2nd International Symposium
on
Protozoal Infections in Poultry

6/7th July 2012

to be held at:

University of Veterinary Medicine
Veterinärplatz 1
1210-Vienna, Austria
(www.vetmeduni.ac.at)
Friday 6th of July

8.00 Registration

9.30 Welcome and opening
   (S. Hammerschmid, F. Tomley and M. Hess)

   (French National Institute for Agricultural Research (INRA), Infectiology and Public Health (ISP) Unit, Nouzilly, France)

   Determining the role of an aminopeptidase expressed by the apicomplexan parasite
   *Eimeria tenella*

10.10 - 10.35 Frölich, S., Johnson, M., Entzeroth, R., Smith, N. and M. Wallach
   (The iThree institute, University of Technology Sydney, Australia)

   The spatial organisation and extraction of the wall forming bodies of *Eimeria maxima*

10.35 - 11.30 Coffee Break and Poster Session

   (Royal Veterinary College, University of London, UK)

   The molecular basis for distinct host and tissue tropisms of coccidian parasites

11.55 - 12.20 Répérand, J.M., Thomas, M., Benoit, C., Le Bihannic, P. and S. Lagarrigue
   (French Agency for Food, Environmental and Occupational Health & Safety (Anses), Research Unit VIPAC, Ploufragan, France)

   Coccidia of guinea fowl: Review of knowledge and new data concerning characteristics and pathogenicity

12.20 – 13.45 Lunch

13.45 - 14.10 Blake, D., Clark, J., Billington, K., Smith, A. and F.M. Tomley
   (Royal Veterinary College, University of London, UK)

   Transgenic *Eimeria* - Trojan parasites?
14.10 - 14.35  
**Velkers, F.C., Bouma, A., Stegeman, J.A. and M.C.M De Jong**  
(Department of Farm Animal Health, Faculty of Veterinary Medicine, Utrecht University, The Netherlands)

Transmission of a live *Eimeria acervulina* vaccine strain and protection against infection in vaccinated and contact-vaccinated broilers

14.35 - 15.00  
**Riggi, A. and L. Newmann**  
(MSD Santé animale, Beaucouzé, France)

The longer you use Paracox 5, the better results you get

15.00 - 15.25  
**Teichmann, K., Henikl, S., Reisinger, N., Giannenas, I., Tontis, D., Papadopoulos, E. and G. Schatzmayr**  
(BIOMIN Research Center, Tulln, Austria)

Development of a multistrain probiotic product to counteract coccidiosis

15.25 – 16.00  
**Coffee Break**

16.00 - 16.25  
**Bostvironnois, C.P. and K.L. Watkins**  
(Elanco Animal Health, Greenfield, USA)

Evolution of coccidian lesion around the world – Results of a global database on coccidian and intestinal lesions in broilers

16.25 - 16.50  
**Alnassan, A.A., Kotsch, M., Daugschies, A., Krüger, M. and B. Bangoura**  
(Institute of Parasitology, Centre for Infectious Diseases, Faculty of Veterinary Medicine, University of Leipzig, Germany)

Comparison of different *Eimeria* species in regard of induction of Necrotic Enteritis of chicken in a mixed infection model with *Clostridium perfringens*

16.50 - 17.15  
**Baroudi, D., Khelef, D., Goucem, R., Adjou, K. and L. Xiao**  
(École Nationale Supérieure Vétérinaire d’Alger, Algeria)

Study of the association frequencies of *Cryptosporidium* spp. with *Eimeria* spp. in chickens in some poultry farms of the region of Algiers

19.30  
**Symposium dinner at the Kunsthistorisches Museum**  
(www.khm.at)
Saturday 7th of July

9.00 - 9.25  Beckstead, R.B., Klodnicki, M., Wei, Z. and L.R. McDougald
(Department of Poultry Science, University of Georgia, Athens, USA)
Identification and evaluation of putative virulence factors in *Histomonas meleagrisid*

9.25 - 9.50  Bilic, I., Souillard, R., Jaskulska, B., Moalic, P.Y., Balaine, L.,
Léon, D., Le Bouquin, S. and M. Hess
(Clinic for Avian, Reptile and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)
Genetic analysis of *Histomonas meleagrisid* isolates demonstrates separation of the protozoa in two major clusters

9.50 - 10.15  Ter Veen, C., van der Heijden, H., Klinkenberg, D. and W.J.M. Landman
(Animal Health Service (GD) Deventer, The Netherlands)
Quantification of parasite shedding and horizontal transmission parameters in *Histomonas meleagrisid* infected turkeys

10.15 - 10.40  Souillard, R., Moalic, P.Y., Leon, D., Balaine, L., Le Bouquin, S.,
Eterradossi, N. and M. Virginie
(French Agency for Food, Environmental and Occupational Health Safety (Anses)
Ploufragan-Plouzane Laboratory, Ploufragan, France)
*Histomonas meleagrisid* Real-Time PCR detection in animal and environmental samples from ten diseased turkey flocks.

