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Kort præsentation

John Elmerdahl Olsen is a veterinarian by training, and he has specialized in clinical and molecular microbiology. He is head of the research group "Molecular Veterinary Bacteriology". Here he works in a team consisting of himself, three Associate Professors (Line Elnif Thomsen, Henrik Christensen and Arshnee Moodley), and a varying number of Post Doc fellows, PhD students, Graduate Students and one Technician. The research focuses on prevention of bacterial diseases and antimicrobial resistance in animals. Where relevant, problems are viewed in a one health perspective. Currently, his own research projects are:

1) **Molecular mechanisms behind host-specificity of *Salmonella* serovars.**

The most severe *Salmonella* infections are caused by serovars which are host specific. This project studies the avian specific *Salmonella* serovar, *S. Gallinarum*, to understand why it only infects avians, and why it has such a high ability to cause Typhoid-like systemic infection in these species. It uses a combination of genomic, molecular-biology and infection biology approaches to identify how this serovar differs from closely related serovars without host-restriction and without the tendency to cause systemic infection.

The project is funded by Independent Research Fund Denmark, and it is carried out in collaboration with other researchers within the Department (Immunology) and Professor Ferric Fang, University of Washington, US.

2) **Metabolic responses in antibiotic resistant *Escherichia coli* to treatment with antibiotics to which the strain is resistant.**

Antimicrobial resistance is a world health problem and we need to find ways to be able to treat infections caused by antimicrobial resistant bacteria. This project identifies genes, besides the actual resistance genes, which are essential for the ability of antimicrobial resistant *E. coli* to grow in the presence of high concentrations of antimicrobials, to which the strain is resistant. Such genes are termed "the secondary resistome", and the proteins encoded by such genes are putative targets for helper drugs, which, when used along with antimicrobials, may re-sensitize resistant bacteria to treatment. Relevant genes are identified by transposon guided differential insertion sequencing technique (TraDIS). Libraries have been constructed in *E. coli* which are resistant to antibiotics of the classes: beta-lactams (cephalosporin), aminoglycosides, sulphonamides and trimethoprim. Metabolic modelling in collaboration with Oxford Brookes University, UK, is used to understand, which metabolic pathways are changed in response to treatment.

The project is financed by the EU-funded Ph.D training school (ITN-network) "INNOTARGETS" and a PhD scholarship from Pakistan. The training school is a collaboration between four Universities, two sector research institutes and two drug developing companies in Europe. John Elmerdahl Olsen is the coordinator of the ITN training network.

3) **Inactivation of bacteria in stables using UV-light.**

Use of antimicrobials for livestock in Denmark is particularly high in pig production, and we need to find ways to reduce pathogen load to reduce the number of infections, which needs to be treated. This project, UVIBA, determines inactivation of pathogenic bacteria and virus by LED-UV light. The idea is that lamps in stables can deliver this type of light in addition to traditional white-light, and that constant or cyclic use of UV-light may reduce pathogenic load in the air and dust in the stables. This may lead to reduced problems with diseases. Inactivation is determined under laboratory conditions with models of the lamp and selected indicator and pathogenic bacteria, as well as for pathogenic bacteria and virus in stables with pigs and proto-type lamps.

The project is funded by GUDP, and it is headed by the company FarmLight, which has developed the lamps. Other partners include DTU and Århus University.

4) ***Escherichia coli* pathotypes associated with diarrhoea in new borne calves.**

Diarrhoea in calves due to *E. coli* is common in the first one to two weeks of age and is an important reason for use of antimicrobials in young calves. Traditionally, the disease has been associated with the pathotype Enterotoxigenic *E. coli* (ETEC), characterized by production of enterotoxins and fimbriae which specifically allows colonization of the small intestine of calves, and current vaccines are directed against this pathotype. However, in recent years, this type of *E. coli* is not so commonly isolated from cases of diarrhoea in calves in Denmark. The project uses whole genome sequencing of isolates subjected to diagnostic laboratories or collected as part of dedicated sampling strategies, as well as metagenomic

approaches with Nanopore sequencing of faecal samples, to elucidate which pathotypes, other than ETEC, one can detect in faeces from calves with *E. coli* diarrhoea.

The project is funded by a stipend from the African Research Excellence Foundation and from the Danish Contingency Program. It is carried out in collaboration with Associate professor Jibril Abdurrahman, Sokoto University, Nigeria and other researchers at the Department (Food Safety).

5) Development of improved vaccines against post weaning diarrhoea in pigs.

Diarrhoea in the post weaning period is the single most important reason for use of antimicrobials in Danish livestock. This project, PigVac, develops and tests novel vaccines against the three most common bacteria associated with diarrhoea in the period from weaning to when pigs are transferred to the fattening unit. The vaccines are based on so-called virus like particles, where antigens are coupled to the surface of empty virus particles. The structure of these particles with high density of antigens on the surface are known to give optimal priming of the immune system. The tested vaccines are directed against Enterotoxigenic *E. coli* of fimbria types F4 and F18, *Lawsonia intracellularis* and *Brachyspira pilisicoli*. Prototype vaccines are first tested in mice models of infection and then in pigs. Outcome measurements include antibody responses, tolerance to vaccines, as well as the ability to protect against infections.

The project is funded by Innovation Fund Denmark, and it is carried out in collaboration with researchers at Department of Microbiology and Immunology, KU, SEGES and the vaccine company AdaptVac.

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Publikationer

Salmonella Gallinarum mgtC mutant shows a delayed fowl typhoid progression in chicken

Rodrigues Alves, L. B., Freitas Neto, O. C. D., Saraiva, M. D. M. S., do Monte, D. F. M., de Lima, B. N., Cabrera, J. M., Barbosa, F. D. O., Benevides, V. P., de Lima, T. S., Campos, I. C., Rubio, M. D. S., Nascimento, C. D. F., Arantes, L. C. R. V., Alves, V. V., de Almeida, A. M., Olsen, John Elmerdahl & Berchieri Junior, A., 20 jan. 2024, I: Gene. 892, 147827.

Diet composition drives tissue-specific intensity of murine enteric infections

Israelson, H., Vedsted-Jakobsen, Amalie, Zhu, L., Gagnaire, A., von Münchow, Alexandra, Polakovicova, N., Valente, Angela Hørdum, Raza, Ali, Andersen-Civil, A. I. S., Olsen, John Elmerdahl, Myhill, Laura Jessica, Geldhof, P. & Williams, Andrew Richard, 2024, I: mBio. 15, 2, 22 s., e0260323.

Genome-wide identification of fitness-genes in aminoglycoside-resistant Escherichia coli during antibiotic stress

Wellner, Sandra Marina, Alobaidallah, M. S. A., Fei, Xiao, Herrero-Fresno, A. & Olsen, John Elmerdahl, 2024, I: Scientific Reports. 14, 16 s., 4163.

Genomic Features and Phylogenetic Analysis of Antimicrobial-Resistant *Salmonella* Mbandaka ST413 Strains

Benevides, V. P., Saraiva, M. M. S., Nascimento, C. F., Delgado-Suárez, E. J., Oliveira, C. J. B., Silva, S. R., Miranda, V. F. O., Christensen, Henrik, Olsen, John Elmerdahl & Berchieri Junior, A., 2024, I: *Microorganisms*. 12, 2, 16 s., 312.

Lack of correlation between growth, stress, and virulence phenotypes in strains of *Salmonella enterica* serovar Enteritidis, S. Typhimurium DT104, S. 4,12, b:- and S. Liverpool

Olsen, John Elmerdahl, Frees, Dorte, Kyvsgaard, N. C. & Barco, L., 2024, I: *Letters in Applied Microbiology*. 77, 2, 9 s., ovae015.

SKIN ULCERATIONS IN DANISH NURSERY PIGS

Barington, Kristiane, Pankoke, K., Hartmann, Katrine Top, Hansen, Mette Sif, Jensen, Henrik Elvang, Blirup-Plum, Sophie Amalie, Jørgensen, B. M., Nielsen, Jens Peter, Eriksen, E. Ø., Kudirkiene, E., Olsen, John Elmerdahl & Pedersen, Ken Steen, 30 aug. 2023.

A Virus-like Particle-Based F4 Enterotoxigenic *Escherichia coli* Vaccine Is Inhibited by Maternally Derived Antibodies in Piglets but Generates Robust Responses in Sows

Aves, Kara-Lee, Guerra, Priscila Regina, Fresno, A. H., Saraiva, M. M. S., Cox, E., Bækbo, P. J., Nielsen, Morten Agertoug, Sander, Adam F. & Olsen, John Elmerdahl, 2023, I: *Pathogens*. 12, 12, 19 s., 1388.

An observational field study of porcine post-weaning diarrhea: clinical and microbiological findings, and fecal pH-measurements as a potential diagnostic tool

Eriksen, E. Ø., Kudirkiene, E., Barington, Kristiane, Goecke, Nicole Bakkegård, Blirup-Plum, Sophie Amalie, Nielsen, Jens Peter, Olsen, John Elmerdahl, Jensen, Henrik Elvang, Pankoke, K., Larsen, Lars, Liu, G. & Pedersen, Ken Steen, 2023, I: *Porcine Health Management*. 9, 33.

Assessing phenotypic virulence of *Salmonella enterica* across serovars and sources

Petrin, S., Wijnands, L., Benincà, E., Mughini-Gras, L., Delfgou-van Asch, E. H. M., Villa, L., Orsini, M., Losasso, C., Olsen, John Elmerdahl & Barco, L., 2023, I: *Frontiers in Microbiology*. 14, 1184387.

Bacteriostatic and Haemolytic Activities of Extracts and Compounds of *Commiphora swynnertonii*

Msengwa, Z., Credo, D., Mafuru, M., Mwesongo, J., Mabiki, F. P., Mwang'onde, B. J., Mtambo, M. M., Kusiluka, L. J., Mdegela, R. H. & Olsen, John Elmerdahl, 2023, I: *Research Journal of Pharmacognosy*. 10, 2, s. 47-56 10 s.

Effect of feeding dairy calves with milk fermented with selected probiotic strains on occurrence of diarrhoea, carriage of pathogenic and zoonotic microorganisms and growth performance

Fresno, A. H., Farias Alencar, Anna Luiza, Liu, G., Wridt, M. W., Andersen, F. B., Pedersen, H. S., Martin, H. L., Nielsen, Søren Saxmose, Aabo, S., Olsen, John Elmerdahl & Jensen, A. N., 2023, I: *Veterinary Microbiology*. 286, 109885.

Epifriedelanol is the key compound to antibacterial effects of extracts of *Synadenium glaucescens* (Pax) against medically important bacteria

Msengwa, S. Z., Rwegoshora, F., David, C., Mwesongo, J., Mafuru, M., Mabiki, F. P., Mwang'onde, B. J., Mtambo, M. M., Kusiluka, L. J. M., Mdegela, R. H. & Olsen, John Elmerdahl, 2023, I: *Frontiers in Tropical Diseases*. 3, 1104543.

Estimating potential farm economic benefits of advanced microbiological diagnostics in veterinary medicine

Jensen, Jørgen Dejgård, Christensen, Tove, Pansri, P. & Olsen, John Elmerdahl, 2023, I: *Animal Production Science*. 63, 15, s. 1545-1558

Gastro-intestinal lesions are not relatable to diarrhoea or specific pathogens in post-weaning diarrhoea (PWD) in pigs

Blirup-Plum, Sophie Amalie, Jensen, Henrik Elvang, Nielsen, Søren Saxmose, Pankoke, K., Hansen, Mette Sif, Pedersen, Ken Steen, Eriksen, E. Ø., Nielsen, Jens Peter, Olsen, John Elmerdahl, Kudirkiene, E., Larsen, Lars, Goecke, Nicole Bakkegård & Barington, Kristiane, 2023, I: *Acta Veterinaria Scandinavica*. 65, s. 1-18 18 s., 30.

Genomics, biofilm formation and infection of bladder epithelial cells in potentially uropathogenic *Escherichia coli* (UPEC) from animal sources and human urinary tract infections (UTIs) further support food-borne transmission

García, V., Lestón, L., Parga, A., García-Meniño, I., Fernández, J., Otero, A., Olsen, John Elmerdahl, Herrero-Fresno, A. & Mora, A., 2023, I: *One Health*. 16, 100558.

Identification of *Salmonella Pullorum* Factors Affecting Immune Reaction in Macrophages from the Avian Host
Fei, Xiao, Li, Q., Jiao, X. & Olsen, John Elmerdahl, 2023, I: Microbiology Spectrum. 11, 3, e00786-23.

Incidence and Genomic Background of Antibiotic Resistance in Food-Borne and Clinical Isolates of *Salmonella enterica* Serovar Derby from Spain

Vázquez, X., García-Fierro, R., Fernández, J., Bances, M., Herrero-Fresno, A., Olsen, John Elmerdahl, Rodicio, R., Ladero, V., García, V. & Rodicio, M. R., 2023, I: Antibiotics. 12, 7, 1204.

Lesions and pathogens found in pigs that died during the nursery period in five Danish farms

Barington, Kristiane, Eriksen, E. Ø., Kudirkiene, E., Pankoke, K., Hartmann, Katrine Top, Hansen, Mette Sif, Jensen, Henrik Elvang, Blirup-Plum, Sophie Amalie, Jørgensen, B. M., Nielsen, Jens Peter, Olsen, John Elmerdahl, Goecke, Nicole Bakkegård, Larsen, Lars & Pedersen, Ken Steen, 2023, I: Porcine Health Management. 9, 26.

Phenotypic and genotypic antimicrobial resistance correlation and plasmid characterization in *Salmonella* spp. isolates from Italy reveal high heterogeneity among serovars

Petrin, S., Orsini, M., Massaro, A., Olsen, John Elmerdahl, Barco, L. & Losasso, C., 2023, I: Frontiers in Public Health. 11, 13 s., 1221351.

Prevalence and whole genome phylogenetic analysis reveal genetic relatedness between antibiotic resistance *Salmonella* in hatchlings and older chickens from farms in Nigeria

Jibril, A. H., Okeke, I. N., Dalsgaard, Anders & Olsen, John Elmerdahl, 2023, I: Poultry Science. 102, 3, 102427.

The global transcriptomes of *Salmonella enterica* serovars Gallinarum, Dublin and Enteritidis in the avian host

Fei, Xiao, Schroll, C., Huang, K., Christensen, Jens Peter, Christensen, Henrik, Lemire, S., Kilstrup, M., Thomsen, Line Elnif, Jelsbak, L. & Olsen, John Elmerdahl, 2023, I: Microbial Pathogenesis. 182, 106236.

Uncovering the Important Genetic Factors for Growth during Cefotaxime-Gentamicin Combination Treatment in bla_{CTX-M-1} Encoding *Escherichia coli*

Alobaidallah, M. S. A., García, V., De Mets, R., Wellner, Sandra Marina, Thomsen, Line Elnif, Herrero-Fresno, A. & Olsen, John Elmerdahl, 2023, I: Antibiotics. 12, 6, 24 s., 993.

Whole strains vs MGEs in short and longterm transmission of ESBL genes between healthcare and community settings in Uganda

Hounmanou, Yaovi Mahuton Gildas, Wanyana, A., Alafi, S., Wabwire-mangen, F., Christensen, Henrik, Olsen, John Elmerdahl & Byarugaba, D. K., 2023, I: Scientific Reports. 13, 10229.

ANTIBACTERIAL EFFECTS OF SINGLE AND COMBINED CRUDE EXTRACTS OF SYNADENIUM GLAUCESCENS AND COMMIPHORA SWYNNERTONII

Ochollah, G. M., Msengwa, S. Z., Mabiki, P. F., Kusiluka, J. M. L., Mdegela, H. R. & Olsen, John Elmerdahl, 2022, I: African Journal of Infectious Diseases. 16, 2, s. 9-16 8 s.

Antimicrobial-induced horizontal transfer of antimicrobial resistance genes in bacteria: a mini-review

Liu, G., Thomsen, Line Elnif & Olsen, John Elmerdahl, 2022, I: The Journal of antimicrobial chemotherapy. 77, 3, s. 556-567 12 s.

Effect of pH and Salinity on the Ability of *Salmonella* Serotypes to Form Biofilm

Petrin, S., Mancin, M., Losasso, C., Deotto, S., Olsen, John Elmerdahl & Barco, L., 2022, I: Frontiers in Microbiology. 13, 821679.

Evaluation of a novel multiplex qPCR method for rapid detection and quantification of pathogens associated with calf diarrhoea

Pansri, P., Svensmark, B., Liu, G., Thamsborg, Stig Milan, Kudirkiene, E., Nielsen, H. V., Goecke, Nicole Bakkegård & Olsen, John Elmerdahl, 2022, I: Journal of Applied Microbiology. 133, 4, s. 2516-2527

GENOMIC CHARACTERIZATION OF MULTIDRUG-RESISTANT EXTENDED-SPECTRUM β -LACTAMASE-PRODUCING ESCHERICHIA COLI AND KLEBSIELLA PNEUMONIAE FROM CHIMPANZEES (PAN TROGLODYTES) FROM WILD AND SANCTUARY LOCATIONS IN UGANDA

Bager, S. L., Kakaala, I., Kudirkiene, E., Byarugaba, D. K. & Olsen, John Elmerdahl, 2022, I: Journal of Wildlife Diseases. 58, 2, s. 269-278 10 s.

Garlic-Derived Metabolites Exert Antioxidant Activity, Modulate Gut Microbiota Composition and Limit *Citrobacter rodentium* Infection in Mice

Zhu, L., Andersen-Civil, A. I. S., Castro-Meija, J. L., Nielsen, Dennis Sandris, Blanchard, A., Olsen, John Elmerdahl, Thamsborg, Stig Milan & Williams, Andrew Richard, 2022, I: Antioxidants. 11, 10, 14 s., 2033.

Genome-wide analysis of fitness factors in uropathogenic *Escherichia coli* in a pig urinary tract infection model

García, V., Stærk, K., Alobaidallah, M. S. A., Grønnemose, R. B., Guerra, Priscila Regina, Andersen, T. E., Olsen, John Elmerdahl & Herrero-Fresno, A., 2022, I: Microbiological Research. 265, s. 127202 1 s.

Inhibition of Virulence Gene Expression in *Salmonella* Dublin, *Escherichia coli* F5 and *Clostridium perfringens* Associated With Neonatal Calf Diarrhea by Factors Produced by Lactic Acid Bacteria During Fermentation of Cow Milk

Liu, G., Kragh, M. L., Aabo, S., Jensen, A. N. & Olsen, John Elmerdahl, 2022, I: Frontiers in Microbiology. 13, 828013.

Prediction of *Pasteurella multocida* serotypes based on whole genomic sequences

Christensen, Henrik, Sajid, S. M., Bisgaard, M., Magistrali, C. F., Massacci, F. R., Liman, M., Menke, T., Bischoff, H. & Olsen, John Elmerdahl, 2022, I: Veterinary Microbiology. 271, 109492.

Proteomes of Uropathogenic *Escherichia coli* Growing in Human Urine and in J82 Urinary Bladder Cells

Andersen, S., Nawrocki, A., Johansen, A. E., Herrero-Fresno, A., Menéndez, V. G., Møller-Jensen, J. & Olsen, John Elmerdahl, 2022, I: Proteomes. 10, 2, 15.

Recommendations on diagnostic investigations of post-weaning diarrhea outbreaks: assessing the prevalence of diarrhea and determining microbiological etiologies

Eriksen, E. Ø., Nielsen, Jens Peter, Kudirkiene, E., Olsen, John Elmerdahl, Goecke, Nicole Bakkegård, Larsen, Lars, Liu, G., Schmidt, Marianne Viuf Agerlin, Christensen, A. E. & Pedersen, Ken Steen, 2022.

Whole Genome Sequencing (WGS) Analysis of Virulence and AMR Genes in Extended-Spectrum β -Lactamase (ESBL)-Producing *Escherichia coli* from Animal and Environmental Samples in Four Italian Swine Farms

Bonvegna, M., Tomassone, L., Christensen, Henrik & Olsen, John Elmerdahl, 2022, I: Antibiotics. 11, 12, 1774.

"Omics" Technologies - What Have They Told Us About Uropathogenic *Escherichia coli* Fitness and Virulence During Urinary Tract Infection?

Torres-Puig, S., García, V., Stærk, K., Andersen, T. E., Møller-Jensen, J., Olsen, John Elmerdahl & Herrero-Fresno, A., 2022, I: Frontiers in Cellular and Infection Microbiology. 12, 824039.

Association between antimicrobial usage and resistance in *Salmonella* from poultry farms in Nigeria

Jibril, A. H., Okeke, I. N., Dalsgaard, Anders & Olsen, John Elmerdahl, 2021, I: BMC Veterinary Research. 17, 234.

Co-occurrence of antimicrobial and metal resistance genes in pig feces and agricultural fields fertilized with slurry

Peng, S., Zheng, H., Herrero-Fresno, A., Olsen, John Elmerdahl, Dalsgaard, Anders & Ding, Z., 2021, I: Science of the Total Environment. 792, 148259.

