatment of clinically severe bovine mastitis – a scoping review

Wilm, Jensine, Svennesen, Line, Kirkeby, Carsten & Krömker, Volker, 2024, In: *Frontiers in Veterinary Science*. 11, 1286461.

Fugleinfluenza – kommet for at blive? Udbrud af fugleinfluenza koster samfundet mange penge hvert år, når tusindvis af fjerkræ bliver aflivet. DK-VET har flere værktøjer i støbeskeen, så myndighederne kan bekæmpe spredning af fugleinfluenza optimalt.

Kirkeby, Carsten, Kjær, Lene Jung & Boklund, Anette, 2023, In: *Dansk Veterinaertidsskrift*. 106, 1, p. 43

Lactational treatment of bovine mastitis: Development over time and factors influencing cytological cure

Wilm, Jensine, Krömker, Volker, Kirkeby, Carsten & Gussmann, Maya Katrin, 2023, In: *Journal of Dairy Science*. 106, 8, p. 5740-5752

Modelling transmission of Avian Influenza in wild birds using a spatiotemporal cellular automata model

Liu, Yangfan, Kjær, Lene Jung, Boklund, Anette, Clausen, P., Nyegaard, T., Ward, M. P., Laffan, S. & Kirkeby, Carsten, 2023, *Abstract book of the GeoVet 2023 International Conference: Expanding boundaries: Interdisciplinary geospatial research for the One Health Era*. Conte, A., Ippoliti, C. & Savini, L. (eds.). Edizioni IZSTe-press, p. 97-98

Remote Nanoscopy with Infrared Elastic Hyperspectral Lidar

Müller, L., Li, M., Månefjord, H., Salvador, J., Reistad, N., Hernandez, J., Kirkeby, Carsten, Runemark, A. & Brydegaard, M., 2023, In: *Advanced Science*. 10, 15, 2207110.

Reservoirs of *Staphylococcus* spp. and *Streptococcus* spp. Associated with Intramammary Infections of Dairy Cows

Woudstra, Svenja, Wenthe, N., Zhang, Y., Leimbach, S., Kirkeby, Carsten, Gussmann, Maya Katrin & Krömker, Volker, 2023, In: *Pathogens*. 12, 5, 699.

Reservoirs of *Corynebacterium* spp. in the Environment of Dairy Cows

Woudstra, Svenja, Lücken, A., Wenthe, N., Zhang, Y., Leimbach, S., Gussmann, Maya Katrin, Kirkeby, Carsten & Krömker, Volker, 2023, In: *Pathogens*. 12, 1, 9 p., 139.

Strain diversity and infection durations of *Staphylococcus* spp. and *Streptococcus* spp. causing intramammary infections in dairy cows

Woudstra, Svenja, Wenthe, N., Zhang, Y., Leimbach, S., Gussmann, Maya Katrin, Kirkeby, Carsten & Krömker, Volker, 2023, In: *Journal of Dairy Science*. 106, 6, p. 4214-4231

Surveillance data and early warning models of highly pathogenic avian influenza in East Asia, 2020-2022

Kjær, Lene Jung, Kirkeby, Carsten, Boklund, Anette & Ward, M. P., 2023, *Abstract book of the GeoVet 2023 International Conference: Expanding boundaries: Interdisciplinary geospatial research for the One Health Era*. Conte, A., Ippoliti, C. & Savini, L. (eds.). Edizioni IZSTe-press, p. 102-103

Transmission Pathways and Infection Dynamics of selected *Staphylococcus* and *Streptococcus* spp: Implications for the Prevention and Control of Intramammary Infections

Woudstra, Svenja, Wenthe, N., Zhang, Y., Leimbach, S., Ren, K., Gussmann, Maya Katrin, Kirkeby, Carsten & Krömker, Volker, 2023, *EUROPEAN BUIATRICS CONGRESS AND ECBHM JUBILEE SYMPOSIUM: ABSTRACT-BOOK*. Verlag der DVG Service, p. 247-249

Treatment of mild to moderate clinical bovine mastitis caused by gram-positive bacteria: A noninferiority randomized trial of local penicillin treatment alone or combined with systemic treatment

Svennesen, Line, Skarbye, Alice Puk, Farre, M., Astrup, L. B., Halasa, T., Krömker, Volker, Denwood, Matt & Kirkeby, Carsten, 2023, In: *Journal of Dairy Science*. 106, 8, p. 5696-5714

Use of Danish national somatic cell count data to assess the need for dry-off treatment in Holstein dairy cattle

Henningsen, Maj Beldring, Denwood, Matt, Kirkeby, Carsten & Nielsen, Søren Saxmose, 2023, In: *Animals*. 13, 15, 13 p., 2523.

Using surveillance data for early warning modelling of highly pathogenic avian influenza in Europe reveals a seasonal shift in transmission, 2016-2022: [Inkl. correction]

Kjær, Lene Jung, Ward, M. P., Boklund, Anette, Larsen, Lars, Hjulsager, C. K. & Kirkeby, Carsten, 2023, In: Scientific Reports. 13, 16 p., 15396.