10.40 – 11.10  Coffee Break

11.10 - 11.35  Hauck, R., Balczulat, S. and H.M. Hafez
(Institute for Poultry Diseases, Free University Berlin, Germany)
Investigations on the *in vitro* culture of *Histomonas meleagrisid*

11.35 - 12.00  Ganas, P., Liebhart, D., Glösmann, M., Hess, C. and M. Hess
(Clinic for Avian, Reptile and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)
Growth of *Histomonas meleagrisid* in monoxenic cultures reveals new insights into the interaction between protozoa and bacteria
12.00 - 12.25 Repérant, E., Gordon, L., Maillot, V., Souillard, R., Michel, V. and C. Valat  
(French Agency for Food, Environmental and Occupational Health Safety (Anses)  
Ploufragan-Plouzane Laboratory, Ploufragan, France)  
Study of gut microflora in turkey flocks with Histomoniasis

12.25 – 13.45 Lunch

13.45 - 14.10 L.R. McDougald  
(Department of Poultry Science, University of Georgia, Athens, USA)  
The Practical Side of Blackhead Control

(Clinic for Avian, Reptile and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)  
Vaccination of layers against histomonosis is capable to reduce a severe drop in egg production following experimental challenge

14.35 - 15.00 Vereecken, M. and K. De Gussem  
(Huvepharma, Antwerp, Belgium)  
Experiences with histoBloc® (paromomycin sulphate) treatments during outbreaks with Histomonas meleagridis

15.00 - 15.25 Thøfner, I.C.N., Liebhart, D., Hess, M., Schou, T.W., Hess, C.,  
Ivarsen, E., Fretté, X.C., Christensen, L.P., Grevesen, K.,  
Engberg, R.M. and J.P. Christensen  
(Department of Veterinary Disease Biology, Faculty of Health and Medical Science, University of Copenhagen, Denmark)  
Antihistomonal effect of artemisinin and Artemisia annua extracts in experimentally infected chickens and turkeys

15:25 concluding remarks

15.30 End of the Symposium
Posters

Eimeria

Seemann E., Kurth Th. and R. Entzeroth  
(Institute of Zoology, TU Dresden)
Insight into the ultrastructural organisation of sporulated oocysts of *Eimeria nieschulzi*  
(Coccidia, Apicomplexa)

Pegg, E., Marugan-Hernandez, V., Macdonald, S., Crouch, C., Redhead, K., Francis, M., Blake, D. and F. Tomley  
(Department of Pathology and Infectious Diseases, Royal Veterinary College, University of London, UK)

*Eimeria* species parasites as novel anti-bacterial vaccine delivery vectors

Köstelbauer, A., Teichmann, K., and G. Schatzmayr  
(BIOMIN Research Center, Tulln, Austria)

Comparison of the *in vitro* anti-eimerial activity of four *Cinchona* alkaloids

(Department of Parasitology, University of Agriculture, Faisalabad, Pakistan)

Studies on the wheat bran polysaccharides (Arabinoyxans) for their immunostimulatory and protective effects against coccidiosis in broiler chickens

Marshall, R.N., Williams, R.B., Thebo, P. and J.A. Marshall  
(Animal Health and Veterinary Laboratories Agency (Weybridge), New Haw, Addlestone, UK)

Coccidian oocysts as type specimens: long-term storage in aqueous potassium dichromate solution preserves DNA

(Animal Health and Veterinary Laboratories Agency (Weybridge), New Haw, Addlestone, UK)

Long Term Viability of Cryopreserved *Eimeria meleagrisidis* Sporocysts

Macdonald, S., van Dieman, P., Smith, K., Stevens, M., Humphrey, T., Tomley, F. and D. Blake  
(Department of Pathology and Infectious Diseases, Royal Veterinary College, University of London, UK)

The effect of *Eimeria* co-infection on *Campylobacter* colonisation of chickens

Moftah, A.A., Chaudhry, A.S., Blake, D.P. and O.A.E. Sparagano  
(School of Agriculture, Food and Rural Development, Newcastle University)

Prevalence of coccidiosis and molecular characterization of *Eimeria* species in Libyan poultry farms
Bostvironnois, C.P. and L. Canseco
(Elanco Animal Health, UK)
Coccidiosis situation in the UK

Other protozoa or animal species

Malkwitz, I., Berndt, A., Geuthner, A.C., Daugschies, A. and B. Bangoura
(Institute of Parasitology, Centre for Infectious Diseases, Faculty of Veterinary Medicine, University of Leipzig, Germany)
Infection of primary chicken cells with Toxoplasma gondii

Worliczek, H.L., Ruttkowski, L., Schwarz, L., Eßler, S. and A. Joachim
(Institute of Parasitology, University of Veterinary Medicine Vienna, Austria)
An in vitro model of neonatal porcine coccidiosis – Isospora suis in an epithelial cell culture system

Sulejmanovic, T., Liebhart, D. and M. Hess
(Clinic for Avian, Reptile and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)
Assessing reversion to virulence and residual pathogenicity of attenuated Histomonas meleagridis in turkeys and chickens.

Amin, A., Bilic, I., Liebhart, D. and M. Hess
(Clinic for Avian, Reptile and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)
Cysteine peptidases of Trichomonas gallinae: Identification and characterization in vitro and in vivo

Alispahic, M., Amin, A. and M. Hess
(Clinic for Avian, Reptile and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)
MALDI-TOF MS proteomic phenotyping of Tetratrichomonas gallinarum and Trichomonas gallinae

Miscellaneous

(Research Institute of Bioengineering, Membranetechnology and Energetics, University of Pannonia, Hungary)
Antimicrobial compounds of entomopathogenic nematode-symbiotic bacteria as potential tools to combat polyresistance