

Mette Sif Hansen  
Associate Professor  
Pathobiological Sciences  
**Postal address:**  
Grønnegårdsvej 7  
1870  
Frederiksberg C  
**Email:** msha@sund.ku.dk  
**Phone:** +4535326468  
**Web address:** <https://ivh.ku.dk/forskning/patobiologi/>

## Employment

**Associate Professor**  
Pathobiological Sciences  
Frederiksberg C  
19 Aug 2019 → nu

## Research outputs

### **Intranasal Inoculation with Classical Swine Fever Virus Provided a More Consistent Experimental Disease Model Compared to Oral Inoculation**

Hansen, Mette Sif, Nielsen, J., Uttenthal, Å., Jensen, G. Ø. & Lohse, L., 2024, In: *Veterinary Sciences*. 11, 2, 56.

### **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.

### **Computed Tomography as a Method for Age Determination of Carnivora and Odontocetes with Validation from Individuals with Known Age**

Baier-Stegmaier, S., Gundlach, C., Chriél, M., Hansen, Mette Sif, Vedel-Smith, C., Hansen, C. V., Johansson, D. K., Henriksen, L. B., Wahlberg, M., Thøstesen, C. B., Alstrup, A. K. O., Gregersen, K. M., Pertoldi, C. & Pagh, S., 2023, In: *Animals*. 13, 11, 1783.

### **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, In: *Acta Veterinaria Scandinavica*. 65, p. 1-18 18 p., 30.

### **Immunogenicity of Bacillus Calmette-Guérin in pigs: potential as a translational model of non-specific effects of BCG**

Jensen, K. J., Hansen, Mette Sif, Skovgaard, K., Svensson, E., Larsen, Lars, Heegaard, P. M. H., Benn, C. S. & Jungersen, G., 2023, In: *Frontiers in Immunology*. 14, 1219006.

### **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, In: *Porcine Health Management*. 9, 26.

### **Experimental infection of high health pigs with porcine circovirus type 2 (PCV2) and *Lawsonia intracellularis***

Hansen, Mette Sif, Jensen, T. K., Hjulsager, C. K., Angen, Ø., Riber, U., Nielsen, J., Heegaard, P. M. H. & Larsen, Lars, 2022, In: *Frontiers in Veterinary Science*. 9, 994147.

### **Detecting bird's eggs in the diet of raccoon dog (*Nyctereutes procyonoides*)**

Bahlke, S. Ø., Nash, David Richard, Pedersen, Jes Søren, Hansen, Mette Sif, Chriél, M. & Pagh, S., 2021, In: *Genetics and Biodiversity Journal*. 5, 2, p. 127-139 12 p.

**Estimation of the age and reproductive performance of wild-born and escaped mink (*Neovison vison*) caught in the wild in Denmark**

Pagh, S., Pertoldi, C., Chriél, M., Petersen, H. H., Jensen, T. H., Madsen, S., Kraft, D. C. E., Schou, T. M. & Hansen, Mette Sif, 2021, In: *Animals*. 11, 1, 11 p., 162.

**First finding of *Streptococcus phocae* infections in mink (*Neovison vison*)**

Nikolaisen, Nanett Kvist, Lindegaard, M., Lyhs, U., Strube, M. L., Hansen, Mette Sif, Struve, T., Chriél, M., Jensen, L. B. & Pedersen, K., 2021, In: *Research in Veterinary Science*. 139, p. 145-151 7 p.

**Characterisation of footpad lesions in organic and conventional broilers**

Riber, A. B., Rangstrup-Christensen, L., Hansen, Mette Sif, Hinrichsen, L. K. & Herskin, M. S., 2020, In: *Animal*. 14, 1, p. 119-128 10 p.

**Diagnostic studies of abortion in Danish cattle 2015-2017**

Wolf-Jäckel, G. A., Hansen, Mette Sif, Larsen, G., Holm, E., Agerholm, Jørgen Steen & Jensen, Tim Kåre, 2020, In: *Acta Veterinaria Scandinavica*. 62, 12 p., 1.

**Health assessment of harbour porpoises (*PHOCOENA PHOCOENA*) from Baltic area of Denmark, Germany, Poland and Latvia**

Siebert, U., Pawliczka, I., Benke, H., von Vietinghoff, V., Wolf, P., Pilāts, V., Kesselring, T., Lehnert, K., Prenger-Berninghoff, E., Galatius, A., Anker Kyhn, L., Teilmann, J., Hansen, Mette Sif, Sonne, C. & Wohlsein, P., 2020, In: *Environment International*. 143, 11 p., 105904.

