

Oral presentations

Session A: Pathogenesis and immunology

15:00-17:30, Oct. 29, Mon.

Keynote presentation (JDIP award)

- 1A-O1 **Modulation of cytokine expression and lymphocyte subsets during the periparturient period in dairy cows naturally infected with *Mycobacterium avium* subsp. *paratuberculosis*.**
Elizabeth L Karcher, Donald C Beitz, Judith R Stabel

Richard Merkal Award

- 6A-O2 **Association between Two Polymorphisms in the Bovine CARD15/NOD2 Gene and Paratuberculosis Infection in Florida Dairy and Beef Cattle.**
PJ Pinedo, CD Buergelt, R. Wu, GA Donovan, JE Williams, PG Melendez, L Morel, and DO Rae

Short oral presentation

- 8A-O3 **Susceptibility to paratuberculosis is associated with functionally relevant single nucleotide polymorphisms in bovine Toll-Like Receptor 2**
Ad Koets, Hanneke Mertens, Daphne Oostenrijk, Marijke Keestra, Marije Overdijk, Peter Franken, Adrie Frijters, Victor Rutten
- 12A-O4 **Mechanisms used by MAP to impair CD40-mediated IL-12p40 and iNOS gene expression in bovine monocyte-derived macrophages**
Sandra Sommer, Christopher J Colvin, Paul M Coussens
- 15A-O5 **Immunization with a Novel Map74F Fusion Protein Protects Mice against *Mycobacterium avium* subsp. *paratuberculosis* Challenge**
Kumanan Kathaperumal, Li-Hsuen Chen, Ching-Juo Huang, Sean P. McDonough, Susan Stehman, Bruce Akey, John Huntley, Chao-Fu Chang, John Bannantine and Yung-Fu Chang
- 16A-O6 **New proposed immunopathological model for paratuberculosis in ruminants**
Maria V. Geijo, Elena Molina, Iker Sevilla, Felix Bastida,
Joseba M. Garrido, Ramon A. Juste
- 22A-O7 ***Mycobacterium paratuberculosis* Under Stress: What Can the Bacteria Do?**
Adel M. Talaat
- 33A-O8 **Biofilm and Virulence of *Mycobacterium avium* subspecies *paratuberculosis***
Chia-wei Wu, Shelly K. Schmoller, Adel M. Talaat
- 34A-O9 ***Mycobacterium avium* subsp. *paratuberculosis* enters intestinal mucosa through M cells and there is difference in the uptake across the ileal and jejunal mucosal epithelial cells in lamb**
Ponnusamy Duraisamy, Bhupendra Nath Tripathi, Sivakumar Periasamy, Amar Pal

Session B(1): Diagnostic methods and quality assurance

10:00-12:00, Oct. 30, Tue.

Keynote presentation

- 75B-O1 **Real-time PCR testing of pooled (1:5) fecal samples comparison to HEYM culture**
R.H. Whitlock, B.L. Mangold, S. McAdams, T. Fyock, R. Sweeney, Y. Schukken, J. Smith, J. Van Kessel, E. Hovingh; J. Karns, D. Wolfgang, T. Johnson.

Short oral presentation

- 43B-O2 Evaluation of Different Organism Based Methods for the Detection and Identification of *Mycobacterium avium* subspecies *paratuberculosis* from Bovine Feces**
Janet B. Payeur and Randal T. Capsel
- 42B-O3 Can the detection rate of faecal shedders of MAP be increased by optimising the time point of faecal sampling?**
Franziska Gierke, Mario Ziller, Heike Uta Köhler
- 40B-O4 Culture of *M. paratuberculosis* from Blood**
Katrina Bower, Doug Begg, Lyriisa Di Fiore, Deborah Taylor, and Richard Whittington
- 76B-O5 Nested Polymerase Chain Reaction for the Detection of *Mycobacterium avium* subspecies *paratuberculosis* in Bovine Allantoic Fluid and Fetuses.**
Claus D. Buergelt, J. Elliot Williams, Joshua H. Decker and Gilles Monif.
- 89B-O6 Proteomic Analysis for Biomarkers for Johne's Disease in Sheep Serum by SELDI-TOP Mass Spectrometry**
Ling Zhong, Deborah L. Taylor, Richard J. Whittington

Session B(2): Diagnostic methods and quality assurance 9:00-10:30, Oct. 31, Wed.

