

# Scientific Program

MONDAY, AUGUST 11, 2003

8:00AM–9:00AM **Opening Ceremony**  
**WAAVP History** – Lord Soulsby  
**Room:** Napoleon BC12

9:00AM–9:45AM **Plenary 1: The Livestock Revolution.**  
**Speaker:** H. Steinfield  
**Room:** Napoleon BC12

9:45AM–10:00AM Break

10:00AM–10:45AM **Plenary 2: Control of Tsetse and Trypanosomes Using Molecular Genetics.**  
**Speaker:** S. Aksoy  
**Room:** Napoleon BC12

10:45AM–12:15PM **Workshop on organic farming and novel approaches to control of parasites.**  
**Moderators:** S.M. Thamsborg, J.E. Miller, M. Larsen, P.J. Waller  
**Room:** Napoleon BC12

## **PART A: ORGANIC FARMING AND PARASITE PROBLEMS**

**Introduction to organic farming and parasite control.**  
S.M. Thamsborg, M. Larsen

### **PIGS**

**Parasites in organic swine production in DK and options for control.**  
H. Mejer, A. Roepstorff

**A survey of parasite infections on organic, free range and conventional pig farms in the Netherlands.**

F.H.M. Borgsteede<sup>a\*</sup>, I.A.J.M. Eijck<sup>b</sup>

<sup>a</sup>Institute for Animal Science and Health (ID-Lelystad), Lelystad, the Netherlands; <sup>b</sup>Research Institute for Animal Husbandry, Lelystad, the Netherlands

### **Summary**

A. Roepstorff

## **DAIRY CATTLE**

### **Parasite control measures in organic dairy production in Sweden.**

J. Höglund

### **How to deal with lungworm infections in organic dairy cattle.**

H. Ploeger\*, M. Eysker

Division of Parasitology and Tropical Veterinary Medicine, Utrecht University, Utrecht, The Netherlands

#### **Summary**

M. Larsen

## **SHEEP AND GOATS**

### **Survey of parasites on organic sheep/dairy farms in UK.**

F. Jackson

### **Parasite problems on organic sheep/goat farms in Germany.**

C. Epe

### **Gastrointestinal nematode infections on organic goat farms in the Netherlands.**

M. Eysker<sup>a\*</sup>, N. van Eekeren<sup>b</sup>

<sup>a</sup>Division of Parasitology and Tropical Veterinary Medicine, Utrecht University, Utrecht, The Netherlands;

<sup>b</sup>Louis Bolk Institute, Driebergen, The Netherlands

### **Parasite control and production in four experimental sheep meat flocks in Auvergne (France) during conversion to organic farming.**

J. Cabaret, M. Benoit, V. Laignel

#### **Summary**

J.E. Miller

### **Gastrointestinal nematode control through direct and indirect effects of host nutrition.**

J.G.M. Houdijk\*, S. Athanasiadou, I. Kyriazakis

Animal Nutrition and Health Department, Scottish Agricultural College, Edinburgh, UK

### **Overall discussion and conclusions**

S.M. Thamsborg

## **PART B: NOVEL APPROACHES TO CONTROL OF PARASITES**

### **Introduction**

P.J. Waller

### **European experiences**

S.M. Thamsborg

**Australian/NZ experiences**

M. Knox

**African experiences**

R. Peters

**North American experiences**

J.E. Miller

**Latin American experiences**

M.B. Molento

**Asia experiences**

G. Hood

**GENERAL DISCUSSION**

10:45AM–12:15PM **SYMPOSIUM: MOLECULAR SYSTEMATICS AND DIAGNOSIS**

**Moderators:** R.B. Gasser, D.S. Zarlenga

**Room:** Maurepas

**Advances in the diagnosis and systematics of parasites of veterinary importance—  
new and exciting prospects.**

R.C.A. Thompson\*

WHO Collaborating Centre for the Molecular Epidemiology of Parasitic Infections and Western Australian Biomedical Research Institute, Division of Veterinary and Biomedical Sciences, Murdoch University, Western Australia

**Identification and classification within the genus, *Trichinella*, with special emphasis  
on non-encapsulated species.**

D.S. Zarlenga<sup>\*a</sup>, G. La Rosa<sup>b</sup>, E. Pozio<sup>b</sup>, B. Rosenthal<sup>a</sup>

<sup>a</sup>US Department of Agriculture, ARS, ANRI, Beltsville, Maryland 20705, USA; <sup>b</sup>Laboratorio di Parassitologia, Istituto Superiore di Sanita, Viale Regina Elena 299, 00161 Rome, Italy

**Filarial nematodes and *Wolbachia*: a veterinary perspective.**

C. Bandi\*, M. Mortarino, M. Casiraghi, C. Genchi

Università di Milano, DIPAV, Sezione di Patologia Generale e Parassitologia, Italy

**Mitochondrial genomics of parasitic nematodes—recent progress and implications  
for systematics and population genetics studies.**

R.B. Gasser, M. Hu, N. B. Chilton

Department of Veterinary Science, The University of Melbourne, 250 Princes Highway, Werribee, Victoria 3030, Australia

**Progress in the molecular diagnosis of cyathostomins—implications and prospects.**

J.B. Matthews, J.E. Hodgkinson

Department of Veterinary Clinical Science and Department of Veterinary Parasitology, Faculty of Veterinary Science, University of Liverpool, UK.

**Methodological advances in the characterizing the population genetics and molecular systematics of veterinary tissue cyst-forming coccidia.**

B.M. Rosenthal

Agricultural Research Service, US Dept. of Agriculture, Beltsville, MD USA.

10:45AM–12:15PM **EQUINE PARASITES**

**Moderator:** G.C. Coles

**Room:** Napoleon B3

10:45AM–11:00AM **Helminth parasites of horses in the UK: a changing scene.**

S. Jones<sup>a</sup>, S. Yue<sup>b</sup>, G.C. Coles<sup>b\*</sup>

Department of Anatomy, University of Bristol, Southwell Street, Bristol BS2 8EJ, UK;

<sup>b</sup>Department of Clinical Veterinary Science, University of Bristol, Langford House, Bristol BS40 5DU, UK

11:00AM–11:15AM **Prevalence of major gastrointestinal parasites in equids from Spanish abattoirs.**

A. Meana\*, R. Martin, A. Mateos, N.F. Pato, M. Luzón

Facultad de Veterinaria, Madrid, Spain

11:15AM–11:30AM **Safety study on pregnant mares orally treated with a combination of ivermectin praziquantel.**

P. Mercer<sup>a\*</sup>, F. Alves-Branco<sup>b</sup>, C.R. White<sup>c</sup>

<sup>a</sup>Virbac SA, Medical Dept., Carros, France; <sup>b</sup>Consultorio Medico Veterinario, Bagé, RS, Brazil, <sup>c</sup>Virbac do Brazil, Sao-Paulo, SP, Brazil

11:30AM–11:45AM **System to test products against mosquitoes infesting horses.**

A.A. Pérez de León\*

Stillmeadow, Inc., Sugar Land, Texas, USA

11:45AM–12:00PM **Reappearance of eggs in feces of horses after treatment with moxidectin and aversectin.**

O.I. Starovir\*

Schmalhausen Institute of Zoology NAS of Ukraine, 15, D. Khmelnytsky Street, Kiev—30, 01601, Ukraine

12:00PM–12:15PM **Methods of identification of the 4<sup>th</sup> stage larvae of horse strongylids to mature worms.**

V.A. Kharchenko\*

I.I. Schmalhausen Institute of Zoology of NAS of Ukraine, Kyiv, Ukraine

10:45AM–12:00PM **PROTOZOA 1**

**Moderator:** J.B. Tierney

**Room:** Napoleon A1

10:45AM–11:00AM **Development of an avian ionophore-tolerant *Eimeria* vaccine for the control of coccidiosis in chickens.**

G.Q. Li\*, S. Kanu, F.Y. Xian, S.M. Xiao

South China Agricultural University, College of Veterinary Medicine, Guangzhou 510642, P.R. China

11:00AM–11:15AM **The role of intestinal mucin on *Eimeria tenella* infection *in vitro*.**

J.B. Tierney<sup>a\*</sup>, L. Matthews<sup>b</sup>, S.D. Carrington<sup>b</sup>, G. Mulcahy<sup>a</sup>

<sup>a</sup>Department of Veterinary Microbiology & Parasitology; <sup>b</sup>Department of Veterinary Anatomy, Faculty of Veterinary Medicine and <sup>ab</sup>Conway Institute of Biomolecular and Biomedical Research, University College Dublin, Belfield Dublin 4, Ireland

11:15AM–11:30AM **Population dynamics and intra-litter transmission patterns of *Isospora suis* under on-farm farrowing conditions.**

S. Sotiraki<sup>a\*</sup>, A. Roepstorff<sup>a</sup>, K.D. Murrell<sup>a</sup>, J.P. Nielson<sup>a</sup>, C. Maddox-Hyttel<sup>b</sup>

<sup>a</sup>The Royal Veterinary & Agricultural University; <sup>b</sup>Danish Veterinary Institute, Copenhagen, Denmark

11:30AM–11:45AM **Characterization of Zimbabwean *Toxoplasma gondii* isoates with stage-specific monoclonal antibodies.**

T. Hove<sup>a\*</sup>, P. Lind<sup>b</sup>, S. Mukaratirwa<sup>a</sup>

<sup>a</sup>Paraclinical Veterinary Studies, University of Zimbabwe, P.O. Box MP167, Mount Pleasant, Harare, Zimbabwe; <sup>b</sup>Danish Veterinary Institute, Bulowsvej 27, DK-1790, Copenhagen V, Denmark

11:45AM–12:00PM **Infection of *Meriones unguiculatus* and *Cavia aperea pamparum* with *Neospora caninum* oocysts from naturally infected dogs from Argentina.**

W. Basso\*, L. Venturini, M.C. Venturini, D. Bacigalupe, J. Unzaga, A. Larsen

Parasitología y E. Parasitarias, Laboratorio de Inmunoparasitología, Facultad de Veterinaria, U.N.L.P. 60 y 118 (1900), Argentina

12:00 PM–12:15PM **First case report of dogs infected naturally with *Babesia canis vogeli* in South Africa.**

P.T. Matjila<sup>\*ab</sup>, F. Jongejan<sup>ab</sup>, B.L. Penzhorn<sup>a</sup>, C.P.J. Bekker<sup>b</sup>, A.M. Nijhof<sup>b</sup>.