Scheimpflug lidar range profiling of bee activity patterns and spatial distributions

Rydmer, Klas Karl Gustav, Prangma, J., Brydegaard, M., Smith, H. G., Kirkeby, Carsten, Schmidt, Inger Kappel & Boelt, B., Dec 2022, In: Animal Biotelemetry. 10, 1, 13 p., 14.

Treatment of clinical mastitis: intramammary or in combination with parenteral administration of penicillin?

Svennesen, Line, Skarbye, Alice Puk, Farre, Anders Michael & Kirkeby, Carsten, Sep 2022, p. 426-427. 2 p.

Risk factors of avian influenza in Danish poultry and wild birds during the epidemic waves from June 2020 to May 2021

Liu, Yangfan, Kjær, Lene Jung, Boklund, Anette, Hjulsager, C. K., Larsen, Lars & Kirkeby, Carsten, 8 Aug 2022.

The impact of on-farm biosecurity for BVDV in Australian beef production

Fountain, J., Brookes, V. J., Kirkeby, Carsten, Manyweathers, J., Maru, Y. & Hernandez-Jover, M., 8 Aug 2022.

Forecasting outbreaks of high pathogenic avian influenza in Europe

Kjær, Lene Jung, Boklund, Anette, Larsen, Lars, Hjulsager, C. K., Ward, M. P. & Kirkeby, Carsten, 23 Mar 2022.

Transmission of SARS-CoV-2 Omicron VOC subvariants BA.1 and BA.2: Evidence from Danish Households

Lyngse, Frederik Plesner, Kirkeby, Carsten, Denwood, Matt, Christiansen, L. E., Mølbak, Kåre, Møller, C. H., Skov, R. L., Krause, Tyra Grove, Rasmussen, M., Sieber, R. N., Johannesen, T. B., Lillebaek, Troels, Fonager, J., Fomsgaard, A., Møller, F. T., Stegger, M., Overvad, M., Spiess, K. & Mortensen, Laust Hvas, 30 Jan 2022, 2 p.

3D-Printed Fluorescence Hyperspectral Lidar for Monitoring Tagged Insects

Manefjord, H., Muller, L., Li, M., Salvador, J., Blomqvist, S., Runemark, A., Kirkeby, Carsten, Ignell, R., Bood, J. & Brydegaard, M., 2022, In: IEEE Journal of Selected Topics in Quantum Electronics. 28, 5, 7100109.

A review of estimated transmission parameters for the spread of avian influenza viruses

Kirkeby, Carsten & Ward, M. P., 2022, In: Transboundary and Emerging Diseases. 69, 6, p. 3238-3246

Effect of vaccination on household transmission of SARS-CoV-2 Delta variant of concern

Lyngse, Frederik Plesner, Mølbak, Kåre, Denwood, Matt, Christiansen, L. E., Møller, C. H., Rasmussen, M., Cohen, A. S., Stegger, M., Fonager, J., Sieber, R. N., Ellegaard, K. M., Nielsen, C. & Kirkeby, Carsten, 2022, In: Nature Communications. 13, 1, 3764.

Evaluation of diagnostic test procedures for SARS-CoV-2 using latent class models

Stærk-Østergaard, J., Kirkeby, Carsten, Christiansen, L. E., Andersen, M. A., Møller, C. H., Voldstedlund, M. & Denwood, Matt, 2022, In: Journal of Medical Virology. 94, 10, p. 4754-4761

Household transmission of SARS-CoV-2 Omicron variant of concern subvariants BA.1 and BA.2 in Denmark

Lyngse, Frederik Plesner, Kirkeby, Carsten, Denwood, Matt, Christiansen, L. E., Mølbak, Kåre, Holten Møller, C., Skov, R. L., Krause, Tyra Grove, Rasmussen, M., Sieber, R., Johannesen, T. B., Lillebaek, Troels, Fonager, J., Fomsgaard, A., Møller, F. T., Stegger, M., Overvad, M., Spiess, K. & Mortensen, Laust Hvas, 2022, In: Nature Communications. 13, 7 p., 5760 .

Household transmission of the SARS-CoV-2 Omicron variant in Denmark

Lyngse, Frederik Plesner, Mortensen, Laust Hvas, Denwood, Matt, Christiansen, L. E., Møller, C. H., Skov, R. L., Spiess, K., Fomsgaard, A., Lassaunière, R., Rasmussen, M., Stegger, M., Nielsen, C., Sieber, R. N., Cohen, A. S., Møller, F. T., Overvad, M., Mølbak, Kåre, Krause, Tyra Grove & Kirkeby, Carsten, 2022, In: Nature Communications. 13, 5573.

Landscape effects and spatial patterns of avian influenza virus in Danish wild birds, 2006-2020

Kjær, Lene Jung, Hjulsager, C. K., Larsen, Lars, Boklund, Anette, Halasa, T., Ward, M. P. & Kirkeby, Carsten, 2022, In: *Transboundary and Emerging Diseases*. 69, 2, p. 706-719

Nationwide study on SARS-CoV-2 transmission within households from lockdown to reopening, Denmark, 27 February 2020 to 1 August 2020

Lyngse, Frederik Plesner, Kirkeby, Carsten, Halasa, T., Andreasen, V., Skov, R. L., Møller, F. T., Krause, Tyra Grove & Mølbak, Kåre, 2022, In: *Euro surveillance : bulletin Europeen sur les maladies transmissibles = European communicable disease bulletin*. 27, 6, p. 1-12

One size does not fit all: Exploring the economic and non-economic outcomes of on-farm biosecurity for bovine viral diarrhoea virus in Australian beef production

Fountain, J., Brookes, V., Kirkeby, Carsten, Manyweathers, J., Maru, Y. & Hernandez-Jover, M., 2022, In: *Preventive Veterinary Medicine*. 208, 105758.