**Morphological and molecular characterization of *Cystoisospora laidlawi* oocysts (Apicomplexa Eimeriidae) in farmed American mink (*Neovison vison*) in Denmark**

Petersen, H. H., Yang, R., Chriél, M., Liu, D., Hansen, Mette Sif & Ryan, U. M., 2020, In: *Parasitology Research*. 119, p. 3549–3553

**RÆVE OG MÅRHUNDE KAN REGULERE ANTALLET AF HVALPE**

Pagh, S., Pertoldi, C., Chriél, M. & Hansen, Mette Sif, 2020, In: *Aktuel Naturvidenskab*. 2020, 2, p. 31-35

**Kvantitativ PCR kan være et godt supplement til påvisning af cytomegalovirus-infektion: Meddelelse nr. 1162**

Tolstrup, L., Haugegaard, S., Larsen, Lars, Hjulsager, C. K., Jensen, Tim Kåre, Hansen, Mette Sif & Kristensen, C. S., 2019

**The effect of inactivated mycobacterium paratuberculosis vaccine on the response to a heterologous bacterial challenge in pigs**

Jensen, K. J., Hansen, Mette Sif, Heegaard, P. M. H., Benn, C. S. & Jungersen, G., 2019, In: *Frontiers in Immunology*. 10, 1557.

**Bovine Abortions and Stillbirths in Denmark 2015 to 2017**

Wolf-Jäckel, G., Hansen, Mette Sif, Larsen, G., Holm, E. & Jensen, Tim Kåre, 2018.

**Bovine abortions in Denmark 2015–2017**

Wolf-Jäckel, G., Hansen, Mette Sif, Larsen, G., Holm, E. & Jensen, Tim Kåre, 2018.

**Rapportering af diagnostiske undersøgelser af faldvildt 2018**

Chriél, M., Hansen, Mette Sif, Larsen, G., Holm, E., Hjulsager, C. K., Jensen, Tim Kåre & Petersen, H. H., 2018

**Genetic and biological characterization of a Porcine Reproductive and Respiratory Syndrome Virus 2 (PRRSV-2) causing significant clinical disease in the field**

Kvisgaard, L. K., Larsen, Lars, Hjulsager, C. K., Bøtner, A., Rathkjen, P. H., Heegaard, P. M. H., Bisgaard, N. P., Nielsen, J. & Hansen, Mette Sif, Nov 2017, In: *Veterinary Microbiology*. 211, p. 74-83 10 p.

### **Rapportering af diagnostiske undersøgelser af faldvildt 2017**

Chriél, M., Hansen, Mette Sif, Larsen, G., Holm, E., Petersen, H. H., Hjulsager, C. K., Jensen, Tim Kåre & Fertner, M. E., 2017

### **Buevåbnets effektivitet**

Jensen, Tim Kåre, Hansen, Mette Sif, Wolf-Jäckel, G. & Chriél, M., 2016

### **Diagnostiske undersøgelser af pelsdyr ved DTU Veterinærinstituttet - november 2015 - oktober 2016**

Chriél, M., Larsen, G., Holm, E., Hjulsager, C. K., Pedersen, K., Jensen, V. F., Jensen, Tim Kåre & Hansen, Mette Sif, 2016, DTU Veterinærinstituttet.

### **Rapportering af diagnostiske undersøgelser af faldvildt 2016**

Chriél, M., Hansen, M. F., Hansen, Mette Sif, Larsen, G., Holm, E., Petersen, H. H., Hjulsager, C. K. & Jensen, Tim Kåre, 2016, DTU Veterinærinstituttet.

### **Concurrent host-pathogen gene expression in the lungs of pigs challenged with *Actinobacillus pleuropneumoniae***

Brogaard, L., Schou, K. K., Heegaard, P., Hansen, Mette Sif, Jensen, Tim Kåre & skovgaard, K., 2015, In: B M C Genomics.

### **Influenza a(H10N7) virus in dead harbor seals, Denmark**

Krog, J. S., Hansen, Mette Sif, Holm, E., Hjulsager, C. K., Chriél, M., Pedersen, K., Andresen, L. O., Abildstrøm, M., Jensen, T. H. & Larsen, Lars, 2015, In: Emerging Infectious Diseases. 21, 4, p. 684-687 4 p.

