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## Main Interests

Prevention of disease and animal health is my main interest. I find particular interest in the interaction between microbes and hosts and how microbes can be used to benefit the health of animals.

I am currently PI on "PreHatch probiotic for poultry" - a GUDP funded project where Chr. Hansen, DanHatch and University of Copenhagen in collaboration aim at developing a probiotic and a method for application which will be applied to broiler chicks before hatch. The early application of probiotic will benefit the broilers during the first critical week of life.

## Research outputs

### **Complete association between CHCF1 genotype and enterotoxigenic *Escherichia coli* F4ab-associated post-weaning diarrhea in a pig challenge trial**

Rydal, Martin Peter, Jørgensen, Claus Bøttcher, Gambino, Michela, Poulsen, Louise Ladefoged & Nielsen, Jens Peter, 2023, In: Veterinary Microbiology. 282, 109771.

### **Effects of a novel, non-invasive pre-hatch application of probiotic for broilers on development of cecum microbiota and production performance**

Villumsen, Kasper Rømer, Sandvang, D., Vestergård, G., Olsen, M. S. R., Juul, J., Dencker, M., Kudsk, J. & Poulsen, Louise Ladefoged, 2023, In: Animal Microbiome. 5, 41.

### **Post-weaning diarrhea in pigs from a single Danish production herd was not associated with the pre-weaning fecal microbiota composition and diversity**

Rydal, Martin Peter, Gambino, Michela, Castro-Mejia, J. L., Poulsen, Louise Ladefoged, Jørgensen, Claus Bøttcher & Nielsen, Jens Peter, 2023, In: Frontiers in Microbiology. 14, 1108197.

### **Prevalence of Potential Pathogenic and Antimicrobial Resistant *Escherichia coli* in Danish Broilers**

Poulsen, Louise Ladefoged, Bisgaard, M. & Christensen, Henrik, 2023, In: Antibiotics. 12, 2, 344.

### **Anvendelse af probiotika før klækning**

Poulsen, Louise Ladefoged, Sandvang, D., Dencker, M., Juul, J. & Thoenner, Ida, 2022, In: Dansk Erhvervsfjerkræ. 51, 3, p. 62-65 4 p.

### **Pilot study on CHCF1 genotype in a pig challenge model for enterotoxigenic *Escherichia coli* F4ab/ac associated post-weaning diarrhea**

Rydal, Martin Peter, Gambino, Michela, Jørgensen, Claus Bøttcher, Poulsen, Louise Ladefoged, Brøndsted, Lone & Nielsen, Jens Peter, 2022, In: BMC Veterinary Research. 18, 382.

### **Research Note: The effect of a probiotic *E. faecium* 669 mitigating *Salmonella* Enteritidis colonization of broiler chickens by improved gut integrity**

Olsen, M. S. R., Thoenner, Ida, Sandvang, D. & Poulsen, Louise Ladefoged, 2022, In: Poultry Science. 101, 10, 102029.

### **Recovery of probiotic bacteria from the intestinal tract of broilers after noninvasive pre-hatch application**

Thoenner, Ida, Sandvang, D., Aagaard, K. & Poulsen, Louise Ladefoged, 2021, In: Beneficial Microbes. 12, 5, p. 467 - 477 12 p.

**Whole genome sequence comparison of avian pathogenic *Escherichia coli* from acute and chronic salpingitis of egg laying hens**

Poulsen, Louise Ladefoged, Kudirkiene, E., Jørgensen, S. L., Djordjevic, S. P., Cummins, M. L., Christensen, Jens Peter, Christensen, Henrik, Bisgaard, M. & Thoenfer, Ida , 2020, In: BMC Veterinary Research. 16, 1, 9 p., 148.

**Correlation between footpad lesions and systemic bacterial infections in broiler breeders**

Thoenfer, Ida , Poulsen, Louise Ladefoged, Bisgaard, M., Christensen, Henrik, Olsen, Rikke Heidemann & Christensen, Jens Peter, 2019, In: Veterinary Research. 50, 1, 5 p., 38.

**Diversity and population overlap between avian and human *Escherichia coli* belonging to sequence type 95**

Jørgensen, S. L., Stegger, M., Kudirkiene, E., Lilje, B., Poulsen, Louise Ladefoged, Ronco, T., Dos Santos, T. P., Kiil, K., Bisgaard, M., Pedersen, K., Nolan, L. K., Price, L. B., Olsen, Rikke Heidemann, Andersen, P. S. & Christensen, Henrik, 2019, In: mSphere. 4, 1, 12 p., e00333-18.