Vurdering af, om afbrydelse af mastitisbehandling øger risikoen for udvikling af antibiotikaresistens

Krömker, Volker, Damborg, Peter Panduro & Kirkeby, Carsten, 2022, 10 p.

Weak population genetic structure in Eurasian spruce bark beetle over large regional scales in Sweden

Ellerstrand, S. J., Choudhury, S., Svensson, K., Andersson, M. N., Kirkeby, Carsten, Powell, D., Schlyter, F., Jönsson, A. M., Brydegaard, M., Hansson, B. & Runemark, A., 2022, In: *Ecology and Evolution*. 12, 7, e9078.

Omikron: Rejserestriktioner kan bremse spredning – men ikke stoppe den

Kirkeby, Carsten, 8 Dec 2021, Videnskab.dk.

Notat om effekten af nedlukning frem til jul, den 6. december 2020

Kirkeby, Carsten & Denwood, Matt, 6 Dec 2021

Ekspertrapport af den 23. oktober 2020. Incidens og fremskrivning af COVID-19 tilfælde

Kirkeby, Carsten & Denwood, Matt, 23 Oct 2021

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

Kjær, Lene Jung, Boklund, Anette, Kirkeby, Carsten, Hjulsager, C. K., Larsen, Lars, Halasa, T. & Ward, M. P., 25 Mar 2021.

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

Kjær, Lene Jung, Hjulsager, C., Larsen, Lars, Boklund, Anette, Halasa, T., Ward, M. P. & Kirkeby, Carsten, 11 Mar 2021, *Society for Veterinary Epidemiology and Preventive Medicine: Proceedings: Online, 24-26 March 2021*. Society for Veterinary Epidemiology and Preventive Medicine

Association between SARS-CoV-2 Transmissibility, Viral Load, and Age in Households

Lyngse, Frederik Plesner, Mølbak, Kåre, Franck, K. T., Nielsen, C., Skov, R. L., Voldstedlund, M., Cohen, A. S. & Kirkeby, Carsten, 5 Mar 2021.

Særskilt bilag af d. 3. februar til "Notat om prognoser for smittetal og indlæggelser ved scenarier for genåbning af 0.-4. klasse i grundskolen"

Kirkeby, Carsten, Denwood, Matt & Lyngse, Frederik Plesner, 3 Feb 2021

Tillægsnotat af d. 3. februar til notat af d. 31. januar 2021 om prognoser for smittetal og indlæggelser ved yderligere genåbningsscenarie

Kirkeby, Carsten, Denwood, Matt & Lyngse, Frederik Plesner, 3 Feb 2021

Notat om prognoser for smittetal og indlæggelser ved scenarier for genåbning af 0.-4. klasse i grundskolen
Kirkeby, Carsten, Denwood, Matt & Lyngse, Frederik Plesner, 1 Feb 2021

Scenarier for udviklingen i den engelske virusvariant af SARS-COV-2 (cluster B.1.1.7)
Kirkeby, Carsten & Denwood, Matt, 2 Jan 2021, 3 p.

A Practical Introduction to Mechanistic Modeling of Disease Transmission in Veterinary Science
Kirkeby, Carsten, Brookes, V. J., Ward, M. P., Dürr, S. & Halasa, T., 2021, In: *Frontiers in Veterinary Science*. 7, 546651.

Advances in automatic identification of flying insects using optical sensors and machine learning
Kirkeby, Carsten, Rydhmer, Klas Karl Gustav, Cook, S. M., Strand, A., Torrance, M. T., Swain, J. L., Prangsmå, J., Johnsen, A., Jensen, M., Brydegaard, M. & Græsbøll, K., 2021, In: *Scientific Reports*. 11, 1, 1555.

Association between SARS-CoV-2 Transmission Risk, 2 Viral Load, and Age: A Nationwide Study in Danish Households
Lyngse, Frederik Plesner, Mølbak, K., Franck, K. T., Nielsen, C., Skov, R. L. & Kirkeby, Carsten, 2021, 34 p.

Bark beetles as lidar targets and prospects of photonic surveillance
Li, M., Jansson, S., Runemark, A., Peterson, J., Kirkeby, Carsten, Jönsson, A. M. & Brydegaard, M., 2021, In: *journal of biophotonics*. 14, 4, e202000420.

COVID-19 Transmission Within Danish Households: A Nationwide Study from Lockdown to Reopening
Lyngse, Frederik Plesner, Kirkeby, Carsten, Halasa, T., Andreassen, V., Skov, R. L., Møller, F. T., Krause, Tyra Grove & Mølbak, Kåre, 2021, 36 p. (Eurosurveillance).

Comparison of the current abattoir surveillance system for detection of paratuberculosis in Australian sheep with quantitative PCR tissue strategies using simulation modelling
Ly, A., Kirkeby, Carsten, Sergeant, E., Plain, K., Smith, M. & Dhand, N., 2021, In: *Preventive Veterinary Medicine*. 196, 105495.

