Tuesday June 5th. Oral. Diagnostic, Immunology and Host Response

1. Distinct mucosal immune responses in bovine jejunal and ileal Peyer's patches at twelve months post-MAP infection. Antonio Facciuolo

2. Limited adaptive immune responses of goat kids to MAP bacterin vaccination when raised in a Mycobacterium avium ssp paratuberculosis (MAP) free environment. Ad Koets

3. Failure to detect M. avium subspecies paratuberculosis by fluorescent in situ hybridization (FISH) in Johne's or Crohn's disease using a proprietary assay. Robert Greenstein

4. Diverse histopathological and microbiological findings in experimental Mycobacterium avium subspecies paratuberculosis infection in cattle. Richard Whittington

5. Prediction of the genetic susceptibility to paratuberculosis in dairy cattle using allelic combinations of five single nucleotide polymorphisms (SNPs) in CD209, SLC11A1, SP110, and TLR2 genes. María Canive

6. Early diagnosis of paratuberculosis infection using ELISAs based on the detection of host biomarkers. Rosa Casais

7. Characterizing responses of immune cell subsets from M. paratuberculosis (MAP) test positive and test negative cows from commercial herds to MAP antigen stimulation in vitro. Paul Coussens

8. Comparison of sheep, goats, and calves as infection models for Mycobacterium avium subsp. Paratuberculosis. Judith Stabel

9. Idlr facilitates mycobacterial infection-induced changes to host lipid metabolism. Matt D. Johansen

10. Effects of vaccination route on the immune response in the rabbit paratuberculosis infection model. Natalia Elguezabal

11. Isotypes characterization of the Map-specific early immune response in experimentally infected calves by immunoblot. Bárbara Fernández

12. Cytokine gene expression profiles in the blood of clinical and non-clinical sheep and goats infected with Mycobacterium avium subspecies paratuberculosis. Ganesh Gangaram Sonawane

13. Control of Johne's Disease in a New Zealand Dairy herd using Test and Culling. Frank Griffin

14. Recombinant secretary proteins based 'Cocktail ELISA' to differentiate between infected and vaccinated bovines against Mycobacterium avium subspecies paratuberculosis. Kundan Kumar Chaubey

15. Immune response induced by a local strain of Mycobacterium avium subsp. paratuberculosis in animal models. María Alejandra Colombatti Olivieri

16. MAP-specific volatile organic compound profile: a comparative analysis of three different in vitro studies. Anne Küntzel

17. Mycobacterium avium subspecies paratuberculosis and myelin basic protein specific epitopes are highly recognized by sera from patients with Neuromyelitis Optica Spectrum Disorder. Marco Bo

18. Identification of Mycobacterium avium subsp. paratuberculosis using novel antibodies targeting the cell wall lipopentapeptide L5P. Horacio Bach

19. Ex vivo vaccination with a PLGA/MPLA nanoparticle vectored a 35 kDa major membrane protein from Mycobacterium avium paratuberculosis elicits killing of intracellular bacteria by CD8 T cells. Cleverson D Souza

20. Disease state influences the presence of macrophages and Mycobacterium avium subsp. paratuberculosis in bovine intestinal tissue. Caitlin Jenvey

21. Macrophage analysis to identify functional genetic markers associated with Johne's disease. Nathalie Bissonnette

Tuesday June 5th. <u>Poster.</u> Diagnostic, Immunology and Host Response

1. Factors affecting MAP sample-to-positive ratio in the milk of Irish dairy cows. Conor Mc Aloon
2. Immuno-proteomic analysis of secretory proteins of novel 'Indian Bison Type' biotype (strain 'S 5') of Mycobacterium paratuberculosis and its diagnostic significance in domestic livestock endemic for Johne's disease. Saurabh Gupta
3. Deep transcriptomic profiling of primary bovine macrophages in cows with Johne's disease suggests a change in host lipid metabolism and a state of innate immune tolerance. Nathalie Bissonnette
4. Dietzia alteration of host response to MAP. Robert e Click
5. Design and optimization of a polyprotein for diagnosis of bovine paratuberculosis. Maria Isabel Romano.

6. Evaluation of serological tests for the detection of paratuberculosis in Italian Buffalos (Bubalus bubalis): a class latent approach. Mateo Ricchi.
7. Mammary Epithelial Cells previously Infected by Escherichia coli alters the Mycobacterium avium subsp. paratuberculosis translocation infection. David Germano Gonçalves Schwarz
8. Isolation of Mycobacterium avium subsp. paratuberculosis and confirmation of cases by nested-PCR. Masoud Haghkhah
9. Prototype of the reference standard for the quantification of Mycobacterium avium subsp. paratuberculosis by quantitative PCR in faeces. Petr Kralik
10. Sensitivity of Auramine-Rhodamine and Ziehl-Neelsen staining for Mycobacterium avium subsp. paratuberculosis detection in liquid culture from environmental fecal samples. Enrico Inama
11. Disease progression in susceptible versus resilient Mycobacterium avium subspecies paratuberculosis (MAP) infected cows. Nathalie Bissonnette
12. Cytotoxic T cells with ability to kill intracellular bacteria are elicited by antigen presenting cells pulsed with a membrane protein from Mycobacterium avium paratuberculosis. Cleverson D Souza
13. Mycobacterium complex in Indian livestock: Developing Diagnostics for resource limited areas. Rathnagiri Polavarapu
14. Evaluation of four commercial real-time PCR systems for detection of Mycobacterium avium subsp. paratuberculosis from bovine faecal sample. Giovanni Ghielmetti
15. Effect of feeding heat-treated colostrum on cell-mediated immune response to Mycobacterium avium subsp. paratuberculosis in neonatal dairy calves. Fernanda Miyagaki Shoyama
16. Transcriptional profiling of ileocecal valve and whole blood of Holstein dairy cows at different stages of Mycobacterium avium subsp. paratuberculosis (Map) infection. Marta Alonso-Hearn
17. Cost-effective Paratuberculosis management with an easy-to-use qPCR on pools of faeces to reduce re-infection pressure. Laffont Mathieu
18. Seroprevalence of paratuberculosis in goat and bovine cattle of the State of San Luis Potosi, Mexico. Sosa-Martínez Luz Elena
19. Seroprevalence of paratuberculosis in goat herds of the State of San Luis Potosí, México. Gilberto Ballesteros Rodea
20. Previous contact of goat kids with Corynebacterium pseudotuberculosis or Mycobacterium avium subsp hominisuis influences the outcome of Mycobacterium avium subsp paratuberculosis infection. Marcos Royo
21. Study on the interference of paratuberculosis vaccination on the tuberculosis eradication program in goats in Castilla y León (Spain). Miguel Fernández
22. Innovation in the diagnosis of paratuberculosis: validation of an antibody ELISA kit (BioLisa® MAP Ab, BioSellal) predictive of faecal excretion of Mycobacterium avium subsp. paratuberculosis (MAP). Pelletier Claire
23. Standardization of ELISA-P35 for diagnosis paratuberculosis from goat's milk. Alejandra Montserrat Hernández-Guerra