Keynote presentation

- 46B-O7 A review of diagnostic accuracies of ELISA and faecal culture in cattle**
Søren Saxmose Nielsen, Nils Toft

Short oral presentation

- 84B-O8 Results from interferon gamma testing, ELISA testing, bacteriological and pathological examination in a Norwegian goat herd with naturally acquired paratuberculosis**
Kari Røste Lybeck, Mette Valheim, Berit Djønnne, Liv Sølverød,
Nils Leine, Ingrid Olsen
- 68B-O9 Interference of intradermal tuberculin tests on the serodiagnosis of paratuberculosis in cattle.**
Renato Vargas, Carla Marassi, Walter Oelemann, Walter Lilenbaum
- 55B-O10 Development of a novel enzyme-linked immunosorbent assay for the diagnosis of Johne's disease**
Shigetoshi Eda, Yumiko Kaneko, Mary C. Scott, Adam J. Branscum
- 69B-O11 Detection of *Mycobacterium avium paratuberculosis* antibodies in bovine serum using a conductometric biosensor**
Chika C Okafor, Daniel L Grooms, Evangelyn C Alocilja
- 67B-O12 Comparative proteomic analysis of mycobacterial tuberculins and identification of *Mycobacterium avium* subspecies *paratuberculosis* antigens with diagnostic potential**
Wiebren Santema, Marije Overdijk, Judith Barends, Jeroen Krijgsveld, Victor Rutten, Ad Koets

Session C: Molecular Biology 11:00-12:30, Oct. 31, Wed.

Keynote presentation

- 95C-O1 A molecular biological approach to producing a live vaccine for paratuberculosis**
Geoffrey W de Lisle, Gabriella M. Scandurra, May Young,
Sonia M. Cavaignac, Desmond M. Collins

Short oral presentation

- 96C-O2 Techniques for allelic exchange in *Mycobacterium paratuberculosis***
Desmond M Collins, May Young
- 97C-O3 Large Sequence Polymorphisms in *Mycobacterium avium* subspecies *paratuberculosis* (MAP) vaccine strains revealed by MAPAC microarray analysis**
Tim John Bull, Richard Anthony Linedale, Nicola Dierkes,
John Hermon-Taylor, Kate Gould, Phillip Butcher, Jason Hinds
- 101C-O4 Genetic Association Study between Bovine NRAMP1 and CARD15 Genes & Infection by *M. a. paratuberculosis***
Otsanda Ruiz, Carmen Manzano, Mikel Iriondo, Joseba Garrido,
Ramon A. Juste, Andone Estonba
- 104C-O5 Draft genome sequence of an ovine *Mycobacterium avium* subspecies *paratuberculosis* isolate**
Michael L Paustian, Vivek Kapur, Srinand Sreevatsan, John P Bannantine
- 108C-O6 Survival, dormancy and the proteome of *Mycobacterium avium* subsp. *paratuberculosis* during the stress response to hypoxia and nutrient starvation**
Sanjeev Gumber, Deborah L Taylor, Ian B Marsh, Richard J Whittington

Session D: National control programs

16:00-17:30, Oct. 31, Wed.

Keynote presentation

- 113D-O1 Education for veterinarians and producers as part of the national control program.**
J McDonald, EA Horn, E Patton, MT Collins

Short oral presentation

- 121D-O2 Paratuberculosis control programme by faecal culture in cattle and other ruminants in the Czech Republic in the years 1992-2006**
Pavlik I., Parmova I., Lamka J., Rozsypalova Z., Beran V., Tesinska I., Kralik P,
Kralova A.
- 123D-O3 Results of the Dutch bulk milk quality assurance programme for paratuberculosis**
Maarten F. Weber, Gerdien van Schaik, Hilmar J. van Weering
- 129D-O4 Industry and government partnerships - an alternate model for national disease control programs.**
Lorna Citer, Nicholas Keatinge, David John Kennedy
- 117D-O5 Experimental control program for paratuberculosis in dairy cattle in the Veneto region**
Nicola Pozzato, Elisabetta Stefani, Massimo Bottazzari, Nicola Benini, Fabrizio Cestaro, Gastone Passarini, Gaddo Vicenzoni
- 131D-O6 Present approach to Johne's disease control in Japan and the feature of its incidence**
Sota Kobayashi, Toshiyuki Tsutsui, Takehisa Yamamoto,
Akiko Nishiguchi

Session E(1): Epidemiology and control strategies

9:00-10:30, Nov. 1, Thu.