Delaying the peak of the COVID-19 epidemic with travel restrictions
Græsbøll, K., Christiansen, L. E., Thygesen, U. H. & Kirkeby, Carsten, 2021, In: *Epidemiologic Methods*. 10, s1, 4 p., 20200042.

Dynamics of somatic cell count (SCC) and differential SCC during and following intramammary infections
Kirkeby, Carsten, Schwarz, D., Denwood, Matt, Farre, M., Nielsen, Søren Saxmose, Gussmann, Maya Katrin, Toft, N. & Halasa, T., 2021, In: *Journal of Dairy Science*. 104, p. 3427-3438 12 p.

Estimating Clinically Relevant Cut-Off Values for a High-Throughput Quantitative Real-Time PCR Detecting Bacterial Respiratory Pathogens in Cattle
Klompaker, A. F., Brydesholt, M., Michelsen, Anne Marie, Denwood, Matt, Kirkeby, Carsten, Larsen, Lars, Goecke, Nicole Bakkegård, Dam Otten, Nina & Nielsen, Liza Rosenbaum, 2021, In: *Frontiers in Veterinary Science*. 8, 674771.

Factors associated with baseline mortality in Norwegian Atlantic salmon farming
Oliveira, V. H. S., Dean, K. R., Qviller, L., Kirkeby, Carsten & Bang Jensen, B., 2021, In: *Scientific Reports*. 11, 14702.

Increased Transmissibility of SARS-CoV-2 Lineage 2 B.1.1.7 by Age and Viral Load: Evidence from Danish Households
Lyngse, Frederik Plesner, Mølbak, K., Skov, R. L., Christiansen, L. E., Mortensen, Laust Hvas, Albertsen, M., Møller, C. H., Krause, T. G., Rasmussen, M., Michaelsen, T. Y., Voldstedlund, M., Fonager, J., Steenhard, N. & Kirkeby, Carsten, 2021, In: *Nature Communications*. 12, 8 p., 7251.

Increased transmissibility of SARS-CoV-2 lineage B.1.1.7 by age and viral load
Lyngse, Frederik Plesner, Mølbak, Kåre, Skov, R. L., Christiansen, L. E., Mortensen, Laust Hvas, Albertsen, M., Møller, C. H., Krause, Tyra Grove, Rasmussen, M., Michaelsen, T. Y., Voldstedlund, M., Fonager, J., Steenhard, N., Kirkeby, Carsten & Danish Covid-19 Genome Consortium, D. C. G. C., 2021, In: *Nature Communications*. 12, 8 p., 7251.

Modeling the Effect of Bovine Viral Diarrhea Virus in Australian Beef Herds

Fountain, J., Hernandez-Jover, M., Kirkeby, Carsten, Halasa, T., Manyweathers, J., Maru, Y. & Brookes, V., 2021, In: *Frontiers in Veterinary Science*. 8, 795575.

Real-time dispersal of malaria vectors in rural Africa monitored with lidar

Jansson, S., Malmqvist, E., Mlacha, Y., Ignell, R., Okumu, F., Killeen, G., Kirkeby, Carsten & Brydegaard, M., 2021, In: *PLoS ONE*. 16, 3 March, e0247803.

Smitemodeller bygger på videnskab, ikke på blokpolitik

Kirkeby, Carsten, Denwood, Matt & Petersen, Troels Christian, 2021

The epidemic volatility index, a novel early warning tool for identifying new waves in an epidemic

Kostoulas, P., Meletis, E., Pateras, K., Eusebi, P., Kostoulas, T., Furuya-Kanamori, L., Speybroeck, N., Denwood, Matt, Doi, S. A. R., Althaus, C. L., Kirkeby, Carsten, Rohani, P., Dhand, N. K., Peñalvo, J. L., Thabane, L., BenMiled, S., Sharifi, H. & Walter, S. D., 2021, In: *Scientific Reports*. 11, 1, 23775.

Transmission Dynamics of *Corynebacterium* spp. Within Two Danish Dairy Cattle Herds

Kirkeby, Carsten, Halasa, T., Farre, M., Chehabi, G. N. & Græsbøll, K., 2021, In: *Frontiers in Veterinary Science*. 8, 735345.

Validacion of the Danish covid-19 population model

Johnsen, M. G., Græsbøll, K., Kirkeby, Carsten & Christiansen, L. E., 2021

Differential Somatic Cell Count: Value for Udder Health Management

Halasa, T. & Kirkeby, Carsten, 23 Dec 2020, In: *Frontiers in Veterinary Science*. 7, 609055.

Derfor kan eksperter i dyresygdomme forudsige, hvordan coronavirus spreder sig

Kirkeby, Carsten, Denwood, Matt & Halasa, T., 5 Dec 2020, In: *videnskab.dk*.

Myg blev snydt af en solformørkelse – og det giver forskerne vigtig viden i kampen mod malaria

Kirkeby, Carsten, 6 Oct 2020, In: *videnskab.dk*.

