3rd International Symposium

on

Parasite Infections in Poultry

1st – 2nd July 2016

to be held at:

University of Veterinary Medicine
Veterinärplatz 1
1210-Vienna, Austria
(http://www.vetmeduni.ac.at/International-Symposium-Parasite-Infections-Poultry-2016/)
Program: 3rd International Symposium on Parasite Infections in Poultry

Friday 1st of July

8.00 Registration

9.00 Welcome and opening
(O. Doblhoff, F.M. Tomley and M. Hess)

9.15 - 09.50 Keynote I

Vaccination and chemotherapy for sustainable control of coccidiosis in poultry
Chapman, H.D.
(University of Arkansas, Fayetteville, USA)

09.50 - 10.02 Short Oral Poster Presentations

Narasin-free broiler production in Norway: Experiences gained during the phasing out process in 2015/2016
Salling, S. and H. Köhler-Aanesen
(Merck Animal Health, Copenhagen, Denmark)

Preliminary assessment of financial losses caused by coccidiosis in broiler chicken production in Poland
Szeleszcuk, P., Doner, S., and Nerc, J.
(Faculty of Veterinary Medicine, University of Life Sciences-SGGW, Warsaw, Poland)

Utilization of plant extracts instead of chemical growth promoters and coccidiostats for broilers
Recoquillay, F., Kerros, S., Gourguechon, A., and Cadudal, B.
(Phytosynthese, Mozac, France)

Eimeria tenella as potential vaccine vehicle for viral antigens
Marugan-Herandez, V., Cockle C., Macdonald S., Pegg E., Crouch C., Blake D.P., Tomley F.M.
(The Royal Veterinary College, University of London, UK)

10.02 - 10.45 Coffee Break and Poster Session

10.45 - 11.45 Eimeria Session I

Competition between Eimeria species: practical implications for vaccination
Vereecken, M., Geerinckx, M. and De Gussem, K.
(Huvepharma NV, Antwerp, Belgium)

Dietary management of intestinal integrity in broilers on an Eimeria vaccination program
McElroy, A.P.
(Merck Animal Health, USA)

Effects of on-farm hatching on Eimeria infection dynamics
(Faculty of Veterinary Medicine, Utrecht, The Netherlands)
11.45 – 13.00 Lunch

13.00 - 13.35 Keynote II

Narasin: a unique anticoccidial for broiler production
Jeffers, T.
(Department of Animal Science, Cornell University, Ithaca, USA)

13.35 - 14.15 Eimeria Session II

In vitro Eimeria tenella infection model to replace animal experimentation in anticoccidial efficacy testing
Thabet, A., Daugschies, A. and Bangoura, B.
(Institute of Parasitology, University Leipzig, Germany)

Purification of microgametes of Eimeria acervulina and Eimeria meleagrimitis: description and applications
Répérant, J.M., Thomas-Hénaff, M., Benoit, C. and Le Bihannic, P.
(French Agency for Food, Environmental and Occupational Health & Safety (Anses), Research Unit VIPAC, Ploufragan, France)

14.15 - 14.50 Keynote III

Eimeria parasites – what’s here now, and what’s coming next?
Blake, D.P.
(Department of Pathology and Pathogen Biology, The Royal Veterinary College, University of London, UK)

14.50 - 15.20 Coffee Break

15.20 - 15.55 Keynote IV

The poultry red mite, Dermanyssus gallinae, challenges and opportunities: a review
Sparagano, O., Bartley, K., Roy, L., Mul, M., Camarda, A., Giangaspero, A., Papadopoulos, E. and Finn, R.
(Coventry University, Coventry, UK)

15.55 - 16.35 Dermanyssus Session

Poultry red mite infestation on Swiss layer farms – questionnaire on prevalence, monitoring and treatment
Meier, S., Köstli, C., Albini, S. and Hoop, R.
(Department of Poultry and Rabbit Diseases, University of Zurich, Switzerland)
Identifying antigens against *Dermanyssus gallinae*, the poultry red mite for future vaccine studies

Pritchard, J., Kuester, T., Noad, R., Kurian, O., Sparagano, O. and Tomley, F.M.
(The Royal Veterinary College, University of London, UK)

16.35 - 16.41 Short Oral Poster Presentations

Biological control of the chicken red mites in layer farms in Europe; state of the art and perspectives.
Morel, D. and Groot, T.
(Société APPI, Nantes, France)