Duo: A Signature Based Method to Batch-Analyze Functional Similarities of Proteins

Fei, Xiao, Li, Q., Olsen, John Elmerdahl & Jiao, X., 2021, I: Frontiers in Microbiology. 12, 698322.

ESBL and AmpC β -Lactamase Encoding Genes in *E. coli* From Pig and Pig Farm Workers in Vietnam and Their Association With Mobile Genetic Elements

Hounmanou, Yaovi Mahuton Gildas, Bortolaia, V., Dang, S. T. T., Truong, D., Olsen, John Elmerdahl & Dalsgaard, Anders, 2021, I: Frontiers in Microbiology. 12, 14 s., 629139.

Genetic Comparison of ESBL-Producing *Escherichia coli* from Workers and Pigs at Vietnamese Pig Farms

Truong, D. T. Q., Hounmanou, Yaovi Mahuton Gildas, Dang, S. T. T., Olsen, John Elmerdahl, Truong, G. T. H., Tran, N. T., Scheutz, F. & Dalsgaard, Anders, 2021, I: *Antibiotics*. 10, 10, 1165.

Genome-wide analysis of fitness-factors in uropathogenic *Escherichia coli* during growth in laboratory media and during urinary tract infections

García, V., Grønnemose, R. B., Torres-Puig, S., Kudirkiene, E., Piantelli, M., Ahmed, S., Andersen, T. E., Møller-Jensen, J., Olsen, John Elmerdahl & Herrero-Fresno, A., 2021, I: *Microbial Genomics*. 7, 12, 22 s., :000719.

Genomic analysis of antimicrobial resistance and resistance plasmids in *salmonella* serovars from poultry in Nigeria

Jibril, A. H., Okeke, I. N., Dalsgaard, Anders, Menéndez, V. G. & Olsen, John Elmerdahl, 2021, I: *Antibiotics*. 10, 2, s. 1-22 22 s., 99.

Identification and characterization of a spreadable IncI1 plasmid harbouring a bla_{CTX-M-15} gene in an Italian human isolate of *Salmonella* serovar Napoli

Petrin, S., Orsini, M., Mastroilli, E., Longo, A., Cozza, D., Olsen, John Elmerdahl, Ricci, A., Losasso, C. & Barco, L., 2021, I: *Plasmid*. 114, 102566.

Immunological and bacteriological shifts associated with a flagellin-hyperproducing *Salmonella* Enteritidis mutant in chickens

de Oliveira Barbosa, F., de Freitas Neto, O. C., Rodrigues Alves, L. B., Benevides, V. P., de Souza, A. I. S., da Silva Rubio, M., de Almeida, A. M., Saraiva, M. M., de Oliveira, C. J. B., Olsen, John Elmerdahl & Junior, A. B., 2021, I: *Brazilian Journal of Microbiology*. 52, s. 419–429

Occurrence of major and minor pathogens in calves diagnosed with bovine respiratory disease

Kudirkiene, E., Aagaard, A. K., Schmidt, L. M. B., Pansri, P., Krogh, K. M. & Olsen, John Elmerdahl, 2021, I: *Veterinary Microbiology*. 259, 109135.

Post-weaning diarrhea in pigs weaned without medicinal zinc: risk factors, pathogen dynamics, and association to growth rate

Eriksen, E. Ø., Kudirkiene, E., Christensen, A. E., Schmidt, Marianne Viuf Agerlin, Weber, N. R., Nødtvedt, A., Nielsen, Jens Peter, Hartmann, Katrine Top, Skade, L., Larsen, Lars, Pankoke, K., Olsen, John Elmerdahl, Jensen, Henrik Elvang & Pedersen, Ken Steen, 2021, I: *Porcine Health Management*. 7, 54.

Post-weaning diarrhea outbreaks in Danish herds not using medicinal zinc oxide

Eriksen, E. Ø., Kudirkiene, E., Nielsen, Jens Peter, Olsen, John Elmerdahl & Pedersen, Ken Steen, 2021.

Prediction of *Mannheimia haemolytica* serotypes based on whole genomic sequences

Christensen, Henrik, Bisgaard, M., Menke, T., Liman, M., Timsit, E., Foster, G. & Olsen, John Elmerdahl, 2021, I: *Veterinary Microbiology*. 262, 109232.

The effect of colistin treatment on the selection of colistin-resistant *Escherichia coli* in weaner pigs

Ahmed, S., Hansen, C., Dahlkilde, A. L., Herrero-Fresno, A., Pedersen, Ken Steen, Nielsen, Jens Peter & Olsen, John Elmerdahl, 2021, I: *Antibiotics*. 10, 4, 465.

A bioinformatic approach to identify core genome difference between *Salmonella* Pullorum and *Salmonella* Enteritidis

Fei, Xiao, Li, Q., Olsen, John Elmerdahl & Jiao, X., 2020, I: *Infection, Genetics and Evolution*. 85, 104446.

A plasmid-encoded fetmp-fls iron uptake system confers selective advantages to *salmonella enterica* serovar typhimurium in growth under iron-restricted conditions and for infection of mammalian host cells

García, V., Herrero-Fresno, A., Rodicio, R., Felipe-López, A., Montero, I., Olsen, John Elmerdahl, Hensel, M. & Rodicio, M. R., 2020, I: *Microorganisms*. 8, 5, 15 s., 630.

Association of the prophage BTP1 and the prophage-encoded gene, *bstA*, with antivirulence of *Salmonella* Typhimurium ST313

Spiegelhauer, M. R., García, V., Guerra, Priscila Regina, Olsen, John Elmerdahl & Herrero-Fresno, A., 2020, I: Pathogens and Disease. 78, 3, ftaa019.

Combining *Salmonella* Dublin genome information and contact-tracing to substantiate a new approach for improved detection of infectious transmission routes in cattle populations

de Knecht, Leonardo Victor, Kudirkiene, E., Rattenborg, E., Sørensen, G., Denwood, Matt, Olsen, John Elmerdahl & Nielsen, Liza Rosenbaum, 2020, I: Preventive Veterinary Medicine. 181, 104531 s.

Dynamics and Outcome of Macrophage Interaction Between *Salmonella* Gallinarum, *Salmonella* Typhimurium, and *Salmonella* Dublin and Macrophages From Chicken and Cattle

Huang, K., Fresno, A. H., Skov, Søren & Olsen, John Elmerdahl, 2020, I: Frontiers in Cellular and Infection Microbiology. 9, 12 s., 420.

Effect of ampicillin, cephalexin, ceftiofur and tetracycline treatment on selection of resistant coliforms in a swine faecal microcosmos

Herrero-Fresno, A. & Olsen, John Elmerdahl, 2020, I: Journal of Applied Microbiology. 129, 5, s. 1238-1247

Epidemiology of *Salmonella* enterica Serovar Dublin in Cattle and Humans in Denmark, 1996 to 2016: a Retrospective Whole-Genome-Based Study

Kudirkiene, E., Sørensen, G., Torpdahl, M., de Knecht, Leonardo Victor, Nielsen, Liza Rosenbaum, Rattenborg, E., Ahmed, S. & Olsen, John Elmerdahl, 2020, I: Applied and Environmental Microbiology. 86, 3, 12 s., e01894-19.

Evaluation of novel multiplex qPCR assays for diagnosis of pathogens associated with the bovine respiratory disease complex

Pansri, P., Katholm, J., Krogh, K. M., Aagaard, A. K., Schmidt, L. M. B., Kudirkiene, E., Larsen, Lars & Olsen, John Elmerdahl, 2020, I: Veterinary Journal. 256, 105425.

F4- and F18-Positive Enterotoxigenic *Escherichia coli* Isolates from Diarrhea of Postweaning Pigs: Genomic Characterization

García, V., Gambino, Michela, Pedersen, K., Haugegaard, S., Olsen, John Elmerdahl & Herrero-Fresno, A., 2020, I: Applied and Environmental Microbiology. 86, 23

Global responses to oxytetracycline treatment in tetracycline-resistant *Escherichia coli*

Møller, T. S. B., Liu, G., Hartman, H. B., Rau, M. H., Mortensen, S., Thamsborg, K., Johansen, A. E., Sommer, M. O. A., Guardabassi, Luca, Poolman, M. G. & Olsen, John Elmerdahl, 2020, I: Scientific Reports. 10, 1, 13 s., 8438.

High prevalence of *mcr-1*-encoded colistin resistance in commensal *Escherichia coli* from broiler chicken in Bangladesh

Ahmed, S., Das, T., Islam, M. Z., Herrero-Fresno, A., Biswas, P. K. & Olsen, John Elmerdahl, 2020, I: Scientific Reports. 10, 13 s., 18637.

Indications for the use of highest priority critically important antimicrobials in the veterinary sector

Lhermie, G., La Ragione, R. M., Weese, J. S., Olsen, John Elmerdahl, Christensen, Jens Peter & Guardabassi, Luca, 2020, I: The Journal of antimicrobial chemotherapy. 75, 7, s. 1671-1680 10 s.

Influence of zinc on CTX-M-1 β -lactamase expression in *Escherichia coli*

Peng, S., Herrero-Fresno, A., Olsen, John Elmerdahl & Dalsgaard, Anders, 2020, I: Journal of Global Antimicrobial Resistance. 22, s. 613-619 7 s.

Molecular Characteristics and Zoonotic Potential of *Salmonella* Weltevreden From Cultured Shrimp and Tilapia in Vietnam and China

Hounmanou, Yaovi Mahuton Gildas, Dalsgaard, Anders, Sopacua, T. F., Uddin, G. M. N., Leekitcharoenphon, P., Hendriksen, R. S., Olsen, John Elmerdahl & Larsen, M. H., 2020, I: Frontiers in Microbiology. 11, 1985.

Polyamine depletion has global effects on stress and virulence gene expression and affects HIIA translation in *Salmonella enterica* serovar typhimurium

Guerra, Priscila Regina, Liu, G., Lemire, S., Nawrocki, A., Kudirkiene, E., Møller-Jensen, J., Olsen, John Elmerdahl & Jelsbak, L., 2020, I: *Research in Microbiology*. 17, 3-4, s. 143-152

Prevalence and genomic characterization of *Salmonella Weltevreden* in commercial pig feed

Minh, D. K., Hounmanou, Yaovi Mahuton Gildas, Mai, H. B. T., Olsen, John Elmerdahl & Dalsgaard, Anders, 2020, I: *Veterinary Microbiology*. 246, 108725.

Prevalence and risk factors of *Salmonella* in commercial poultry farms in Nigeria

Jibril, A. H., Okeke, I. N., Dalsgaard, Anders, Kudirkiene, E., Akinlabi, O. C., Bello, M. B. & Olsen, John Elmerdahl, 2020, I: *PLoS ONE*. 15, 9, s. 17 e0238190.

Research note: Occurrence of *mcr*-encoded colistin resistance in *Escherichia coli* from pigs and pig farm workers in Vietnam

Dang, S. T. T., Truong, D. T. Q., Olsen, John Elmerdahl, Tran, N. T., Truong, G. T. H., Vu, H. T. K. & Dalsgaard, Anders, 2020, I: *FEMS Microbes*. 1, 1, 6 s., xtaa003.

Antibiotic-Induced, Increased Conjugative Transfer Is Common to Diverse Naturally Occurring ESBL Plasmids in *Escherichia coli*

Liu, G., Bogaj, K., Bortolaia, V., Olsen, John Elmerdahl & Thomsen, Line Elnif, 2019, I: *Frontiers in Microbiology*. 10, 2119.

Cholera hotspots and surveillance constraints contributing to recurrent epidemics in Tanzania

Hounmanou, Yaovi Mahuton Gildas, Mølbak, Kåre, Kähler, J., Mdegela, R. H., Olsen, John Elmerdahl & Dalsgaard, Anders, 2019, I: *BMC Research Notes*. 12, 6 s., 664.

Effect of tetracycline treatment regimens on antibiotic resistance gene selection over time in nursery pigs

Græsbøll, K., Larsen, Inge, Clasen, J., Birkegård, A. C., Nielsen, Jens Peter, Christiansen, L. E., Olsen, John Elmerdahl, Angen, Ø. & Folkesson, A., 2019, I: *BMC Microbiology*. 19, 1, 10 s., 269.

Factors influencing Danish veterinarians' choice of antimicrobials prescribed for intestinal diseases in weaner pigs

Eriksen, E. Ø., Smed, S., Klit, K. J. M. & Olsen, John Elmerdahl, 2019, I: *Veterinary Record*. 184, 26, 10 s., 798.

Genomic insights into *Vibrio cholerae* O1 responsible for cholera epidemics in Tanzania between 1993 and 2017

Hounmanou, Yaovi Mahuton Gildas, Leekitcharoenphon, P., Kudirkiene, E., Mdegela, R. H., Hendriksen, R. S., Olsen, John Elmerdahl & Dalsgaard, Anders, 2019, I: *PLOS Neglected Tropical Diseases*. 13, 12, 14 s., e0007934.

Identification of Genes Essential for Antibiotic-Induced Up-Regulation of Plasmid-Transfer-Genes in Cephalosporin Resistant *Escherichia coli*

Liu, G., Olsen, John Elmerdahl & Thomsen, Line Elnif, 2019, I: *Frontiers in Microbiology*. 10, 9 s., 2203.

Infectious potential of human derived uropathogenic *Escherichia coli* UT186 in the reproductive tract of laying hens

Mortensen, S., Johansen, A. E., Thoenfer, Ida, Christensen, Jens Peter, Pors, S. E., Fresno, A. H., Møller-Jensen, J. & Olsen, John Elmerdahl, 2019, I: *Veterinary Microbiology*. 239, 108445.

Interaction differences of the avian host-specific *salmonella enterica* serovar gallinarum, the host-generalist *S. Typhimurium*, and the cattle host-adapted *S. Dublin* with chicken primary macrophage

Huang, K., Herrero-Fresno, A., Thoenfer, Ida, Skov, Søren & Olsen, John Elmerdahl, 2019, I: *Infection and Immunity*. 87, 12, e00552-19.

Reclassification of Bisgaard taxon 37 and taxon 44 as *Psittacella melopsittaci* gen. nov., sp. nov., *Psittacella hinzii* sp. nov. and *Psittacella gerlachiana* sp. nov. within *Psittacellaceae* fam. nov. of the order *Pasteurellales*

Xin, D., Bisgaard, M., Busse, H. J., Olsen, Rikke Heidemann, Hess, C., Aalbæk, Bent, Olsen, John Elmerdahl & Christensen, Henrik, 2019, I: *International Journal of Systematic and Evolutionary Microbiology*. 69, 2, s. 350-355 6 s., 003133.

Surveillance and Genomics of Toxigenic *Vibrio cholerae* O1 From Fish, Phytoplankton and Water in Lake Victoria, Tanzania

Hounmanou, Yaovi Mahuton Gildas, Leekitcharoenphon, P., Hendriksen, R. S., Dougnon, T. V., Mdegela, R. H., Olsen, John Elmerdahl & Dalsgaard, Anders, 2019, I: *Frontiers in Microbiology*. 10, 15 s., 901.

The SPI-19 encoded type-six secretion-systems (T6SS) of *Salmonella enterica* serovars Gallinarum and Dublin play different roles during infection

Schroll, C., Huang, K., Ahmed, S., Kristensen, B. M., Pors, S. E., Jelsbak, L., Lemire, S., Thomsen, Line Elnif, Christensen, Jens Peter, Jensen, P. R. & Olsen, John Elmerdahl, 2019, I: *Veterinary Microbiology*. 230, s. 23-31 9 s.

Tilapia (*Oreochromis niloticus*) as a Putative Reservoir Host for Survival and Transmission of *Vibrio cholerae* O1 Biotype El Tor in the Aquatic Environment

Hounmanou, Yaovi Mahuton Gildas, Mdegela, R. H., Dougnon, T. V., Madsen, Henry, Withey, J. H., Olsen, John Elmerdahl & Dalsgaard, Anders, 2019, I: *Frontiers in Microbiology*. 10, 14 s., 1215.

WGS based study of the population structure of *Salmonella enterica* serovar Infantis

Gymoese, Pernille, Kiil, K., Torpdahl, M., Østerlund, M. T., Sørensen, G., Olsen, John Elmerdahl, Nielsen, E. M. & Litrup, E., 2019, I: *BMC Genomics*. 20, 1, 11 s., 870.

The Use of a Combined Bioinformatics Approach to Locate Antibiotic Resistance Genes on Plasmids From Whole Genome Sequences of *Salmonella enterica* Serovars From Humans in Ghana

Kudirkiene, E., Andoh, L. A., Ahmed, S., Herrero Fresno, A., Dalsgaard, Anders, Obiri-Danso, K. & Olsen, John Elmerdahl, 17 maj 2018, I: *Frontiers in Microbiology*. 9, 14 s., 1010.

The membrane transporter PotE is required for virulence in avian pathogenic *Escherichia coli* (APEC)

Guerra, Priscila Regina, Herrero-Fresno, A., Pors, S. E., Ahmed, S., Wang, D., Thoefner, Ida, Antenucci, F. & Olsen, John Elmerdahl, mar. 2018, I: *Veterinary Microbiology*. 216, s. 38-44 7 s.

Prevalence of genetic determinants and phenotypic resistance to ciprofloxacin in *Campylobacter jejuni* from Lithuania

Aksomaitiene, J., Ramonaite, S., Olsen, John Elmerdahl & Malakauskas, M., feb. 2018, I: *Frontiers in Microbiology*. 9, 2, 6 s., 203.

Investigation of the role of genes encoding zinc exporters *zntA*, *zitB*, and *fiuF* during *Salmonella typhimurium* infection

Huang, K., Wang, D., Frederiksen, R. F., Rensing, C., Olsen, John Elmerdahl & Fresno, A. H., jan. 2018, I: *Frontiers in Microbiology*. 8, 1, 11 s., 2656.

Isolation of vancomycin-resistant *Enterococcus* from apparently healthy human animal attendants, cattle and cattle wastes in Tanzania

Madoshi, B. P., Mtambo, M. M. A., Muhairwa, A. P., Lupindu, A. M. & Olsen, John Elmerdahl, jan. 2018, I: *Journal of Applied Microbiology*. 124, 5, s. 1303-1310 8 s.

The Homolog of the Gene *bstA* of the BTP1 Phage from *Salmonella enterica* Serovar Typhimurium ST313 Is an Antivirulence Gene in *Salmonella enterica* Serovar Dublin

Herrero-Fresno, A., Espinel, I. C., Spiegelhauer, M. R., Guerra, Priscila Regina, Andersen, Karsten Wiberg & Olsen, John Elmerdahl, jan. 2018, I: *Infection and Immunity*. 86, 1, 12 s., e00784-17.

First Report on a Randomized Investigation of Antimicrobial Resistance in Fecal Indicator Bacteria from Livestock, Poultry, and Humans in Tanzania

Katakweba, A. A. S., Muhairwa, A. P., Lupindu, A. M., Damborg, Peter Panduro, Rosenkrantz, J. T., Minga, U. M., Mtambo, M. M. A. & Olsen, John Elmerdahl, 2018, I: *Microbial Drug Resistance*. 24, 3, s. 260-268 9 s.

Optimization of Antimicrobial Treatment to Minimize Resistance Selection

Guardabassi, Luca, Apley, M., Olsen, John Elmerdahl, Toutain, P. L. & Weese, S., 2018, *Antimicrobial Resistance in Bacteria from Livestock and Companion Animals*. ASM Press, s. 637-674 (Microbiology Spectrum).

Putrescine biosynthesis and export genes are essential for normal growth of avian pathogenic *Escherichia coli*

Guerra, Priscila Regina, Herrero-Fresno, A., Ladero, V., Redruello, B., Dos Santos, T. P., Spiegelhauer, M. R., Jelsbak, L. & Olsen, John Elmerdahl, 2018, I: BMC Microbiology. 18, 12 s., 226.

Salmonella Typhimurium metabolism affects virulence in the host – A mini-review

Herrero-fresno, A. & Olsen, John Elmerdahl, 2018, I: Food Microbiology. 71, s. 98-110

The impact of inactivation of the purine biosynthesis genes, *purN* and *purT*, on growth and virulence in uropathogenic *E. coli*

Andersen-Civil, A. I. S., Ahmed, S., Guerra, Priscila Regina, Andersen, T. E., Hounmanou, Yaovi Mahuton Gildas, Olsen, John Elmerdahl & Herrero-Fresno, A., 2018, I: Molecular Biology Reports. 45, 6, s. 2707-2716 10 s.

Treatment with cefotaxime affects expression of conjugation associated proteins and conjugation transfer frequency of an Inc11 plasmid in *Escherichia coli*

Møller, T. S. B., Liu, G., Boysen, A., Thomsen, Line Elnif, Lüthje, F. L., Mortensen, S., Møller-Jensen, J. & Olsen, John Elmerdahl, 29 nov. 2017, I: Frontiers in Microbiology. 8, 2365.