**Longitudinal Study on Causes of Mortality in Danish Broiler Breeders**

Thoenfer, Ida , Poulsen, Louise Ladefoged, Bisgaard, M., Christensen, Henrik, Olsen, Rikke Heidemann & Christensen, Jens Peter, 2019, In: Avian Diseases. 63, 3, 400-410.

**Characterization of *Escherichia coli* causing cellulitis in broilers**

Poulsen, Louise Ladefoged, Bisgaard, M., Jørgensen, S. L., Dideriksen, T., Pedersen, J. R. & Christensen, Henrik, 2018, In: Veterinary Microbiology. 225, p. 72-78 7 p.

**Characterization of *Enterococcus faecalis* isolated from the cloaca of 'fancy breeds' and confined chickens**

Jørgensen, S. L., Poulsen, Louise Ladefoged, Thorndahl, L., Ronaghinia, A. A., Bisgaard, M. & Christensen, Henrik, May 2017, In: Journal of Applied Microbiology. 122, 5, p. 1149-1158 10 p.

**Longitudinal study of transmission of *Escherichia coli* from broiler breeders to broilers**

Poulsen, Louise Ladefoged, Thoenfer, Ida , Bisgaard, M., Christensen, Jens Peter, Olsen, Rikke Heidemann & Christensen, Henrik, 2017, In: Veterinary Microbiology. 207, p. 13-18

***Staphylococcus agnetis*, a potential pathogen in broiler breeders**

Poulsen, Louise Ladefoged, Thoenfer, Ida , Bisgaard, M., Olsen, Rikke Heidemann, Christensen, Jens Peter & Christensen, Henrik, 2017, In: Veterinary Microbiology. 212, p. 1-6 6 p.

**Investigations of the pathogenesis of *Staphylococcus aureus* and *Enterococcus faecalis* in an experimental footpad infection model in broiler breeders**

Thoenfer, Ida , Olsen, Rikke Heidemann, Poulsen, Louise Ladefoged, Christensen, Henrik, Bisgaard, M. & Christensen, Jens Peter, Oct 2016, *Vetpath 2016 conference abstracts*. Prato, p. 5-5 1 p.

***Escherichia coli* in industrial poultry production: aspects of transmission and disease development**

Christensen, Jens Peter, Pors, S. E., Papasolomontos, S., Poulsen, Louise Ladefoged, Thoenfer, Ida , Olsen, Rikke Heidemann, Christensen, Henrik & Bisgaard, M., Jun 2016, *16th International Conference on Production Diseases in Farm Animals: Book of abstracts*. Wageningen Academic Publishers, p. 140 1 p.

**Infections with Gram positive cocci in broiler breeders: significance and prevalence**

Thoenfer, Ida , Poulsen, Louise Ladefoged, Olsen, Rikke Heidemann, Christensen, Henrik, Bisgaard, M. & Christensen, Jens Peter, Jun 2016, *16th International Conference on Production Diseases in Farm Animals: Book of abstracts*. Wageningen, Netherlands: Wageningen Academic Publishers, p. 141-141 1 p.

**Molecular mechanisms of *E. coli* causing outbreaks of cellulitis in broilers**

Poulsen, Louise Ladefoged, Jørgensen, S. L., Bisgaard, M. & Christensen, Henrik, 2016. 1 p.

**Longitudinal study of mortality observed in four broiler breeder flocks**

Thoenfer, Ida , Poulsen, Louise Ladefoged, Bisgaard, M., Christensen, Henrik, Olsen, Rikke Heidemann & Christensen, Jens Peter, Sep 2015, *19th World Veterinary Poultry Association Congress*. Cape Town, p. 148-148 1 p.

**Systemic reactive amyloidosis - an age related problem of importance in broiler breeders**

Thoefner, Ida , Poulsen, Louise Ladefoged, Bisgaard, M., Christensen, Henrik, Olsen, Rikke Heidemann & Christensen, Jens Peter, Sep 2015.

**Enterococcus and Streptococcus spp. associated with chronic and self-medicated urinary tract infections in Vietnam**

Poulsen, Louise Ladefoged, Bisgaard, M., Son, N. T., Trung, N. V., An, H. M. & Dalsgaard, Anders, 2013, In: B M C Infectious Diseases. 12, 7 p., 320.

***Enterococcus faecalis* clones in poultry and in humans with urinary tract infections, Vietnam**

Poulsen, Louise Ladefoged, Bisgaard, M., Son, N. T., Trung, N. V., An, H. M. & Dalsgaard, Anders, 2012, In: Emerging Infectious Diseases (Online). 18, 7, p. 1096-1100 5 p.

**Transmission of faecal zoonotic microorganisms between animals and humans in Northern Vietnam**

Poulsen, Louise Ladefoged, 2012, Department of Veterinary Disease Biology, University of Copenhagen. 152 p.