***Contracaecum osculatum* (sensu lato) infection of *Gadus morhua* in the Baltic Sea: inter- and intraspecific interactions**

Mohamed, A., Zuo, S., Karami, Asma Mohammad, Marnis, H., Setyawan, A., Mehrdana, Foojan, Kirkeby, Carsten, Kania, Per & Buchmann, Kurt, 2020, In: *International Journal for Parasitology*. 50, 10-11, p. 891-898

A simulation study to investigate the added value in using differential somatic cell count as an additional indicator for udder health management in dairy herds

Gussmann, Maya Katrin, Kirkeby, Carsten, Schwarz, D., Farre, Anders Michael & Halasa, T., 2020, In: *Preventive Veterinary Medicine*. 182, 105090.

Differentialcelletal: En ny og lovende indikator for mastitis

Kirkeby, Carsten, Farre, Anders Michael, Nielsen, Søren Saxmose & Halasa, T., 2020, In: *Kvaeg*. 2019, December, p. 32-33

Ekspertrapport af den 16. april 2020. Matematisk modellering af COVID-19 smittespredning og sygehusbelastning ved scenarier for yderligere initiativer i Fase 1 af genåbningen

Kirkeby, Carsten, Halasa, T. & Denwood, Matt, 2020

Ekspertrapport af den 2. april. Matematisk modellering af COVID-19 smittespredning og sygehusbelastning ved scenarier for delvis genåbning af Danmark

Kirkeby, Carsten, Denwood, Matt & Halasa, T., 2020, 24 p.

Ekspertrapport af den 6. april 2020 - Matematisk modellering af COVID-19 smittespredning og sygehusbelastning ved scenarie for delvis genåbning af Danmark

Kirkeby, Carsten, Denwood, Matt & Halasa, T., 2020

Ekspertrapport af den 6. maj 2020. Matematisk modellering af COVID-19 smittespredning og sygehusbelastning ved scenarier for anden fase af genåbningen af Danmark

Kirkeby, Carsten, Denwood, Matt, Halasa, T. & Lyngse, Frederik Plesner, 2020

Kronik: Risikobaseret genåbning af Danmark kan give færre alvorligt syge og en hurtigere genåbning

Kirkeby, Carsten, Græsbøll, K., Halasa, T., Sneppen, Kim & Christiansen, L. E., 2020, In: Ingenøren.dk.

Landscape and spatial patterns of avian influenza virus in Danish wild birds, 2006-2020

Kjær, Lene Jung, Hjulsgager, C., Larsen, Lars, Boklund, Anette, Halasa, T., Ward, M. & Kirkeby, Carsten, 2020, Authorea.

Lidar reveals activity anomaly of malaria vectors during pan-African eclipse

Brydegaard, M., Jansson, S., Malmqvist, E., Mlacha, Y. P., Gebru, A., Okumu, F., Killeen, G. F. & Kirkeby, Carsten, 2020, In: Science Advances. 6, 20, eaay5487.

Prediction Models in Veterinary and Human Epidemiology: Our Experience With Modeling Sars-CoV-2 Spread

Halasa, T., Græsbøll, K., Denwood, Matt, Christensen, L. E. & Kirkeby, Carsten, 2020, In: Frontiers in Veterinary Science. 7, 513.

Teknisk gennemgang af modellerne

Kirkeby, Carsten, Denwood, Matt & Halasa, T., 2020

Tillægsrapport af den 13. maj 2020 til ekspertrapport af 6. maj 2020. Matematisk modellering af COVID-19 smittespredning og sygehusbelastning – beregning af anden fase af genåbningen af Danmark

Kirkeby, Carsten, Halasa, T., Denwood, Matt & Lyngse, Frederik Plesner, 2020

Tillægsrapport af den 20. maj 2020 til ekspertrapporten af den 6. maj 2020 og i forlængelse af tillægsrapporten af den 13. maj. Matematisk modellering af COVID-19 smittespredning og sygehusbelastning – beregning af en udvidelse af anden fase af genåbningen af Danmark

Kirkeby, Carsten, Denwood, Matt, Halasa, T. & Lyngse, Frederik Plesner, 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, Denwood, Matt & Halasa, T., 2020

Malkekoens fjender: Små bakterier kan få store konsekvenser

Kirkeby, Carsten, 25 Aug 2019, In: videnskab.dk.

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

Kirkeby, Carsten, Zervens, L. M., Schwarz, D., Farre, Anders Michael, Toft, N., Nielsen, Søren Saxmose & Halasa, T., 15 May 2019.

Economic and epidemiological impact of different intervention strategies for subclinical and clinical mastitis

Gussmann, Maya Katrin, Steeneveld, W., Kirkeby, Carsten, Hogeveen, H., Farre, M. & Halasa, T., 1 May 2019, In: Preventive Veterinary Medicine. 166, p. 78-85 8 p.

Nyt studie viser stor forskel på spredning af bakterier hos danske malkekøer

Kirkeby, Carsten, 2 Apr 2019, In: videnskab.dk.

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

Kirkeby, Carsten, 27 Mar 2019.

Danske præciseringer af internationale mastitisanbefalinger. De internationale mastitisanbefalinger består af 10 punkter, hvor nogle nu kan præciseres for danske forhold baseret på resultaterne fra STOPMAST projektet

Nielsen, Søren Saxmose, Krogh, M. A., Kirkeby, Carsten, Østergaard, S. & Halasa, T., 14 Mar 2019, 3 p.
www.landbrugsinfo.dk : Landbrug og fødevarer SEGES.