Chromosomal features of *Escherichia coli* serotype O2:K2, an avian pathogenic *E. coli*

Jørgensen, S. L., Kudirkiene, E., Li, L., Christensen, Jens Peter, Olsen, John Elmerdahl, Nolan, L. K. & Olsen, Rikke Heidemann, 10 maj 2017, I: Standards in Genomic Sciences. 12, 9 s., 33.

Genotype variation and genetic relationship among *Escherichia coli* from nursery pigs located in different pens in the same farm

Herrero-Fresno, A., Ahmed, S., Hansen, M. H., Denwood, Matt, Zachariasen, C. & Olsen, John Elmerdahl, 5 jan. 2017, I: BMC Microbiology. 17, 10 s., 5.

Effect of different oral oxytetracycline treatment regimes on selection of antimicrobial resistant coliforms in nursery pigs

Herrero-Fresno, A., Zachariasen, C., Nørholm, N., Holm, A., Christiansen, L. E. & Olsen, John Elmerdahl, 2017, I: Veterinary Microbiology. 208, s. 1-7 7 s.

Effect of tetracycline dose and treatment mode on selection of resistant coliform bacteria in nursery pigs

Græsbøll, K., Damborg, Peter Panduro, Møller, A., Herrero-Fresno, A., Larsen, Inge, Holm, A., Nielsen, Jens Peter, Christiansen, L. E., Angen, Ø., Ahmed, S., Folkesson, A. & Olsen, John Elmerdahl, 2017, I: Applied and Environmental Microbiology. 83, 12, 12 s., e00538-17.

Genetic clusters and circulation of *Salmonella* Dublin in Jutland

de Knecht, Leonardo Victor, Kudirkiene, E., Sorensen, G., Nielsen, Liza Rosenbaum & Olsen, John Elmerdahl, 2017. 1 s.

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, I: Journal of Antibiotics. 70, 9, s. 944-953 10 s.

Investigation of outbreaks of *Salmonella enterica* serovar typhimurium and its monophasic variants using whole-genome sequencing, Denmark

Gymoese, Pernille, Sørensen, G., Litrup, E., Olsen, John Elmerdahl, Nielsen, E. M. & Torpdahl, M., 2017, I: Emerging Infectious Diseases . 23, 10, s. 1631-1639 9 s.

Prevalence and characterization of *Salmonella* among humans in Ghana

Andoh, L. A., Ahmed, S., Olsen, John Elmerdahl, Obiri-Danso, K., Newman, M. J., Opintan, J. A., Barco, L. & Dalsgaard, Anders, 2017, I: Tropical Medicine and Health. 45, 11 s., 3.

Repetitive element sequence-based PCR typing for improved discrimination of *Campylobacter* Jejuni

Malakauskas, M., Malakauskas, A., Christensen, Henrik, Olsen, John Elmerdahl & Brogren, C. H., 2017, I: Veterinarija ir Zootechnika. 75, 97, s. 43-53 11 s.

Risk factors for episodes of enteric disease in cattle wastes handlers in Tanzania

Madoshi, B., Lupindu, A. M., Mtambo, M., Muhairwa, A. P. & Olsen, John Elmerdahl, 2017, I: Tanzania Veterinary Journal. 32, 1, s. 41-47

The genetic diversity of commensal *Escherichia coli* strains isolated from nonantimicrobial treated pigs varies according to age group

Ahmed, S., Olsen, John Elmerdahl & Herrero-Fresno, A., 2017, I: PLoS ONE. 12, 5, 18 s., e0178623.

Characterisation of commensal *Escherichia coli* isolated from apparently healthy cattle and their attendants in Tanzania

Madoshi, B., Kudirkiene, E., Mtambo, M., Muhairwa, A., Lupindu, A. & Olsen, John Elmerdahl, 15 dec. 2016, I: PLoS One. 11, 12, 19 s., e0168160.

Prevalence of feline haemoplasma in cats in Denmark

Rosenqvist, M. B., Meilstrup, A. H., Larsen, J., Olsen, John Elmerdahl, Jensen, Asger Lundorff & Thomsen, Line Elnif, 10 nov. 2016, I: Acta Veterinaria Scandinavica (Online). 58, 5 s., 78.

Prevalence and antimicrobial resistance of *Salmonella* serovars isolated from poultry in Ghana

Andoh, L. A., Dalsgaard, Anders, Obiri-Danso, K., Newman, M. J., Barco, L. & Olsen, John Elmerdahl, nov. 2016, I: Epidemiology and Infection. 144, 15, s. 3288-3299 12 s.

Modeling the growth dynamics of multiple *Escherichia coli* strains in the pig intestine following intramuscular ampicillin treatment

Ahmad, A., Zachariassen, C., Christiansen, L. E., Græsbøll, K., Toft, N., Matthews, L., Nielsen, Søren Saxmose & Olsen, John Elmerdahl, 6 sep. 2016, I: BMC Microbiology. 16, 1, 10 s., 205.

Adaptive responses to cefotaxime treatment in ESBL-producing *Escherichia coli* and the possible use of significantly regulated pathways as novel secondary targets

Møller, T. S. B., Rau, M. H., Bonde, C. S., Sommer, M. O. A., Guardabassi, Luca & Olsen, John Elmerdahl, sep. 2016, I: Journal of Antimicrobial Chemotherapy. 71, 9, s. 2449-2459 11 s.

The In Vitro Redundant Enzymes PurN and PurT Are Both Essential for Systemic Infection of Mice in *Salmonella enterica* Serovar Typhimurium

Jelsbak, L., Mortensen, M. I. B., Kilstrup, M. & Olsen, John Elmerdahl, jul. 2016, I: Infection and Immunity. 84, 7, s. 2076-2085

Determining the optimal number of individual samples to pool for quantification of average herd levels of antimicrobial resistance genes in Danish pig herds using high-throughput qPCR

Clasen, J., Møller, A., Olsen, John Elmerdahl, Angen, Ø., Folkesson, A., Halasa, T., Toft, N. & Birkegard, A. C., 30 jun. 2016, I: Veterinary Microbiology. 189, s. 46-51

Multistrain models predict sequential multidrug treatment strategies to result in less antimicrobial resistance than combination treatment

Ahmad, A., Zachariassen, C., Christiansen, L. E., Græsbøll, K., Toft, N., Matthews, L., Olsen, John Elmerdahl & Nielsen, Søren Saxmose, 23 jun. 2016, I: BMC Microbiology. 16, 10 s., 118.

Highly expressed amino acid biosynthesis genes revealed by global gene expression analysis of *Salmonella enterica* serovar Enteritidis during growth in whole egg are not essential for this growth

Jakociune, D., Herrero-Fresno, A., Jelsbak, L. & Olsen, John Elmerdahl, 2 maj 2016, I: International Journal of Food Microbiology. 224, s. 40-46

Relation between *tetR* and *tetA* expression in tetracycline resistant *Escherichia coli*

Møller, T. S. B., Overgaard, M., Nielsen, Søren Saxmose, Bortolaia, V., Sommer, M. O. A., Guardabassi, Luca & Olsen, John Elmerdahl, 12 mar. 2016, I: BMC Microbiology. 16, 8 s., 39.

The efficacy of oxytetracycline treatment at batch, pen and individual level on *Lawsonia intracellularis* infection in nursery pigs in a randomised clinical trial

Larsen, Inge, Nielsen, Søren Saxmose, Olsen, John Elmerdahl & Nielsen, Jens Peter, 1 feb. 2016, I: Preventive Veterinary Medicine. 124, s. 25-33 9 s.

spa typing and antimicrobial resistance of *Staphylococcus aureus* from healthy humans, pigs and dogs in Tanzania

Katakweba, A. S., Muhairwa, A. P., Espinosa-Gongora, C., Guardabassi, Luca, Mtambo, M. M. & Olsen, John Elmerdahl, feb. 2016, I: Journal of Infection in Developing Countries. 10, 2, s. 143-148

A randomised clinical trial on the efficacy of oxytetracycline dose through water medication of nursery pigs on diarrhoea, faecal shedding of *Lawsonia intracellularis* and average daily weight gain

Larsen, Inge, Hjulsgaard, C. K., Holm, A., Olsen, John Elmerdahl, Nielsen, Søren Saxmose & Nielsen, Jens Peter, 1 jan. 2016, I: Preventive Veterinary Medicine. 123, s. 52-59 8 s.

Apramycin treatment affects selection and spread of a multidrug-resistant *Escherichia coli* strain able to colonize the human gut in the intestinal microbiota of pigs

Herrero Fresno, A., Zachariasen, C., Hansen, M. H., Nielsen, A. S., Hendriksen, R. S., Nielsen, Søren Saxmose & Olsen, John Elmerdahl, 2016, I: Veterinary Research. 47, 10 s., 12.

Enteral but not parenteral antibiotics enhance gut function and prevent necrotizing enterocolitis in formula-fed newborn preterm pigs

Birck, M. M., Nguyen, Duc Ninh, Cilieborg, Malene Skovsted, Bin Shamzir Kamal, S., Nielsen, Dennis Sandris, Damborg, Peter Panduro, Olsen, John Elmerdahl, Lauridsen, C., Sangild, Per Torp & Thymann, Thomas, 2016, I: American Journal of Physiology: Gastrointestinal and Liver Physiology. 310, 5, s. G323-G333 11 s.

Pharmacodynamic modelling of in vitro activity of tetracycline against a representative, naturally occurring population of porcine *Escherichia coli*

Ahmad, A., Zachariasen, C., Christiansen, L. E., Græsbøll, K., Toft, N., Matthews, L., Damborg, Peter Panduro, Agersø, Y., Olsen, John Elmerdahl & Nielsen, Søren Saxmose, nov. 2015, I: Acta Veterinaria Scandinavica (Online). 57, 8 s., 79.

Genetic relatedness of commensal *Escherichia coli* from nursery pigs in intensive pig production in Denmark and molecular characterization of genetically different strains

Herrero Fresno, A., Larsen, Inge & Olsen, John Elmerdahl, aug. 2015, I: Journal of Applied Microbiology. 119, 2, s. 342-353 12 s.

Sampling and pooling methods for capturing herd level antibiotic resistance in swine feces using qPCR and CFU approaches

Schmidt, G. V., Møllerup, A., Christiansen, L. E., Ståhl, M., Olsen, John Elmerdahl & Angen, Ø., 26 jun. 2015, I: PloS one. 10, 6, 22 s., e0131672.

Importance of sigma factor mutations in increased triclosan resistance in *Salmonella* Typhimurium

Gantzhorn, M. R., Olsen, John Elmerdahl & Thomsen, Line Elnif, 19 maj 2015, I: B M C Microbiology. 15, 9 s., 105.

Persistence of vancomycin resistance in multiple clones of *Enterococcus faecium* isolated from Danish broilers 15 years after the ban of avoparcin

Bortolaia, V., Mander, M., Jensen, L. B., Olsen, John Elmerdahl & Guardabassi, Luca, maj 2015, I: Antimicrobial Agents and Chemotherapy. 59, 5, s. 2926-2929 4 s.

Ascertaining the relationship between *Salmonella* Typhimurium and *Salmonella* 4,[5],12:i:- by MLVA and inferring the sources of human salmonellosis due to the two serovars in Italy

Barco, L., Barrucci, F., Cortini, E., Ramon, E., Olsen, John Elmerdahl, Luzzi, I., Lettini, A. A. & Ricci, A., 27 apr. 2015, I: Frontiers in Microbiology. 6, 10 s., 301.

Antimicrobial resistance in faecal samples from buffalo, wildebeest and zebra grazing together with and without cattle in Tanzania

Katakweba, A. A. S., Møller, K. S., Muumba, J., Muhairwa, A. P., Damborg, Peter Panduro, Rosenkrantz, J. T., Minga, U. M., Mtambo, M. M. A. & Olsen, John Elmerdahl, apr. 2015, I: Journal of Applied Microbiology. 118, 4, s. 966-975 10 s.

Extended spectrum β -lactamase-producing *Escherichia coli* forms filaments as an initial response to cefotaxime treatment

Møller, T. S. B., Sommer, M. O. A. & Olsen, John Elmerdahl, mar. 2015, I: B M C Microbiology. 15, 6 s., 63.

CTX-M-1 β -lactamase expression in *Escherichia coli* is dependent on cefotaxime concentration, growth phase and gene location

Kjeldsen, T. S. B., Overgaard, M., Nielsen, Søren Saxmose, Bortolaia, V., Jelsbak, L., Sommer, M., Guardabassi, Luca & Olsen, John Elmerdahl, 2015, I: Journal of Antimicrobial Chemotherapy. 70, 1, s. 62-70 9 s.

Mindset of urban and peri-urban dairy cattle keepers in Morogoro, Tanga and Temeke Districts, Tanzania

Mlozi, M. R. S., Mtambo, M. M. A. & Olsen, John Elmerdahl, 2015, I: Livestock Research for Rural Development (Online Edition). 27, 2, 38.

The consequence of low mannose-binding lectin plasma concentration in relation to susceptibility to *Salmonella* Infantis in chickens

Ulrich-Lyngge, S. L., Dalgaard, T. S., Norup, L. R., Kjærup, R. M., Olsen, John Elmerdahl, Sørensen, P. & Juul-Madsen, H. R., 2015, I: Veterinary Immunology and Immunopathology. 163, 1-2, s. 23-32 10 s.

Transmission of antibiotic-resistant *Escherichia coli* between cattle, humans and the environment in peri-urban livestock keeping communities in Morogoro, Tanzania

Lupindu, A. M., Dalsgaard, Anders, Msoffe, P. L. M., Ngowi, H. A., Mtambo, M. M. & Olsen, John Elmerdahl, 2015, I: Preventive Veterinary Medicine. 118, 4, s. 477-482 6 s.

Whole-genome sequence of *Staphylococcus aureus* S54F9 isolated from a chronic disseminated porcine lung abscess and used in human infection models

Aalbæk, Bent, Jensen, Louise Kruse, Jensen, Henrik Elvang, Olsen, John Elmerdahl & Christensen, Henrik, 2015, I: Genome Announcements. 3, 5, 2 s., e01207-15.

Analysis of the contribution of bacteriophage ST64B to *in vitro* virulence traits of *Salmonella enterica* serovar Typhimurium

Herrero Fresno, A., Leekitcharoenphon, P., Hendriksen, R. S., Olsen, John Elmerdahl & Aarestrup, F. M., 2014, I: Journal of Medical Microbiology. 63, 3, s. 331-342 12 s.

Biocide and antibiotic susceptibility of *Salmonella* isolates obtained before and after cleaning at six Danish pig slaughterhouses

Gantzhorn, M. R., Pedersen, K., Olsen, John Elmerdahl & Thomsen, Line Elnif, 2014, I: International Journal of Food Microbiology. 181, s. 53-59 7 s.

Demonstration of persistent contamination of a cooked egg product production facility with *Salmonella enterica* serovar Tennessee and characterization of the persistent strain

Jakociune, D., Bisgaard, M., Pedersen, K. & Olsen, John Elmerdahl, 2014, I: Journal of Applied Microbiology. 117, 2, s. 547-553 7 s.

Effects of environmental conditions on growth and survival of *Salmonella* in pasteurized whole egg

Jakociune, D., Bisgaard, M., Hervé, G., Protais, J., Olsen, John Elmerdahl & Chemaly, M., 2014, I: International Journal of Food Microbiology. 184, s. 27-30 4 s.

Enumeration of *Salmonella* in table eggs, pasteurized egg products and egg-containing dishes by using quantitative real-time PCR

Jakociune, D., Pasquali, F., da Silva, C. S., Löfström, C., Hoorfar, J., Klein, G., Manfreda, G. & Olsen, John Elmerdahl, 2014, I: Applied and Environmental Microbiology. 80, 5, s. 1616-1622 7 s.

European validation of Real-Time PCR method for detection of *Salmonella* spp. in pork meat

Delibato, E., Lazaro, D. R., Gianfranceschi, M., De Cesare, A., Comin, D., Gattuso, A., Hernandez, M., Sonnessa, M., Pasquali, F., Sreter-Lancz, Z., Jakociune, D. & Olsen, John Elmerdahl, 2014, I: International Journal of Food Microbiology. 184, s. 134-138 5 s.

European validation of a real-time PCR-based method for detection of *Listeria monocytogenes* in soft cheese

Gianfranceschi, M. V., Rodriguez-Lazaro, D., Hernandez, M., González-García, P., Comin, D., Gattuso, A., Delibato, E., Sonnessa, M., Pasquali, F., Prencipe, V., Jakociune, D. & Olsen, John Elmerdahl, 2014, I: International Journal of Food Microbiology. 184, s. 128-133 6 s.

Identification of metabolic pathways essential for fitness of *Salmonella* Typhimurium *In Vivo*

Jelsbak, L., Hartman, H., Schroll, C., Rosenkrantz, J. T., Lemire, S., Wallrodt, I., Thomsen, Line Elnif, Poolman, M., Kilstrup, M., Jensen, P. R. & Olsen, John Elmerdahl, 2014, I: P L o S One. 9, 7, 7 s., e101869.

Identification of potential drug targets in *Salmonella enterica* sv. Typhimurium using metabolic modelling and experimental validation

Hartman, H. B., Fell, D. A., Rossell, S., Jensen, P. R., Woodward, M. J., Thorndahl, L., Jelsbak, L., Olsen, John Elmerdahl, Raghunathan, A., Daefler, S. & Poolman, M. G., 2014, I: Microbiology-Sgm. 160, 6, s. 1252-1266 15 s.

Improvement of sampling plans for *Salmonella* detection in pooled table eggs by use of real-time PCR

Pasquali, F., De Cesare, A., Valero, A., Olsen, John Elmerdahl & Manfreda, G., 2014, I: International Journal of Food Microbiology. 184, s. 31-34 4 s.

Molecular characterization of "inconsistent" variants of *Salmonella* Typhimurium isolated in Italy

Barco, L., Longo, A., Lettini, A. A., Cortini, E., Saccardin, C., Minorello, C., Olsen, John Elmerdahl & Ricci, A., 2014, I: Foodborne pathogens and disease. 11, 6, s. 497-499 3 s.

Molecular characterization of *Salmonella enterica* serovar 4,[5],12:i:- DT193 ASSuT strains from two outbreaks in Italy

Barco, L., Ramon, E., Cortini, E., Longo, A., Dalla Pozza, M. C., Lettini, A. A., Dionisi, A. M., Olsen, John Elmerdahl & Ricci, A., 2014, I: Foodborne pathogens and disease. 11, 2, s. 138-144 7 s.

Occurrence and characterization of Shiga toxin-producing *Escherichia coli* O157:H7 and other non-sorbitol-fermenting *E. coli* in cattle and humans in urban areas of Morogoro, Tanzania

Lupindu, A. M., Olsen, John Elmerdahl, Ngowi, H. A., Msoffe, P. L. M., Mtambo, M. M., Scheutz, F. & Dalsgaard, Anders, 2014, I: Vector Borne and Zoonotic Diseases. 14, 7, s. 503-510 8 s.

Polyamines are essential for virulence in *Salmonella enterica* serovar Gallinarum despite evolutionary decay of polyamine biosynthesis genes

Schroll, C., Christensen, Jens Peter, Christensen, Henrik, Pors, S. E., Thorndahl, L., Jensen, P. R., Olsen, John Elmerdahl & Jelsbak, L., 2014, I: ScienceDirect, Veterinary Microbiology. 170, 1-2, s. 144-150 7 s.

Removal of the phage-shock protein PspB causes reduction of virulence in *Salmonella enterica* serovar Typhimurium independently of NRAMP1

Wallrodt, I., Jelsbak, L., Thomsen, Line Elnif, Brix, L., Lemire, S., Gautier, L., Nielsen, Dennis Sandris, Jovanovic, G., Buck, M. & Olsen, John Elmerdahl, 2014, I: Journal of Medical Microbiology. 63, 6, s. 788-795 8 s.

The role of ClpP, RpoS and CsrA in growth and filament formation of *Salmonella enterica* serovar Typhimurium at low temperature

Knudsen, G. M., Nielsen, M., Thomsen, Line Elnif, Aabo, S., Rychlik, I. & Olsen, John Elmerdahl, 2014, I: B M C Microbiology. 14, 9 s., 208.

The role of the *st313-td* gene in virulence of *Salmonella* Typhimurium ST313

Herrero Fresno, A., Wallrodt, I., Leekitcharoenphon, P., Olsen, John Elmerdahl, Aarestrup, F. M. & Hendriksen, R. S., 2014, I: PLOS ONE. 9, 1, 11 s., e84566.

Polyamines are required for virulence and expression of virulence loci in *Salmonella* Typhimurium

Jelsbak, L., Thomsen, Line Elnif, Lemire, S. & Olsen, John Elmerdahl, jul. 2013. 1 s.

Identification of redundant metabolic pathways essential for virulence of *Salmonella* Typhimurium: Abstract book I3S International Symposium Salmonella and Salmonellosis, Saint-Malo, France

Jelsbak, L., Hartman, H., Jensen, P. R., Poolman, M. & Olsen, John Elmerdahl, 27 maj 2013. 1 s.