<sup>a</sup>Department of Veterinary Tropical Diseases, Faculty of Veterinary Science, University of Pretoria, Private Bag x04, 0110, Onderstepoort, South Africa, <sup>b</sup>Division of Parasitology and Tropical Veterinary Medicine, Faculty of Veterinary Science, Utrecht University, The Netherlands.

10:45AM–12:15PM **WILDLIFE, AQUATIC AND AVIAN PARASITES**

**Moderator:** S. Mukaratirwa

**Room:** Napoleon A3

10:45AM–11:00AM ***Toxocara canis* in experimentally infected foxes.**

I. Saeed<sup>\*</sup>, K. Taira, C.M.O. Kapel

Danish Centre for Experimental Parasitology, Department of Veterinary Microbiology, The Royal Veterinary and Agricultural University, Dyrlægevej 100, DK-1870 Frederiksberg D, Denmark

11:00AM–11:15AM ***Pseudoloma neurophilia* (Microsporidia) and *Pseudocapillaria tomentosa* (Nematoda) in zebrafish (*Danio rerio*) hel in research facilities.**

M.L. Kent<sup>\*ab</sup>, J.M. Matthews<sup>b</sup>, J.K. Bishop-Stewart<sup>ab</sup>, J.M. Spitsbergen<sup>bc</sup>

<sup>a</sup>Center for Fish Disease Research, Department of Microbiology, 220 Nash Hall, Corvallis, Oregon 97331 USA; <sup>b</sup>Zebrafish International Resource Center 5274 University of Oregon, Eugene, Oregon 97403-5274 USA; <sup>c</sup>Department of Environmental and Molecular Toxicology, 1007 Agricultural and Life Sciences Building, Oregon State University, Corvallis, Oregon 97333 USA

11:15AM–11:30AM **Characterisation of PCR-SSCP analysis of *Benedeniines* (Monogenea: Capsalidae) from marine fish in China by rDNA sequence.**

X.Y. Wu<sup>a</sup>, A.X. Li<sup>a\*</sup>, X.J. Ding<sup>b</sup>, X.Q. Zhu<sup>c</sup>

<sup>a</sup>The School of Life Science, Zhongshan (Sun Yat-sen) University, Guangzhou, China; <sup>b</sup>Department of Biology, South China Normal University, Guangzhou, China; <sup>c</sup>College of Veterinary Medicine, South China Agricultural University, Guangzhou, China

11:30AM–11:45AM **Effect of *Tetrameres americana* (Cram, 1927) in chickens fed with high and low protein diets.**

H.B. Magwisha<sup>a\*</sup>, M. Fink<sup>b</sup>, A. Permin<sup>c</sup>, N.C. Kyvsgaard<sup>d</sup>, A.A. Kassuku<sup>a</sup>

<sup>a</sup>Department of Veterinary Microbiology and Parasitology, Sokoine University of Agriculture, P. O. Box 3019, Morogoro, Tanzania; <sup>b</sup>Department of Zoology, University of Copenhagen, Denmark; <sup>c</sup>Network of Smallholder Poultry Production, Dyrlægevej 2, The Royal Veterinary and Agricultural University, Grønnegårdsvej 5, Frederiksberg C, Denmark; and; <sup>d</sup>Department of Animal Science and Animal Health, The Royal Veterinary and Agricultural University, Grønnegårdsvej 5, Frederiksberg C, Denmark

11:45AM–12:00PM **First report of a field outbreak of the oriental eye-fluke, *Philophthalmus gralli* (Mathis & Leger, 1910), in commercially reared ostriches (*Struthio camelus*) in Zimbabwe.**

S. Mukaratirwa<sup>\*</sup>, T. Hove, Z.M. Cindzi, D.B. Maononga, M. Taruvinga, E. Matenga

Department of Paraclinical Veterinary Studies, Faculty of Veterinary Science, P. O. Box MP, 167 Mount Pleasant, Harare, Zimbabwe

12:00PM–12:15PM **Prevalence and pathology of gastrointestinal infections in poultry in Punjab state (India). B.S. Sandhu<sup>\*a</sup>, L.D. Singla<sup>b</sup>, R.S. Brar<sup>a</sup>, A.P.S. Brar<sup>a</sup>, C.K. Singh<sup>a</sup>**

<sup>a</sup>Department of Veterinary Pathology and <sup>b</sup>Parasitology, Punjab Agricultural University, Ludhiana 1412 004, India

10:45AM–12:15PM **ARTHROPODS AND ARTHROPOD-BORNE DISEASES**

**Moderator:** C. Genchi

**Room:** Napoleon A2

10:45AM–11:00AM **Characterisation of Recombinant Immunoreactive Antigens from the scab mite *Saracoptes scabiei*.**

C.V. Witzendorff<sup>a\*</sup>, H.-F. Matthes<sup>b</sup>, R. Lucius<sup>a</sup>, B. Beich<sup>a</sup>, B. Kalinna<sup>a</sup>

<sup>a</sup>Department of Molecular Parasitology, Institute for Biology, Humboldt-University, Berlin, Germany; <sup>b</sup>Louis-Pasteur, Str. 17, 14943 Luckenwalde

11:00AM–11:15AM **A PCR-based comparative survey of arthropod-transmitted infections in dogs, cats and ticks in southern France.**

S.E. Shaw<sup>a\*</sup>, F. Beugnet<sup>b</sup>, M.J. Day<sup>a</sup>, M.J. Kenny<sup>a</sup>

<sup>a</sup>University of Bristol, Langford, Somerset, UK; <sup>b</sup>Merial, Lyon, France

11:15AM–11:30AM **Biological and environmental factors affecting the survival of *Otodectes cynotis* (Acarina, Psoroptidae) off the host in natural and laboratory conditions.**

P. Milillo<sup>a\*</sup>, P. Mesto<sup>a</sup>, C. Cafarchia<sup>a</sup>, G. Capelli<sup>b</sup>, D. Otranto<sup>a</sup>

<sup>a</sup>Department of Health and Animal Welfare, Faculty of Veterinary Medicine, University of Bari, Italy; <sup>b</sup>Department of Experimental Veterinary Sciences, Faculty of Veterinary Medicine, University of Padua, Italy

11:30AM–11:45AM **Use of standardized inoculum of *Anaplasma marginale* and chemoprophylaxis to control bovine anaplasmosis.**

M.F.B. Ribeiro<sup>a</sup>, E.J. Facury-Filho<sup>b</sup>, L.M.F. Passos<sup>b\*</sup>, H.M. Saturnino<sup>b</sup>, M.A.F. Malacco<sup>c</sup>

<sup>a</sup>Department of Parasitology, Federal University of Minas Gerais State, Belo Horizonte, Brazil; <sup>b</sup>School of Veterinary Medicine, Federal University of Minas Gerais State, Belo Horizonte, Brazil; <sup>c</sup>Veterinarian

11:45AM–12:00PM **Experimental infection of dairy calves with *Borrelia burgdorferi* by exposure to field collected Ixodid ticks.**

T.L. Cyr<sup>\*</sup>

Agricultural Research Services, USDA, Animal and Natural Resources Institute, Parasite Biology, Epidemiology and Systematics Laboratory, Beltsville, MD USA

12:00PM–12:15PM **Efficacy of Selamectin sopt-on for the control of *Myobia musculi* and *Myocoptes musculus* infections in mice.**

P.J. Bourdeau<sup>\*</sup>, L. Houdre, A.M. Marchand

Ecole Nationale Veterinaire de Nantes, France

10:45AM–12:15PM **VACCINE 1**

**Moderator:** D.P. Knox

**Room:** Napoleon C3

10:45AM–11:00AM **Characterization of potentially host-protective material from *Teladorsagia circumcincta*.**

H. Craig<sup>\*</sup>, D.P. Knox, D. Redmond

Moredun Research Institute, Bush Loan, Penicuik, Midlothian, Scotland

11:00AM–11:15AM **Vaccination against the rodent intestinal nematode *Nippostrongylus brasiliensis*.**

G. Ball<sup>a\*</sup>, R.M. Maizels<sup>b</sup>, D.P. Knox<sup>a</sup>

<sup>a</sup>Moredun Research Institute, Bush Loan, Penicuik, Scotland EH26 OPZ; <sup>b</sup>ICAPD, University of Edinburgh, Kings Buildings, Edinburgh, Scotland

11:15AM–11:30AM **Validation of the protective capacity of the *Ostertagia ostertagi* ES-thiol antigens with different adjuvantia.**