Brug beslutningstræet til at vælge den rigtige behandling af mastitis: Når der tages beslutninger om klinisk og subklinisk mastitis, er det væsentligt for behandlingens effekt, smittespredning og økonomi. Beslutningstræet viser, hvad simuleringsmodeller foreslår som det bedste.

Gussmann, Maya Katrin, Halasa, T., Kirkeby, Carsten & Nielsen, Søren Saxmose, 8 Mar 2019, 2 p. Landbrug og fødevarer SEGES.

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

Kirkeby, Carsten, Halasa, T., Gussmann, Maya Katrin & Nielsen, Søren Saxmose, 6 Mar 2019, 2 p. Landbrug og fødevarer SEGES.

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

Gussmann, Maya Katrin, Denwood, Matt, Kirkeby, Carsten, Farre, M. & Halasa, T., 2019, In: Preventive Veterinary Medicine. 171, 104751.

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

Toft, N., Halasa, T., Nielsen, Søren Saxmose, Hechinger, S., Zervens, L. M., Schwarz, D. & Kirkeby, Carsten, 2019, In: Preventive Veterinary Medicine. 171, 104689.

Economic and epidemiological impact of different intervention strategies for clinical contagious mastitis

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

Transmission dynamics of *Staphylococcus aureus* within two Danish dairy cattle herds

Kirkeby, Carsten, Zervens, L., Toft, N., Schwarz, D., Farre, M., Hechinger, S. & Halasa, T., 2019, In: Journal of Dairy Science. 102, 2, p. 1428-1442

Observations of female and mixed sex swarming behaviour in *Culicoides Latreille, 1809* (Diptera: Ceratopogonidae)

Kirkeby, Carsten, 1 Jun 2018, In: Polish Journal of Entomology. 87, 2, p. 191-197 7 p.

Determinants of antimicrobial treatment for udder health in Danish dairy cattle herds

Gussmann, Maya Katrin, Græsbøll, K., Toft, N., Nielsen, Søren Saxmose, Farre, M., Kirkeby, Carsten & Halasa, T., Jan 2018, In: Journal of Dairy Science. 101, 1, p. 505-517 13 p.

A new method for estimating transmission rates of mastitis-causing pathogens

Kirkeby, Carsten, Halasa, T., Gussmann, Maya Katrin & Græsbøll, K., 2018.

A strain-, cow-, and herd-specific bio-economic simulation model of intramammary infections in dairy cattle herds
Gussmann, Maya Katrin, Kirkeby, Carsten, Græsbøll, K., Farre, M. & Hisham Beshara Halasa, T., 2018, In: Journal of Theoretical Biology. 449, p. 83-93 11 p.

Analysis of the dynamics of Staphylococcus aureus in two Danish dairy cattle herds
Kirkeby, Carsten, Zervens, L. M., Toft, N., Farre, M. & Hisham Beshara Halasa, T., 2018.

Blended learning for korte og specialiserede undervisningsforløb
Kirkeby, Carsten & Hansen, C., 2018, In: Dansk Universitetspædagogisk Tidsskrift. 13, 25, p. 107-119

Evaluating the impact of transmission mode, calibration level and farmer compliance in simulation models of paratuberculosis in dairy herds
Kirkeby, Carsten, Græsbøll, K. & Halasa, T., 2018, In: Scientific Reports. 8, 1, 9100.

Multiband modulation spectroscopy for determination of sex and species of mosquitoes in flight
Gebru, A., Jansson, S., Ignell, R., Kirkeby, Carsten, Prangasma, J. C. & Brydegaard, M., 2018, In: journal of biophotonics. 11, 8, e201800014.

Spatial and temporal variation in the abundance of Culicoides biting midges (Diptera: Ceratopogonidae) in nine European countries
Cuellar, A. C., Kjær, L. J., Kirkeby, C. T., Skovgard, H., Nielsen, S. A., Stockmarr, A., Andersson, G., Lindstrom, A., Chirico, J., Lühken, R., Steinke, S., Kiel, E., Gethmann, J., Conraths, F. J., Larska, M., Hamnes, I., Sviland, S., Hopp, P., Brugger, K., Rubel, F. & 19 others, Balenghien, T., Garros, C., Rakotoarivony, I., Allène, X., Lhoir, J., Chavernac, D., Delécolle, J., Mathieu, B., Delécolle, D., Setier-Rio, M., Venail, R., Scheid, B., Chueca, M. Á. M., Barceló, C., Lucientes, J., Estrada, R., Mathis, A., Tack, W. & Bødker, René, 2018, In: Parasites & Vectors. 11

Methods for estimating disease transmission rates: Evaluating the precision of Poisson regression and two novel methods
Kirkeby, Carsten, Halasa, T., Gussmann, Maya Katrin, Toft, N. & Græsbøll, K., 1 Dec 2017, In: Scientific Reports. 7, 1, 9496.