***Salmonella* source attribution based on microbial subtyping**

Barco, L., Barrucci, F., Olsen, John Elmerdahl & Ricci, A., 2013, I: International Journal of Food Microbiology. 163, 2-3, s. 193-203 11 s.

ClpP deletion causes attenuation of *Salmonella* Typhimurium virulence through mis-regulation of RpoS and indirect control of CsrA and the SPI genes

Knudsen, G. M., Olsen, John Elmerdahl, Aabo, S., Barrow, P., Rychlik, I. & Thomsen, Line Elnif, 2013, I: Microbiology. 159, 7, s. 1497-1509 13 s.

Colonization resistance and immunological differences in response to an experimental *Salmonella* infection between two chicken lines selectively bred for high or low concentration of mannose-binding lectin: SSI13-2018

Ulrich-Lyngø, S. L., Sørensen Dalgaard, T., Norup, L. R., Olsen, John Elmerdahl & Juul-Madsen, H. R., 2013, *Scandinavian Journal of Immunology: SSI 2013 Abstract Submission and Innate Immunity*. Bind 77. s. 274-274

Comparative study of PCR methods to detect *Pasteurella multocida*

Adhikary, S., Bisgaard, M., Foster, G., Kiessling, N., Fahlen, A. R., Olsen, John Elmerdahl & Christensen, Henrik, 2013, I: Berliner und Muenchener Tieraerztliche Wochenschrift. 126, 9/10, s. 415-422 8 s.

Comparison of heat stress responses of immobilized and planktonic *Salmonella enterica* serovar Typhimurium

Nielsen, M., Knudsen, G. M., Danino-Appleton, V., Olsen, John Elmerdahl & Thomsen, Line Elnif, 2013, I: Food Microbiology. 33, 2, s. 221-227 7 s.

Factor H binds to the hypervariable region of many *Streptococcus pyogenes* M proteins but does not promote phagocytosis resistance or acute virulence

Gustafsson, C. U. M., Lannergård, J., Nilsson, O. R., Kristensen, B. M., Olsen, John Elmerdahl, Harris, C. L., Ufret-Vincenty, R. L., Stålhammar-Carlemalm, M. & Lindahl, C. G., 2013, I: P L o S Pathogens. 9, 4, s. e1003323 17 s.

Importance of the producer on retail broiler meat product contamination with *Campylobacter* spp

Kudirkiene, E., Buneviciene, J., Serniene, L., Ramonaite, S., Olsen, John Elmerdahl & Malakauskas, M., 2013, I: Journal of the Science of Food and Agriculture. 93, 9, s. 2293-2298 6 s.

Intestinal invasion of *Salmonella enterica* serovar Typhimurium in the avian host is dose dependent and does not depend on motility and chemotaxis

Olsen, John Elmerdahl, Hoegh-Andersen, K. H., Rosenkrantz, J. T., Schroll, C., Casadesús, J., Aabo, S. & Christensen, Jens Peter, 2013, I: Veterinary Microbiology. 165, 3-4, s. 373-377 5 s.

Non-essential genes form the hubs of genome scale protein function and environmental gene expression networks in *Salmonella enterica* serovar Typhimurium

Rosenkrantz, J. T., Aarts, H., Abee, T., Rolfe, M. D., Knudsen, G. M., Nielsen, M., Thomsen, Line Elnif, Zwietering, M. H., Olsen, John Elmerdahl & Pin, C., 2013, I: B M C Microbiology. 13, 16 s., 294.

The putative thiosulfate sulfurtransferases PspE and GlpE contribute to virulence of *Salmonella* Typhimurium in the mouse model of systemic disease.

Wallrodt, I., Jelsbak, L., Thorndahl, L., Thomsen, Line Elnif, Lemire, S. & Olsen, John Elmerdahl, 2013, I: P L o S One. 8, 8, 9 s., e70829.

The role of Serpine-1 and Tissue inhibitor of metalloproteinase type-1 in early host responses to *Staphylococcus aureus* intracutaneous infection of mice

Harslund, J. L. F., Frees, Dorte, Leifsson, Páll S., Offenberg, H. K., Rømer, M. U. K., Brønner, N. & Olsen, John Elmerdahl, 2013, I: Pathogens and Disease. 68, 3, s. 96-104 9 s.

The role of flagella and chemotaxis genes in host pathogen interaction of the host adapted *Salmonella enterica* serovar Dublin compared to the broad host range serovar *S. Typhimurium*

Olsen, John Elmerdahl, Hoegh-Andersen, K. H., Casadesús, J., Rosenkrantz, J. T., Chadfield, M. S. & Thomsen, Line Elnif, 2013, I: *B M C Microbiology*. 13, 11 s., 67.

Molecular-epidemiological investigation of *Salmonella enterica* serovar Tennessee (*S. Tennessee*) isolated from long egg production facility

Jakociune, D., Bisgaard, M., Pedersen, K. & Olsen, John Elmerdahl, 5 okt. 2012. 1 s.

Awareness of human health risks associated with the use of antibiotics among livestock keepers and factors that contribute to selection of antibiotic resistance bacteria within livestock in Tanzania

Katakweba, A. A. S., Mtambo, M. M. A., Olsen, John Elmerdahl & Muhairwa, A. P., okt. 2012, I: *Livestock Research for Rural Development*. 24, 10

Molecular-epidemiological investigation of *Salmonella enterica* serovar Tennessee (*S. Tennessee*) isolated from a suspected case of persistent contamination of a long egg production facility

Jakociune, D., Bisgaard, M., Pedersen, K. & Olsen, John Elmerdahl, 4 sep. 2012. 1 s.

No evidence of biocide resistance in Danish *Salmonella* isolates from pig slaughterhouses

Gantzhorn, M. R., Pedersen, K., Olsen, John Elmerdahl & Thomsen, Line Elnif, 4 sep. 2012.

A new real-time PCR method for the identification of *Salmonella* Dublin

Persson, S., Jacobsen, T., Olsen, John Elmerdahl, Olsen, K. E. P. & Hansen, F., 2012, I: *Journal of Applied Microbiology*. 113, 3, s. 615-621 7 s.

A third mode of surface-associated growth: immobilization of *Salmonella enterica* serovar Typhimurium modulates the RpoS-directed transcriptional programme

Knudsen, G. M., Nielsen, M., Grassby, T., Danino-Appleton, V., Thomsen, Line Elnif, Colquhoun, I. J., Brocklehurst, T. F., Olsen, John Elmerdahl & Hinton, J. C. D., 2012, I: *Environmental Microbiology*. 14, 8, s. 1855-1875 21 s.

Adaptation of *Salmonella* Typhimurium to triclosan

Gantzhorn, M. R., Olsen, John Elmerdahl & Thomsen, Line Elnif, 2012.

Application of the Random Forest method to analyse epidemiological and phenotypic characteristics of *Salmonella* 4,[5],12:i:- and *Salmonella* Typhimurium strains

Barco, L., Mancin, M., Ruffa, M., Saccardin, C., Minorello, C., Zavagnin, P., Lettini, A. A., Olsen, John Elmerdahl & Ricci, A., 2012, I: *Zoonoses and Public Health*. 59, 7, s. 505-512 8 s.

Awareness of human health risks associated with the use of antibiotics among livestock keepers and factors that contribute to selection of antibiotic resistant bacteria within livestock in Tanzania

Katakweba, A. A. S., Mtambo, M. M. A., Olsen, John Elmerdahl & Muhairwa, A. P., 2012, I: *Livestock Research for Rural Development (Online Edition)*. 24, 10, 10 s., 170.

Current manure management practices and hygiene aspects of urban and peri-urban livestock farming in Tanzania

Lupindu, A. M., Ngowi, H. A., Dalsgaard, Anders, Olsen, John Elmerdahl & Msoffe, P. L. M., 2012, I: *Livestock Research for Rural Development (Online Edition)*. 24, 9, 11 s., 167.

Mustelidae are natural hosts of *Staphylococcus delphini* group A

Guardabassi, Luca, Schmidt, K. R., Petersen, T. S., Espinosa-Gongora, C., Moodley, Arshnee, Agersø, Y. & Olsen, John Elmerdahl, 2012, I: *Veterinary Microbiology*. 159, 3-4, s. 351-353 3 s.

Persistence of vancomycin-resistant *Enterococcus faecium* in Danish poultry 15 years after the ban of avoparcin

Bortolaia, V., Mander, M., Jensen, L. B., Olsen, John Elmerdahl & Guardabassi, Luca, 2012, *Book of abstracts: The 4th Central European Symposium on Antimicrobials and Antimicrobial Resistance, CESAR 2012: 23-26 September 2012 - Primošten, Croatia*. s. 50 1 s.

Polyamines are required for virulence in *Salmonella enterica* serovar Typhimurium

Jelsbak, L., Thomsen, Line Elnif, Wallrodt, I., Jensen, P. R. & Olsen, John Elmerdahl, 2012, I: PLoS ONE. 7, 4, 10 s.

The binding ability of purified chicken Mannose-Binding Lectin (cMBL) to *Salmonella enterica* serotype B, C1 and D: AIRG 2012- Scientific program and abstracts, pp 62-62

Ulrich-Lyngge, S. L., Sørensen Dalgaard, T., Norup, L. R., Olsen, John Elmerdahl & Juul-Madsen, H. R., 2012. 1 s.

The effect of supplementation on the performance of free range local chickens in Tanzania

Mutayoba, S. K., Katule, A. K. ..., Minga, U., Mtambo, M. M. .. & Olsen, John Elmerdahl, 2012, I: Livestock Research for Rural Development (Online Edition). 24, 5, 13 s., 93.

The importance of motility and chemotaxis for extra-animal survival of *Salmonella enterica* serovar Typhimurium and Dublin

Olsen, John Elmerdahl, Høgh-Andersen, K. H., Casadesús, J. & Thomsen, Line Elnif, 2012, I: Journal of Applied Microbiology. 113, 3, s. 560-568 9 s.

The transcriptional heat shock response of *Salmonella* Typhimurium shows hysteresis and heated cells show increased resistance to heat and acid stress

Pin, C., Hansen, T., Munoz-Cuevas, M., de Jonge, R., Rosenkrantz, J. T., Löfström, C., Aarts, H. & Olsen, John Elmerdahl, 2012, I: PLoS One. 7, 12, 10 s.

Change in attachment of *Salmonella typhimurium*, *Yersinia enterocolitica* and *Listeria monocytogenes* to pork skin and muscle after hot water and lactic acid decontamination

Morild, R. K., Olsen, John Elmerdahl & Aabo, S., 2011, I: International Journal of Food Microbiology. 145, 1, s. 353-358 6 s.

Demonstration of antibiotic resistance genes *strA*, *bla*TEM, *tetA*, *tetC* and *sul2* in *Avibacterium paragallinarum*

Byarugaba, D. K., Minga, U. M., Gwakisa, P. S., Katunguka-Rwakishaya, E., Bisgaard, M., Christensen, Henrik & Olsen, John Elmerdahl, 2011, I: African Journal of Microbiology Research. 5, 22, s. 3624-3627 4 s.

Evidence of broiler meat contamination with post-disinfection strains of *Campylobacter jejuni* from slaughterhouse

Kudirkené, E., Buneviciené, J., Brøndsted, Lone, Ingmer, Hanne, Olsen, John Elmerdahl & Malakauskas, M., 2011, I: International Journal of Food Microbiology. 145, Suppl. 1, s. S116-S120 5 s.

On the origin and diversity of Newcastle disease virus in Tanzania

Yongolo, M. G., Christensen, Henrik, Handberg, K., Minga, U. & Olsen, John Elmerdahl, 2011, I: Onderstepoort Journal of Veterinary Research. 78, 1, 8 s.

Seasonal variation in nutritive value of scavenged feed and effect of supplementation on performance of rural birds

Mutayoba, S. K., Katule, A. K., Minga, U., Mtambo, M. M. & Olsen, John Elmerdahl, 2011, I: Agriculture and Biology Journal of North America. 2, 9, s. 1310-1316 7 s.

Selection of CMY-2 producing *Escherichia coli* in the faecal flora of dogs treated with cephalexin

Damborg, Peter Panduro, Gaustad, I. B., Olsen, John Elmerdahl & Guardabassi, Luca, 2011, I: Veterinary Microbiology. 151, 3-4, s. 404-408 5 s.

Survival of *Salmonella* on cuts of beef carcasses subjected to dry aging

Knudsen, G. M., Sommer, H. M., Sørensen, N. D., Olsen, John Elmerdahl & Aabo, S., 2011, I: Journal of Applied Microbiology. 111, 4, s. 848-854 7 s.

Time-course investigation of infection with a low virulent *Pasteurella multocida* strain in normal and immune-suppressed 12-week-old free-range chickens

Mbuthia, P. G., Njagi, L. W., Nyaga, P. N., Bebor, L. C., Minga, U., Christensen, Jens Peter & Olsen, John Elmerdahl, 2011, I: Avian Pathology. 40, 6, s. 629-637 9 s.

A hitherto not recognized phenotype of *spvA* in *Salmonella*

Frees, Dorte, Gram, L., Holmstrøm, K. & Olsen, John Elmerdahl, 2010, *Proceedings: 13S international symposium salmonella and salmonellosis*. s. 33-34 2 s.

Demonstration of persistent strains of *Campylobacter jejuni* within broiler farms over a 1-year period in Lithuania

Kudirkiene, E., Malakauskas, M., Malakauskas, A., Bojesen, Anders Miki & Olsen, John Elmerdahl, 2010, I: *Journal of Applied Microbiology*. 108, 3, s. 868-877 10 s.

Detection and quantification of *Salmonella* in pasteurized egg products by real-time PCR

Jakociune, D., Löfström, C., Hoorfar, J. & Olsen, John Elmerdahl, 2010, *Proceedings: 13S international symposium salmonella and salmonellosis*. s. 97-98 2 s.

Development of a PCR method for verification of *Salmonella* Dublin

Hansen, F., Jacobsen, T., Persson, S., Olsen, John Elmerdahl & Mansdal, S., 2010, *22nd International ICFMH Symposium Food Micro 2010*. s. 185 1 s. PEC1.67

Immobilisation alters the heat shock response of *Salmonella typhimurium*

Nielsen, M., Knudsen, G. M., Danino-Appelton, V., Hinton, J. C., Brocklehurst, T., Olsen, John Elmerdahl & Thomsen, Line Elnif, 2010. 1 s.

Impact of immobilisation on virulence of *Salmonella typhimurium*

Thomsen, Line Elnif, Nielsen, M., Knudsen, G., Danino-Appleton, V., Hinton, J., Brocklehurst, T. & Olsen, John Elmerdahl, 2010. 1 s.

Modelling gene expression in *Salmonella* using microarray hybridization under conditions relevant to the pork chain

Pin, C., Hoorfar, J., Olsen, John Elmerdahl, Aarts, H., Nielsen, M. & Knudsen, G., 2010, *22nd International ICFMH Symposium Food Micro 2010: Final Programme et Abstract Book*. s. 50 (PSC1.04) 1 s.

Polyamine biosynthesis is essential for macrophage cytotoxicity of *Salmonella typhimurium*

Jelsbak, L., Thomsen, Line Elnif & Olsen, John Elmerdahl, 2010. 1 s.

Rapid quantification of viable *Campylobacter* bacteria on chicken carcasses, using real-time PCR and propidium monoazide treatment, as a tool for quantitative risk assessment

Josefsen, M. H., Löfström, C., Hansen, T. B., Christensen, L. S., Olsen, John Elmerdahl & Hoorfar, J., 2010, I: *Applied and Environmental Microbiology*. 76, 15, s. 5097-5104 8 s.

Rapid quantification of viable *Campylobacter* on chicken carcasses by real-time PCR and propidium monoazide as a tool for quantitative risk assessment

Josefsen, M. H., Löfström, C., Hansen, T. B., Christensen, L. S., Olsen, John Elmerdahl & Hoorfar, J., 2010, *22nd International ICFMH Symposium Food Micro 2010*. s. 51 1 s.

The role of phage-shock proteins in *Salmonella Typhimurium* virulence

Schmidt, I., Thomsen, Line Elnif, Jelsbak, L. & Olsen, John Elmerdahl, 2010. 1 s.

There is more to sessile growth than biofilm and swarming: immobilised growth of *Salmonella Typhimurium*

Knudsen, G., Nielsen, M., Grassby, T., Danino-Appleton, V., Thomsen, Line Elnif, Colquhoun, I., Brocklehurst, J., Olsen, John Elmerdahl & Hinton, J., 2010. 1 s.

Characterization of sulphonamide-resistant *Escherichia coli* using comparison of *sul2* gene sequences and multilocus sequence typing

Trobos Porro, M., Christensen, Henrik, Sunde, M., Nordentoft, S., Agersø, Y., Simonsen, G. S., Hammerum, A. M. & Olsen, John Elmerdahl, 2009, I: *Microbiology*. 155, s. 831-836 6 s.

Construction of genetic markers for the study of *Salmonella typhimurium* infection of murine macrophages
Jelsbak, L. & Olsen, John Elmerdahl, 2009. 1 s.

Evolution of the leukotoxin promoter in genus *Mannheimia*

Larsen, J., Pedersen, A. G., Davies, R. L., Kuhnert, P., Frey, J., Christensen, Henrik, Bisgaard, M. & Olsen, John Elmerdahl, 2009, I: BMC Evolutionary Biology. 9, 121, 12 s.

Impact of immobilisation on *Salmonella Typhimurium* virulence

Nielsen, M., Knudsen, G. M., Danino-Appelton, V., Hinton, J. C. D., Brocklehurst, T., Olsen, John Elmerdahl & Thomsen, Line Elnif, 2009. 1 s.

Impact of immobilisation on *Salmonella typhimurium* virulence

Nielsen, M., Knudsen, G. M., Danino-Appelton, V., Hinton, J. C., Brocklehurst, T., Olsen, John Elmerdahl & Thomsen, Line Elnif, 2009. 1 s.

Involvement of a peroxiredoxin gene of *Listeria Monocytogenes* in the survival in the presence of nitrosative stress and in virulence

Dons, L. E., Mosa, A., Rottenberg, M. E., Kristensson, K., Knoechel, Susanne & Olsen, John Elmerdahl, 2009. 1 s.

Natural transfer of sulphonamide and ampicillin resistance between *Escherichia coli* residing in the human intestine

Trobos Porro, M., Lester, C. H., Olsen, John Elmerdahl, Frimodt-Møller, N. & Hammerum, A. M., 2009, I: Journal of Antimicrobial Chemotherapy. 63, 1, s. 80-86 7 s.

Salmonella og Yersinia - bekæmpelsesmuligheder: 2.2

Aabo, S., Christensen, H., Christiansen, P., Jensen, Jørgen Dejgård, Morild, R. K., Lawson, G. L., Olsen, John Elmerdahl & Sørensen, A. M. H., 2009, *Fremtidens fødevarer - nye veje mod sikrere kød i Danmark*. Rosenquist, H., Sandøe, P., Tveit, G., Wingstrand, A. & Aabo, S. (red.). Center for Bioetik og Risikovurdering, s. 70-86 17 s.

Source tracking of sulphonamide resistance in *Escherichia coli* using comparison of *sul2* gene sequences and MLST typing

Trobos, M., Hammerum, A. M., Sunde, M., Nordentoft, S., Agersø, Y., Simonsen, G. S., Christensen, Henrik & Olsen, John Elmerdahl, 2009.

The *in vitro* fitness cost of antimicrobial resistance in *Escherichia coli* varies with the growth conditions

Petersen, A. H. H., Aarestrup, F. M. & Olsen, John Elmerdahl, 2009, I: FEMS Microbiology Letters. 299, 1, s. 53-59 7 s.

The immobilised growth of *Salmonella enterica* serovar Typhimurium in a food matrix modulates the RpoS-directed transcriptional programme

Knudsen, G. M., Nielsen, M., Grassby, T., Danino-Appelton, V., Thomsen, Line Elnif, Colquhoun, I. J., Brocklehurst, T., Olsen, John Elmerdahl & Hinton, J. C. D., 2009. 1 s.

The immobilised growth of *Salmonella enterica* serovar Typhimurium in a food matrix modulates the Rpos-directed transcriptional programme

Knudsen, G. M., Nielsen, M., Grassby, T., Danino-Appelton, V., Thomsen, Line Elnif, Colquhoun, I. J., Brocklehurst, T., Olsen, John Elmerdahl & Hinton, J. C., 2009. 1 s.

The role of Spi-6 and a putative type six secretion system in *Salmonella* serotype Gallinarum virulence

Olsen, John Elmerdahl, Kristensen, B. M. & Frees, Dorte, 2009, *ASM conference on Salmonella: Biology, Pathogenesis & Prevention*. s. 50 1 s.