P. Geldhof<sup>a</sup>, E. Claerebout<sup>a\*</sup>, I. Vercauteren<sup>a</sup>, D.P. Knox<sup>b</sup>, J. Vercruyssen<sup>a</sup>

<sup>a</sup>Laboratory of Parasitology, Faculty of Veterinary Medicine, Ghent University, Belgium; <sup>b</sup>Moredun Research Institute, Penicuik, UK

11:30AM–11:45AM **Protection in sheep using a purified cysteine protease fraction of adult *Haemonchus contortus*.**

D.P. Knox<sup>\*</sup>, D.L. Redmond, D. Pettit, W.D. Smith

Moredun Research Institute, Pentland Science Park, Bush Loan, Penicuik, Scotland, UK EH27 OPZ

11:45AM–12:00PM **Comparison of antibody isotypes and lymphocyte subsets responses in rats immunised with protein or cDNA of s-Glutathione Transferase (GST) of *Fasciola hepatica*.**

L. Jedlina-Panasiuk<sup>\*a</sup>, H. Wedrychowicz<sup>ab</sup>

<sup>a</sup>W. Stefanski Institute of Parasitology PAS; <sup>b</sup>Warsaw Agricultural University, Poland

12:00PM–12:15PM **A field-trial of an experimental recombinant vaccine for the control of *Fasciola hepatica* infection in sheep.**

J. Fanning<sup>a</sup>, J. P. Dalton<sup>bd</sup>, S. Hanrahan<sup>c</sup>, B. Good<sup>c</sup>, G. Mulcahy<sup>\*ad</sup>

<sup>a</sup>Department of Veterinary Microbiology and Parasitology and Conway Institute, University College, Dublin, Ireland; <sup>b</sup>School of Viotechnology, Dublin City University, Dublin 9, Ireland; <sup>c</sup>Teagasc Sheep Research Centre, Athenry, Co. Galway, Ireland; <sup>d</sup>Ildana Biotechnology, Dublin, Ireland

12:15PM–1:30PM **LUNCH: ON YOUR OWN**

1:30PM–3:00PM **Workshop: Organic Farming and Novel Approaches to Parasite Control (*Continued*)**

**Moderators:** S. Thamsborg, J.E. Miller, M. Larsen, P.J. Waller

**Room:** Napoleon BC12

1:30PM–3:00PM **SYMPOSIUM: MOLECULAR SYSTEMATICS AND DIAGNOSIS (*CONTINUED*)**

**Moderators:** R.B. Gasser, D.S. Zarlenga

**Room:** Maurepas

1:30PM–3:00PM **SYMPOSIUM: DONKEYS: HERO OR VILLAIN OF THE PARASITE WORLD? PAST, PRESENT AND FUTURE**

**Moderators:** E. Svendsen, A.F. Trawford

**Room:** Napoleon B3

**The value of donkeys (*Equus assinus*) in parasitology.**

A.F. Trawford\*, C.J. Morriss

The Donkey Sanctuary, Sidmouth, Devon, EX10 0NU, UK

**Experiences with field studies on parasites in donkeys.**

M.V.Z. Aline S. de Aluja\*

Programme “Donkey Sanctuary—International League for the Protection of Horses—National Autonomous University of Mexico (DS-ILPH-UNAM)”, School of Veterinary Medicine, Circuito Exterior S/N, Ciudad Universitaria, CP 04510 México

***Rhinoestrus usbekistanikus* (Gan 1947): its prevalence and pathological effect in donkeys.**

Ph. Dorchies<sup>a\*</sup>, F. Gebreab<sup>b</sup>, L.J. Pangui<sup>c</sup>

<sup>a</sup>Ecole Nationale Vétérinaire, Toulouse, France; <sup>b</sup>Veterinary Faculty, Debre Zeit, Ethiopia; <sup>c</sup>Ecole Inter Etats des Sciences et Médecine Vétérinaires, Dakar, Sénégal

**Best practice worm management for equids in Africa.**

R.C. Krecek\*

P.O. Box 12832, Onderstepoort 0110, South Africa

1:30PM–2:45PM      **DIAGNOSIS OF PARASITIC INFECTIONS**

**Moderators:** D. Strauss-Ayali

**Room:** Napoleon A1

1:30PM–1:45PM      **Non-invasive PCR for the detection of *Leishmania infantum* infection in dogs.**

D. Strauss-Ayali<sup>ab\*</sup>, C.L. Jaffe<sup>b</sup>, O. Burshtain<sup>a</sup>, L. Schnur<sup>b</sup>, G. Baneth<sup>a</sup>  
<sup>a</sup>Koret School of Veterinary Medicine; <sup>b</sup>Kuvin Center for the Study of Tropical and Infectious Diseases, The Hebrew University of Jerusalem, Israel

1:45PM–2:00PM      **Identification of *Habronema microstoma* and *Habronema muscae* (Spirurida, Habronematidae) by a specific PCR-based assay using markers in the ITS2 rDNA and its implications.**

A. Giangaspero, D. Traversa<sup>\*</sup>, P. Galli, B. Paoletti  
University of Teramo, Italy

2:00PM–2:15PM      **Photography and staining techniques for helminth specimens, particularly with “Carmin staining and acetic-acid treatment.”**

N. Taira<sup>a\*</sup>, Y. Ando<sup>a</sup>, S. Ura<sup>b</sup>, K. Taira<sup>c</sup>, J.C. Williams<sup>d</sup>  
<sup>a</sup>National Institute of Animal Health, Japan; <sup>b</sup>Kyodoken Institute, Kyoto, Japan; <sup>c</sup>The Royal Veterinary and Agricultural University, Frederiksberg, Denmark; <sup>d</sup>Louisiana State University, Baton Rouge, LA USA

2:15PM–2:30PM      **Detection of circulating immune complexes (CIC) of trypanosomosis suspected cattle and buffaloes of Haryana (India) using sandwich-ELISA.**

L. Jeyabal<sup>\*</sup>, S.S. Chaudry, K. Devender, C.C.S. Haryana  
Agricultural University, Hisar, India

2:30PM–2:45PM      **Detecting the antigen-antibody reactions of *Fasciola gigantica* by using electrochemical immunosensor.**

C. Han-Zhong<sup>ab</sup>, J. Jin-Shu<sup>a\*</sup>  
<sup>a</sup>College of Veterinary Medicine, China Agricultural University, Beijing 100094, P.R. China; <sup>b</sup>College of Animal Science and Technology, Guangxi University, Nanning 530005, P.R. China

1:30PM–3:00PM **ZOONOSIS 1**

**Moderator:** A. Cruz-Reyes

**Room:** Napoleon C3

1:30PM–1:45PM **Detection of *Cryptosporidium parvum* in polluted stream water.**

J.A. Higgins<sup>\*a</sup>, K. Belt<sup>b</sup>, C. Hohn<sup>a</sup>, D. Shelton<sup>a</sup>

<sup>a</sup>USDA-ARS, Beltsville, MD USA; <sup>b</sup>US Forest Service, Catonsville, MD USA

1:45PM–2:00PM ***Giardia* spp. and *Cryptosporidium* spp. in clams (*Chamelea gallina*) of the Adriatic coast (Italy).**

A. Giangaspero<sup>\*a</sup>, U. Molini<sup>a</sup>, R. Iorio<sup>a</sup>, D. Nardinocci<sup>a</sup>, D. Traversa<sup>a</sup>, C. Giansante<sup>b</sup>

<sup>a</sup>University of Teramo, Italy; <sup>b</sup>Istituto Zooprofilattico dell'Abruzzo e del Molise, Teramo, Italy

2:00PM–2:15PM **Host cell tropism underlies species restriction of human and bovine genotypes of *Cryptosporidium parvum* genotypes.**

A. Hashim<sup>\*</sup>, M. Clyne. B. Bourke, G. Mulcahy

Paediatrics Dept. and Dept. of Microbiology and Parasitology, University College, The Children's Research Centre, Dublin 12, Ireland

2:15PM–2:30PM **Humans, dogs and parasite zoonoses—unravelling the relationships in a remote endemic community in northeast India using molecular tools.**

R.J. Traub<sup>\*a</sup>, I.D. Robertson<sup>a</sup>, P. Irwin<sup>a</sup>, N. Mencke<sup>b</sup>, P. Monis<sup>c</sup>, R.C.A. Thompson<sup>a</sup>

<sup>a</sup>School of Veterinary and Biomedical Sciences, Murdoch University, Western Australia; <sup>b</sup>Bayer AG, BHC-Business Group Animal Health, Leverkusen, Germany; <sup>c</sup>Australian Water Quality Centre, Bolivar, South Australia

2:30PM–2:45PM **Current situation of Chagas' disease in Mexico.**

A. Cruz-Reyes<sup>\*a</sup>, J.M. Pickering<sup>a</sup>, J.B. Malone<sup>b</sup>, L. Chias<sup>a</sup>

<sup>a</sup>Instituto de Biología, Universidad Nacional Autónoma de México, México;

<sup>b</sup>Pathobiological Sciences, Louisiana State University, Baton Rouge, LA 70803 USA

2:45PM–3:00PM **Congenital Transmission of *Schistosoma japonicum*.**

Q. Baozhen<sup>\*</sup>

Institute of Bioengineering, Zhejiang Academy of Medical Sciences, Hangzhou, Zhejiang 310013 China

1:30PM–3:00PM **NEMATODE MOLECULAR BIOLOGY**

**Moderator:** J.B. Matthews

**Room:** Napoleon A2

1:30PM–1:45PM ***Caenorhabditis elegans* as a surrogate expression system to study parasite transcription factor function.**