### **New reassortant and enzootic european swine influenza viruses transmit efficiently through direct contact in the ferret model**

Fobian, K., Fabrizio, T. P., Yoon, S. W., Hansen, Mette Sif, Webby, R. J. & Larsen, Lars, 2015, In: Journal of General Virology. 96, 7, p. 1603-1612 10 p.

### **Diagnostiske undersøgelser af pelsdyr ved DTU Veterinærinstituttet: november 2013 - oktober 2014**

Chriél, M., Hansen, Mette Sif, Larsen, G., Holm, E., Jensen, Tim Kåre, Hjulsager, C. K., Strandbygaard, B. & Enemark, H., 2014

### **Faldvildt undersøgelser på DTU Veterinærinstituttet i 2013**

Hansen, Mette Sif, Larsen, G., Holm, E., Jensen, Tim Kåre, Al-Sabi, M. N. S. & Chriél, M., 2014.

### **Monitoring of *Francisella tularensis* and *Yersinia pseudotuberculosis* in Danish hares (*Lepus europaeus*) by fluorescent in situ hybridization**

Hansen, Mette Sif, Chriél, M., Larsen, G., Holm, E. & Jensen, Tim Kåre, 2014.

### **Nyt fra Veterinærinstituttet: Undersøgelse af svineaborter for klamydia - *Cp. pecorum* påvist ved fluorescens in situ hybridisering**

Jensen, Tim Kåre & Hansen, Mette Sif, 2014

### **Poster: Faldvildt undersøgelser på DTU Veterinærinstituttet i 2013**

Hansen, Mette Sif, Larsen, G., Holm, E., Jensen, Tim Kåre, Al-Sabi, M. N. S. & Chriél, M., 2014, In: Flora og Fauna.

### **Rapportering af diagnostiske undersøgelser af faldvildt 2014**

Chriél, M., Hansen, Mette Sif, Larsen, G., Holm, E., Jensen, Tim Kåre, Enemark, H., Hjulsager, C. K. & Al-Sabi, M. N. S., 2014

### **Snabelklove hos danske rådyr**

Hansen, Mette Sif, Buelund, Lene Elisabeth, Holm, E., Larsen, G., Nielsen, Dorte Hald, Jensen, Tim Kåre & Chriél, M., 2014, 13 p.

**Sammenhæng mellem maveforandringer og lungesygd om hos slagtesvin**

Nielsen, E. O., Haugegaard, S., Hansen, Mette Sif, Jensen, Tim Kåre & Nielsen, M. B. F., 28 Oct 2013

**Sammenhæng mellem maveforandringer og lungesygd om hos slagtesvin**

Nielsen, E. O., Haugegaard, S., Hansen, Mette Sif, Jensen, Tim Kåre & Nielsen, M. B. F., 28 Oct 2013

**A wasting syndrome in farmed mink**

Jensen, Tim Kåre, Hansen, Mette Sif & Chriél, M., 2013

**Detection of porcine circovirus type 2 and viral replication by in situ hybridization in primary lymphoid organs from naturally and experimentally infected pigs**

Hansen, Mette Sif, Segalés, J., Fernandes, L. T., Grau-Roma, L., Bille-Hansen, V., Larsen, L. E. & Nielsen, O. L., 2013, In: Veterinary Pathology. 50, 6, p. 980-988 9 p.

**Immunhistokemisk metode til påvisning af mink virus enteritis**

Hansen, Mette Sif, Chriél, M., Larsen, G., Holm, E. & Jensen, Tim Kåre, 2013, *Faglig Årsberetning 2013*.

**Immunohistochemical study of porcine lung lesions associated with *Pasteurella multocida***

Pors, S. E., Hansen, Mette Sif, Bisgaard, M., Jensen, Henrik Elvang & Iburg, T. M., 2013, In: Veterinary Journal. 197, 2, p. 483-488 6 p.

**Simultaneous analysis of host and pathogen gene expression changes during bacterial infection**

Brogaard, L., Hansen, Mette Sif, Jensen, Tim Kåre, Heegaard, P., skovgaard, K. & Schou, K. K., 2013.