Pasteurella multocida in scavenging family chickens and ducks: Carrier status, age susceptibility and transmission between species

Mbuthia, P. G., Njagi, L. W., Nyaga, P. N., Bebora, L. C., Minga, U., Kamundia, J. & Olsen, John Elmerdahl, feb. 2008, I: Avian Pathology. 37, 1, s. 51-57 7 s.

Evaluation of the possibilities for naming of '*Muribacter*' gen. nov. including '*Muribacter rattus*' sp. nov.
Christensen, Henrik, Kuhnert, P., Korczak, B. M., Olsen, John Elmerdahl & Bisgaard, M., 2008.

Extended spectrum β -lactamase producing *Escherichia coli* and methicillin resistant *Staphylococcus aureus* in pig production: possible zoonotic implications

Moodley, Arshnee, Concalves Cavaco, L. M., Olsen, John Elmerdahl & Guardabassi, Luca, 2008, I: Acta Scientiae Veterinariae. 36, Suppl. 1, s. s1-s3 3 s.

Gene expression in *S. Typhimurium* during heat shock and immobilisation

Nielsen, M., Danino, V., Knudsen, G., Hinton, J., Brocklehurst, T., Olsen, John Elmerdahl & Thomsen, Line Elnif, 2008.

Impact of immobilisation on gene expression in *S. Typhimurium*/Impact of immobilisation and temperature on virulence in *S. Typhimurium*

Nielsen, M., Danino, V., Knudsen, G., Hinton, J., Brocklehurst, T., Olsen, John Elmerdahl & Thomsen, Line Elnif, 2008.

Improved discrimination of *Campylobacter jejuni* using repetitive element sequence-based PCR typing and comparison with PFGE typing

Malakauskas, M., Christensen, Henrik, Olsen, John Elmerdahl & Brogren, C., 2008, *The 21st International ICFMH Symposium "Evolving Microbial Food Quality and Safety" - Programme and Abstract Book*. IUMS/ICFMH, s. 347 1 s.

Investigation of correlation between gene expressions of 162 selected genes and survival and colonization abilities of *Salmonella* strains in the food chain

Olsen, John Elmerdahl, Gram, L., Frees, Dorte & Holmstrøm, K., 2008, *The 21st International ICFMH Symposium "Evolving Microbial Food Quality and Safety": Programme and Abstract Book*. s. 164 1 s.

Persistence of *Salmonella* Senftenberg in poultry production environments and investigation of its resistance to desiccation

Pedersen, T. B., Olsen, John Elmerdahl & Bisgaard, M., 2008, I: Avian Pathology. 37, 4, s. 421-427 7 s.

Prevalence of sulphonamide resistance and class 1 integron genes in *Escherichia coli* isolates obtained from broilers, broiler meat, healthy humans and urinary tract infections in Denmark

Trobos Porro, M., Jakobsen, L., Olsen, K. E. P., Frimodt-Møller, N., Pedersen, K., Agersø, Y., J. Porsbo, L. & Olsen, John Elmerdahl, 2008, I: International Journal of Antimicrobial Agents. 32, 4, s. 367-369 3 s.

Survival of *Salmonella* and physiological response to cold storage of beef

Aabo, S., Knudsen, G. M. & Olsen, John Elmerdahl, 2008, *The 21st International ICFMH Symposium "Evolving Microbial Food Quality and Safety"*. IUMS/ICFMH, s. 161 1 s.

The importance of specific stress proteins in the virulence of *Pasteurella multocida* VP161

Rosenkrantz, J. T., Olsen, John Elmerdahl, Pors, S. E., Boyce, J., Harper, M. & Adler, B., 2008, *International Pasteurellaceae Society Conference 2008: Abstract Book*.

Analysis of gene order data supports vertical inheritance of the leukotoxin operon and genome rearrangements in the 5' flanking region in genus *Mannheimia*

Larsen, J., Kuhnert, P., Frey, J., Christensen, Henrik, Bisgaard, M. & Olsen, John Elmerdahl, 2007, I: BMC Evolutionary Biology. 7, 184, 11 s.

Comparison of *Sul2* resistant gene from *Escherichia coli* isolated from animals and humans

Porro, M. T., Hammerum, A. M., Sunde, M., Pedersen, K., Agersø, Y., Christensen, Henrik & Olsen, John Elmerdahl, 2007, *Ikke angivet*. ASM, 1 s.

Effects of *crp* deletion in *Salmonella enterica* serotype Gallinarum

Rosu, V., Chadfield, M. S., Santona, A., Christensen, Jens Peter, Thomsen, Line Elnif, Rubino, S. & Olsen, John Elmerdahl, 2007, I: Acta Veterinaria Scandinavica (Print Edition). 49, 14, 7 s.

Evidence for vertical inheritance and loss of the leukotoxin operon in genus *Mannheimia*

Larsen, J., Pedersen, A. G., Christensen, Henrik, Bisgaard, M., Angen, Ø., Ahrens, P. & Olsen, John Elmerdahl, 2007, I: Journal of Molecular Evolution. 64, 4, s. 423-437 15 s.

Fødevaremikrobiologi

Larsen, M. H., Ingmer, Hanne & Olsen, John Elmerdahl, 2007, *LMC årsberetning 2006*. Levnedsmiddelcentret, s. 22 1 s.

Hatchability and fertility of indigenous chicken and duck eggs, and some causes of chick and duckling mortality in Kenya

Mbuthia, P. G., Njagi, L. W., Nyaga, P. N., Bebora, L. C., Mugeru, G. M., Minga, U. & Olsen, John Elmerdahl, 2007, I: Kenya Veterinarian. 31, 1, s. 6-11 6 s.

Investigations of the occurrence of *Avibacterium paragallinarum* infections in Uganda

Byarugaba, D. K., Minga, U. M., Gwakisa, P. S., Katunguka-Rwakishaya, E., Bisgaard, M. & Olsen, John Elmerdahl, 2007, I: Avian Diseases. 51, 2, s. 534-539 6 s.

Preliminary Findings on the Carrier Status of *Pasteurella multocida* in Farmed and Traded Healthy-appearing Scavenging Indigenous Chickens and Ducks in Kenya

Mbuthia, P. G., Njagi, L. W., Bebora, L. C., Mugeru, G. M., Ngatia, T. A., Munyua, W. K., Nyaga, P. N., Minga, U. & Olsen, John Elmerdahl, 2007, I: Kenya Veterinarian. 31, 1, s. 1-5 5 s.

Prevalence of sulphonamide resistant genes in *Escherichia coli* isolates obtained from broiler faeces, broiler meat, healthy humans and urinary infections in Denmark

Porro, M. T., Jacobsen, L., Pedersen, K., Agersø, Y., Olsen, K. E., Porsbo, L. J., Emborg, H., Olsen, John Elmerdahl & Hammerum, A. M., 2007, *Proceedings of 2nd symposium on antimicrobial resistance in animals and the environment*. INRA, s. 6

Salmonella-infektion - størst risiko ved høj overlevelses- og invasionsevne

Knudsen, G. M., Aabo, S. & Olsen, John Elmerdahl, 2007, *LMC årsberetning 2006*. Levnedsmiddelcentret, s. 24 1 s.

Specific identification of *Gallibacterium* by a PCR using primers targeting the 16S rRNA and 23S rRNA genes

Bojesen, Anders Miki, Vazquez, M. E., Robles, F., Gonzalez, C., Soriano, E., Olsen, John Elmerdahl & Christensen, Henrik, 2007, I: Veterinary Microbiology. 123, 1-3, s. 262-268 7 s.

Transfer of sulphonamide resistance from *Escherichia coli* of animal origin to *E. coli* of human origin in the human intestine

Porro, M. T., Lester, C. H., Olsen, John Elmerdahl, Frimodt-Møller, N. & Hammerum, A. M., 2007, *Ikke angivet*. American Society of Microbiology, s. 137 1 s.

Virulence characterization of *Avibacterium paragallinarum* isolates from Uganda

Byarugaba, D., Minga, U. M., Gwakisa, P. S., Katunguka-Rwakishaya, E., Bisgaard, M. & Olsen, John Elmerdahl, 2007, I: Avian Pathology. 36, 1, s. 35-42 8 s.

The gastrointestinal tract as a port of entry for bacterial infections in poultry

Christensen, Jens Peter, Chadfield, M. S., Olsen, John Elmerdahl & Bisgaard, M., 20 dec. 2006, *Avian Gut Function in Health and Disease*. CABI Publishing, Bind 28. s. 244-258 15 s.

***In vitro* transfer of sulphonamide and gentamicin resistance from *E. coli* of animal origin to *E. coli* of human origin**

Porro, M. T., Olsen, John Elmerdahl, Jakobsen, L. & Hammerum, A. M., 2006. 1 s.

Differences in resistance to *Salmonella enterica* serovar *Gallinarum* infection among indigenous local chicken ecotypes in Tanzania

Msoffe, P. L. M., Minga, U. M., Mtambo, M. M. A., Gwakisa, P. S. & Olsen, John Elmerdahl, 2006, I: Avian Pathology. 35, 4, s. 270-276 7 s.

Diversity and evolution of bla_Z from *Staphylococcus aureus* and coagulase-negative staphylococci

Olsen, John Elmerdahl, Christensen, Henrik & Aarestrup, F. M., 2006, I: *Journal of Antimicrobial Chemotherapy*. 57, 3, s. 450-460 11 s.

Fitness cost of antimicrobial resistance associated with chromosomal mutations and plasmid-borne resistance genes in *Escherichia coli*: *in vitro* and *in vivo* studies

Petersen, A., Aarestrup, F. M., Bisgaard, M. & Olsen, John Elmerdahl, 2006, *Clinical Microbiology and Infection*. Blackwell Publishing, Bind 12, supplement 4. 1 s.

Isolation of *Campylobacter* spp. from a pig slaughterhouse and analysis of cross-contamination

Malakauskas, M., Jørgensen, K., Nielsen, E. M., Ojeniyi, B. & Olsen, John Elmerdahl, 2006, I: *International Journal of Food Microbiology*. 108, 3, s. 295-300 6 s.

Occurrence, isolation and characterization of *Avibacterium paragallinarum* from poultry in Uganda

Byarugaba, D. K., Minga, U. M., Gwakisa, P. S., Katunguka, E. R., Bisgaard, M. & Olsen, John Elmerdahl, 2006, *Ikke angivet*. The International Society for Veterinary Epidemiology and Economics, s. 381-384 4 s.

Occurrence of haemolytic *Mannheimia* spp. in apparently healthy sheep in Norway

Poulsen, L. L., Reinert, T. M., Sand, R. L., Bisgaard, M., Christensen, Henrik, Olsen, John Elmerdahl, Stuen, S. & Bojesen, Anders Miki, 2006, I: *Acta Veterinaria Scandinavica (Print Edition)*. 48, 19, 7 s.

Salmonella infections: 3

Mølbak, K., Olsen, John Elmerdahl & Wegener, H. C., 2006, *Foodborne infections and intoxications*. Riemann, H. P. & Cliver, D. O. (red.). Elsevier, s. 57-136 80 s.

Survival of *Salmonella* serovars on beef carcasses and molecular mechanisms to survive low temperature stress and desiccation

Knudsen, G. M., Thomsen, Line Elnif, Aabo, S. & Olsen, John Elmerdahl, 2006, *I3S International Symposium Salmonella and Salmonellosis Proceedings*. ISPAIA Zoopole, s. 353-356 4 s.

The response regulator ResD modulates virulence gene expression in response to carbohydrates in *Listeria monocytogenes*

Larsen, M. H., Kallipolitis, B. H., Christiansen, J. K., Olsen, John Elmerdahl & Ingmer, Hanne, 2006, I: *Molecular Microbiology*. 61, 6, s. 1622-1635 14 s.

Training risk assessment in non-human antimicrobials usage (TRAINAU) in Denmark

Vieira, A. R. P., Emborg, H., Wong, D. L. F., Jensen, L. B., Aarestrup, F. M., Wegener, H. C., Dalsgaard, Anders, Olsen, John Elmerdahl, Ersbøll, A. K., Houe, Hans, Guardabassi, Luca, Hammerum, A. M., Fritmodt-Møller, N. & Sørensen, B. H., 2006, *Proceedings*. The International Society for Veterinary Epidemiology and Economics, 3 s.

Transmission routes of *Salmonella* Typhimurium DT 104 between 14 cattle and pig herds in Denmark demonstrated by molecular fingerprinting

Langvad, B., Skov, M. N., Rattenborg, E., Olsen, John Elmerdahl & Baggesen, D. L., 2006, I: *Journal of Applied Microbiology*. 101, 4, s. 883-890 8 s.

Vertical transmission of a fluoroquinolone-resistant *Escherichia coli* within an intergrated broiler operation

Petersen, A., Christensen, Jens Peter, Kuhnert, P., Bisgaard, M. & Olsen, John Elmerdahl, 2006, I: *Veterinary Microbiology*. 116, 1-3, s. 120-128 8 s.

[*Pasteurella*] *caballi* infection not limited to horses - a closer look at taxon 42 of Bisgaard

Christensen, Henrik, Hommez, J., Olsen, John Elmerdahl & Bisgaard, M., 2006, I: *Letters in Applied Microbiology*. 43, 4, s. 424-429 6 s.

Salmonella isolates with different behavior in adhesion to surfaces studied by DNA micro array assisted analysis
Holmstrøm, K., Olsen, K. N., Meldgaard, H., Bagge-Ravn, D., Frees, Dorte, Lauritsen, D., Gram, L. & Olsen, John Elmerdahl, 2005. 1 s.

A study on effectiveness of seven disinfectants against possible bacteria contaminants of coops and premises inhabited by indigenous chickens and ducks
Njagi, L. W., Mbuthia, P. G., Bebora, L. C., Nyaga, P. N., Minga, U. & Olsen, John Elmerdahl, 2005, I: Kenya Veterinarian. 29, s. 113-118 4 s.

Characterization of sucrose-negative Pasteurella multocida variants, including isolates from large-cat bite wounds
Christensen, Henrik, Bisgaard, M., Angen, Ø., Frederiksen, W. & Olsen, John Elmerdahl, 2005, I: Journal of Clinical Microbiology. 43, 1, s. 259-270 12 s.

Classification and description of new taxa of Pasteurellaceae associated with Maridae and proposal of new genus Muribacterium gen. nov: B-1314
Christensen, Henrik, Bisgaard, M., Fink, M. & Olsen, John Elmerdahl, 2005, *Abstracts of the 11. international congress of bacteriology and applied microbiology*. IUMS, s. 70 1 s.

Comparison between fluorescent In situ hybridization (fish) and culture method in the detection of Pasteurella multocida in organs of indigenous birds
Mbuthia, P. G., Njagi, L. W., Nyaga, P. N., Bebora, L. C., Mugeru, G. M., Kamundia, J., Minga, U. & Olsen, John Elmerdahl, 2005, I: Kenya Veterinarian. 29, s. 53-56 4 s.

Comparison of the Carrier Status of Pasteurella multocida between Farm and Live Market Indigenous Birds
Mbuthia, P. G., Njagi, L. W., Nyaga, P. N., Bebora, L. C., Mugeru, G. M., Kamundia, J., Minga, U. M. & Olsen, John Elmerdahl, 2005, I: Kenya Veterinarian. 29, s. 45-47 3 s.

Effects of nitric oxide in 5-hydroxytryptamine-, cholera toxin-, enterotoxigenic Escherichia coli- and Salmonella Typhimurium-induced secretion in the porcine small intestine
Grøndahl, M. L., Unmack, M. A., Ragnarsdóttir, H. B., Hansen, M. B., Olsen, John Elmerdahl & Skadhauge, E., 2005, I: Comparative Biochemistry and Physiology. 141, s. 476-484 9 s.

Emended description of porcine [Pasteurella] aerogenes, [Pasteurella] mairii and [Actinobacillus] rossii
Christensen, Henrik, Kuhnert, P., Bisgaard, M., Muttters, R., Dziva, F. & Olsen, John Elmerdahl, 2005, I: International Journal of Systematic and Evolutionary Microbiology. 55, s. 209-223 17 s.

Emerging clones of Salmonella
Olsen, John Elmerdahl, 2005, *Abstracts*. Society for General Microbiology, s. 7 1 s.

Evolution of Leukotoxin Regulatory regions in Genus Mannheimia by Interspecies Comparisons
Larsen, J., Pedersen, A. G., de Lichtenberg, U., Christensen, Henrik, Olsen, John Elmerdahl, Kuhnert, P. & Frey, J., 2005.

Evolution of leukotoxin regulatory regions in genus Mannheimia
Larsen, J., Pedersen, A. G., Christensen, Henrik, Olsen, John Elmerdahl, Davies, R. L., Kuhnert, P. & Frey, J., 2005. 1 s.

Evolution of the Leukotoxin Operon in Genus Mannheimia
Larsen, J., Pedersen, A. G., Christensen, Henrik, Bisgaard, M., Angen, Ø., Ahrens, P. & Olsen, John Elmerdahl, 2005. 2 s.

Identification and characterization of pasteurella multocida stress genes
Ottesen, J. R., Olsen, John Elmerdahl, Adler, B. & Boyce, J., 2005. 2 s.

Indigenous ducks are better reservoirs of P. Multocida than indigenous chickens
Mbuthia, P. G., Njagi, L. W., Nyaga, P. N., Bebora, L. C., Mugeru, G. M., Minga, U. M. & Olsen, John Elmerdahl, 2005, I: Kenya Veterinarian. 29, s. 104-106 3 s.

Navngivning af sygdomsfremkaldende bakterier

Christensen, Henrik, Bisgaard, M., Christensen, Jens Peter & Olsen, John Elmerdahl, 2005, I: *Naturens Verden*. 2, s. 32-39 8 s.

Salmonella Typhimurium infection in the porcine intestine: evidence for caspase-3-dependent and -independent programmed cell death

Schauser, K., Olsen, John Elmerdahl & Larsson, L., 2005, I: *Histochemical Cell Biology*. 123, 1, s. 43-50 8 s.

Studies of zoonotic Salmonellae: taxonomy, detection, typing and pathogenesis

Olsen, John Elmerdahl, 2005, Copenhagen: Center for Skov, Landskab og Planlægning/Københavns Universitet. 146 s.

Survival of Escherichia coli and Salmonella typhimurium in slurry applied to clay soil on a Danish swine farm

Boes, J., Alban, L., Bagger, J., Møgelmoose, V., Baggesen, D. L. & Olsen, John Elmerdahl, 2005, I: *Preventive Veterinary Medicine*. 69, 3-4, s. 213-228 16 s.

Taxonomy of Pasteurellaceae: an update B18

Christensen, Henrik, Kubnert, P., Olsen, John Elmerdahl & Bisgaard, M., 2005, *Pasteurellaceae 2005*. American Society of Microbiology, s. 1 1 s.

The current state of Pasteurellaceae systematics

Olsen, John Elmerdahl, Bisgaard, M., Kubnert, P. & Christensen, Henrik, 2005, *Pasteurellaceae 2005*. American Society of Microbiology, s. 14 1 s.

Vertical transmission of a fluoroquinolone-resistant Escherichia coli clone within an integrated broiler operation

Petersen, A., Christensen, Jens Peter, Bisgaard, M. & Olsen, John Elmerdahl, 2005, *Final program & abstract book*. s. 309 1 s.

Productivity and reproductive performance of the freerange local domestic fowl ecotypes in Tanzania

Msoffe, P. L. M., Mtambo, M. M. A., Minga, U. M., Olsen, John Elmerdahl, Juul-Madsen, H. R., Gwakisa, P. S., Mutayoba, S. K. & Katule, A. M., sep. 2004, I: *Livestock Research for Rural Development*. 16, 9

Characterization of DegU: a response regulator in Listeria monocytogenes, involved in regulation of motility and contributes to virulence

Knudsen, G. M., Olsen, John Elmerdahl & Dons, L. E., 2004, I: *FEMS Microbiology Letters*. 240, s. 171-179 9 s.

Comparative phylogenies of the housekeeping genes atpD, infB and rpoB and the 16S rRNA gene within the Pasteurellaceae

Christensen, Henrik, Kuhnert, P., Olsen, John Elmerdahl & Bisgaard, M., 2004, I: *International Journal of Systematic and Evolutionary Microbiology*. 54, s. 1601-1609 9 s.

Differences in the carriage and the ability to utilize the serotype associated virulence plasmid in strains of Salmonella enterica serotype Typhimurium investigated by use of a self-transferable virulence plasmid, pOG669

Olsen, John Elmerdahl, Brown, D. J., Thomsen, Line Elnif, Platt, D. J. & Chadfield, M. S., 2004, I: *Microbial Pathogenesis*. 36, 6, s. 337-347 11 s.

Differentiation of Pasteurella multocida isolates from cases of atrophic rhinitis in pigs from Zimbabwe by RAPD and ribotyping

Dziva, F., Christensen, Henrik, Leengoed, L. A. M. G. V., Mohan, K. & Olsen, John Elmerdahl, 2004, I: *Veterinary Microbiology*. (2004): Vol. 102, 1-2, s. 117-122 6 s.