J. Gilleard<sup>\*</sup>, A. Couithier, P. McGarr, J. Smith

Dept. of Veterinary Parasitology, Faculty of Veterinary medicine, University of Glasgow, UK

1:45PM–2:00PM **RNAi to study post-embryonic GATA factor function in *Caenorhabditis elegans*: a model for parasitic nematodes?**

J. Smith<sup>\*</sup>, P. McGarr, J. Gilleard

Dept. of Veterinary Parasitology, University of Glasgow, UK

2:00PM–2:15PM **Isolation of carbonic anhydrase during exsheathment of *Ostertagia ostertagi* infective third-stage larvae.**

A.A. DeRosa<sup>\*ab</sup>, S.R. Chirgwin<sup>b</sup>, J.C. Williams<sup>a</sup>, T.R. Klei<sup>ab</sup>

<sup>a</sup>Louisiana State University, Agricultural Experiment Station, Baton Rouge, LA USA;

<sup>b</sup>Louisiana State University, School of Veterinary Medicine, Baton Rouge, LA USA

2:15PM–2:30PM **Antioxidant enzyme systems in *Haemonchus contortus*: cDNA cloning of antioxidant genes, and role of enzyme induction in protection against oxidative stress.**

A.C. Kotze<sup>\*</sup>, N.H. Bagnall

CSIRO Livestock Industries, Queensland Bioscience Precinct, St. Lucia, QLD 4068, Australia

2:30PM–2:45PM **Cloning and expression of acetylcholinesterase genes from *Dictyocaulus viviparus*.**

J.B. Matthews<sup>\*a</sup>, O. Lazari<sup>a</sup>, A.S. Hussain<sup>b</sup>, M.E. Selkirk<sup>b</sup>

<sup>a</sup>Department of Veterinary Clinical Science, University of Liverpool, South Wirral, UK;

<sup>b</sup>Department of Biochemistry, Imperial College, London, UK

2:45PM–3:00PM **Cloning and characterization of a TGF- $\beta$  homologue within populations of *Ascaris suum* 4<sup>th</sup> Stage larvae (L4): regulated transcription and multiple splicing differentiate L4 in the jejunum and ileum during spontaneous cure.**

D.S. Zarlenga<sup>\*a</sup>, M. Morimoto<sup>b</sup>, J.F. Urban, Jr.<sup>b</sup>, J.P. McCarter<sup>c</sup>

<sup>a</sup>USDA-ARS Immunology and Disease Resistance Lab, ANRI; <sup>b</sup>Nutrient Requirements and Functions Lab, BHNRC, Beltsville, MD 20705 USA; <sup>c</sup>Washington University School of Medicine, St. Louis, MO USA

1:30PM–2:45PM **HOST RESPONSE/IMMUNITY 1**

**Moderator:** J.H. Hoglund

**Room:** Napoleon A3

1:30PM–1:45PM **Assessing the benefit of the immune response toward *Trichostrongylus colubriformis* in sheep.**

A.W. Greer<sup>\*</sup>, M. Stankiewicz, A.R. Sykes

Animal and Food Sciences Division, Lincoln University, New Zealand

1:45PM–2:00PM **Eprinomectin treatment of lungworms in early patency and its influence on development of immunity in young cattle.**

J.H. Hoglund<sup>\*a</sup>, C.G. Nheim<sup>b</sup>, S. Alenius<sup>b</sup>

<sup>a</sup>Department of Parasitology (SWEPAR), National Veterinary Institute and Swedish University of Agricultural Sciences, Uppsala, Sweden; <sup>b</sup>Department of Ruminant Medicine and Veterinary Epidemiology, Swedish University of Agricultural Sciences, Uppsala, Sweden

2:00PM–2:15PM **Canine demodicosis—A pathological study.**

R. Khanna<sup>\*</sup>, H. Dadhich

Department of Veterinary Pathology, College of Veterinary and Animal Science, Rajasthan Agricultural University, Bikaner 334001 (Rajasthan) India

2:15PM–2:30PM **Clinical, Histopathological and immunological aspects of *Neosporosis* in experimentally infected dogs.**

S. Lasri<sup>\*</sup>, C. Rettigner, K. Onclin, F. De Meerschman, C. Focant, B. Mignon, J. Versteegen, B. Losson

Faculty of Veterinary Medicine, University of Liège, Liège, Belgium

2:30PM–2:45PM **Pathological observations on canine sarcopticosis.**

H. Dadhich<sup>\*</sup>, R. Khanna

Department of Veterinary Pathology, College of Veterinary and Animal Science, Rajasthan Agricultural University, Bikaner 334001 (Rajasthan) India

3:00PM–3:15PM Break

3:15PM–4:15PM **HOST/PARASITE GENETICS 1**

**Moderator:** G. von Samson-Himmelstjerna

**Room:** Napoleon A3

3:15PM–3:30PM **Pyrosequencing analysis identifies discrete populations of *Haemonchus* from small ruminants.**

K. Troell<sup>\*</sup>, J.G. Mattsson, J. Höglund

Department of Parasitology (SWEPAR), Swedish University of Agricultural Sciences and The National Veterinary Institute, Uppsala, Sweden

- 3:30PM–3:45PM **Genes involved in hypobiosis in bovine lungworm.**  
C. Strube\*, G. von Samson-Himmelstjerna  
Thomas Schnieder Institute for Parasitology, Hannover School of Veterinary Medicine, Germany
- 3:45PM–4:00PM **Gene expression patterns in the sheep gastrointestinal nematodes, *Haemonchus* and *Teladorsagia*.**  
P.J. Skuce<sup>a\*</sup>, R.H. Somepalli<sup>b</sup>, J. Parkinson<sup>c</sup>, M. Blaxter<sup>c</sup>, D.P. Knox<sup>a</sup>  
<sup>a</sup>Moredun Research Institute, Edinburgh, UK; <sup>b</sup>Abertay University, Dundee, UK; <sup>c</sup>University of Edinburgh, UK
- 4:00PM–4:15PM **Development of population genetic tools for the parasitic nematode *Teladorsagia (Ostertagia) circumcinta*.**  
V. Grillo\*<sup>a</sup>, F.Jackson<sup>b</sup>, J.S. Gilleard<sup>a</sup>  
<sup>a</sup>Department Veterinary Parasitology, University of Glasgow, Glasgow, G61 1QH; <sup>b</sup>Moredun Institute, Edinburgh, Scotland
- 3:15PM–4:15PM **PROTOZOA 2**  
**Moderator:** G. Baneth  
**Room:** Napoleon A2
- 3:15PM–3:30PM **Molecular detection of equine babesia DNA in vector ticks.**  
B. Battsetseg<sup>a\*</sup>, X. Xuan<sup>a</sup>, N. Inoue<sup>a</sup>, B. Byambaa<sup>b</sup>, B. Battur<sup>b</sup>, D. Boldbaatar<sup>b</sup>, I. Igarashi<sup>a</sup>, H. Nagasawa<sup>a</sup>, J. Fujisaki<sup>a</sup>  
<sup>a</sup>National Research Center for Protozoan Diseases, Obihiro University, Japan; <sup>b</sup>Institute of Veterinary Medicine, Mongolia
- 3:30PM–3:45PM **Investigation of the life cycle of *Hepatozoon canis* in the dog and tick *Rhipicephalus sanguineus*.**  
G. Baneth<sup>a\*</sup>, V. Shkap<sup>b</sup>, M. Samish<sup>b</sup>  
<sup>a</sup>School of Veterinary Medicine, The Hebrew University of Jerusalem, Israel; <sup>b</sup>Division of Parasitology, Kimron Veterinary Institute, Israel
- 3:45PM–4:00PM **Clinico-therapeutic studies in theileriosis in crossbred cattle of thar in India.**  
A.P. Singh\*, A.K. Gahlot  
Department of Clinical Veterinary Medicine, Ethics and Jurisprudence, College of Veterinary and Animal Science, Bikaner 334001, Raj, India
- 4:00PM–4:15PM **Canine trypanosomosis due to *Trypanosoma evansi*: clinical studies.**  
G.S. Aulakh\*, L.D. Singla, A.C. Sood, S. Kumar, H. Paul, J. Singh  
Punjab Agricultural University, Ludhiana 141004, IVRI, Izatnagar, India

3:15PM–4:15PM      **CHEMOTHERAPY 1/FELINE**

**Moderator:** R.G. Arther

**Room:** Napoleon B3

3:15PM–3:30PM      **The Efficacy of two anthelmintics against ascarids and hookworms in naturally infected cats.**

D.G. Catton<sup>\*</sup>, P.C. van Schalkwyk.

