Differentiation between serological responses to Brucella suis and Yersinia enterocolitica serotype O : 9 after natural or experimental infection in pigs

False-positive serological reactions (FPSR) due to infections with Yersinia enterocolitica serotype O : 9 (YeO:9) are a problem in tests for brucellosis. In the present study, FPSR in classical and novel tests for brucellosis following experimental infections of pigs with YeO:9 were compared with responses of B. suis biovar 2-inoculated pigs. FPSR were limited to 2-9 weeks post-YeO:9 inoculation, while B. suis-infected pigs were test-positive throughout the 21-week period of investigation. Although YeO:9-inoculated pigs exhibited FPSR in Brucella tests for a limited period of time, the serological responses in a YeO:9-purified O-antigen indirect ELISA did not decrease accordingly. Analysis of available cross-sectional serum samples from pig herds naturally infected with YeO: 9 or B. suis biovar 2 confirmed that the observed difference in the duration of the serological responses between the two infections could be used to discriminate between herds infected with B. suis biovar 2 and YeO:9.
Disseminated Mycobacterium celatum infection in a white-tailed trogon (Trogon viridis)

An adult female white-tailed trogon (Trogon viridis) was presented with abdominal enlargement and hard subcutaneous masses. Necropsy findings included bony masses extending from skeletal structures, disseminated pale foci in the liver, and a pale mass in the kidney. Histological examination revealed multifocal to coalescing granulomatous inflammation in the bone, liver, kidney, lung and spleen. Mycobacterium celatum was isolated from the liver and identified by DNA sequencing. This is the first report of M. celatum infection in an avian species.
Differences in serum antibody responses between pigs experimentally infected with Brucella suis biovar 2 and Yersinia enterocolitica serotype O:9
Cross-protective immune responses to *Yersinia enterocolitica* O:3 and O:9 serotypes are dependent on Yop protein expression

Paratuberkulose. Diagnostiske metoder (en oversigt)

Detection of *Mycobacterium avium* subsp. *paratuberculosis* in milk from clinically affected cows by PCR and culture

Milk and faeces samples from cows with clinical symptoms of paratuberculosis were examined for the presence of *Mycobacterium avium* subsp. *paratuberculosis* (*M. paratuberculosis*) by culture and PCR. *M. paratuberculosis* was cultivated in variable numbers from faeces or intestinal mucosa in eight of 11 animals. In milk from five cows (all faeces culture positive), we cultivated a few colonies of *M. paratuberculosis* (<100 CFU per ml). Milk samples from two cows were PCR positive (both animals were faeces culture positive, and one cow was milk culture positive). One cow was culture negative on intestinal mucosa, but culture positive in milk, and two cows were negative in culture and PCR from both faeces and milk. In conclusion, the presence of *M. paratuberculosis* could be detected in raw milk by PCR, but cultivation of milk was more sensitive. (C) 2000 Elsevier Science B.V. All rights reserved.
Detection of *Mycobacterium avium* subsp. *paratuberculosis* in Milk from Clinically Affected Cows by PCR and culture

Milk and faecal samples from cows with clinical symptoms of paratuberculosis were examined for the presence of *Mycobacterium avium* subsp.*paratuberculosis* (M. a. paratuberculosis) by culture and PCR. M. a. paratuberculosis was isolated in varied numbers from faeces or intestinal mucosa in 8 of 11 animals. In milk from 5 cows (all faecal culture-positive) we cultivated a few colonies of M. a. paratuberculosis (less than 100 CFU per ml). Milk samples from 2 cows were PCR-positive (both animals were faecal culture-positive, and 1 cow was milk culture positive). One cow was culture-negative on intestinal mucosa, but culture-positive in milk, and both faeces and milk were negative in culture and PCR from 2 cows. In conclusion the presence of M. a. paratuberculosis could be detected in raw milk by PCR but cultivation of milk was more sensitive in detecting the organism.
In the present study restriction fragment length polymorphism analyses with the recently described insertion sequence IS1245 as a probe was performed with clinical Mycobacterium avium complex strains cultured in Denmark during a 2-year period. The overall aim of the study was to disclose potential routes of transmission of these microorganisms. As a first step, the genetic diversity among isolates from AIDS patients and non-human immunodeficiency virus (HIV)-infected patients was described. In addition, a number of isolates from nonhuman sources cultured during the same period were analyzed and compared to the human isolates. A total of 203 isolates from AIDS patients (n = 90), non-HIV-infected patients (n = 91), and nonhuman sources (n = 22) were analyzed. The presence of IS1245 was restricted to Mycobacterium avium subsp. avium isolates. The majority of human isolates had large numbers of IS1245 copies, while nonhuman isolates could be divided into a high-copy-number group and a low-copy-number group. Groups of identical strains were found to be geographically widespread, comprising strains from AIDS patients as well as strains from non-HIV-infected patients. Samples of peat (to be used as potting soil) and veterinary samples were found to contain viable M avium isolates belonging to genotypes also found in humans.