Keynote presentation

- 174E-O1 Recovery in advance clinical cases of Johne's disease in naturally infected goats using a highly efficacious indigenous vaccine made from novel Indian strain of *Mycobacterium avium* subsp. *paratuberculosis* 'Bison type'**
S.V.Singh, P.K.Singh, A.V.Singh, J.S.Sohal
(This oral presentation will include the posters :No.10A, 11A, 47B, 78B 98C, 99C, 106C, 142E, 144E, 173E, 175E, and 176E)

Short oral presentation

- 132E-O2 Review of prevalences of paratuberculosis in farmed animals in Europe**
Søren Saxmose Nielsen, Nils Toft
- 138E-O3 Seroprevalence of bovine paratuberculosis in dairy cattle herds in the Mexico-U.S. border area in Baja California, Mexico.**
Sawako Hori-Oshima, Luis Armando Campos-Barba, Jose Francisco Moreno-Rosales, Tomas Benjamin Renteria-Evangelista,
Gilberto Lopez-Valencia, Alfonso De la Mora, Armando Corral-Madrid
- 148E-O4 Epidemiological survey of *Mycobacterium avium* subspecies *paratuberculosis* isolates in Europe**
Linda May, Susan Denham, Ian Heron, Lucia de Juan, Julio Alvarez, Gerald Friedrich Gerlach, Karen Dohmann, Ivo Pavlik, Marketa Kopečna, Peter Willemsen, Douwe Bakker, Virginie Thibault, Franck Biet,
Alastair Greig
- 155E-O5 In utero infection of cattle with *Mycobacterium avium* subsp. *paratuberculosis***
Richard J. Whittington, Peter A. Windsor

Session E(2): Epidemiology and control strategies 11:00-12:30, Nov. 1, Thu.

Richard Merkal Award

- 158E-O6 Bayesian methods for assessing genetic similarity and familial aggregation of paratuberculosis in beef cattle of unknown pedigree**
Jason B Osterstock, Geoffrey T Fosgate, Noah D Cohen, James N Derr, and Allen J Roussel

Short oral presentation

- 159E-O7 Effects of infection by *Mycobacterium avium paratuberculosis* on fertility of dairy cows.**
Clara Marcé, François Beaudeau, Nathalie Bareille, Henri Seegers, Christine Fourichon
- 160E-O8 Association between Johne's Disease Milk ELISA Test Result and Milk Production and Breed in Canadian Dairy Cows**
Ulrike Silvia Sorge, David Francis Kelton, William Sears
- 169E-O9 Preliminary evaluation of a field trial on the use of vaccination in dairy cattle farms with paratuberculosis**
Joseba M. Garrido, Elena Molina, Maria V. Geijo, Jose Mari Plazaola, Iker Sevilla, Ramon A. Juste
- 171E-O10 Johne's disease vaccination: a valuable tool in managing Johne's disease**
Elisabeth Patton, Barbara Knust, Darlene Konkle, Jeff Bohn, and Scott Wells

Session F: Public health 14:00-15:30, Nov. 1, Thu.

Keynote presentation

- 177F-O1 ***Mycobacterium Paratuberculosis* and Crohn's Disease: That's What Epidemiology is All about**
Eran, A. Raizman

Short oral presentation

- 178F-O2 **High prevalence of *Mycobacterium avium* subspecies *paratuberculosis* (MAP) DNA in the blood of healthy human blood donors and the effect of treatment with chronic antiMAP antibiotic therapy in patients with Inflammatory Bowel Disease (IBD).**
Juste RA, Greenstein RG, Elguezabal N, Garrido JM, Pavon A, Geijo MV, Sevilla I, Cabriada JL, Tejada A, García-Campos F, Berriatua E, Casado R, Ochotorena I, Izeta A
- 181F-O3 **Association of *Mycobacterium avium* subsp. *paratuberculosis* with Type-1 diabetes, a possible trigger**
Leonardo A Sechi, Valentina Rosu, Daniela Paccagnini, Sara Salza, Adolfo Pacifico, Niyaz Ahmed, Stefania Zanetti
- 185F-O4 **Is *M. avium* subspecies *paratuberculosis* (MAP) the cause of multiple "autoimmune" and "inflammatory" diseases in man? Inferences from the antiMAP activity of methotrexate, 6-MP, 5-ASA and thalidomide, on MAP in culture.**
Robert John Greenstein, Lyia Su, Sheldon T Brown
- 183F-O5 **The effect of chemical and physical stress factors on *Mycobacterium avium* subsp. *paratuberculosis***
Beran V, Devlieghere F, Uyttendaele M, Rajkovic A, Smigic N, Pavlik I.
- 182F-O6 **Thiopurine drugs (azathioprine and 6-mercaptopurine) inhibit *Mycobacterium paratuberculosis* growth in vitro**
Michael T. Collins, Sung-Jae Shin

Session G: Future directions 16:30-17:00, Nov. 1, Thu.

Keynote presentation

- 191G-O1 **Proposed International Guidelines for Experimental Challenge Models for Johne's Disease**
Raymond W. Sweeney, Murray E Hines II, Judith R Stabel