P. C. Veterinary Consultants, P. O. Box 1247, Rivonia 2128, Republic of South Africa

3:30PM–3:45PM      **Imidacloprid + moxidectin topical solution as a monthly treatment of prevention of heartworm infection (*Dirofilaria immitis*) and control of fleas (*Ctenocephalides felis*) on cats.**

R.G. Arther<sup>\*a</sup>, D.D. Bowman<sup>b</sup>, J.W. McCall<sup>c</sup>, O. Hensen<sup>d</sup>, D.R. Young<sup>e</sup>

<sup>a</sup>Bayer HealthCare, Shawnee Mission, Kansas, USA; <sup>b</sup>CHK, Stanwood, Michigan, USA;

<sup>c</sup>TRS Athens, Georgia, USA; <sup>d</sup>Bayer A, Monheim, Germany; <sup>e</sup>YVRS, Turlock, California, USA

3:45PM–4:00PM      **The anthelmintic efficacy and the safety of a combination of imidacloprid and moxidectin spot-on in cats and dogs under field conditions in Europe.**

K. Hellmann<sup>a</sup>, T. Knoppe<sup>a</sup>, I. Radeloff<sup>a</sup>, J. Heine<sup>b\*</sup>

<sup>a</sup>Klifovet AG, Munich, Germany; <sup>b</sup>Bayer AG, BHC, AH RD Parasiticides, Leverkusen, Germany

4:00PM–4:15PM      **The activity of selamectin (Revolution<sup>®</sup>) and imidacloprid (Advantage<sup>®</sup>) against cat flea (*Ctenocephalides felis*) in carpeting.**

V. Cracknell<sup>a</sup>, P. Doherty<sup>b</sup>, M. Murphy<sup>b</sup>, T. McTier<sup>\*c</sup>, N. Evans<sup>d</sup>

<sup>a</sup>Pfizer Animal Health Group (PAHG), Sandwich, UK; <sup>b</sup>RBK House, Irishtown, Athlone, Co. West Meath, Ireland; <sup>c</sup>Pfizer Inc. PAHG, Croton, CT USA; <sup>d</sup>Pfizer Inc. PAHG, New York, NY USA

3:15PM–4:15PM      **HOST RESPONSE/IMMUNITY 2**

**Moderator:** J. Poot

**Room:** Napoleon C3

3:15PM–3:30PM      **Studies on the antigenicity of invariant surface proteins of *Trypanosoma evansi*.**

J. Cai<sup>a\*</sup>, Z. Wang<sup>b</sup>, Y. Shen<sup>b</sup>

<sup>a</sup>Laboratory of Veterinary Parasitology, Institute of Veterinary Science, Guangdong Academy of Agricultural Sciences, Guangzhou 510640, China; <sup>b</sup>Department of Veterinary Parasitology, School of Veterinary Science, Nanjing Agricultural University, Nanjing 210095, China

3:30PM–3:45PM      **Optimization of a *Leishmania infantum* challenge model in hamsters.**

J. Poot<sup>\*a</sup>, E.M. Kuhn<sup>a</sup>, H. Denise<sup>b</sup>, J.C. Mottram<sup>b</sup>, G.H. Coombs<sup>b</sup>, A.N. Vermeulen<sup>a</sup>

<sup>a</sup>Intervet International BV, Boxmeer The Netherlands; <sup>b</sup>University of Glasgow, Glasgow, UK

3:45PM–4:00PM **Sheep scab: Immunosuppression with Cyclosporin A reduces mite numbers and lesion area.**  
J.F. Huntley<sup>\*a</sup>, A. Van den Broek<sup>a</sup>, W.D. Smith<sup>a</sup>, D. Pettit<sup>a</sup>, J. Machell<sup>a</sup>, A. Mackellar<sup>a</sup>, L. Neikle<sup>a</sup>, B.B. Thind<sup>b</sup>, H.L. Ford<sup>b</sup>, M. Taylor<sup>b</sup>  
<sup>a</sup>Moredun Research Institute, Edinburgh, Scotland; <sup>b</sup>Central Science Laboratory, York, England

4:00PM–4:15PM **The reactivation of *Neospora caninum* chronic infection in pregnant mice.**  
C. Rettigner<sup>\*</sup>, F. DeMeerschman, C. Focant, B. Losson  
Laboratory of Parasitology and Pathology of Parasitic Disease, Faculty of Veterinary Medicine, Department of Infectious Parasitic Diseases, University of Liège, Boulevard de Colonster, 20, 4000, Liège, Belgium

3:15PM–4:00PM **CHEMOTHERAPY 2/ECTOPARASITES**  
**Moderator:** L. Cramer  
**Room:** Maurepas

3:15PM–3:30PM **Efficacy of FRONTLINE<sup>®</sup> Plus (fipronil/(S)-methoprene) for cats against developing stages and adult fleas (*C.felis*).**  
P.C. Jeannin<sup>a</sup>, S.E. Green<sup>b\*</sup>, A. Boeckh<sup>b</sup>  
<sup>a</sup>Merial France; <sup>b</sup>Merial USA

3:30PM–3:45PM **Study to compare the efficacy and safety of FRONTLINE<sup>®</sup> Plus (fipronil/(S)-methoprene) and FRONTLINE<sup>®</sup> Spot-On ticks in dogs under field conditions in Japan.**  
Y. Yamane<sup>a</sup>, K. Takashima<sup>a</sup>, G. Kinoshita<sup>b</sup>, T. Nagata<sup>b</sup>, A. Boeckh<sup>c</sup>, L. Cramer<sup>c\*</sup>  
<sup>a</sup>Animal Research Foundation, Japan; <sup>b</sup>Merial Japan; <sup>c</sup>Merial USA

3:45PM–4:00PM **Efficacy of FRONTLINE<sup>®</sup> Plus (fipronil/(S)- methoprene) for dogs against developing stages and adult fleas (*C. felis*).**  
D.Young<sup>a</sup>, P.C. Jeannin<sup>b</sup>, A. Boeckh<sup>c\*</sup>, M. Soll<sup>c</sup>  
<sup>a</sup>Young Veterinary Research Services, CA USA; <sup>b</sup>Merial France; <sup>c</sup>Merial USA

4:15PM–5:45PM **NOVARTIS SYMPOSIUM: NONCOMPLIANCE IN PARASITE CONTROL.**  
**Moderator:** D.G. Stansfield, Novartis Animal Health  
**Room:** Napoleon BC12

**What you don't know can hurt you.**

B. Blagburn  
Auburn University

**Liability Costs Associated with Noncompliance.**

C.A. LaCroix

5:45PM–6:00PM     **BAYER RESEARCH AWARD**

**Room:** Napoleon BC12

6:00PM–7:30PM     **BAYER ANIMAL HEALTH SYMPOSIUM: PETS, PARASITES, PRODUCT SOLUTIONS**

**Moderator:** B. Blagburn

**Room:** Napoleon BC12

**Evaluation of a combination containing imidacloprid and permethrin for prevention of *Borrelia burgdorferi* transmission from black-legged ticks (*Ixodes scapularis*) to *Borrelia burgdorferi*-free dogs.**

B.L. Blagburn\*, J.A. Spencer , J.M. Butler, C.C. Dykstra, K.C. Stafford, M.B. Pough, S.A.Levy , D.L. Bledsoe

**Repellent efficacy of a combination containing imidacloprid and permethrin against the sand fly *Phlebotomus papatasi* on dogs.**

P. Volf, V. Volf, D. Stanneck, N. Mencke\*

**Evaluation of the efficacy of an Imidacloprid 10% / Moxidectin 1% Spot-on against *Otodectes cynotis* in cats.**

L.J. Fourie\*, D.J. Kok, J. Heine

**Larvicidal and adulticidal efficacy of an imidacloprid and moxidectin topical formulation against endoparasites in cats and dogs.**

G. von Samson-Himmelstjerna\*, C. Epe, A. Schimmel, J. Heine

7:45PM–8:00PM     **MARCH TO BAYER RECEPTION** — Hotel Lobby

8:00PM–     **BAYER RECEPTION** —Aquarium of the Americas

TUESDAY, AUGUST 12, 2003

7:30AM–8:45PM POSTER SESSION 1—CONTINENTAL BREAKFAST

Room: Armstrong

Posters will be exhibited Tuesday and Wednesday. Odd numbered posters will be tended by authors on Tuesday. Even numbered posters will be tended by authors on Wednesday. Note – When referring to poster abstracts, they are listed in alphabetical order by the presenter (\*).

- 1. Comparative resistance to *Haemonchus* parasites and efficiency of Red Maasai and Dorper sheep in a sub-humid and a semi-arid environment in Kenya.**  
J.M. Mugambi<sup>a\*</sup>, R.L. Baker<sup>a</sup>, J.O. Audho<sup>a</sup>, A.B. Carles<sup>b</sup>, W. Thorpe<sup>a</sup>  
<sup>a</sup>International Livestock Research Institute (ILRI), P.O. Box 30709, Nairobi, Kenya; <sup>b</sup>P.O. Box 23220, Nairobi, Kenya
- 2. Characterization of microneme-rhoptry associated protein of *Theileria orientalis*.**  
J.-Y. Kim\*, N. Yokoyama, S. Kumar, N. Inoue, K. Fujisaki, C. Sugimoto  
National Research Center for Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Japan
- 3. Responses of West African Dwarf goats to abbreviated escalating infections with *Haemonchus contortus*.**  
B.B. Faka<sup>a\*</sup>, S.N. Chiejina<sup>a</sup>, G.A. Musongong<sup>b</sup>, L.A. Ngongeh<sup>a</sup>, J.M. Behnke<sup>c</sup>, D. Wakelin<sup>c</sup>  
<sup>a</sup>Faculty of Veterinary Medicine, University of Nigeria, Nsukka, Nigeria; <sup>b</sup>Wakwa Regional Centre for Agricultural Research for Development, Ngaoundere, Cameroon; <sup>c</sup>School of Life and Environmental Sciences, University of Nottingham, Nottingham NG7 2RD, UK
- 4. Morphological identification of *Rhinoestrus purpureus* vs. *Rhinoestrus usbekistanicus* nasal bot flies of horses: more doubts than evidences.**  
D. Otranto\*, P. Milillo, R. Lia  
Department of Animal Health and Welfare, Faculty of Veterinary Medicine, University of Bari, Italy
- 5. Echinococcosis in Sardinia (Italy).**  
A. Varcasia<sup>a</sup>, R. Malgor<sup>b</sup>, G. Poglayen<sup>c</sup>, G. Garippa<sup>a</sup>, A. Scala<sup>a\*</sup>  
<sup>a</sup>Dipartimento di Biologia Animale, Sezione di Parassitologia e Malattie Parassitarie, Università di Sassari, Italy; <sup>b</sup>Unidad de Biología Parassitaria, Facultad de Ciencias, Montevideo, Uruguay; <sup>c</sup>Università degli Studi di Messina, Italy
- 6. Effect of worm burdens in goats on the livelihoods of smallholder farmers.**  
G.M. Hood<sup>a\*</sup>, A.M.P. Alo<sup>b</sup>  
<sup>a</sup>International Livestock Research Institute, Los Baños, Philippines; <sup>b</sup>Philippine Council for Agriculture, Forestry and Natural Resources Research and Development, Los Baños, Philippines