Immunocytochemical studies of Salmonella Typhimurium invasion of porcine jejunal epithelial cells

Schauser, K., Olsen, John Elmerdahl & Larsson, L., 2004, I: *Journal of Medical Microbiology*. 53, 7, s. 691-695 5 s.

Influences of temperature, salinity and starvation on the motility and chemotactic response of *Vibrio anguillarum*
Larsen, M. H., Blackburn, N., Larsen, J. L. & Olsen, John Elmerdahl, 2004, I: Microbiology. 150, s. 1283-1290 8 s.

New indolicidin analogues with potent antibacterial activity

Neerup, T. S. R., Doisy, X., Ifrah, D., Olsen, John Elmerdahl & Hansen, Paul Robert, 2004, I: Chemical Biology and Drug Design (Print). 64, 5, s. 171-185 15 s.

Occurrence and persistence of vancomycin resistant enterococci (VRE) in danish broiler production after the avoparcin ban

Heuer, O. E., Pedersen, K., Andersen, J. S., Jensen, L. B., Olsen, John Elmerdahl & Madsen, M., 2004, I: DIAS report. 57, s. 35-41 7 s.

Organic Rearing Enhances Disease and Pathology Due to Interactions of *Trichuris* and the Microbial Microflora in Young Swine

Mansfield, L., Steenhard, N. R., Roepstorff, A. K., Kringel, H., Mejer, Helena, Olsen, John Elmerdahl, Jørgensen, K., Møller-Nielsen, E., Murrell, K. & Thamsborg, Stig Milan, 2004.

Productivity and reproductive performance of the free-range local domestic fowl ecotypes in Tanzania

Msoffe, P. L. M., Mtambo, M. M. A., Minga, U. M., Olsen, John Elmerdahl, Juul-Madsen, H. R., Gwakisa, P. S., Mutayoba, S. K. & Katule, A. M., 2004, I: Livestock Research for Rural Development. 16, 9, s. s. x-x 13 s.

Reclassification of Bisgaard taxon 33, with proposal of *Volucribacter psittacidica* gen.nov., sp. nov. and *Volucribacter amazonae* sp. nov. as new members of the Pasteurellaceae

Christensen, Henrik, Bisgaard, M., Aalbæk, Bent & Olsen, John Elmerdahl, 2004, I: International Journal of Systematic and Evolutionary Microbiology. 54, s. 813-818 6 s.

Revised description and classification of atypical isolates of *Pasteurella multocida* from bovine lungs based on genotypic characterization to include variants previously classified as biovar 2 of *Pasteurella canis* and *Pasteurella avium*

Christensen, Henrik, Angen, Ø., Olsen, John Elmerdahl & Bisgaard, M., 2004, I: Microbiology. 150, s. 1757-1767 11 s.

Role of flagellin and the two-component CheA/CheY system of *Listeria monocytogenes* in host cell invasion and virulence

Dons, L. E., Eriksson, E., Jin, Y., Rottenberg, M. E., Kristensson, K., Larsen, C. N., Bresciani, J. & Olsen, John Elmerdahl, 2004, I: Infection and Immunity. 72, 6, s. 3237-3244 8 s.

Role of flagellin and the two-component cheA/cheY system of *Listeria monocytogenes* in host cell invasion and virulence

Dons, L., Eriksson, E., Jin, Y., Rottenberg, M. E., Kristensson, K., Larsen, C. N., Bresciani, J. & Olsen, John Elmerdahl, 2004, I: Infection and Immunity. 72, 6, s. 3237-3244 8 s.

Marketing of free range local chickens in Morogoro and Kilosa urban markets, Tanzania

Mlozi, M. R. S., Kakengi, A. V. M., Minga, U. M., Mtambo, A. M. & Olsen, John Elmerdahl, feb. 2003, I: Livestock Research for Rural Development. 15, 2

Genetic relationship among avian isolates classified as *Pasteurella haemolytica*. '*Actinobacillus salpingitidis*' or *Pasteurella anatis* with proposal of *Gallibacterium anatis* gen. nov., comb. nov. and description of additional genomospecies with *Gallibacterium* gen. nov

Christensen, Henrik, Bisgaard, M., Bojesen, Anders Miki, Mutters, R. & Olsen, John Elmerdahl, jan. 2003, I: International Journal of Systematic and Evolutionary Microbiology. 53, 1, s. 275-287 13 s.

A manual of basic tools in bioinformatics

Christensen, Henrik & Olsen, John Elmerdahl, 2003. 34 s.

A manual of basic tools in bioinformatics

Christensen, Henrik & Olsen, John Elmerdahl, 2003, 35 s.

Association between phage types and antimicrobial resistance bovine *Staphylococcus aureus* from 10 countries
Vintov, J., Aarestrup, F. M., Zinn, C. E. & Olsen, John Elmerdahl, 2003, I: *Veterinary Microbiology*. 95, s. 133-14 s.

Bacterial resistance to antimicrobials in a practical perspective
Olsen, John Elmerdahl & Mrenoski, S., 2003. 7 s.

Biology of salmonella enterica serovar gallinarum host-specificity in the avian host.
Olsen, John Elmerdahl, Chadfield, M. S., Aabo, S., Brown, D. J. & Christensen, Jens Peter, 2003, *ASM Conferences*. American Society of Microbiology, s. 22-1 s.

Comparison of intestinal invasion and macrophage response of *Salmonella Gallinarum* and other host adapted *Salmonella enterica* serovars in the avian host
Chadfield, M. S., Brown, D. J., Aabo, S., Christensen, Jens Peter & Olsen, John Elmerdahl, 2003, I: *Veterinary Microbiology*. 92, 2003, s. 49-64-15 s.

Cross-contamination with *Salmonella* on a broiler slaughterhouse line demonstrated by use of epidemiological markers
Olsen, John Elmerdahl, Brown, D. J., Madsen, M. & Bisgaard, M., 2003, I: *Journal of Applied Microbiology*. 94, 5, s. 826-835-10 s.

Cross-contamination with *Salmonella* on a broiler slaughter house line demonstrated by use of epidemiological markers.
Journ. of Applied Microbiology 2003, 94, 826-835.
Olsen, John Elmerdahl, Brown, D. J., Madsen, M. & Bisgaard, M., 2003, I: *Journ. of Applied Microbiology*. 94, s. 826-835-10 s.

Detection and diagnosis of infective bovine mastitis
Mrenoski, S. & Olsen, John Elmerdahl, 2003. 10 s.

Detection of *Gallibacterium* spp. in Chickens by Fluorescent 16S rRNA In Situ Hybridization
Bojesen, Anders Miki, Christensen, Henrik, Nielsen, O. L., Olsen, John Elmerdahl & Bisgaard, M., 2003, I: *Journal of Clinical Microbiology*. VOI 41, No. 11, 11, s. 5167-5172-6 s.

Detection of *gallibacterium* spp. in chickens by fluorescent 16s in situ hybridization
Bojesen, Anders Miki, Christensen, Henrik, Nielsen, O. L., Olsen, John Elmerdahl & Bisgaard, M., 2003. 1 s.

Genetic Diversity of *Gallibacterium anatis* Isolates from Different Chicken Flocks
Bojesen, Anders Miki, Thorpdahl, M., Christensen, Henrik & Olsen, John Elmerdahl, 2003, I: *Journal of Clinical Microbiology*. June, p. 2737-2740, 6, s. 2737-2740-4 s.

Genetic relationships among avian isolates classified as *Pasteurella haemolytica*, "*Actinobacillus salpingitidis*" or *Pasteurella anatis* with proposal of *Gallibacterium anatis* gen. nov., comb. nov. and description of additional genomospecies within *Gallibacterium* gen. nov.
Christensen, Henrik, Bisgaard, M., Bojesen, Anders Miki, Mutters, R. ; & Olsen, John Elmerdahl, 2003, I: *Int. Journal of Systemic and Evolutionary Microbiology*. (2003) 53, s. 275-287-13 s.

Link between stress adaptation and virulence of *Salmonella* Dublin and *S. Typhimurium*.
Thomsen, Line Elnif, Olsen, John Elmerdahl, Chadfield, M. S. & Ingmer, Hanne, 2003, *Meeting of WG of COST920*. 1 udg. *Veterinary Medical Research Institute of the Hungarian Academy of Sciences*, s. 22-1 s.

Marketing of free range local chickens in Morogora and Kilosa urban markets, Tanzania.
Mlozi, M. R. S., Kakengi, A. V. M., Minga, U. M., mtambo, A. M. & Olsen, John Elmerdahl, 2003, I: *Livestock Research for Rural Development*. (2) 2003, s. 1-12 s.

Marketing of fresh range local chickens in Morogoro and Kilosa urban markets, Tanzania

Mlozi, M. R. S., Kakengi, U. M., Minga, A. M., Mtambo, A. M. & Olsen, John Elmerdahl, 2003, 15 udg. 12 s.

Of Hemophilus paragallinarum, Hemophilus somnus, Mannheimia (Pasteurella hemolytica), Mannheimia spp., Pasteurella trehalosi, and Pasteurella multocida.

Larsen, J., Christensen, Henrik, Bisgaard, M. & Olsen, John Elmerdahl, 2003, *Methods in Molecular Biology*. s. 216. 27 s.

Phages types and antimicrobial resistance among Danish bovine Staphylococcus aureus isolates since the 1950s

Vintov, J., Aarestrup, F. M., Zinn, C. E. & Olsen, John Elmerdahl, 2003, I: *Veterinary Microbiology*. 97, s. 63 10 s.

Phylogenetic analysis by 16S rDNA gene sequence comparison of avian taxa of Bisgaard and characterization and description of two new taxa of Pasteurellaceae

Christensen, Henrik, Foster, G., Christensen, Jens Peter, Pennycott, T., Olsen, John Elmerdahl & Bisgaard, M., 2003, I: *Journal of Applied Microbiology*. 95, 2, s. 354-363 9 s.

Reduced amounts of LPS affect both stress tolerance and virulence of Salmonella enterica serovar Dublin.

Thomsen, Line Elnif, Chadfield, M. S., Bispham, J. J., Wallis, T. S. J., Olsen, John Elmerdahl & Ingmer, Hanne, 2003, I: *FEMS Microbiology Letters*. 228, 2, s. 225-231 7 s.

Salmonella typhimurium invades multiple epithelial cell types in pig jejunum

Schauser, K., Olsen, John Elmerdahl & Larsson, L., 2003, *ASM Conferences*. American Society of Microbiology, s. 89 1 s.

The role of flagella and chemotaxis on virulence of salmonella enterica serotypes typhimurium and Dublin

Chadfield, M. S., Høegh-Andersen, K. H., Aabo, S., Christensen, Jens Peter & Olsen, John Elmerdahl, 2003. 1 s.

Characterisation of attenuated crp mutants of Salmonella enterica biotype gallinarum

Chadfield, M. S., Rosu, V., Santona, A., Rubino, S. & Olsen, John Elmerdahl, 2002. 2 s.

ClpP is involved in the stress response and degradation of misfolded proteins in Salmonella enterica serovar typhimurium

Thomsen, Line Elnif, Olsen, John Elmerdahl, Foster, J. W. & Ingmer, Hanne, 2002, I: *Microbiology*. 148, s. 2727-2733 7 s.

Comparative Pathogenesis of Experimental Infections with Salmonella gallinarum in Local and Commercial Chickens. Tropical Animal Health and Production, 34

Mdegela, R. H., Msoffe, P. L. M., Waihenya, R. W., Kasanga, J. C., Mtambo, M. M. A., Minga, U. M. & Olsen, John Elmerdahl, 2002, I: *Tropical Animal Health and Production*. 34, s. 195-204 10 s.

Comparative pathogenesis of experimental infections with Salmonella gallinarum in local and commercial chickens

Mdegela, R. H., Msoffe, P. L. M., Waihenya, R. W., Kasanga, J. C., Mtambo, M. M. A., Minga, U. M. & Olsen, John Elmerdahl, 2002, I: *Tropical Animal Health and Production*. 34, 3, s. 195-204 10 s.

Detection of gallibacterium (Pasteurella anatis, [Actinobacillus] salpingtidis and [P.] haemolytica-like organisms) in chickens by fluorescent 16S rRNA in situ hybridization

Bojesen, Anders Miki, Christensen, Henrik, Bisgaard, M., Nielsen, O. L. & Olsen, John Elmerdahl, 2002, *Abstract*. 89 udg. s. 77 1 s.

Differences in the ability of Salmonella typhimurium strains to utilize the serotype associated virulence plasmid

Olsen, John Elmerdahl, Thomsen, Line Elnif, Brown, D. J. & Chadfield, M. S., 2002. 2 s.

Distribution of the leukotoxin gene (1ktA) in Mannheimia species isolated from different animal hosts

Larsen, J., Christensen, Henrik, Bisgaard, M. & Olsen, John Elmerdahl, 2002, *Abstract*. 91 udg. s. 77-78 2 s.

Final classification of Bisgaard taxon 9 as Actinobacillus arthritidis sp. nov. and recognition of a novel genomospecies for equine strains of Actinobacillus lignieresii

Christensen, Henrik, Bisgaard, M., Angen, Ø. & Olsen, John Elmerdahl, 2002, I: *International Journal of Systematic and Evolutionary Microbiology*. 52, s. 1239-1246 8 s.

Genomic diversity of *Gallibacterium anatis* in chicken flocks representing different production systems

Bojesen, Anders Miki, Thorpdahl, M., Christensen, Henrik, Olsen, John Elmerdahl & Bisgaard, M., 2002, *Abstract*. 90 udg. s. 77 1 s.

Genotypic heterogeneity of *Pasteurella gallinarum* as shown by ribotyping and 16S rRNA sequencing

Christensen, Henrik, Dziva, F., Olsen, John Elmerdahl & Bisgaard, M., 2002, I: *Avian Pathology*. 31, s. 603-610 8 s.

Genotypical homogeneity among phenotypic variants of *Pasteurella multocida*, biovars 2 or *P. canis* and *P. avium* and isolates misclassified as *P. anatis*

Christensen, Henrik, Olsen, John Elmerdahl & Bisgaard, M., 2002, *Abstract*. 19 udg. s. 29 1 s.

Nutrient status of crop contents of rural scavenging local chickens in Tanzania

Mwalusanya, N. A., Katule, A. M., Mutayoba, S. K., Minga, U. M., Mtambo, M. M. A. & Olsen, John Elmerdahl, 2002, I: *British Poultry Science*. 43, 1, s. 64-69 6 s.

PCR detection of [*haemophilus*] *paragallinarum*, [*H*] *somnus*, *Mannheimia* (*Pasteurella*) *haemolytica*, *Mannheimia* spp., [*P.*] *trehalosi*, and *Pasteurella multocida*

Christensen, Henrik, Bisgaard, M., Larsen, J. & Olsen, John Elmerdahl, 2002, *PCR detection of microbial pathogens : methods and protocols*. Sachse, K. & Frey, J. (red.). Humana Press, s. 257-274 18 s.

Prevalence and clonal diversity of *Actinobacillus salpingtidis*/*Pasteurella haemolytica*-like bacteria in chickens from different production systems

Bojesen, Anders Miki, Thorpdahl, M., Christensen, Henrik, Olsen, John Elmerdahl & Bisgaard, M., 2002. 1 s.

Productivity and natural disease resistance potential of free-ranging local chicken ecotypes in Tanzania

Msoffe, P. L. M., Mtambo, M. M. A., Minga, U. M., Gwakisa, P. S., Mdegela, R. H. & Olsen, John Elmerdahl, 2002, I: *Livestock Research for Rural Development*. 14, 3, 12 s.

Quantitative comparison of intestinal invasion of zoonotic serotypes of *Salmonella enterica* in poultry

Aabo, S., Christensen, Jens Peter, Chadfield, M. S., Carstensen, B., Olsen, John Elmerdahl & Bisgaard, M., 2002, I: *Avian Pathology*. 31, 1, s. 41-47 7 s.

Quantitative investigations of in vivo invasion of *Pasteurella multocida* using a chicken intestinal loop model

Christensen, Jens Peter, Bojesen, Anders Miki, Jensen, T. K., Bisgaard, M., Nielsen, O. L. & Olsen, John Elmerdahl, 2002, *Abstract*. 21 udg. s. 30 1 s.

Reclassification of Bisgaard taxon 33 with proposal of *Avibacterium amazonae* gen. nov., sp. nov. as a new member of pasteurellaceae

Christensen, Henrik, Aalbæk, Bent, Bisgaard, M. & Olsen, John Elmerdahl, 2002, *Abstract*. 16 udg. s. 29 1 s.

Reclassification of equine isolates previously reported as *Actinobacillus equuli*, variants of *A. equuli*, *Actinobacillus suis* or Bisgaard taxon 11 and proposal of *A. equuli* subsp. *equuli* subsp. nov. and *A. equuli* subsp. *haemolyticus* subsp. nov.

Christensen, Henrik, Bisgaard, M. & Olsen, John Elmerdahl, 2002, I: *International Journal of Systematic and Evolutionary Microbiology*. 52, s. 1569-1576 8 s.

Revised phylogeny of pasteurellaceae by 16S rRNA and house-keeping gene sequence analysis and impact on host association

Christensen, H. M., Bisgaard, M. & Olsen, John Elmerdahl, 2002, *Abstract*. 17 udg. s. 28 1 s.

Revised phylogeny of pasteurellaceae by 16S rRNA and house-keeping gene sequence comparisons

Christensen, Henrik, Bisgaard, M. & Olsen, John Elmerdahl, 2002.

Taxonomic changes within *Actinobacillus sensu stricto*

Bisgaard, M., Christensen, Henrik & Olsen, John Elmerdahl, 2002, *Abstract*. 18 udg. s. 29 1 s.

Bakteriel resistens overfor desinfektionsmidler

Aarestrup, F. M., Hasman, H. & Olsen, John Elmerdahl, 2001, I: *Dansk Veterinærtidsskrift*. 84, 21, s. 6-13 8 s.

Chemotaxis of *Vibrio anguillarum* to fish mucus: role of the origin of the fish mucus, the fish species and the serogroup of the pathogen

Larsen, M. H., Larsen, J. L. & Olsen, John Elmerdahl, 2001, I: *FEMS Microbiology Ecology*. 38, s. 77-80 4 s.

Comparative investigations on the invasion of *Salmonella* serotypes in a chicken intestinal loop assay and cell culture assays

Christensen, Jens Peter, Aabo, S., Chadfield, M. S., Cartensen, N., Olsen, John Elmerdahl & Bisgaard, M., 2001. 1 s.

Determination of the oxidative burst chemiluminescent response of avian and murine primary macrophages versus corresponding cell lines in relation to stimulation with *Salmonella* serotypes

Chadfield, M. S. & Olsen, John Elmerdahl, 2001, I: *Veterinary Immunology and Immunopathology*. 80, s. 289-308 20 s.

Effects of indomethacin on *Salmonella* Typhimurium- and cholera toxin-induced fluid accumulation in the porcine small intestine

Unmack, M. A., Berner Hansen, M., Grøndahl, M. L., Olsen, John Elmerdahl, Christensen, P. & Skadhauge, E., 2001, I: *Transboundary and Emerging Diseases*. 48, s. 153-163 11 s.

Genetic diversity of *Pasteurella multocida* fowl cholera isolates as demonstrated by ribotyping and 16S rRNA and partial *atpD* sequence comparisons

Petersen, K. D., Christensen, Henrik, Bisgaard, M. & Olsen, John Elmerdahl, 2001, I: *Microbiology*. 147, s. 2739-2748 10 s.

Identification and characterisation of the free ranging local chicken ecotypes in Tanzania

Msoffe, P. L. M., Mtambo, M. M. A., Minga, U. M., Yongolo, M. G. S., Gwakisa, P. S. & Olsen, John Elmerdahl, 2001. 10 s.

Improving the Health and Productivity of the Rual Chisken in Africa: Research and Development Efforts in Tanzania

Minga, U. M., Mtambo, M. M. A., Katule, A. M., Mutayoba, S. K., Mwalusanya, N. A., Lawrence, P., Mdegela, R. H. & Olsen, John Elmerdahl, 2001, *Aciar proceedings*. Editors: R. G. Alders and P. B. Spradbrow (red.). 103 udg. Australian Centre for International Agricultural Research, 6 s.

Investigations into the host specific infection of the avian host by *Salmonella* serotype Gallinarum

Olsen, John Elmerdahl, Chadfield, M. S., Aabo, S. & Christensen, Jens Peter, 2001. 1 s.

Is characterization of a single isolate sufficient for valid publication of a new genus or species? proposal to modify recommendation 30b of the Bacteriological code (1990 revision)

Christensen, Henrik, Bisgaard, M., Frederiksen, W., Mutters, R., Kuhnert, P. & Olsen, John Elmerdahl, 2001, I: *International Journal of Systematic and Evolutionary Microbiology*. 51, s. 2221-2225 5 s.

Ny veterinær studieordning i støbeskeen

Olsen, John Elmerdahl & Strøm, H., 2001, I: *Dansk Veterinærtidsskrift*. 84, 16, s. 11-14 4 s.

