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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.