Invasion of red mite (*Dermanyssus gallinae*) as a cause of foot self-mutilation in a laying hen flock - case report
Bobrek, K. & Gawel, A.
(Department of Epizootiology and Clinic of Bird and Exotic Animals, Faculty of Veterinary Medicine, Wroclaw University of Environmental and Life Sciences, Wroclaw, Poland)

19.00 Symposium Dinner at the Natural History Museum
(www.nhm-wien.ac.at)

Saturday 2\textsuperscript{nd} of July

09.00 - 09.35 Keynote V

Establishing a platform to record blackhead outbreaks – an initiative of the Association of Poultry Processors and Poultry Trade in the EU countries (a.v.e.c.)

Schliessnig, H.\textsuperscript{a}, Léveque, G.\textsuperscript{b}, Suppin, D.\textsuperscript{c} and Hess, M.\textsuperscript{c}
\textsuperscript{a}Austrian Poultry Health Service and Member of a.v.e.c.-board; \textsuperscript{b}Hendrix Genetics, France and \textsuperscript{c}Clinic for Poultry and Fish Medicine, Vienna, Austria

09.35 - 10.15 Histomonas Session I

Epizootic situation of histomonosis in broiler breeder and turkey flocks from selected areas of Poland and evaluation of diagnostic methods used to identify *Histomonas meleagridis*

Bobusia-Fórmania, K., Bobrek, K. and Gawel, A.
(Department of Epizootiology and Clinic of Bird and Exotic Animals, Faculty of Veterinary Medicine, Wroclaw University of Environmental and Life Sciences, Wroclaw, Poland)

Clonality of *Escherichia coli* isolates obtained from clinical outbreaks of histomonosis in layers and layer breeders

Paudel, S., Stessl, B., Hess, M. and Hess, C.
(Clinic for Poultry and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)
10.15 - 10.30  Short Oral Poster Presentations

**Histomonas meleagridis** infection in a broiler breeder flock
Dolka, B., Żbikowski, A., Dolka, I. and Szeleszczuk, P.
(Faculty of Veterinary Medicine, University of Life Sciences-SGGW, Warsaw, Poland)

Baculovirus expressed α-actinins are beneficial to improve the detection of antibodies against **Histomonas meleagridis** by ELISA
Grafl B., Bilic, I., Jaskulska, B., Feichtner F., Ganas, P., Hussain, I. and Hess M.
(Clinic for Poultry and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)

Virulent and attenuated clonal cultures of **Histomonas meleagridis** induce a different expression pattern of interferon gamma and interleukin 13 in the hosts determined by *in situ* hybridization
(Clinic for Poultry and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)

Ascaridia galli eggs harvested from host faeces or worm uteri have different embryonation abilities
Rahimian, S., Gauly, M. and Daş, G.
(Department of Animal Sciences, University of Göttingen, Germany)

Longitudinal investigation on the prevalence of gastrointestinal helminths in Austrian laying hens kept in alternative housing systems
(Clinic for Poultry and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)

10.30 - 11.15  Coffee Break and Poster Session

11.15 - 12.15  **Histomonas** Session II

Paromomycin sulphate as treatment for **Histomonas meleagridis** in broiler breeders: experiences from the field
De Gussem\textsuperscript{a}, M., Baeten\textsuperscript{a}, K., Stock, S.\textsuperscript{a}, Vereecken, M.\textsuperscript{b} and Geerinckx, M.\textsuperscript{b}
(\textsuperscript{a}Degudap, Izegem, Belgium; \textsuperscript{b}Huvepharma, Antwerp, Belgium)

Divergent cellular immune response of turkeys and chickens against **Histomonas meleagridis**
(Clinic for Poultry and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)

Long term *in vitro* passaging of **Histomonas meleagridis** coincides with morphological changes and increased tenacity of the parasite
Gruber, J., Ganas, P. and Hess, M.
(Christian Doppler Laboratory for Innovative Poultry Vaccines (IPOV), University of Veterinary Medicine Vienna, Austria)

11.45 – 13.00  Lunch
13.30 - 14.05  **Keynote VI**

**Histomonas meleagridis** - approaching the 'omics era

Bilic, I.
*(Clinic for Poultry and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)*