24. Comparison of an antigen derived from mycobacterium avium with the protoplasmal antigen of Mycobacterium avium subs. paratuberculosis (PPA-3) for the diagnosis of paratuberculosis through ELISA. Edith Maldonado Castro
25. Diagnosis of Mycobacterium avium subsp paratuberculosis in the National Center for Diagnostic Services in Animal Health (CENASA) through the ELISA technique. Rogelio Estrada Rodríguez
26. Detection of Mycobacterium avium subsp paratuberculosis through different diagnostic techniques in ungulates kept in captivity in México. Ana Laura Hernández Reyes
27. The potential of volatile organic compounds as biomarkers of paratuberculosis. Heike Koehler.
28. Detection of Mycobacterium avium subsp. Paratuberculosis in faeces and tissue of small ruminants using a non - automated liquide culture system method. Luigi De Grossi.
29. Comparison of VersaTREK system with solid Herrold's medium and PCR methods for the detection of Mycobacterium avium subsp. paratuberculosis (MAP) from buffaloes faeces. Pietrella, Gabriele
30. ELISA urea in the diagnosis of paratuberculosis: estimation of seroprevalence in some localities of Buenos Aires province, Argentina. Maria Fiorella Alvarado Pinedo
31. Pathomorphology of atrophic gut-associated lymphoid tissue in goats with Mycobacterium avium subsp. paratuberculosis (MAP) infection. Elisabeth M. Liebler-Tenorio
32. Comparison of diagnostic methods in paratuberculosis infected herd. Iva Slana
33. MAP and ZnT8 peptides induce immune responses in PBMC of T1D patients. Magdalena Niegowska
34. Comparison between two molecular genotyping methods to evaluate genetic diversity for Mycobacterium avium subsp paratuberculosis in Argentina. Brenda Vasini Rosell
35. MLVA genotyping of Mycobacterium avium subsp. paratuberculosis isolates in Argentina. Brenda Vasini Rosell
36. Development of Loop-mediated isothermal amplification (LAMP) assay for detection of Mycobacterium avium subspp. paratuberculosis infection in animals. Shivalingappa. Yamanappa. Mukartal
37. Isolation and molecular characterization of Mycobacterium avium subspecies paratuberculosis from ruminants in Karnataka. Shivalingappa. Yamanappa.Mukartal
38. Identification of bovine microRNA as potential biomarkers of early Mycobacterium avium subsp. paratuberculosis infection. Gianpiero Zamperin
39. Development of Rapid Onsite Cassette Based Serological Diagnostic Kit for Paratuberculosis. Mukta Jain
40. Field Use Skin Test Based on Type IV Hypersensitivity Using Novel Secretory Antigens for Detecting Paratuberculosis Infection. Mukta Jain
41. Deuterium tracer based cellular dynamics of tissue macrophages isolated from goat kids and adult goats in relation the pathogenesis of caprine paratuberculosis. Ad Koets
42. Detection of marker-specific immune responses in calves against a novel marked MAP parent vaccine strain. Lucy Luo

43. Systemic monocyte/macrophage changes in response to MAP infection. Kumudika de Silva
44. The potential role of Th17-like immune responses in Johne's disease positive cows. Justin L. DeKuiper
45. Cathelicidins reduce Mycobacterium avium subsp. paratuberculosis internalization in murine macrophages. Karina Cirone
46. Primary isolation rates of paratuberculosis bacilli on different solid media. Amit Kumar Singh
47. Comparison of the sensitivities and specifities of five ELISAs based on detection of host biomarkers for detection of Mycobacterium avium subsp. paratuberculosis (MAP) infection. Cristina Blanco Vázquez
48. Effect of paratuberculosis infection on welfare parameters of dairy cows. Leo Simone
49. Ubiquitous antibody responses to the polar glycolipid phosphaditylinositol mannoside (PIM) limit serological test specificity in cattle. Ad Koets
50. Evaluation of serological tests for the detection of paratuberculosis in Italian Buffalos (Bubalus bubalis): a class latent approach. Matteo Ricchi
51. Immunological evaluation of recombinant bacteriophage P35 as a vaccine in a naturally infected sheep flock. Victoria Elizabeth Castrellón Ahumada