7. **Treatment of cattle with an abamectin pour on had no adverse effect on dung beetle populations in Australia.**  
P.J. Martin<sup>a\*</sup>, M. Friend<sup>b</sup>, L. Lawrence<sup>a\*</sup>  
<sup>a</sup>Virbac (Australia) Pty Limited, Locked Bag 1000, Peakhurst NSW 2210; <sup>b</sup>Veterinary Health Research Pty Ltd Trevenna Rd, West Armidale NSW, 2350, Australia
8. **Effect of three levels of artificial *Haemonchus contortus* infection on the pathophysiology and worm populations of Criollo kids in Yucatan, Mexico.**  
A.J. Aguilar-Caballero\*, J.F. Torres-Acosta, H. Hoste, C. Sandoval-Castro, M. May-Martínez  
Facultad de Medicina Veterinaria y Zootecnia, Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico
9. **Ocurrence of *Thelazia callipaeda* (Spirurida, Thelaziidae) in dogs in the Basilicata region (Southern, Italy): an epidemiological puzzle?**  
D. Otranto, R. Lia, N. Leone\*, P. Milillo  
Department of Animal Health and Welfare, Faculty of Veterinary Medicine, University of Bari, Italy
10. **Ticks, tick-borne pathogens and maps: the challenge of forecasting habitat suitability for stable populations.**  
A. Estrada-Peña\*  
Dept. of Parasitology, Veterinary Faculty, Miguel Servet 177. 50013-Zaragoza, Spain
11. ***Echinococcus multilocularis* in Wallonia (Southern Belgium): spatial distribution of a carriage by the red fox (*Vulpes vulpes*) and preliminary results in the musk rat (*Ondatra zibethicus*), a potentially important intermediate host.**  
R.V. Hanosset<sup>a\*</sup>, B. Brochier<sup>b</sup>, B.R. Mignon<sup>a</sup>, B.J. Losson<sup>a</sup>  
<sup>a</sup>Parasitology and Parasitic Diseases, Faculty of Veterinary Medicine, University of Liège, Belgium;  
<sup>b</sup>Section of Virology of the Scientific Institute of Public Health
12. **Prevalence and intensity of *Haemonchus* species from bull fighting animals at the Plaza Mexico.**  
M.C. Guerrero\*, M.B. Vargas  
Departamento de Parasitología, Facultad de Medicina Veterinaria y Zootecnia, Universidad Nacional Autónoma de México, Ciudad Universitaria, C:P: 04510, México D.F
13. ***Haemonchus contortus* genome map.**  
J. Gilleard<sup>a\*</sup>, J. Smith<sup>a</sup>, F. Jackson<sup>b</sup>, B. Barrellc, N. Hall<sup>c</sup>, A. Ivens<sup>c</sup>, P. Dear<sup>d</sup>  
<sup>a</sup>Faculty of Veterinary Medicine, University of Glasgow, U.K.; <sup>b</sup>Moredun Research Institute, Edinburgh, U.K.; <sup>c</sup>Pathogen Sequencing Unit, Sanger Centre, Cambridge, U.K.; <sup>d</sup>MRC-LMB, Cambridge, U.K.
14. **Prevalence of *Giardia* spp. in dogs and humans in northern and central Italy.**  
G. Capelli<sup>b</sup>, A.F. di Regalbono<sup>b</sup>, R. Iorio<sup>a</sup>, M. Pietrobelli<sup>b</sup>, B. Paoletti<sup>a</sup>, P. Bianciardi<sup>c</sup>, A. Giangaspero<sup>a\*</sup>  
<sup>a</sup>University of Teramo, Italy; <sup>b</sup>University of Padua, Italy; <sup>c</sup>Bayer S.P.A., Animal Health Division
15. **Association between *Ascaris suum* and *Salmonella enterica* in finisher herds.**  
J. Boes\*, C. Enøe

The National Committee for Pig Production, Danish Bacon & Meat Council, Axeltorv 3, DK-1609  
Copenhagen, Denmark

16. **Statistics of sickness of larval echinococcosis of the population and agricultural animals in the Russian Federation in 1989-2001.**  
F.P. Kovalenko<sup>a</sup>, N.I. Perchun<sup>b</sup>, N.N. Darchenkova<sup>a</sup>, V.B. Yastreb<sup>b</sup>, A.S. Bessonov<sup>b\*</sup>,  
E.A. Chernikova<sup>a</sup>  
<sup>a</sup>I.M. Sechenov Moscow Medical Academy, Moscow, Russia; <sup>b</sup>K.I. Skrjabin Institute of Helminthology,  
Moscow, Russia
17. **The relationship between larval length and larval mass of a reference strain of *Lucilia sericata* (sheep blowfly).**  
M.R. Rankin\*  
Parasitology Section, Scientific Services Unit, Veterinary Laboratory Agency (Weybridge), United  
Kingdom
18. **Detection and identification of *Cryptosporidium* species in dairy farms in southern China.**  
G.Q. Li\*, F.Y. Xiang, S.M. Xiao, S. Kanu, X.Q. Zhu  
South China Agricultural University, College of Veterinary Medicine, Guangzhou 510642, P.R. China
19. **Diagnosis and prevalence of tapeworms in horses in the southwestern USA.** G.  
Howard, K. Snowden\*  
College of Veterinary Medicine, Texas A&M University, College Station, Texas USA
20. **Examination of the strongylid community of brood horses in Ukraine by the diagnostocal deworming method.**  
T.A. Kuzmina\*, A.I. Starovir  
Institute of Zoology, NAS of Ukraine, 15, B. Khmel'nitskiy Str., Kyiv, 01601, Ukraine
21. **Improved diagnosis of isosporosis in suckling piglets.**  
A. Joachim<sup>a\*</sup>, A. Dauschies<sup>b</sup>, B. Ruttowski<sup>b</sup>, H.C. Mundt<sup>c</sup>  
<sup>a</sup>Institute for Parasitology and Zoology, University of Veterinary Medicine Vienna, Austria; <sup>b</sup>Institute of  
Parasitology, University of Leipzig, Germany; <sup>c</sup>Bayer AG, Leverkusen, Germany
22. **Treatment of *Neotrombicula*-associated dermatitis in dogs using topical permethrin-pyriproxyfen combination.**  
D. Smal<sup>a</sup>, P. Jasmin<sup>b\*</sup>, P. Mercier<sup>b</sup>  
<sup>a</sup>DVM, Veterinary Clinic, 59 450 Siin Le Noble, France; <sup>b</sup>DVM, Medical Department, Virbac S.A., 06 511  
Carros, France
23. **Effects of long-term storage on Brazilian nematode trapping fungi isolates.**  
M.A. Mota<sup>a\*</sup>, A.K. Campos<sup>a</sup>, M.P. Guimarães<sup>a</sup>, J.V. Araújo<sup>b</sup>  
<sup>a</sup>Departamento de Parasitologia, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil;  
<sup>b</sup>Departamento de Veterinaria, Universidade Federal de Viçosa, Viçosa, Brazil
24. **Premunization of Criollo kids by use of a single viable dose of *Haemonchus contortus* before natural infection with gastrointestinal nematodes.**