General information
State: Published
Organisations: Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research, National Veterinary Institute
Authors: Bauer, J. (Ekstern), Andersen, Å. B. (Ekstern), Askgaard, D. (Ekstern), Giese, S. B. (Intern), Larsen, B. (Ekstern)
Pages: 600-605
Publication date: 1999
Main Research Area: Technical/natural sciences

Publication information
Journal: Journal of Clinical Microbiology
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BFI (2018): BFI-level 1
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BFI (2017): BFI-level 1
Web of Science (2017): Indexed Yes
BFI (2016): BFI-level 1
Scopus rating (2016): CiteScore 3.57 SJR 2.14 SNIP 1.417
Web of Science (2016): Indexed yes
BFI (2015): BFI-level 1
Scopus rating (2015): SJR 2.204 SNIP 1.448 CiteScore 3.56
Web of Science (2015): Indexed yes
BFI (2014): BFI-level 1
Scopus rating (2014): SJR 2.205 SNIP 1.538 CiteScore 3.84
Web of Science (2014): Indexed yes
BFI (2013): BFI-level 1
Scopus rating (2013): SJR 2.414 SNIP 1.646 CiteScore 4.18
ISI indexed (2013): ISI indexed yes
Web of Science (2013): Indexed yes
BFI (2012): BFI-level 1
Scopus rating (2012): SJR 2.114 SNIP 1.632 CiteScore 4.11
ISI indexed (2012): ISI indexed yes
Web of Science (2012): Indexed yes
BFI (2011): BFI-level 1
Scopus rating (2011): SJR 2.336 SNIP 1.698 CiteScore 4.27
ISI indexed (2011): ISI indexed yes
Web of Science (2011): Indexed yes
BFI (2010): BFI-level 1
Scopus rating (2010): SJR 2.303 SNIP 1.727
Web of Science (2010): Indexed yes
Brucellosis in European brown hares (Lepus europaeus) in Denmark. A reservoir for porcine brucellosis?

General information
State: Published
Organisations: National Veterinary Institute, Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research
Authors: Dietz, H. H. (Ekstern), Rattenborg, E. (Intern), Andersen, T. H. (Ekstern), Giese, S. B. (Intern)
Publication date: 1998
Event: Abstract from Wildlife Disease Conference, Madison, Wisconsin, USA, .
Main Research Area: Technical/natural sciences
Source: orbit
Source-ID: 239990
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 1998

A preliminary study on the pathogenicity of Bacillus licheniformis bacteria in immunodepressed mice
The pathogenicity of 13 strains of Bacillus licheniformis was studied in immunodepressed mice. The strains had been isolated from cases of bovine abortions (n=5), bovine feedstuffs (n=3), soil (n=1), and grain products (n=2). The origin of two strains was unknown. Groups of 10 mice were inoculated intravenously with B. licheniformis bacteria at doses from

General information
State: Published
Organisations: Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research, National Veterinary Institute
Authors: Agerholm, J. (Ekstern), Jensen, N. (Ekstern), Giese, S. B. (Intern), Jensen, H. (Ekstern)
Pages: 48-54
Publication date: 1997
Main Research Area: Technical/natural sciences

Publication Information
Crohn's sygdom og paratuberkulose

General information
State: Published
Organisations: Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research, National Veterinary Institute
Authors: Giese, S. B. (Intern), Lisby, G. (Ekstern)
Pages: 6-7
Publication date: 1997
Main Research Area: Technical/natural sciences
Cultivation of Mycobacterium paratuberculosis in Dubos broth combined with PCR