**Undersøgelse af rørmink ved en dansk fodercentral**

Chriél, M., Hansen, Mette Sif, Jensen, Tim Kåre & Clausen, J., 2013

**Årsrapport for vildtsundhed 2013**

Chriél, M., Hansen, Mette Sif, Larsen, G., Holm, E., Jensen, Tim Kåre, Enemark, H., Hjulsager, C. K., Birkegård, A. C. & Nielsen, P. K., 2013

**Epidemi af hvalpesyge i jyske mink: Nyt fra Veterinærinstituttet**

Larsen, G., Holm, E., Hjulsager, C. K., Larsen, L. E., Jensen, Tim Kåre, Hansen, Mette Sif & Chriél, M., 2012, In: Dansk Veterinærtidsskrift.

**Halvårsrapport for vildtsundhed 2012**

Chriél, M., Holm, E., Larsen, G., Jensen, Tim Kåre, Hansen, Mette Sif, Enemark, H. & Hjulsager, C. K., 2012

***Coxiella burnetii* associated placental lesions and infection level in parturient cows**

Hansen, Mette Sif, Rodolakis, A., Cochonneau, D., Agger, Jens Frederik Gramstrup, Christoffersen, A., Jensen, Tim Kåre & Agerholm, Jørgen Steen, 2011, In: The Veterinary Journal. 190, 2, p. e135-e139

**Genetic diversity and associated pathology of *Pasteurella multocida* isolated from porcine pneumonia**

Pors, S. E., Hansen, Mette Sif, Christensen, Henrik, Jensen, Henrik Elvang, Petersen, A. H. H. & Bisgaard, M., 2011, In: Veterinary Microbiology. 150, 3-4, p. 354-361 8 p.

**Occurrence and associated lesions of *Pasteurella multocida* in porcine bronchopneumonia**

Pors, S. E., Hansen, Mette Sif, Bisgaard, M. & Jensen, Henrik Elvang, 2011, In: Veterinary Microbiology. 150, 1-2, p. 160-166 7 p.

**Selection of method is crucial for the diagnosis of porcine circovirus type 2 associated reproductive failures**

Hansen, Mette Sif, Hjulsager, C. K., Bille-Hansen, V., Haugegaard, S., Dupont, K., Høgedal, P., Kunstmann, L. & Larsen, Lars, Jul 2010, In: Veterinary Microbiology. 144, 1-2, p. 203-209 7 p.

#### ***Coxiella burnetii* associated placental lesions in parturient cattle**

Agerholm, Jørgen Steen, Hansen, Mette Sif, Rodolakis, A., Cochonneau, D., Agger, Jens Frederik Gramstrup, Christoffersen, A. & Jensen, T. K., 2010, *Proceedings of the XXVI World Buiatrics Congress: Updates on Ruminant Production and Medicine*. 1 p.

#### **An investigation of the pathology and pathogens associated with porcine respiratory disease complex in Denmark**

Hansen, Mette Sif, Pors, S. E., Jensen, Henrik Elvang, Bille-Hansen, V., Bisgaard, M., Flachs, E. M. & Nielsen, O. L., 2010, In: *Journal of Comparative Pathology*. 143, 2-3, p. 1-12 12 p.

#### ***Coxiella burnetii* associated placental lesions in parturient cattle**

Hansen, Mette Sif, Rodolakis, A., Cochonneau, D., Christoffersen, A. & Jensen, Tim Kåre, 2010.

#### **Nutritional secondary hyperparathyroidism in two cats: evaluation of bone mineral density with dual-energy X-ray absorptiometry and computed tomography**

Dimopoulou, M., Kirpensteijn, J., Nielsen, Dorte Hald, Buelund, Lene Elisabeth & Hansen, Mette Sif, 2010, In: *Veterinary and Comparative Orthopaedics and Traumatology*. 2010, 1, p. 56-61 6 p.

#### **Occurrence and tissue distribution of porcine circovirus type 2 identified by immunohistochemistry in danish finishing pigs at slaughter**

Hansen, Mette Sif, Pors, S. E., Bille-Hansen, V., Kjerulff, S. K. J. & Nielsen, O. L., 2010, In: *Journal of Comparative Pathology*. 142, 2-3, p. 109-121 13 p.

#### **An immunohistochemical study of inflammatory cells in lung lesions of pigs naturally infected with *Pasteurella multocida***

Pors, S. E., Bisgaard, M., Jensen, Henrik Elvang, Hansen, Mette Sif & Iburg, T. M., 2009. 1 p.

#### **Association between placental lesions and presence of *Coxiella burnetii* in cattle**

Hansen, Mette Sif, Rodolakis, A., Cochonneau, D., Agger, Jens Frederik Gramstrup, Christoffersen, A. & Agerholm, Jørgen Steen, 2009, *Pathology Today*. p. 179 1 p.