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14.05 - 14.40  **Keynote VII**

Parasitic diseases of game birds in Great Britain

Welchman, D.
*(APHA Winchester, Itchen Abbas, Winchester, UK)*

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14.40 - 15.40  **Nematode Session**

A highly stable, effective, and safe form of Fenbendazole (Panacur® AquaSol) for the treatment of gastrointestinal nematodes

Mozisek, B.
*(Merck Animal Health, De Soto, USA)*

**Evaluation of anthelmintic resistance in Ascaridia galli** subjected to repeated treatment with fenbendazole

Tarbiat, B., Jansson, D.S., Tydén, E., Höglund, J.
*(Department of Biomedical Sciences and Veterinary Public Health, Section for Parasitology, Swedish University of Agricultural Science, Uppsala, Sweden)*

**In vitro effect of microfungi and soil type on the survival of chicken ascarid eggs in soil**

Thapa, S., Meyling, N.V., Thamsborg, S.M., Rui, W., Jensen, B., Lekfeldt, J.D.S., Magid, J. and Mejer, H.
*(Section for Parasitology and Aquatic Diseases, Department of Veterinary Disease Biology, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark)*

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15:40 **Concluding Remarks**

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15.45  **End of the Symposium**
Additional Posters

Eimeria and Coccidiosis

Application of a new PCR-RFLP panel suggests a restricted population structure for *Eimeria tenella* in UK poultry
Pegg, E., Clark, E.L., Tomley, F.M. and Blake, D.P.
(The Royal Veterinary College, University of London, UK)

Defining the detailed structure of Eimeria sporozoites using serial block face scanning electron microscopy
Burrell, A., Vaughan, S., Marugan-Hernandez, V. and Tomley, F.M.
(The Royal Veterinary College, University of London, UK)

Acute fatale coccidiosis in young gooslings in Czech Republic
Taras, L., Stolář, P., Sládeček, V. and Skorić, M.
(Poultry praxis PTACY s.r.o; Department of Pathological Morphology and Parasitology University of Veterinary and Pharmaceutical Sciences Brno)

Nematodes

Incidence of a rare trematode (*Euamphimerus luzonicus*-like sp.) infection in the pancreatic duct of domestic chickens kept in a farmer's house in Japan
Koreeda, T. & Sato, H.
(Laboratory of Disease Diagnosis, Central Livestock Hygiene Service Center of Kagoshima Prefecture, Japan)

Survival and development of chicken ascarid eggs: a Danish experimental pasture plot study
Thapa, S., Thamsborg, S.M., Meyling, N.V., Dhakal, S. and Mejer, H.
(Section for Parasitology and Aquatic Diseases, Department of Veterinary Disease Biology, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark)

Prevalence of intestinal parasites in layer flocks kept in alternative husbandry systems at slaughter
Grafl, B., Polster S., Sulejmanovic, T., Pürrer, B., Guggenberger, B. and Hess, M.
(Clinic for Poultry and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)

*Histomonas meleagridis*

*De novo* transcriptome sequencing of *Histomonas meleagridis* sheds novel insights into the biological function and potential pathogenic mechanisms
Mazumdar, R., Endler, L., Monoyios, A., Hess, M. and Bilic, I.
(Clinic for Poultry and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)

Comparative proteome analysis of a virulent and an avirulent *Histomonas meleagridis* strain using two-dimensional electrophoresis (2-DE)
Monoyios, A., Patzl, M., Hess, M. and Bilic, I.
(Clinic for Poultry and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)

Use of paromomycin in field outbreaks of histomonosis in commercial turkey flocks in Austria
Sulejmanovic, T., Mägdefrau-Pollan, B., Sanghuber, E.M., Wiesinger, E., Liebhart, D. and Hess, M.
(Clinic for Poultry and Fish Medicine, University of Veterinary Medicine, Vienna, Austria)
Epidemiological analysis of the genetic variability of *Trichomonas gallinae* isolated from racing pigeon flocks in Poland in 2012-2015

Bobrek, K., Urbanowicz, J., Bobusia, K., Hess, M. and Gawel A.

(Department of Epizootiology and Clinic of Bird and Exotic Animals, Faculty of Veterinary Medicine, Wroclaw University of Environmental and Life Sciences, Wroclaw, Poland)
Sponsors

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