Diagnostic studies of abortion in Danish dairy herds

Distribution of serotypes, IS901 and a 40 kDa protein in Mycobacterium avium complex strains isolated from man and animals in Denmark
serotyping, ELISA specific for a 40 kDa protein, and IS901-specific PCR. Serotype analysis showed that the most frequent serotypes among human strains were serotype 4 (27%) and serotype 6 (19%), which differs from an earlier survey where serotype 1 was most prevalent. The most frequent serotypes in animals were serotype 2 (53%) and serotype 6 (13%), whereas the most prevalent serotypes among strains isolated from peat were serotype 4 (29%) and serotype 9 (18%). There was a concurrent appearance of IS901 and p40 in all strains. Only M. avium complex strains isolated from animals, and belonging to serotype 1 or serotype 2, contained the IS901/p40 markers. The different distribution of serotypes of M. avium complex strains in animals and man, and the presence of IS901/p40 exclusively in animal strains, suggests that transmission of M. avium from animals to man is not of significance in Denmark.

**General information**

State: Published
Organisations: Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research, National Veterinary Institute
Authors: Klausen, J. (Ekstern), Giese, S. B. (Intern), Fuursted, K. (Ekstern), Ahrens, P. (Intern)
Pages: 277-282
Publication date: 1997
Main Research Area: Technical/natural sciences

**Publication information**

Journal: Apmis
Volume: 105
Issue number: 4
ISSN (Print): 0903-4641
Ratings:
BFI (2018): BFI-level 1
Web of Science (2018): Indexed yes
BFI (2017): BFI-level 1
Web of Science (2017): Indexed Yes
BFI (2016): BFI-level 1
Scopus rating (2016): CiteScore 1.87
BFI (2015): BFI-level 1
Scopus rating (2015): CiteScore 1.92
BFI (2014): BFI-level 1
Scopus rating (2014): CiteScore 1.95
BFI (2013): BFI-level 1
Scopus rating (2013): CiteScore 2.07
ISI indexed (2013): ISI indexed yes
Web of Science (2013): Indexed yes
BFI (2012): BFI-level 1
Scopus rating (2012): CiteScore 2.06
ISI indexed (2012): ISI indexed yes
Web of Science (2012): Indexed yes
BFI (2011): BFI-level 1
Scopus rating (2011): CiteScore 1.97
ISI indexed (2011): ISI indexed yes
Web of Science (2011): Indexed yes
BFI (2010): BFI-level 1
Web of Science (2010): Indexed yes
BFI (2009): BFI-level 1
Web of Science (2009): Indexed yes
BFI (2008): BFI-level 1
Web of Science (2008): Indexed yes
Web of Science (2007): Indexed yes
Web of Science (2006): Indexed yes
Web of Science (2005): Indexed yes
Web of Science (2004): Indexed yes
Web of Science (2003): Indexed yes
Web of Science (2002): Indexed yes
Immunological detection of sheep experimentally infected with strains of Mycobacterium avium subspecies containing insertion sequence IS901/IS902 and a 40 kDa protein

A monoclonal antibody raised against a 40 kDa protein present in certain M. avium strains (IS901/IS902 positive) was used for developing a blocking ELISA. Sera from experimentally infected sheep were evaluated by indirect ELISA, AGID and blocking ELISA. The blocking assay proved to be highly specific for differentiation of sheep infected with different subspecies of M. avium.

General information
State: Published
Organisations: Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research, National Veterinary Institute
Authors: Klausen, J. (Intern), Perez, V. (Ekstern), Giese, S. B. (Intern), Marin, J. (Ekstern), Ahrens, P. (Intern)
Pages: 181-187
Publication date: 1997
Main Research Area: Technical/natural sciences

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Volume: 51
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BFI (2018): BFI-level 2
Web of Science (2018): Indexed yes
BFI (2017): BFI-level 2
Web of Science (2017): Indexed yes
BFI (2016): BFI-level 2
Scopus rating (2016): CiteScore 2.65 SJR 1.326 SNIP 1.208
Web of Science (2016): Indexed yes
BFI (2015): BFI-level 2
Scopus rating (2015): SJR 1.393 SNIP 1.21 CiteScore 2.56
Web of Science (2015): Indexed yes
BFI (2014): BFI-level 2
Scopus rating (2014): SJR 1.281 SNIP 1.262 CiteScore 2.54
Web of Science (2014): Indexed yes
BFI (2013): BFI-level 2
Scopus rating (2013): SJR 1.438 SNIP 1.484 CiteScore 3
ISI indexed (2013): ISI indexed yes
Web of Science (2013): Indexed yes
BFI (2012): BFI-level 2
Scopus rating (2012): SJR 1.437 SNIP 1.579 CiteScore 3.18
ISI indexed (2012): ISI indexed yes
Web of Science (2012): Indexed yes
BFI (2011): BFI-level 2
Scopus rating (2011): SJR 1.562 SNIP 1.738 CiteScore 3.27
ISI indexed (2011): ISI indexed yes
Web of Science (2011): Indexed yes
BFI (2010): BFI-level 2
Scopus rating (2010): SJR 1.371 SNIP 1.476
Web of Science (2010): Indexed yes
Ny mistanke: Kan paratuberkulose smitte mennesker