#### **Morphologic studies of the pathogenesis of naturally occurring porcine circovirus type 2 diseases in pigs**

Hansen, Mette Sif, 2009, Department of Veterinary Disease Biology, University of Copenhagen. 153 p.

#### **Detection of porcine circovirus 2 and viral replication in primary lymphoid organs from naturally and experimentally infected pigs**

Hansen, Mette Sif, Nielsen, O. L., Fernandes, L., Llorens, G. R. & Segales, H., 2008. 1 p.

#### **Inflammatory reactions in lung tissue of pigs infected with *Pasteurella multocida*: An immunohistochemical study**

Pors, S. E., Iburg, T., Hansen, Mette Sif, Nielsen, O. L., Bisgaard, M. & Jensen, Henrik Elvang, 2008, *European Society of Veterinary Pathology: Programme and book of abstracts*. p. 191 1 p.

#### **Characterisation of alveolar polyps associated with bronchopneumonia in Danish finishing pigs at slaughter**

Hansen, Mette Sif, Pors, S. E. & Nielsen, O. L., 2007. 1 p.

#### **Detection of porcine circovirus type 2 and viral replication in primary lymphoid organs from postweaning multisystemic wasting syndrome affected pigs**

Hansen, Mette Sif, Nielsen, O. L., Roma, L. G. & Segalés, J., 2007, *European Society of Veterinary Pathology: 26th meeting*. p. 109 1 p.

## **Activities**

### **ECVP 2023**

Becker, Cecilie Brandt (Participant), Flyger, Christoffer Kirkelund (Participant), Barington, Kristiane (Participant), Leifsson, Páll S. (Participant) & Hansen, Mette Sif (Participant)

30 Aug 2023 → 1 Sep 2023

**24th ISVD annual meeting**

Hansen, Mette Sif (Participant)  
28 Aug 2023 → 29 Aug 2023

**NSVP Nordic Society of Veterinary Pathology**

Jensen, Henrik Elvang (Participant), Leifsson, Páll S. (Participant), Hansen, Mette Sif (Participant), Jensen, Louise Kruse (Participant), Hartmann, Katrine Top (Participant), Birch, Julie Knippel Melsted (Participant), Bendtsen, K. M. B. (Participant), Blirup-Plum, Sophie Amalie (Participant), Quaade, Michelle Lauge (Participant), Jensen, M. T. (Participant), Jørgensen, B. M. (Participant), Becker, Cecilie Brandt (Participant), Kristensen, Charlotte (Participant), Kromann, S. (Participant), Barington, Kristiane (Participant) & Pankoke, K. (Participant)  
15 Jun 2022 → 17 Jun 2022

**NOVA kursus**

Hansen, Mette Sif (Participant)  
28 Jan 2008 → 1 Feb 2008

**Pædagogisk kursus for ph.d. studerende**

Hansen, Mette Sif (Participant)  
23 Jan 2008 → 25 Jan 2008

**Forskningsophold ved Universitet Autònoma i Barcelona, UAB**

Hansen, Mette Sif (Participant)  
2 Nov 2007 → 22 Dec 2007

**"Hvad døde dyret af" - deltagelse i Kulturnatten**

Hansen, Mette Sif (Participant)  
12 Oct 2007

**RAPH summerschool**

Hansen, Mette Sif (Participant)  
20 Aug 2007 → 24 Aug 2007

**Ethics in Science**

Hansen, Mette Sif (Participant)  
13 Aug 2007 → 17 Aug 2007

**Characterisation of alveolar polyps associated with bronchopneumonia in Danish finishing pigs at slaughter**

Hansen, Mette Sif (Lecturer)  
15 Jun 2007

**Mucosal Immunology**

Hansen, Mette Sif (Participant)  
4 Dec 2006 → 7 Dec 2006

**Immunologi**

Hansen, Mette Sif (Participant)  
12 Sep 2006 → 22 Nov 2006

**RAPH Summerschool**

Hansen, Mette Sif (Participant)  
21 Aug 2006 → 25 Aug 2006

**19th International Pig Veterinary Society Congress 2006**

Hansen, Mette Sif (Participant)

16 Jul 2006 → 19 Jul 2006

**NORDIC SOCIETY FOR VETERINARY PATHOLOGY**

Hansen, Mette Sif (Participant)

15 Jun 2006 → 17 Jun 2006