

Sofie Kromann  
Tenure Track Assistant Professor

Pathobiological Sciences

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## Employment

### Industrial PhD

Veterinary Clinical Microbiology

Frederiksberg C, Denmark

1 Feb 2019 → 30 Apr 2022

### Research Assistant

Preclinical Disease Biology

Frederiksberg C, Denmark

1 Jun 2018 → 5 Feb 2019

### Research Assistant

Preclinical Disease Biology

Frederiksberg C, Denmark

1 Jun 2018 → 31 Jan 2019

## Research outputs

### A SEVERE OUTBREAK OF COLIBACILLOSIS IN BROILERS

Kromann, Sofie, Baig, S. J., Olsen, Rikke Heidemann, Edslev, S. M., Thoenfer, Ida , Bojesen, Anders Miki, Jensen, Henrik Elvang & Stegger, M., 29 Aug 2023.

### Dramatic increase in slaughter condemnations due to *Escherichia coli* ST23 and ST101 within the Danish broiler production

Kromann, Sofie, Baig, S., Olsen, Rikke Heidemann, Edslev, S. M., Thoenfer, Ida , Bojesen, Anders Miki, Jensen, Henrik Elvang & Stegger, M., 2023, In: *Veterinary Microbiology*. 280, 109696.

### Establishment and application of an aerogenous model of avian colibacillosis

Kromann, Sofie, Olsen, Rikke Heidemann, Bojesen, Anders Miki, Thoenfer, Ida & Jensen, Henrik Elvang, 2023.

### *In vivo* models of *Escherichia coli* infection in poultry

Kromann, Sofie & Jensen, Henrik Elvang, 2022, In: *Acta Veterinaria Scandinavica*. 64, 33.

### Assessment of automated assays for serum amyloid A, haptoglobin (PIT54) and basic biochemistry in broiler breeders experimentally infected with *Escherichia coli*

Kromann, Sofie, Olsen, Rikke Heidemann, Bojesen, Anders Miki, Jensen, Henrik Elvang & Thoenfer, Ida , 2022, In: *Veterinary Research*. 53, 1, 7 p., 25.

### Colibacillosis in poultry: Aetiology, pathogenesis, diagnosis, and control

Kromann, Sofie, 2022, University of Copenhagen.

**Longitudinal study on background lesions in broiler breeder flocks and their progeny, and genomic characterisation of *Escherichia coli***

Kromann, Sofie, Baig, S., Stegger, M., Olsen, Rikke Heidemann, Bojesen, Anders Miki, Jensen, Henrik Elvang & Thoenner, Ida , 2022, In: Veterinary Research. 53, 52.

**Development of an aerogenous *Escherichia coli* infection model in adult broiler breeders**

Kromann, Sofie, Olsen, Rikke Heidemann, Bojesen, Anders Miki, Jensen, Henrik Elvang & Thoenner, Ida , 2021, In: Scientific Reports. 11, 15 p., 19556.

**Protective potential of an autogenous vaccine in an aerogenous model of *Escherichia coli* infection in broiler breeders**

Kromann, Sofie, Olsen, Rikke Heidemann, Bojesen, Anders Miki, Jensen, Henrik Elvang & Thoenner, Ida , 2021, In: Vaccines. 9, 11, 1233.

**A Novel Promazine Derivative Shows High *in vitro* and *in vivo* Antimicrobial Activity Against *Staphylococcus aureus***

Ronco, T., Jørgensen, N. S., Holmer, I., Kromann, Sofie, Sheikhsamani, E., Permin, A., Svenningsen, Søren Wedel, Christensen, Jørn Bolstad & Olsen, Rikke Heidemann, 2020, In: Frontiers in Microbiology. 11, 12 p., 560798.

**A novel derivative of thioridazine shows low toxicity and efficient activity against gram-positive pathogens**

Jørgensen, N. S., Saaby, Lasse, Andersson, A. M., Kromann, Sofie, Sheikhsamani, E., Permin, A., Ronco, T., Svenningsen, Søren Wedel, Christensen, Jørn Bolstad & Olsen, Rikke Heidemann, 2020, In: Antibiotics. 9, 6, 11 p., 327.

**Antibiotic Resistance of *Lactobacillus* spp. and *Streptococcus thermophilus* Isolated from Chinese Fermented Milk Products**

Li, Y., Li, L., Kromann, Sofie, Chen, M., Shi, L. & Meng, H., 2019, In: Foodborne pathogens and disease. 16, 3, p. 221-228

***In vitro* synergy of sertraline and tetracycline cannot be reproduced in pigs orally challenged with a tetracycline resistant *Escherichia coli***

Kromann, Sofie, Hvidtfeldt, A., Boye, M., Sørensen, Dorte Bratbo, Jørgensen, S., Nielsen, Jens Peter & Olsen, Rikke Heidemann, 2019, In: BMC Microbiology. 19, 1, 12 p., 12.

**Insight into synergetic mechanisms of tetracycline and the selective serotonin reuptake inhibitor, sertraline, in a tetracycline-resistant strain of *Escherichia coli***

Li, L., Kromann, Sofie, Olsen, John Elmerdahl, Svenningsen, Søren Wedel & Olsen, Rikke Heidemann, 2017, In: Journal of Antibiotics. 70, 9, p. 944-953 10 p.

**Treatment with high-dose antidepressants severely exacerbates the pathological outcome of experimental *Escherichia coli* infections in poultry**

Kromann, Sofie, Kudirkiene, E., Li, L., Thoenner, Ida , Daldorph, E., Christensen, Jens Peter, Meng, H. & Olsen, Rikke Heidemann, 2017, In: PLoS ONE. 12, 10, 15 p., e0185914.

## Activities

### ECVP 2023

Kromann, Sofie (Participant) & Kristensen, Charlotte (Participant)  
30 Aug 2023 → 1 Sep 2023

### Establishment and application of an aerogenous model of avian colibacillosis

Kromann, Sofie (Other)  
9 Jun 2023

### Nordic Society of Veterinary Pathology 2023

Jensen, Henrik Elvang (Participant), Leifsson, Páll S. (Participant), Barington, Kristiane (Participant), Becker, Cecilie Brandt (Participant), Jørgensen, B. M. (Participant), Kromann, Sofie (Participant) & Flyger, Christoffer Kirkelund (Participant)  
7 Jun 2023 → 9 Jun 2023

**A severe outbreak of E. coli - pathological manifestations and genomic characterization**

Kromann, Sofie (Other)

8 Nov 2022 → 10 Nov 2022

**Nordic Poultry Conference 2022**

Kromann, Sofie (Participant)

8 Nov 2022 → 10 Nov 2022

**Cross veterinarian**

Kromann, Sofie (Participant)

7 Nov 2022 → 8 Nov 2022

**Protective potential of an autogenous E. coli vaccine – efficacy study**

Kromann, Sofie (Other)

7 Nov 2022 → 8 Nov 2022

**Vacciner**

Kromann, Sofie (Other)

11 Feb 2022

**Fjerkrækongres 2022**

Kromann, Sofie (Participant)

10 Feb 2022 → 11 Feb 2022