Multispectral polarimetric modulation spectroscopy for species and sex determination of Malaria disease vectors
Gebru, A., Jansson, S., Ignell, R., Kirkeby, Carsten & Brydegaard, M., 25 Oct 2017, *2017 Conference on Lasers and Electro-Optics, CLEO 2017 - Proceedings*. The Optical Society (OSA), p. 1-2 2 p. (2017 Conference on Lasers and Electro-Optics, CLEO 2017 - Proceedings, Vol. 2017-January).

A Cow- and Herd-specific Bio-Economic Model of Intramammary Infections in Dairy Cows
Kirkeby, Carsten, Gussmann, Maya Katrin, Græsbøll, K., Nielsen, Søren Saxmose, Toft, N. & Hisham Beshara Halasa, T., 2017.

Danske metoder kan hjælpe med at bremse alt fra ebola til fugleinfluenza
Kirkeby, Carsten, 2017, In: videnskab.dk. oktober

Determinants for Treatments in Relation to Udder Health in Danish Dairy Cattle Farms
Gussmann, Maya Katrin, Græsbøll, K., Kirkeby, Carsten, Nielsen, Søren Saxmose, Toft, N., Farre, M. & Hisham Beshara Halasa, T., 2017.

Epidemiological and economic consequences of purchasing livestock infected with Mycobacterium avium subsp. paratuberculosis
Kirkeby, Carsten, Græsbøll, K., Nielsen, Søren Saxmose, Toft, N. & Halasa, T. H., 2017, In: B M C Veterinary Research. 13, 9 p., 202.

Forskere designer fleksibel strategi mod kvægsygdom
Kirkeby, Carsten, 2017, In: D T U Avisen. 2017, 10, p. 4-4 1 p.

Kvægbesætninger er sårbare for indkøb af dyr med paratuberkulose

Kirkeby, Carsten, 2017, In: Dansk Veterinaertidsskrift. 2017, 13, p. 26-27 2 p.

Microclimatic temperatures increase the potential for vector-borne disease transmission in the Scandinavian climate

Haider, N., Kirkeby, Carsten, Kristensen, B., Kjær, Lene Jung, Havskov Sørensen, J. & Bødker, René, 2017, In: Scientific Reports. 7, 8175.

Pas på med indkøb af dyr med paratuberkulose

Kirkeby, Carsten, 2017, In: Bovilogisk. p. 14-15 2 p.

Simulating control of paratuberculosis in Danish dairy herds

Kirkeby, Carsten, Græsbøll, K., Nielsen, Søren Saxmose, Toft, N. & Hisham Beshara Halasa, T., 2017. 1 p.

Treatment Patterns for Mastitis in Danish Dairy Cattle Farms

Gussmann, Maya Katrin, Græsbøll, K., Kirkeby, Carsten, Nielsen, Søren Saxmose, Toft, N., Farre, M. & Hisham Beshara Halasa, T., 2017.

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

Græsbøll, K., Kirkeby, Carsten, Nielsen, Søren Saxmose, Halasa, T., Toft, N. & Christiansen, L. E., 19 Dec 2016, In: Frontiers in Veterinary Science. 3, 10 p., 115.

Adaptive test schemes for control of paratuberculosis in dairy cows

Kirkeby, Carsten, Græsbøll, K., Nielsen, Søren Saxmose, Christiansen, L. E., Toft, N. & Halasa, T., 1 Dec 2016, In: PLoS One. 11, 12, 13 p., e0167219.

Simulating the epidemiological and economic impact of paratuberculosis control actions in dairy cattle

Kirkeby, Carsten, Græsbøll, K., Nielsen, Søren Saxmose, Christiansen, L. E., Toft, N., Rattenborg, E. & Halasa, T., 10 Oct 2016, In: Frontiers in Veterinary Science. 3, 13 p., 90.

Communicating spatial risk of tick-borne infections - Creating a ScandTick Innovation website based on surveillance data

Clausen, C. G., Schou, K. K., Kirkeby, Carsten & Bødker, René, 2016.

Daily Evolution of the Insect Biomass Spectrum in an Agricultural Landscape Accessed with Lidar

Brydegaard, M., Gebru, A., Kirkeby, Carsten, Åkesson, S. & Smith, H., 2016, In: E P J Web of Conferences. 119, 119.

Dairy farmers' compliance with culling recommendation in paratuberculosis programme

Nielsen, Søren Saxmose & Kirkeby, Carsten, 2016.

Improving productivity in growing pigs by combining specific and non-specific monitoring

Kristensen, C. S., Jorsal, S. E. L., Kirkeby, Carsten, Nielsen, P. K., Arede, M., Nielsen, J. P., Bækbo, P., Havn, K., Larsen, L. E. & Toft, N., 2016, *24th International Pig Veterinary Society Congress - abstracts book*. Royal Dublin Society, p. 335-335 1 p.

Microclimate temperature play a vital role for vector borne disease transmission in the cool scandinavian climate

Haider, N., Kristensen, B., Kirkeby, Carsten, Toft, N. & Bødker, René, 2016, *3rd Conference on Neglected Vectors and Vector-Borne Diseases (EurNegVec): with MC and WG Meeting of the COST Action TD1303*. European Science Foundation, p. 70-71 2 p.

Observations of movement dynamics of flying insects using high resolution lidar

Kirkeby, Carsten, Wellenreuther, M. & Brydegaard, M., 2016, In: Scientific Reports. 6, 29083.