Nye principper for undervisning

Olsen, John Elmerdahl & Strøm, H., 2001, I: *Det Levende Universitet*. 12, s. 10 1 s.

Persistence of vancomycin resistant enterococci (VRE) in broiler flocks and broiler houses after the vancomycin ban in Denmark

Heuer, O. E., Pedersen, K., Bogø Jensen, L., Madsen, M. & Olsen, John Elmerdahl, 2001.

Phenotypes including immunocompetence in scavenging local chicken ecotypes in Tanzania

Msoffe, P. L. M., Minga, U. M., Olsen, John Elmerdahl, Yongolo, M. G. S., Juul-Madsen, H. R., Gwakisa, P. S. & Mtambo, M. M. A., 2001, I: Tropical Animal Health and Production. 33, s. 341-354 14 s.

Productivity of local chickens under village management conditions

Mwalusanya, N. A., Katule, A. M., Mutayoba, S. K., Mtambo, M. M. A., Olsen, John Elmerdahl & Minga, U. M., 2001, I: Tropical Animal Health and Production. 34, s. 405-416 12 s.

Random amplification of polymorphic DNA and phenotypic typing of Zimbabwean isolates of *Pasteurella multocida*

Dziva, F., Christensen, Henrik, Olsen, John Elmerdahl & Mohan, K., 2001, I: Veterinary Microbiology. 82, s. 361-372 12 s.

Smitte fra husdyrgødning: råd og fakta

Lau Baggesen, D., Bager, F., Rattenborg, E., Olsen, John Elmerdahl, Bagger, J., Mikél Jensen, A., Steffensen, M. & Attermann Nielsen, K., 2001

Specific detection of *Pasteurella multocida* in chickens with fowl cholera and in pig lung tissues using fluorescent rRNA in situ hybridization

Mbuthia, P. G., Christensen, Henrik, Boye, M., Dumong Petersen, K. M., Bisgaard, M., Nyaga, P. N. & Olsen, John Elmerdahl, 2001, I: Journal of Clinical Microbiology. 39, 7, s. 2627-2633 7 s.

Taxonomy of taxon 9 of Bisgaard isolated from diseased horses and proposal of *Actinobacillus hippikon* sp. nov.

Christensen, Henrik, Bisgaard, M. & Olsen, John Elmerdahl, 2001. 1 s.

The role of flagella and chemotaxis on virulence of *Salmonella enterica* serotypes in the murine and avian host

Jensen, K. H., Chadfield, M. S., Christensen, Jens Peter & Olsen, John Elmerdahl, 2001. 1 s.

Veterinær studieordning i støbeskeen

Olsen, John Elmerdahl & Strøm, H., 2001, I: Det Levende Universitet. 12, s. 6-8 3 s.

16S to 23S rRNA spacer fragment length polymorphism of *Salmonella enterica* at subspecies and serotype levels

Christensen, Henrik, Lange Møller, P., Vogensen, Finn Kvist & Olsen, John Elmerdahl, 2000, I: Journal of Applied Microbiology. 89, s. 130-136 7 s.

Characterisation of streptomycin resistance determinants in Danish isolates of *Salmonella* Typhimurium

Madsen, L., Aarestrup, F. M. & Olsen, John Elmerdahl, 2000, I: Veterinary Microbiology. 75, s. 73-82 10 s.

Characterization of *E. coli* isolates originating from a Danish broiler parent flock during a longitudinal study

Christensen, Jens Peter, Brown, D. J., Olsen, John Elmerdahl & Bisgaard, M., 2000.

Class I integrons containing a dhfrI trimethoprim resistance gene cassette in aquatic *Acinetobacter* spp.

Petersen, A., Guardabassi, Luca, Dalsgaard, Anders & Olsen, John Elmerdahl, 2000, I: FEMS Microbiology Letters. 182, s. 73-76 4 s.

DNA-DNA hybridization determined in micro-wells using covalent attachment of DNA

Christensen, Henrik, Angen, Ø., Mutters, R., Olsen, John Elmerdahl & Bisgaard, M., 2000, I: International Journal of Systematic and Evolutionary Microbiology. 50, s. 1095-1102 8 s.

DNA-based methods for detection of food-borne bacterial pathogens

Olsen, John Elmerdahl, 2000, I: Food Research International. 33, s. 257-266 10 s.

Development of an in vivo model for study of intestinal invasion by *Salmonella enterica* in chickens

Aabo, S., Christensen, Jens Peter, Chadfield, M. S., Carstensen, B., Jensen, T. K., Bisgaard, M. & Olsen, John Elmerdahl, 2000, I: Infection and Immunity. 68, 12, s. 7122-7125 4 s.

Distribution and in-vitro transfer of tetracycline resistance determinants in clinical and aquatic Acinetobacter strains

Guardabassi, Luca, Dijkshoorn, L., Collard, J. -, Olsen, John Elmerdahl & Dalsgaard, Anders, 2000, I: Journal of Medical Microbiology. 49, s. 929-936 8 s.

Distribution of tetracycline resistance determinants A to E and transfer in vitro of tetracycline resistance in clinical and aquatic Acinetobacter strains

Guardabassi, Luca, Dijkshoorn, L., Olsen, John Elmerdahl & Dalsgaard, Anders, 2000, I: Journal of Medical Microbiology. 49, s. 829-836 8 s.

Host adapted serotypes of Salmonella enterica

Uzzau, S., Brown, D. J., Wallis, T., Rubino, S., Leori, G., Bernard, S., Casadesús, J., Platt, D. J. & Olsen, John Elmerdahl, 2000, I: Epidemiology and Infection. 125, s. 229-255 27 s.

Increase in the prevalence of oxolinic acid resistant Acinetobacter spp. observed in a stream receiving the effluent from a freshwater trout farm following the treatment with oxolinic acid-medicated feed

Guardabassi, Luca, Dalsgaard, Anders, Raffatellu, M. & Olsen, John Elmerdahl, 2000, I: Suisanzoshoku. 188, s. 205-218 14 s.

Molecular epidemiology of Salmonella gallinarum in chickens in Tanzania

Mdegela, R. H., Yongolo, M. G. S., Minga, U. M. & Olsen, John Elmerdahl, 2000, I: Avian Pathology. 29, s. 457-463 7 s.

Molecular typing of Salmonella

Olsen, John Elmerdahl, 2000, *Salmonella in domestic animals*. Wray, C. & Wray, A. (red.). Wallingford: CABI Publishing, s. 429-446 18 s.

Random amplification of polymorphic DNA and capsular typing of Zimbabwean isolates of Pasteurella multocida

Dziva, F., Christensen, Henrik, Olsen, John Elmerdahl & Mohan, K., 2000.

Selektion for antibiotikaresistens i Acinetobacter spp. i spildevand

Petersen, A., Guardabassi, Luca, Olsen, John Elmerdahl & Dalsgaard, Anders, 2000, I: Dansk Veterinærtidsskrift. 83, 7, s. 6-9 4 s.

Sequence variation of the 16S to 23S rRNA spacer region in Salmonella enterica

Christensen, Henrik, Lange Møller, P., Vogensen, Finn Kvist & Olsen, John Elmerdahl, 2000, I: Research in Microbiology. 151, s. 37-42 6 s.

Vejen til en ny veterinær studieordning

Olsen, John Elmerdahl, 2000, I: Dansk Veterinærtidsskrift. 83, 16, s. 19-21 3 s.

Virulence characterization of a strain of Salmonella enterica subspecies houten (subspecies iv) with chromosomal integrated Salmonella plasmid virulence (spv) genes

Aabo, S., Brown, D. J. & Olsen, John Elmerdahl, 2000, I: Research in Microbiology. 151, s. 183-189 7 s.

Antibiotic resistance: genetic mechanisms and mobility

Olsen, John Elmerdahl, 1999, I: Acta Veterinaria Scandinavica (Print Edition). 92, s. 15-22 8 s.

Anvendelse af antibiotika i landbruget: betydning for udvikling af antibiotikaresistente bakterier

Olsen, John Elmerdahl & Aarestrup, F. M., 1999, I: Miljøesk. 16, s. 16-23 8 s.

Differentiation of Campylobacter coli and C. jejuni by length and DNA sequence of the 16S-23S rRNA internal spacer region

Christensen, Henrik, Jørgensen, K. & Olsen, John Elmerdahl, 1999, I: Microbiology. 145, s. 99-105 7 s.

Host specificity of Salmonella serotypes

Olsen, John Elmerdahl & Chadfield, M., 1999. 1 s.

Identification of lactic acid bacteria from chili bo, a Malaysian food ingredient

Leisner, Jørgen, Pot, B., Christensen, Henrik, Rusul, G., Olsen, John Elmerdahl, Wee, B. W., Muhamad, K. & Ghazali, M., 1999, I: Applied and Environmental Microbiology. 65, 2, s. 599-605 7 s.

Invasion af forskellige Salmonella serotyper bestemt ved in vivo og in vitro modeller

Christensen, Jens Peter, Aabo, S., Chadfield, M. S., Carstensen, B., Olsen, John Elmerdahl & Bisgaard, M., 1999. 1 s.

Levels of virulence are not determined by genomic lineage of Salmonella enterica serotype Enteritidis strains

Olsen, John Elmerdahl, Tiainen, T. & Brown, D. J., 1999, I: Epidemiology and Infection. 123, s. 423-430 8 s.

Navneændringer og nye bakteriearter af veterinær betydning

Christensen, Henrik, Aabo, S., Aalbæk, Bent, Bisgaard, M. & Olsen, John Elmerdahl, 1999, I: Dansk Veterinærtidsskrift. 82, 4, s. 108-112 5 s.

New methods for detection and isolation of food borne pathogenic bacteria

Olsen, John Elmerdahl, 1999. 3 s.

Nye principper for navngivning af bakterier

Christensen, Henrik, Olsen, John Elmerdahl & Bisgaard, M., 1999, I: Dansk Veterinærtidsskrift. 82, 4, s. 102-107 6 s.

Occurrence of the bla_Z gene in penicillin resistant Staphylococcus aureus isolated from bovine mastitis in Denmark

Vesterholm-Nielsen, M., Ølholm Larsen, M., Olsen, John Elmerdahl & Aarestrup, F. M., 1999, I: Acta Veterinaria Scandinavica (Print Edition). 40, 3, s. 279-286 8 s.

Phage type conversion in Salmonella enterica serotype enteritidis caused by the introduction of a resistance plasmid of incompatibility group X (IncX)

Brown, D. J., Lau Baggesen, D., Platt, D. J. & Olsen, John Elmerdahl, 1999, I: Epidemiology and Infection. 122, s. 19-22 4 s.

Phenotypic characterization and antibiotic resistance of Acinetobacter spp. isolated from aquatic sources

Guardabassi, Luca, Dalsgaard, Anders & Olsen, John Elmerdahl, 1999, I: Journal of Applied Microbiology. 87, s. 659-667 9 s.

Population genetics of Salmonella

Christensen, Henrik & Olsen, John Elmerdahl, 1999. 1 s.

Rat dorsal root ganglia neurons as a model for Listeria monocytogenes infections in culture

Dons, L., Weclawicz, K., Jin, Y., Bindseil, E., Olsen, John Elmerdahl & Kristensson, K., 1999, I: Medical Microbiology and Immunology. 188, s. 15-21 7 s.

Risikofaktorer forbundet med forekomst af Salmonella enterica serovar Typhimurium hos slagtekyllinger i Danmark

Skov, M. N., Angen, Ø., Chriél, M., Olsen, John Elmerdahl & Bisgaard, M., 1999. 1 s.

Risk factors associated with Salmonella enterica serovar typhimurium infection in Danish broiler flocks

Skov, M. N., Angen, Ø., Chriél, M., Olsen, John Elmerdahl & Bisgaard, M., 1999, I: Poultry Science. 78, s. 848-854 7 s.

Taxonomic relationships of the [Pasteurella] haemolytica complex as evaluated by DNA-DNA hybridizations and 16S rRNA sequencing with proposal of Mannheimia haemolytica gen. nov., comb. nov., Mannheimia granulomatis comb. nov., Mannheimia glucosida sp. nov., Mannheimia ruminalis sp. nov. and Mannheimia varigena sp. nov.

Angen, Ø., Mitters, R., Caugant, D. A., Olsen, John Elmerdahl & Bisgaard, M., 1999, I: International Journal of Systematic and Evolutionary Microbiology. 49, s. 67-86 10 s.

Udvikling og brug af modeller til studier af Salmonellas evne til at invadere i tarmen

Olsen, John Elmerdahl, Aabo, S., Christensen, Jens Peter, Chadfield, M. S., Carstensen, B., Jensen, T. K. & Bisgaard, M., 1999. 1 s.

A π typing concept for Salmonella

Olsen, John Elmerdahl, Lau Baggesen, D., Christensen, Henrik & Platt, D. J., 1998, *EUR. Aspán, A. & Mulder, R. W. A. W.* (red.). 18209 udg. Publications Office, s. 97-103 7 s.

Antibiotic resistance in Acinetobacter spp. isolated from sewers receiving waste effluent from a hospital and a pharmaceutical plant

Guardabassi, Luca, Petersen, A., Olsen, John Elmerdahl & Dalsgaard, Anders, 1998, I: Applied and Environmental Microbiology. 64, 9, s. 3499-3502 4 s.

Antimicrobial resistance mechanism: entering the post-antimicrobial era?

Olsen, John Elmerdahl, Chriél, M., Aalbæk, Bent & Dietz, Hans Henrik, 1998. 5 s.

Diversity of lactic acid bacteria isolated from traditional Malaysian foods

Leisner, Jørgen, Christensen, Henrik, Olsen, John Elmerdahl, Pot, B., Rusul, G., Wee, B. W., Muhamad, K. & Ghazali, H. M., 1998. 1 s.

Phylogenetic relationships of Salmonella based on DNA sequence comparison of atpD encoding the beta subunit of ATP synthase

Christensen, Henrik & Olsen, John Elmerdahl, 1998, I: FEMS Microbiology Letters. 161, s. 89-96 8 s.

Phylogenetic relationships of Salmonella based on rRNA sequences

Christensen, Henrik, Nordentoft, S. & Olsen, John Elmerdahl, 1998, I: International Journal of Systematic and Evolutionary Microbiology. 48, s. 605-610 6 s.

Scavenging local chickens in Tanzania: is there room for improvement in productivity?

Msoffe, P. L. M., Mtambo, M. M. A., Minga, U. M., Gwakisa, P. S., Katule, A. M., Mutayoba, S., Mdegela, R. H., Mwalusanya, N. A., Yongolo, M. G. S. & Olsen, John Elmerdahl, 1998, I: Tanzanian Veterinary Journal. 18, 4, s. 117-126 10 s.

Secretory pathways in Salmonella typhimurium-induced fluid accumulation in the porcine small intestine

Grøndahl, M. L., Majgaard Jensen, G., Nielsen, C. G., Skadhauge, E., Olsen, John Elmerdahl & Berner Hansen, M., 1998, I: Journal of Medical Microbiology. 47, s. 151-157 7 s.

Tracing of pathogenic bacteria

Olsen, John Elmerdahl, 1998, *Ikke angivet*. Svarre, M. (red.). Levnedsmiddelcentret, s. 33 1 s.

Veterinærstuderende gennem 25 år

Olsen, John Elmerdahl, Flagstad, A. & Hobolt, K., 1998, *Veterinærskolen 225 år : rids af de seneste års udvikling*. Lefmann, G. & Katic, I. (red.). København: Jordbrugsforlaget, s. 67-76 10 s.

A π typing concept for Salmonella

Olsen, John Elmerdahl, Lau Baggesen, D., Christensen, Henrik & Platt, D. J., 1997. 1 s.

Antibiotikaresistens: er det gammel vin på nye flasker?

Nielsen, B., Olsen, John Elmerdahl & Aarestrup, F. M., 1997, I: Veterinærinformation. 1, s. 3-10 8 s.

Antibiotikaresistente bakterier i det akvatiske miljø

Petersen, A., Olsen, John Elmerdahl & Dalsgaard, Anders, 1997, I: Dansk Veterinærtidsskrift. 80, 16, s. 700-704 5 s.

Anvendelse af ITS (internal transcribed spacer) fragmentlængde polymorfi til typning indenfor Salmonella og Campylobacter

Christensen, Henrik, Jørgensen, K., Lange Møller, P. & Olsen, John Elmerdahl, 1997, *Ikke angivet*. Levnedsmiddelcentret, s. 187 1 s.

DNA-diagnostik i relation til levnedsmiddelmikrobiologi

Olsen, John Elmerdahl, 1997, *Ikke angivet*. Levnedsmiddelcentret, s. 55 1 s.

Differences detected in the expression of Salmonella plasmid virulence (spv) genes in different serotypes of Salmonella enterica by the use of an spvB-cat fusion reporter gene

Brown, D. J., Chadfield, M. S. & Olsen, John Elmerdahl, 1997. 1 s.

Differentiation of Shewanella putrefaciens and Shewanella alga on the basis of whole-cell protein profiles, ribotyping, phenotypic characterization, and 16S rRNA gene sequence analysis

Vogel, B. F., Jørgensen, K., Christensen, Henrik, Olsen, John Elmerdahl & Gram, L., 1997, I: Applied and Environmental Microbiology. 63, 6, s. 2189-2199 11 s.

Effect of indomethacin on Salmonella typhimurium and cholera toxin-induced fluid accumulation in pig jejunum

Unmack, M. A., Grøndahl, M. L., Olsen, John Elmerdahl, Skadhauge, E. & Berner Hansen, M., 1997. 3 s.

Effect of ondansetron on Salmonella typhimurium-induced net fluid accumulation in the pig jejunum in vivo

Majgaard Jensen, G., Grøndahl, M. L., Grøndahl Nielsen, C., Skadhauge, E., Olsen, John Elmerdahl & Berner Hansen, M., 1997, I: Comparative Biochemistry and Physiology - Part A: Comparative Physiology. 118, 2, s. 297-299 3 s.

Forekomst af antibiotikaresistente bakterier i akvatiske miljøer: litteraturstudium

Petersen, A., Olsen, John Elmerdahl & Dalsgaard, Anders, 1997, København: Frontlinien, Miljøministeriet. 60 s. (Miljøprojekt; Nr. nr. 361).

Further studies of the relationships among strains classified as taxon 15, taxon 18, taxon 20, (Pasteurella) granulomatis or the (Pasteurella) haemolytica-complex in ruminants using quantitative evaluation of phenotypic data

Angen, Ø., Olsen, John Elmerdahl & Bisgaard, M., 1997, I: Zentralblatt für Bakteriologie. 286, s. 317-332 6 s.

Genomic relationships between selected phage types of Salmonella enterica subsp. enterica serotype typhimurium defined by ribotyping, IS200 typing and PFGE

Olsen, John Elmerdahl, Skov, M. N., Angen, Ø., Threlfall, E. J. & Bisgaard, M., 1997, I: Microbiology. 143, s. 1471-1479 9 s.

Genotypic relationships among strains classified under the (Pasteurella) haemolytica-complex as indicated by ribotyping and multilocus enzyme electrophoresis

Angen, Ø., Caugant, D. A., Olsen, John Elmerdahl & Bisgaard, M., 1997, I: Zentralblatt für Bakteriologie. 286, s. 333-354 22 s.

Hatchery-borne Salmonella enterica serovar Tennessee infections in broilers

Christensen, Jens Peter, Brown, D. J., Madsen, M., Olsen, John Elmerdahl & Bisgaard, M., 1997, I: Avian Pathology. 26, s. 155-168 14 s.

Molecular typing of Salmonella: an overview

Olsen, John Elmerdahl, 1997. 1 s.

Phylogenetic relations of Salmonella established by 23S rRNA gene sequence comparison

Christensen, Henrik, Nordentoft, S. & Olsen, John Elmerdahl, 1997. 6 s.

Relationships among strains classified with the ruminant *Pasteurella haemolytica*-complex using quantitative evaluation of phenotypic data

Angen, Ø., Aalbæk, Bent, Falsen, E., Olsen, John Elmerdahl & Bisgaard, M., 1997, I: Zentralblatt für Bakteriologie. 285, s. 459-479 21 s.

Risk factors associated with *Salmonella enterica* serovar typhimurium infection in Danish broiler flocks

Skov, M. N., Angen, Ø., Chriél, M., Olsen, John Elmerdahl & Bisgaard, M., 1997, *Proceedings*. s. 343-346 4 s.

***Salmonella* plasmid virulence (spv) gene expression in different serotypes of *Salmonella enterica* measured by the use of spvB fusion reporter genes**

Brown, D. J., Chadfield, M. S. & Olsen, John Elmerdahl, 1997. 3 s.

Secretory pathways in *Salmonella* Typhimurium-induced fluid accumulation in the porcine small intestine

Grøndahl, M. L., Majgaard Jensen, G., Nielsen, C. G., Skadhauge, E., Olsen, John Elmerdahl & Berner Hansen, M., 1997, I: *Journal of Medical Microbiology*. 46, s. 1-7 7 s.