- A. Aguilar Caballero, J.F. Torres-Acosta\*, N. Ojeda-Robertos, L. Canul-Ku, L. Cob-Galera, J. Vargas-Magaña  
FMVZ-Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico
25. **Evaluation of non-chemotherapeutic approaches to the control of pasture borne parasites in cattle.**  
A. Larsson\*, J. Höglund, P.J. Waller, S-O. Dimander, A. Uggla  
Department of Parasitology (SWEPAR), SE- 751 89 Uppsala, Sweden
26. **Study to compare the efficacy and safety of FRONTLINE® Plus (fipronil/(S)-methoprene) and FRONTLINE® Spot-On against ticks in cats under field conditions in Japan.**  
Y. Yamane<sup>a</sup>, K. Takashima<sup>a</sup>, G. Kinoshita<sup>b</sup>, T. Nagata<sup>b</sup>, A. Boeckh<sup>c</sup>, L. Cramer<sup>c\*</sup>  
<sup>a</sup>Animal Clinical Research Foundation, Japan; <sup>b</sup>Merial Japan; <sup>c</sup>Merial USA
27. **Modulation of blood uptake by horn flies (*Haematobia irritans irritans*) following vaccination with recombinant thrombostasin.**  
M.S. Cupp<sup>a\*</sup>, E.W. Cupp<sup>a</sup>, N. Wisniewski<sup>b</sup>, D. Zhang<sup>a</sup>, C. Navvare<sup>c</sup>, V. Panangala<sup>c</sup>  
<sup>a</sup>Department of Entomology and Plant Pathology, Auburn University, Alabama USA; <sup>b</sup>Heska Corporation, Fort Collins, Colorado USA; <sup>c</sup>College of Veterinary Medicine, Auburn University, Alabama USA
28. **What horse owners do to control internal parasites: time for more veterinary involvement?**  
E.M. Abbott\*  
Abbott Associates, Lutterworth, UK
29. ***In vitro* measurements of anthelmintic effects of tanniferous plants on third stage larvae of parasitic nematodes of the gastrointestinal tract.**  
V. Paolini<sup>a</sup>, I. Fouraste<sup>b</sup>, Ph. Dorchies<sup>a\*</sup>, H. Hoste<sup>a</sup>  
<sup>a</sup>UMR 1225 INRA/DGER, Toulouse, France; <sup>b</sup>Université P. Sabatier, Toulouse, France
30. **A survey of anthelmintic drench efficacy in U.K. goat farms.**  
V. Grillo<sup>a\*</sup>, F. Jackson<sup>b</sup>, J.S. Gilleard<sup>a</sup>  
<sup>a</sup>Department Veterinary Parasitology, University of Glasgow, Glasgow, G61 1QH; <sup>b</sup>Moredun Institute, Edinburgh, Scotland
31. ***In vitro* evaluation of inhibitory potential of plant nematode biocontrol agents and plant pathogenic fungi against *Arthrobotrys musiformis*.**  
H.A. Prajapato<sup>a\*</sup>, J.B. Chauhan<sup>a</sup>, R.B. Subramanian<sup>a</sup>, P.K. Sanyal<sup>b</sup>  
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32. **Expression and identification of *Eimeria tenella* gene TA4.**  
S.Q. Wu, J.J. Jiang\*, Q. Liu, Y.J. Zhu  
College of Veterinary Medicine, China Agricultural University, Beijing, China
33. **Clone and sequence analysis of gene Et1A of *Eimeria tenella* BJ strain.**

S.Q. Wu, J.J. Jiang\*

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34. **Molecular characterization of *Giardia* from Italian dogs at the  $\beta$ -giardin locus.**  
S.M. Cacciò<sup>a</sup>, G. Capelli<sup>b\*</sup>, M. Lalle<sup>a</sup>, L. Gnoato<sup>b</sup>, E. Pozio<sup>a</sup>  
<sup>a</sup>Instituto Superiore di Sanità, Rome, Italy; <sup>b</sup>Università di Padova, Italy
35. **Insecticidal activity of haircoat of dogs treated by their owners with fipronil spot-on spray.**  
P. Bourdeau\*, B. Larhantec, A.M. Marchand  
Ecole Nationale Vétérinaire de Nantes
36. **The status of resistance to chemical ixodicides of the tick *Rhipicephalus sanguineus* (Acari: Ixodidae) in Spain.**  
A. Estrada-Peña\*  
Dept. of Parasitology, Veterinary Faculty, Miguel Servet, 177, 50013-Zaragoza, Spain
37. **Efficacy of toltrazuril against artificial infections with *Eimeria bovis* in calves.**  
H.C. Mundt<sup>a\*</sup>, A. Dauschies<sup>b</sup>, F. Uebe<sup>a</sup>, M. Rinke<sup>c</sup>  
<sup>a</sup>Bayer AG, Animal Health Business Group, Clinical Development, Leverkusen, Germany; <sup>b</sup>Institute for Parasitology, Faculty of Veterinary Medicine, University of Leipzig, Leipzig, Germany; <sup>c</sup>Bayer AG, BHC Toxicology, Wuppertal, Germany
38. **Diffusion and residual activity of insecticide formulations in haircoat of dogs: An example with fipronil spot-on and spray.**  
P. Bourdeau\*, B. Larhantec, A.M. Marchand  
Ecole Nationale Vétérinaire de Nantes
39. **A reproductive safety study with EQIMAX™ Paste (1.87% ivermectin / 14.03% praziquantel) in mares.**  
L.R. Cruthers<sup>a</sup>, R.L. Slone<sup>a</sup>, B.C. Tu<sup>b</sup>, F.W. Goodman<sup>b\*</sup>, S.V. Radecki<sup>c</sup>  
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40. **In vitro ovicidal activity of extracts *Annona squamosa* Linn against *Haemonchus contortus*.**  
M.M.C. Souza, C.M.L. Bevilaqua\*, C.T.C. Costa, S.M. Morais, A.R.A. Silva  
Pos-graduação em Ciências Veterinárias Universidade Estadual do Ceará, Brazil
41. **Changes of enzymes activity in urine of cotton rats infected with larval *Echinococcus multilocularis* at radical chemotherapy of experimental infection.**  
F.P. Kovealenko<sup>a</sup>, E.A. Chernikova<sup>a</sup>, G.N. Dubinina<sup>a</sup>, A.S. Bessonov<sup>b\*</sup>, N.I. Perchun<sup>b</sup>  
<sup>a</sup>I.M. Sechenov Moscow Medical Academy, Moscow, Russia; <sup>b</sup>K.I. Skrjabin Institute of Helminthology, Moscow, Russia
42. **Comparison of serum pharmacokinetics and weight gain after administration of macrocyclic lactones via transdermal and subcutaneous delivery methods.**  
S.R. Barber<sup>a\*</sup>, M. Alvinerie<sup>b</sup>, P.I. Veale<sup>c</sup>, G.A. Anderson<sup>d</sup>, V.M. Bowles<sup>a</sup>  
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43. **Safety of ivermectin and praziquantel on the reproductive performance of stallions.**  
E.L. Squires<sup>a</sup>, B.C. Tu<sup>b</sup>, I.C. Villard<sup>b\*</sup>  
<sup>a</sup>Colorado State University, Fort Collins, Colorado 80523 USA; <sup>b</sup>Virbac A.H. Inc, Fort Worth, TX 76137 USA
44. **Efficacy of an experimental fasciolicide against immature and mature *Fasciola hepatica* in artificially infected calves.**  
Y. Vera<sup>a\*</sup>, F. Ibarra<sup>a</sup>, H. Quiroz<sup>a</sup>, E. Liébanob<sup>b</sup>, A. Hernández<sup>c</sup>, R. Castillo<sup>c</sup>, P. Ochoa<sup>c</sup>  
<sup>a</sup>Depto. De Parasitología, Fac. de Med. Vet. Y Zoot., UNAM. Cd. Universitaria 04510, México, D.F.
45. **Putative predication of macrocyclic lactones *in vivo*-disposition using an original pharmacological parameter [Vp50] obtained from transport experiments in P-glycoprotein-expressing cells.**  
A. Roulet<sup>a\*</sup>, A. Bousquet-Mélou<sup>b</sup>, D. Concordet<sup>b</sup>, J. Dupuy<sup>a</sup>, A. Lespine<sup>a</sup>, M. Alvinerie<sup>a</sup>, T. Pineau<sup>a</sup>  
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46. **Effect of the weight gain and egg elimination in calves treated with ivermectin.**  
H. Quiroz<sup>a\*</sup>, F. Ibarra<sup>a</sup>, E. Liébanob<sup>b</sup>, J. Cruz<sup>a</sup>, E. Ramos<sup>a</sup>, P. Ochoa<sup>a</sup>  
<sup>a</sup>Facultad de Medicina Veterinaria y Zootecnia, UNAM, 04510, México, D.F.
47. **Treatment of *Toxoplasma gondii* infections in Pallas's Cat (*Otocolobus manul*) kittens with clindamycin.**  
H. Prosl<sup>a\*</sup>, W. Basso<sup>b</sup>, R. Edelhofer<sup>a</sup>, W. Zenker<sup>c</sup>  
<sup>a</sup>Institute for Parasitology and Zoology, University of Veterinary Medicine Vienna, Austria; <sup>b</sup>Faculty of Veterinary Sciences, University of La Plata, Argentina; <sup>c</sup>Schoenbrunn Zoo, Vienna, Austria
48. **Efficacy of oxyclozanide (Zanil<sup>®</sup>) on natural ovine fasciolosis.**  
A. Paz-Silva<sup>\*</sup>, R. Sánchez-Andrade, J.L. Suárez, J. Pedreira, C. Lomba, P. Díaz, R. Panadero, P. Díez-Baños, P. Morrondo  
Parasitología y Enfermedades Parasitarias, Dpto. Patología Animal. Facultad de Veterinaria, Universidad de Santiago de Compostela, 27002-Lugo, Spain
49. **Efficacy of Nilzan Plus<sup>®</sup> on the bovine parampsitosis.**  
A. Paz-Silva<sup>\*</sup>, R. Sánchez-Andrade, J.L. Suárez, J. Pedreira, M. Arias, P. Díaz, C. López, P. Díez-Baños, P. Morrondo  
Parasitología y Enfermedades Parasitarias, Dpto. Patología Animal. Facultad de Veterinaria, Universidad de Santiago de Compostela, 27002-Lugo, Spain
50. **Synergistic effects of pyrantel and the febantel metabolite fenbendazole on adult *Toxocara canis* worms.**  
H. Mehlhorn<sup>a\*</sup>, E. Hanser<sup>a</sup>, O. Hansen<sup>b</sup>, A. Harder<sup>b</sup>, N. Mencke<sup>b</sup>, R. Schaper<sup>b</sup>  
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**51. Determination of the effective dose of an experimental fasciolicide in experimentally infected cattle.**