General information
State: Published
Organisations: Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research, National Veterinary Institute
Authors: Giese, S. B. (Intern), Lisby, G. (Ekstern)
Pages: 30-31
Publication date: 1997
Main Research Area: Technical/natural sciences

Publication information
Journal: Bovilogisk
Volume: 3
ISSN (Print): 0906-009X
Ratings:
ISI indexed (2013): ISI indexed no
ISI indexed (2012): ISI indexed no
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Original language: Danish
Source: orbit
Source-ID: 239985
Publication: Research › Journal article – Annual report year: 1997

Paratuberkulose

General information
Distribution of insertion sequence IS901 and a 40kD protein in Mycobacterium avium strains

**General information**
State: Published
Organisations: National Veterinary Institute, Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research, National Veterinary Institute
Authors: Ahrens, P. (Intern), Giese, S. B. (Intern), Klausen, J. (Intern), Inglis, N. (Ekstern), Fuursted, K. (Ekstern)
Number of pages: 403
Publication date: 1995

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Title of host publication: Proceedings of the 4th International Colloquium on Paratuberculosis
ISBN (Print): 0-9633043-2-1
Main Research Area: Technical/natural sciences
Source: orbit
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Publication: Research - peer-review › Article in proceedings – Annual report year: 1995

Isolation of Mycobacterium paratuberculosis using Dubos medium combined with ELISA and PCR

**General information**
State: Published
Organisations: Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research, National Veterinary Institute
Authors: Giese, S. B. (Intern), Klausen, J. (Intern), Ahrens, P. (Intern)
Number of pages: 403
Publication date: 1995

**Host publication information**
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Rapport om zoonoserisiko i danske udendørs svinehold

**General information**
State: Published
Organisations: National Veterinary Institute, Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research, Communications and Management Secretariat, National Food Institute
Publication date: 1995

**Publication information**
Two markers, IS901-IS902 and p40, identified by PCR and by using monoclonal antibodies in Mycobacterium avium strains

**General Information**

State: Published
Organisations: National Veterinary Institute, Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research
Authors: Ahrens, P. (Intern), Giese, S. B. (Intern), Klausen, J. (Intern), Inglis, N. F. (Ekstern)
Pages: 1049–1053
Publication date: 1995
Main Research Area: Technical/natural sciences

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Web of Science (2018): Indexed yes
BFI (2017): BFI-level 1
Web of Science (2017): Indexed Yes
BFI (2016): BFI-level 1
Scopus rating (2016): CiteScore 3.57 SJR 2.14 SNIP 1.417
Web of Science (2016): Indexed yes
BFI (2015): BFI-level 1
Scopus rating (2015): SJR 2.204 SNIP 1.448 CiteScore 3.56
Web of Science (2015): Indexed yes
BFI (2014): BFI-level 1
Scopus rating (2014): SJR 2.205 SNIP 1.538 CiteScore 3.84
Web of Science (2014): Indexed yes
BFI (2013): BFI-level 1
Scopus rating (2013): SJR 2.414 SNIP 1.646 CiteScore 4.18
ISI indexed (2013): ISI indexed yes
Web of Science (2013): Indexed yes
BFI (2012): BFI-level 1
Scopus rating (2012): SJR 2.114 SNIP 1.632 CiteScore 4.11
ISI indexed (2012): ISI indexed yes
Web of Science (2012): Indexed yes
BFI (2011): BFI-level 1
Scopus rating (2011): SJR 2.336 SNIP 1.698 CiteScore 4.27
ISI indexed (2011): ISI indexed yes
Web of Science (2011): Indexed yes
BFI (2010): BFI-level 1
Scopus rating (2010): SJR 2.303 SNIP 1.727
Web of Science (2010): Indexed yes
BFI (2009): BFI-level 1
Scopus rating (2009): SJR 2.173 SNIP 1.694
Web of Science (2009): Indexed yes
BFI (2008): BFI-level 1
Serovars of Mycobacterium avium Complex isolated from patients in Denmark

Danish isolates of Mycobacterium avium complex were serotyped by the use of seroagglutination. The most prevalent serovars among patients with AIDS (n = 89) were 4 and 6, while among non-AIDS patients the most prevalent serovars were 1, 6, and 4, with no major differences between those in patients with pulmonary disease (n = 65) and those in patients with lymph node infection (n = 58). The results suggest a Scandinavian distribution of serovars with a predominance of serovar 6 and fail to demonstrate any selective protection against different serovars by Mycobacterium bovis ECG vaccination.