The application of polymerase chain reaction to the meat industry

Olsen, John Elmerdahl, Boel, J. & Aabo, S., 1997, *Factors effecting the microbial quality of meat*. Hinton, M. H. & Rowlings, C. (red.). University of Bristol Press, Bind 4. s. 135-141 7 s. (Microbial methods for the meat industry).

The characterization of a naturally occurring RFLP variant of the *Salmonella enterica* serovar gallinarum biovar gallinarum virulence plasmid associated with reduced virulence in chickens

Christensen, Jens Peter, Barrow, P. A., Olsen, John Elmerdahl, Brown, D. J. & Bisgaard, M., 1997. 2 s.

Correlation between viable counts of *Salmonella* Gallinarum in spleen and liver and the development of anaemia in chickens as seen in experimental fowl typhoid

Christensen, Jens Peter, Barrow, P. A., Olsen, John Elmerdahl, Dirch Poulsen, J. S. & Bisgaard, M., 1996, I: *Avian Pathology*. 25, s. 769-783 15 s.

Detection of *Campylobacter jejuni* and *Camp. coli* in chicken faecal samples by PCR

Rasmussen, H. N., Olsen, John Elmerdahl, Jørgensen, K. & Rasmussen, O. F., 1996, I: *Letters in Applied Microbiology*. 23, s. 363-366 4 s.

Distribution and antibiotic resistance patterns of common mastitis pathogens (gram-positive cocci) in selected dairy herds of three dairy farming sectors in Zimbabwe

Makaya, P. V., Aarestrup, F. M. & Olsen, John Elmerdahl, 1996, I: *Zimbabwe Veterinary Journal*. 27, 2, s. 65-75 11 s.

Five-hydroxytryptamine receptor antagonist reduces salmonella-induced net fluid accumulation in porcine small intestine

Hansen, M. B., Grøndahl, M. L., Jensen, G. M., Nielsen, C., Olsen, John Elmerdahl & Skadhauge, E., 1996. 1 s.

Genomic lineage of *Salmonella enterica* serotype Gallinarum

Olsen, John Elmerdahl, Skov, M. N., Christensen, Jens Peter & Bisgaard, M., 1996, I: *Journal of Medical Microbiology*. 45, s. 413-418 6 s.

Metoder til eftersporning af patogene bakteriers smitte gennem levnedsmidler: eksemplificeret ved slagtekyllingeproduktion

Olsen, John Elmerdahl, Brown, D. J. & Bisgaard, M., 1996. 1 s.

Polyphasic characterization of organisms within the [*Pasteurella*] haemolytica complex

Angen, Ø., Caugant, D. A., Olsen, John Elmerdahl & Bisgaard, M., 1996. 1 s.

Påvisning af salmonella populationer ud fra ribosomale DNA sekvenser

Christensen, Henrik & Olsen, John Elmerdahl, 1996. 1 s.

Relation between subspecies of *Salmonella enterica* by 23S rDNA sequence comparison

Christensen, Henrik & Olsen, John Elmerdahl, 1996. 1 s.

Sequence diversity of the flagellin gene of *Listeria monocytogenes*

Dons, L., Rasmussen, O. F. & Olsen, John Elmerdahl, 1996. 3 s.

The application of PCR to the meat industry

Olsen, John Elmerdahl, 1996.

The development and application of oligo nucleotide probes and PCR methods specific for the genus *Salmonella* and for *S. Typhimurium*

Olsen, John Elmerdahl, Aabo, S. & Rossen, L., 1996. 1 s.

The development of oligonucleotide probes and PCR methods specific for *Salmonella* or for *Salmonella typhimurium* and application to detection in naturally contaminated samples

Olsen, John Elmerdahl, 1996.

Virulence and genotype stability of *Salmonella enterica* serovar Berta during a natural outbreak

Olsen, John Elmerdahl, Skov, M. N., Brown, D. J., Christensen, Jens Peter & Bisgaard, M., 1996, I: *Epidemiology and Infection*. 116, s. 267-274 8 s.

Øvelsesvejledning til kursus i Klinisk Mikrobiologi

Olsen, John Elmerdahl, Aalbæk, Bent & Brown, D. J., 1996

Probes and polymerase chain reaction for detection of food-borne bacterial pathogens

Olsen, John Elmerdahl, Aabo, S., Hill, W., Notermans, S., Wernars, K., Granum, P. E., Popovic, T., Rasmussen, H. N. & Olsvik, nov. 1995, I: *International Journal of Food Microbiology*. 28, 1, s. 1-78 78 s.

Research note: Detection of *Salmonella* in minced meat by the polymerase chain reaction method

Aabo, S., Andersen, J. K. & Olsen, John Elmerdahl, sep. 1995, I: *Letters in Applied Microbiology*. 21, 3, s. 180-182 3 s.

Oligonucleotide probes specific for the genus *Salmonella* and for *Salm. typhimurium*

Olsen, John Elmerdahl, Aabo, S., Rasmussen, O. F. & Rossen, L., mar. 1995, I: *Letters in Applied Microbiology*. 20, 3, s. 160-163 4 s.

Abstract i forbindelse med præsentation af poster til: Avancerede målesystemer og databehandling til proces- og produktudvikling, 1995, KVL

Christensen, Henrik & Olsen, John Elmerdahl, 1995

Antibiotikumresistente *Escherichia coli* i tarmfloraen hos danske svin og kalve i perioden 1970-1988

Aalbæk, Bent, Olsen, John Elmerdahl, Nielsen, B., Larsen, J. L., Sørensen, M., Errebo Larsen, H. & Rasmussen, J., 1995, I: *Dansk Veterinærtidsskrift*. 78, 20, s. 1026-1029 4 s.

Characterization of non-virulence plasmids with homology to the virulence plasmid of *Salmonella dublin*

Aabo, S., Olsen, John Elmerdahl, Threlfall, E. J. & Brown, D. J., 1995, I: *Research in Microbiology*. 146, s. 751-759 7 s.

DNA-probes and PCR for identification of *Salmonella*

Olsen, John Elmerdahl, Aabo, S. & Rossen, L., 1995, *Southeast Asian journal of tropical medicine and public health*. 26 udg. s. 222-224 3 s.

Detection of *Yersinia enterocolitica* O:3 in faecal samples and tonsil swabs from pigs using IMS and PCR

Rasmussen, H. N., Rasmussen, O. F., Christensen, Henrik & Olsen, John Elmerdahl, 1995, I: *Journal of Applied Bacteriology*. 78, 5, s. 563-8

Immune reaction of pigs following intra-gastric or ileal inoculation of attenuated *Salmonella typhi*

Loftager, M. K., Olsen, John Elmerdahl & Eriksen, L., 1995, I: *Advances in Experimental Medicine and Biology*. 371, B, s. 913-917 5 s.

***Listeria monocytogenes* exists in at least three evolutionary lines: Evidence from flagellin, invasive associated protein and listeriolysin O genes**

Rasmussen, O. F., Skouboe, P., Dons, L., Rosen, L. & Olsen, John Elmerdahl, 1995, I: *Microbiology*. 141, 9, s. 2053-2061 9 s.

Molecular methods for control of sources and routes of microbial infections

Olsen, John Elmerdahl, 1995, *Meat quality and safety as affected by primary production*. Møller, A. J., Mielche, M. M. & Barton-Gade, P. (red.). s. 174-184 11 s.

Prevalence of *Salmonella* in dry pelleted chicken manure samples obtained from shrimp farms in a major shrimp production area in Thailand

Dalsgaard, Anders & Olsen, John Elmerdahl, 1995, I: *Suisanzoshoku*. 136, s. 291-295 5 s.

RFLP variation in *Salmonella gallinarum* virulence plasmids and the effect on virulence

Christensen, Jens Peter, Barrow, A. P., Olsen, John Elmerdahl, Brown, D. J. & Bisgaard, M., 1995, *Southeast Asian journal of tropical medicine and public health*. 26 udg. s. 160-162 3 s.

The development of oligonucleotide probes and PCR methods specific for *Salmonella* or for *S. serotype typhimurium* and application to detection in naturally contaminated samples

Olsen, John Elmerdahl, Aabo, S. & Rossen, L., 1995, *Southeast Asian journal of tropical medicine and public health*. 26 udg. s. 92-98 7 s.

RAPD analysis of *Yersinia enterocolitica*

Rasmussen, H. N., Olsen, John Elmerdahl & Rasmussen, O. F., nov. 1994, I: *Letters in Applied Microbiology*. 19, 5, s. 359-362 4 s.

Stability of plasmids in five strains of *Salmonella* maintained in stab culture at different temperatures

Olsen, John Elmerdahl, Brown, D. J., Baggesen, D. L. & Bisgaard, M., aug. 1994, I: *Journal of Applied Bacteriology*. 77, 2, s. 155-159 5 s.

Genomic lineage of *Salmonella enterica* serovar Dublin

Olsen, John Elmerdahl & Skov, M., jun. 1994, I: *Veterinary Microbiology*. 40, 3-4, s. 271-282 12 s.

Specific detection of pathogenic *Yersinia enterocolitica* by two-step pcr using hot-start and dmsO

Rasmussen, H. N., Rasmussen, O. F., Andersen, J. K. & Olsen, John Elmerdahl, apr. 1994, I: *Molecular and Cellular Probes*. 8, 2, s. 99-108 10 s.

Characterization of two putative *Listeria monocytogenes* encoding polypeptides homologous to the sensor protein CheA and the response regulator CheY of chemotaxis

Dons, L. E., Olsen, John Elmerdahl & Rasmussen, O. F., 1994, I: *The Journ. of Sequencing and Mapping*. 4, s. 301 12 s.

Characterization of two putative *Listeria monocytogenes* genes encoding polypeptides homologous to the sensor protein cheA and the response regulator cheY of chemotaxis

Dons, L., Olsen, John Elmerdahl & Rasmussen, O. F., 1994, I: *DNA Sequence*. 4, 5, s. 301-311 11 s.

Clonal lines of *Salmonella enterica* serotype Enteritidis documented by IS200-, ribo-, pulsed-field gel electrophoresis and RFLP typing

Olsen, John Elmerdahl, Skov, M. N., Threlfall, E. J. & Brown, D. J., 1994, I: *Journal of Medical Microbiology*. 40, 1, s. 15-22 8 s.

Ribotyping of *Aeromonas salmonicida* subsp. *salmonicida*

Nielsen, B., Olsen, John Elmerdahl & Larsen, J. L., 1994, I: Diseases of Aquatic Organisms. 18, 2, s. 155-158 4 s.

Ribotypes of *Salmonella enterica* serovar *Gallinarum* biovars *gallinarum* and *pullorum*

Christensen, Jens Peter, Olsen, John Elmerdahl & Bisgaard, M., 1 dec. 1993, I: Avian Pathology. 22, 4, s. 725-738 14 s.

Bacterial typing methods suitable for epidemiological analysis. Applications in investigations of salmonellosis among livestock.

Olsen, John Elmerdahl, Brown, D. J., Skov, M. N. & Christensen, Jens Peter, dec. 1993, I: The Veterinary quarterly. 15, 4, s. 125-135 11 s.

Salmonella identification by the polymerase chain reaction

Aabo, S., Rasmussen, O. F., Roseen, L., Sørensen, P. D. & Olsen, John Elmerdahl, jun. 1993, I: Molecular and Cellular Probes. 7, 3, s. 171-178 8 s.

Ribotypes and plasmid contents of *Vibrio anguillarum* strains in relation to serovar

Olsen, John Elmerdahl & Larsen, J. L., 1993, I: Applied and Environmental Microbiology. 59, 11, s. 3863-3870 8 s.

Plasmid profiles and phage types of *Salmonella typhimurium* isolated from successive flocks of chickens on three parent stock farms

Baggesen, D. L., Olsen, John Elmerdahl & Bisgaard, M., 1 dec. 1992, I: Avian Pathology. 21, 4, s. 569-579 11 s.

Cloning and characterization of a gene encoding flagellin of *Listeria monocytogenes*

Dons, L. & Olsen, John Elmerdahl, okt. 1992, I: Molecular Microbiology. 6, 20, s. 2919-2929 11 s.

Characterization of *Salmonella Enterica* Serovar *Gallinarum* Biovars *Gallinarum* and *Pullorum* By Plasmid Profiling and Biochemical Analysis

Christensen, Jens Peter, Olsen, John Elmerdahl, Hansen, H. C. & Bisgaard, M., 1 sep. 1992, I: Avian Pathology. 21, 3, s. 461-470 10 s.

Evaluation of a *Salmonella*-specific DNA probe by colony hybridization using non-isotopic and isotopic labeling

AABO, S., THOMAS, A., HALL, M. L. M., SMITH, H. R. & Olsen, John Elmerdahl, jul. 1992, I: APMIS. 100, 7-12, s. 623-628 6 s.

Biochemical and molecular characterization of *Salmonella enterica* serovar *berta*, and comparison of methods for typing

Olsen, John Elmerdahl & Bisgaard, M., apr. 1992, I: Epidemiology and Infection. 108, 2, s. 243-260 18 s.

Plasmid profiles as an epidemiological marker in *Salmonella enterica* serovar *berta* infections: Comparison of isolates obtained from humans and poultry

Olsen, John Elmerdahl, BROWN, D. J., GAARSLEV, K. & BISGAARD, M., jan. 1992, I: APMIS. 100, 1-6, s. 221-228 8 s.

Cloning and characteriza

Dons, L. E., Rasmussen, O. F. & Olsen, John Elmerdahl, 1992, I: Molecular Microbiology. (1992) 6 (20), s. 2919 11 s.

***Salmonella enterica*: Infection, Cross Infection and Persistence within the Environment of a Broiler Parent Stock Unit in Denmark**

Brown, D. J., Olsen, John Elmerdahl & Bisgaard, M., 1992, I: Zentralblatt fur Bakteriologie. 277, 1, s. 129-138 10 s.

A rapid polymerase chain reaction (PCR)-based assay for the identification of *Listeria monocytogenes* in food samples

Rossen, L., Holmstrøm, K. & Olsen, John Elmerdahl, nov. 1991, I: International Journal of Food Microbiology. 14, 2, s. 145-151 7 s.

Plasmid profiles of Salmonella enterica serovar berta isolated from broilers in Denmark

Bisgaard, M. & Olsen, John Elmerdahl, jul. 1991, I: APMIS. 99, 7-12, s. 609-614 6 s.

Prevalence of antibiotic-resistant Escherichia coli in Danish pigs and cattle

Aalbæk, Bent & Olsen, John Elmerdahl, jul. 1991, I: APMIS. 99, 7-12, s. 1103-1110 8 s.

Isolation of a Salmonella-specific DNA hybridization probe

Olsen, John Elmerdahl, 1991, I: APMIS. 99, 2, s. 114-120 7 s.

Listeria monocytogenes Isolates can be classified into two major types according to the sequence of the listeriolysin gene.

Rasmussen, O. F., Beck, T., Olsen, John Elmerdahl, Dons, L. & Rossen, L., 1991, I: Infection and Immunity. 1991, s. 3945-3951 7 s.

Listeria monocytogenes isolates can be classified into two major types according to the sequence of the listeriolysin gene

Olsen, John Elmerdahl, Dons, L. & Rossen, L., 1991, I: Infection and Immunity. 59, 11, s. 3945-3951 7 s.

Occurrence of plasmids in Danish isolates of Vibrio anguillarum serovars O1 and O2 and association of plasmids with phenotypic characteristics

Olsen, John Elmerdahl, 1991, I: Applied and Environmental Microbiology. 57, 8, s. 2158-2163 6 s.

Infectivity of Eggs of Taenia taeniaeformis after Anaerobic Digestion of Sewage Sludge – A Possible Model for Taenia saginata Egg Resistance

Olsen, John Elmerdahl & Nansen, P., sep. 1990, I: Acta Veterinaria Scandinavica. 31, 3, s. 377-379 3 s.

An improved method for rapid isolation of plasmid DNA from wild-type Gram-negative bacteria for plasmid restriction profile analysis

Olsen, John Elmerdahl, maj 1990, I: Letters in Applied Microbiology. 10, 5, s. 209-212 4 s.

Restriction fragment length polymorphism of the Vibrio anguillarum serovar O1 virulence plasmid

Olsen, John Elmerdahl, 1990, I: Applied and Environmental Microbiology. 56, 10, s. 3130-3132 3 s.

The prevalence of plasmids in Danish bovine and human isolates of Salmonella dublin

Olsen, John Elmerdahl, 1990, I: APMIS. 98, 8, s. 735-740 6 s.

Studies on the reduction of pathogenic and indicator bacteria in liquid pig manure treated by sedimentation and anaerobic filter digestion for methane generation

Olsen, John Elmerdahl, 1988, I: Biological Wastes. 24, 1, s. 17-26 10 s.

Bacterial decimation times in anaerobic digestions of animal slurries

Olsen, John Elmerdahl, 1987, I: Biological Wastes. 21, 3, s. 153-168 16 s.

Inactivation of some parasites by anaerobic digestion of cattle slurry

Olsen, John Elmerdahl & Nansen, P., 1987, I: Biological Wastes. 22, 2, s. 107-114 8 s.

On the reduction of Mycobacterium paratuberculosis in bovine slurry subjected to batch mesophilic or thermophilic anaerobic digestion

Olsen, John Elmerdahl & Nansen, P., 1985, I: Agricultural Wastes. 13, 4, s. 273-280 8 s.

Aktiviteter

Medicinforbrug og antibiotikaresistens - kan det måles objektivt som forudsat i veterinærforliget

Olsen, John Elmerdahl (Foredragsholder)
18 nov. 2009

Possible human health consequences of the use of antibiotics in animals

Olsen, John Elmerdahl (Foredragsholder)
18 nov. 2008

Svinefagdyrlægekursus: Antibiotikaresistens

Olsen, John Elmerdahl (Deltager)
11 nov. 2008

Bedømmelsesudvalg for PhD Lc 2482 Lina Cavaco. Afhandlingens titel: Mechanisms of selection of resistance to quinolones and cephalosporins in *Escherichia coli*. (Ekstern organisation)

Olsen, John Elmerdahl (Medlem)
8 sep. 2008 → ...

Investigation of correlation between gene expression of 162 selected genes and survival and colonization abilities of *Salmonella* strains in the food chain

Olsen, John Elmerdahl (Foredragsholder)
8 sep. 2008

Journal of Medical Microbiology (Tidsskrift)

Olsen, John Elmerdahl (Redaktør)
8 sep. 2008 → ...

Food Micro 2008 : Inviteret chairman for session vedrørende *Salmonella*

Olsen, John Elmerdahl (Deltager)
1 sep. 2008 → 4 sep. 2008

Bedømmelse af PhD afhandling fra Lc2480 Arshnee Moodley. Afhandlingens titel: Zoonotic transmission of antimicrobial resistant bacteria of human clinical significance by direct contact with animals (Ekstern organisation)

Olsen, John Elmerdahl (Medlem)
8 aug. 2008 → 1 okt. 2008

Methicillin resistant *Staphylococcus aureus* clonal complex 398 - a new zoonosis in pig production

Olsen, John Elmerdahl (Foredragsholder)
17 jun. 2008

The emergence of multi-resistant bacteria in pet animals: clinical problems and zoonotic implications

Olsen, John Elmerdahl (Foredragsholder)
13 maj 2008

Survival of *Salmonella* on carcasses during storage

Olsen, John Elmerdahl (Foredragsholder)
12 maj 2008

Avian enterococci and streptococci - emerging pathogens in poultry production

Olsen, John Elmerdahl (Foredragsholder)
8 maj 2008

Extended spectrum beta-lactamase producing *Escherichia coli* and methicillin resistant *Staphylococcus aureus* in pig production: possible zoonotic implications

Olsen, John Elmerdahl (Foredragsholder)
7 maj 2008

Diverse tidsskrifter (Tidsskrift)

Olsen, John Elmerdahl (Redaktør)
1 jan. 2008

LIFE, Københavns Universitet (Ekstern organisation)

Olsen, John Elmerdahl (Medlem)
14 sep. 2007 → 21 dec. 2007

Bedømmelsesudvalg for lektorat i klinisk mikrobiologi (Ekstern organisation)

Olsen, John Elmerdahl (Medlem)
14 maj 2007 → 31 jan. 2008

Gæstelærer ved Lithauens Veterinære Akademi: Underviser i veterinary public health

Olsen, John Elmerdahl (Deltager)
5 maj 2007 → 11 maj 2007

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14 apr. 2006 → 14 feb. 2008

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14 apr. 2006 → 14 feb. 2008

LIFE, Københavns Universitet (Ekstern organisation)

Olsen, John Elmerdahl (Medlem)
14 apr. 2006 → 1 feb. 2008

The current state of Pasteurellaceae systematics

Olsen, John Elmerdahl (Foredragsholder)
23 okt. 2005

Journal of Medical Microbiology (Tidsskrift)

Olsen, John Elmerdahl (Redaktør)
1 apr. 2005 → ...

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