Optimised surveillance for paratuberculosis

Kirkeby, Carsten, Græsbøll, K., Nielsen, Søren Saxmose, Hisham Beshara Halasa, T., Toft, N. & Jungersen, G., 2016.

Spatial risk of tick borne infections – creating a ScandTick Innovation website for both the public and the health sector based on surveillance data

Clausen, C. G., Schou, K. K., Kirkeby, Carsten & Bødker, René, 2016

The impact of microclimatic temperature on vector-borne disease transmission in Denmark

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

Vector-borne disease surveillance in livestock populations: a critical review of literature recommendations and implemented surveillance (BTV-8) in five European countries

Dórea, F. C., Elbers, A. R. W., Hendrikx, P., Enøe, C., Kirkeby, Carsten, Hoinville, L. & Lindberg, A., 2016, In: Preventive Veterinary Medicine. 125, p. 1-9 9 p.

Vectorborne zoonoses

Bødker, René, Clausen, C. G., Kirkeby, Carsten, Byriel, David Bille & Schou, K. K., 2016, *Annual Report on Zoonoses in Denmark 2015*. Helwich, B. & Christensen, J. (eds.). Søborg: National Food Institute, Technical University of Denmark, p. 18-19 2 p.

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

Kirkeby, Carsten, Græsbøll, K., Hisham Beshara Halasa, T., Toft, N. & Nielsen, Søren Saxmose, 9 Aug 2015, In: B M C Veterinary Research. 11, 6 p., 190.

Battling Bluetongue and Schmallenberg virus: Local scale behavior of transmitting vectors

Stockmarr, A., Kirkeby, Carsten & Bødker, René, 2015

Ny forskning optimerer overvågning af paratuberkulose

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

iCull – A bioeconomic model for herd management and disease control

Kirkeby, Carsten, Græsbøll, K., Nielsen, Søren Saxmose, Christiansen, L. E., Toft, N. & Hisham Beshara Halasa, T., 2015

Mikroskopiske droners hemmelige mission afsløret

Kirkeby, Carsten, 1 Jan 2014, In: videnskab.dk.

Secret mission of microscopic drones revealed

Kirkeby, Carsten, 1 Jan 2014, In: ScienceNordic.

Association of MAP specific ELISA-responses and productive parameters in 314 Danish dairy farms

Græsbøll, K., Nielsen, S. S., Hisham Beshara Halasa, T., Kirkeby, Carsten, Toft, N. & Christiansen, L. E., 2014.

Association of MAP specific ELISA-responses and productive parameters in 367 Danish dairy farms

Græsbøll, K., Nielsen, Søren Saxmose, Halasa, T., Kirkeby, Carsten, Toft, N. & Christiansen, L. E., 2014. 3 p.

Culicoides (Avaritia) gornostaevae Mirzaeva, 1984 (Diptera: Ceratopogonidae) a possible vector species of the Obsoletus group new to the European fauna

Kirkeby, Carsten & Dominiak, P., 2014, In: Parasites & Vectors. 7, 445

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

Kirkeby, Carsten, 2014, In: Torpare. 33, 157, p. 6-7 2 p.

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

Kirkeby, Carsten, Halasa, T., Nielsen, Søren Saxmose, Græsbøll, K. & Toft, N., 2014. 1 p.

Occurrence of Schmallenberg virus in Danish biting midges (Culicoides spp.)

Rasmussen, L. D., Kirkeby, Carsten, Kristensen, B., Rasmussen, T. B., Belsham, G., Bødker, René & Bøtner, A., 2013.

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

Kirkeby, Carsten, Bødker, René, Stockmarr, A. & Lind, P., 2013, In: Parasites & Vectors. 6, 43, 43.

Spatio-temporal abundance and dispersal of Culicoides

Kirkeby, Carsten, Lind, P., Bødker, R. & Stockmarr, A., 2013, Technical University of Denmark (DTU).

Spatio-temporal abundance of Culicoides on a local scale

Kirkeby, Carsten, Bødker, René, Stockmarr, A. & Lind, P., 2013.

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

Kirkeby, Carsten, Stockmarr, A., Bødker, René & Lind, P., 2013, In: Parasites & Vectors. 6, 1, 151.

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

Kirkeby, Carsten, Græsbøll, K., Stockmarr, A., Christiansen, L. E. & Bødker, René, 2013, In: Parasites & Vectors. 6, 11 p., 67.

Culicoides as Vectors of Schmallenberg Virus

Rasmussen, L. D., Kristensen, B., Kirkeby, Carsten, Rasmussen, T. B., Belsham, G., Bødker, R. & Bøtner, A., 2012, In: Emerging Infectious Diseases (Online). 18, 7, p. 1204-1206 3 p.

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

Rasmussen, L. D., Kristensen, B., Kirkeby, Carsten, Rasmussen, T. B., Belsham, G., Bødker, René & Bøtner, A., 2012.

Schmallenberg virus fundet i mitter i Danmark

Rasmussen, L. D., Kristensen, B., Kirkeby, Carsten, Rasmussen, T. B., Belsham, G., Bødker, René & Bøtner, A., 2012, In: Dansk Veterinaertidsskrift. 5, p. 45 1 p.

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.