General information
State: Published
Organisations: Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research, National Veterinary Institute
Authors: Askgaard, D. S. (Ekstern), Giese, S. B. (Intern), Thybo, S. (Ekstern), Lerche, A. (Ekstern), Bennedsen, J. (Ekstern)
Pages: 2880-2882
Publication date: 1994
Main Research Area: Technical/natural sciences

Publication information
Journal: Journal of Clinical Microbiology
Volume: 32
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Ratings:
BFI (2018): BFI-level 1
Web of Science (2018): Indexed yes
BFI (2017): BFI-level 1
Web of Science (2017): Indexed Yes
BFI (2016): BFI-level 1
Scopus rating (2016): CiteScore 3.57 SJR 2.14 SNIP 1.417
Web of Science (2016): Indexed yes
BFI (2015): BFI-level 1
Scopus rating (2015): SJR 2.204 SNIP 1.448 CiteScore 3.56
Web of Science (2015): Indexed yes
Debatindlæg om Paratuberkulose

General information
State: Published
Organisations: Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research, National Veterinary Institute
Authors: Giese, S. B. (Intern)
Publication date: 1993
Distribution of the insertion sequence IS901 and a 40kD protein antigen (p40) in strains of Mycobacterium avium ssp

General information
State: Published
Organisations: National Veterinary Institute, Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research
Authors: Ahrens, P. (Intern), Giese, S. B. (Intern), Klausen, J. (Intern), Inglis, N. (Ekstern), Fuursted, K. (Ekstern)
Publication date: 1993
Main Research Area: Technical/natural sciences
Source: orbit
Source-ID: 239976
Publication: Communication › Newspaper article – Annual report year: 1993

Identification of Actinobacillus pleuropneumoniae serotype 2 by monoclonal or polyclonal antibodies in latex agglutination tests

General information
State: Published
Organisations: Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research, National Veterinary Institute
Authors: Giese, S. B. (Intern), Stenbæk, E. (Ekstern), Nielsen, R. (Ekstern)
Pages: 223-225
Publication date: 1993
Main Research Area: Technical/natural sciences

Publication information
Journal: Acta Veterinaria Scandinavica
Volume: 34
Issue number: 2
ISSN (Print): 0044-605X
Ratings:
BFI (2018): BFI-level 1
Web of Science (2018): Indexed yes
BFI (2017): BFI-level 1
Web of Science (2017): Indexed Yes
BFI (2016): BFI-level 1
Scopus rating (2016): CiteScore 1.01 SJR 0.484 SNIP 0.775
Web of Science (2016): Indexed yes
BFI (2015): BFI-level 1
Scopus rating (2015): SJR 0.409 SNIP 1.445 CiteScore 0.98
BFI (2014): BFI-level 1
Scopus rating (2014): SJR 0.644 SNIP 1.113 CiteScore 1.54
BFI (2013): BFI-level 1
Scopus rating (2013): SJR 0.494 SNIP 1.001 CiteScore 1.41
ISI indexed (2013): ISI indexed no
Web of Science (2013): Indexed yes
Monoclonal antibodies against a 40 kD protein (p40) from Mycobacterium avium ssp silvaticum and development of a blocking ELISA

General information
State: Published
Organisations: Section for Veterinary Diagnostics, Division of Veterinary Diagnostics and Research, National Veterinary Institute
Authors: Klausen, J. P. (Ekstern), Ahrens, S. B. (Ekstern), Giese, S. B. (Intern), Inglis, N. (Ekstern), Marin, J. G. (Ekstern)
Publication date: 1993
Main Research Area: Technical/natural sciences
Source: orbit
Source-ID: 239969
Publication: Research - peer-review › Journal article – Annual report year: 1993

Serovars of Mycobacterium avium Complex isolated from patients in Denmark

General information
State: Published