F. Ibarra<sup>a\*</sup>, Y. Vera<sup>a</sup>, J. Cantó<sup>b</sup>, R. Castillo<sup>c</sup>, A. Hernández<sup>c</sup>, P. Ochoa<sup>a</sup>

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**52. Progress of the international work of the “Imidacloprid Flea Susceptibility Monitoring Team.”**

I. Schroeder<sup>a</sup>, B.L. Blagburn<sup>b</sup>, D.L. Bledsoe<sup>c</sup>, R. Bond<sup>d</sup>, I. Denholm<sup>d</sup>, M.W. Dryden<sup>e</sup>, D.E. Jacobs<sup>f</sup>, H. Mehlhorn<sup>g</sup>, N. Mencke<sup>a</sup>, P. Payne<sup>e</sup>, M.K. Rust<sup>h</sup>, M.B. Vaughn<sup>c\*</sup>

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**53. Selective changes in cholinergic receptor subtypes associated with levamisole resistance in *Oesophagostomum dentatum*.**

R.J. Martin\*, C.L. Clarke, A.P. Robertson

Department of Biomedical Sciences, Iowa State University, Ames, IA 50011 USA

**54. Oxibendazole efficiency against fenbendazole-resistant horse strongyles in Lithuania.**

A. Vyšniauskas, S. Petkevičius, A. Pereckienė, V. Kaziūnaitė\*

Laboratory of Parasitology, Institute of Veterinary, Lithuanian Veterinary Academy, Vilnius, Lithuania

**55. In vitro breeding and testing of *Ctenocephalides felis* for insecticide resistance.**

K.A. Stafford, G.C. Coles\*

Department of Clinical Veterinary Science, University of Bristol, Langford House, Bristol, BS40 5DU, UK

**56. Isolation and characterization of a Diclazuril resistant strain of *Eimeria acervulina*.**

C.M. Brown\*, J.S. Mathew, T. Tama, T. Biftu, D.R. Thompson

Merck & Co., Somerville, New Jersey USA

**57. Influence of management in benzimidazole anthelmintic resistance dissemination in sheep flocks.**

A.C.F.L. Melo, F.C.M. Rondon, I.F. Reis, C.M.L. Bevilaqua\*

Pos-graduação em Ciências Veterinárias. Universidade Estadual do Ceará, Brazil

**58. Transmission of anthelmintic resistance in sheep in West Java, Indonesia.**

Berijaya<sup>a\*</sup>, D. Haryuningtyas<sup>a</sup>, A. Husein<sup>a</sup>, G.M. Hood<sup>b</sup>, G.D. Gray<sup>b</sup>

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**59. Flea allergy dermatitis (FAD) in the cat: Establishment of a functional in vitro test (FIT).**

K. Stuke<sup>a</sup>, G. von Samson–Himmelstjerna<sup>a\*</sup>, N. Mencke<sup>b</sup>, O. Hansen<sup>c</sup>, T. Schnieder<sup>a</sup>, W. Leibold<sup>d</sup>

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<sup>b</sup>Bayer AG, BHC Business Group Animal Health, Monheim Germany; <sup>c</sup>Bayer Vital, Monheim Germany

60. **Skin immune response in cattle after primary and secondary infections with *Hypoderma lineatum* (Diptera: Oestridae) larvae.**  
 C. López<sup>a\*</sup>, D.D. Colwell<sup>b</sup>, R. Panadero<sup>a</sup>, A. Paz<sup>a</sup>, J. Perez<sup>b</sup>, P. Morrondo<sup>a</sup>, P. Díez<sup>a</sup>, A. Bravo<sup>c</sup>  
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61. **Protein supply to lactating ewes affects *in vitro* larval establishment of abomasal nematodes.**  
 J.G.M. Houdijk<sup>a\*</sup>, Q. Versteegh<sup>a</sup>, I. Kyriazakis<sup>a</sup>, L. Stenhouse<sup>b</sup>, F. Jackson<sup>b</sup>, R.L. Coop<sup>b</sup>  
<sup>a</sup>Animal Nutrition and Health Department, Scottish Agricultural College, Edinburgh, UK; <sup>b</sup>Moredun Research Institute, Penicuik, UK
62. **Tissue immune response to *Toxoplasma gondii* infection in pigs.**  
 S.M. Nishi<sup>a\*</sup>, H. Dawson<sup>b</sup>, J.P. Dubey<sup>c</sup>, J.F. Urban<sup>b</sup>, J.K. Lunney<sup>a</sup>  
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63. **Detection of anti-Ex *Toxocara vitulorum* IgG antibodies in colostrum and serum of buffalo calves and cows by immunoblotting.**  
 W.A. Starke-Buzetti<sup>\*</sup>, F.P. Ferreira  
 Departamento de Biologia e Zootecnia, UNESP-Campus de Ilha Solteira, SP, Brazil
64. **Cloning and expression of the major secreted cathepsin B from juvenile *Fasciola hepatica* and analysis of immunogenicity following liver fluke infection.**  
 R.H.P. Law<sup>ab</sup>, P.M. Smooker<sup>c</sup>, J.A. Irving<sup>a</sup>, R. Ponting<sup>b</sup>, D. Piedrafita<sup>a</sup>, N.J. Kennedy<sup>ab</sup>, J.C. Whisstock<sup>a</sup>, R.N. Pike<sup>a</sup>, T.W. Spithill<sup>abd\*</sup>  
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65. **No increase in serum acute phase proteins in subclinical *Trichinella* infection in reindeer (*Rangifer t. tarandus*).**  
 T. Soveri<sup>a\*</sup>, T. Orro<sup>a</sup>, A. Oksanen<sup>b</sup>  
<sup>a</sup>University of Helsinki, Finland; <sup>b</sup>National Veterinary and Food Research Institute, EELA, Finland
66. **Estimation of protective activity of specific and nonspecific antigens at experimental secondary alveolar echinococcosis of laboratory rodents.**  
 F.P. Kovalenko<sup>a</sup>, E.A. Chernikova<sup>a</sup>, N.E. Ballard<sup>a</sup>, N.I. Perchun<sup>b</sup>, A.S. Bessonov<sup>b\*</sup>  
<sup>a</sup>I.M. Sechenov Moscow Medical Academy, Moscow, Russia; <sup>b</sup>K.I. Skrjabin Institute of Helminthology, Moscow, Russia
67. **Morphological studies on the extra-cellular structure of the midgut of a tick, *Haemaphysalis longicornis* (Acari: Ixodidae).**  
 T. Matsuo<sup>\*</sup>, M. Sato, N. Inoue, N. Yokoyama, D. Taylor, K. Fujisaki

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68. **Withdrawn.**

69. **Hints for transmission of feline leukemia virus (FeLV) by the cat flea (*Ctenocephalides felis*).**

M. Vobis<sup>a\*</sup>, J. D'Haese<sup>a</sup>, H. Mehlhorn<sup>a</sup>, N. Mencke<sup>b</sup>

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70. **Tick-transmitted infections in New Caledonian dogs: a geographically isolated canine and tick population.**

S.E. Shaw<sup>a\*</sup>, F. Beugnet<sup>b</sup>, M.J. Day<sup>a</sup>, M.J. Kenny<sup>a</sup>

<sup>a</sup>University of Bristol, Langford, Somerset, UK; <sup>b</sup>Merial, Lyon, France

71. **Hard ticks (Acarina, Ixodidae) found on domestic carnivores in Belgium: a survey conducted during three consecutive years.**

B.J. Losson<sup>\*</sup>, D. Baar, F. Maréchal, M. Barbé, B. Mignon

Laboratory of Parasitology and Parasitic Disease, Dept. of Infectious and Parasitic Diseases, Faculty of Veterinary Medicine, University of Liège, Liège, Belgium

72. ***Anaplasma (Ehrlichia) phagocytophilum* infection in a UK fallow deer (*Dama dama*) herd.**

M.J. Kenny<sup>a\*</sup>, I. Parsons<sup>b</sup>, S.E. Shaw<sup>a</sup>, F. Beugnet<sup>c</sup>

<sup>a</sup>Dept. Of Clinical Veterinary Sciences, University of Bristol, Langford, Somerset, UK; <sup>b</sup>Peninsula Forest District, Forest Enterprise, Kennford, Devon, UK; <sup>c</sup>Merial Lyon, France

73. **Treatment of sarcoptic mange in cattle with topical eprinomectin: effects on productivity and behaviour.**

S. Rehbein<sup>a\*</sup>, M. Visser<sup>a</sup>, S. Hoy<sup>b</sup>, M. Ziron<sup>b</sup>, R. Winter<sup>a</sup>, A.E. Maciel<sup>c</sup>, S.E. Marley<sup>c</sup>

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74. **Frequency of Oestrus ovis in goats sacrificed in the municipal slaughterhouse of Culiacán, Sinaloa, México.**

C.S. Gaxiola<sup>a\*</sup>, I.J. Borbolla<sup>a</sup>, M.M. Quintero<sup>b</sup>, del C.N. Castro<sup>a</sup>, R.M. Rubio<sup>a</sup>

<sup>a</sup>Veterinary Faculty of Medicine and Zootecnia of the Sinaloa Autonomous University, Sinaloa, México; <sup>b</sup>México Autonomous National University-FMVZ

75. **The effect of *Amblyomma cajennense* and *Rhipicephalus sanguineus* saliva on the *in vitro* proliferative responses of T lymphocytes from BALB/c mice.**

M. Hlatshwayo<sup>a\*</sup>, B.R. Ferreira<sup>b</sup>, P.A. Mbato<sup>a</sup>

<sup>a</sup>Parasitology Research Program, Qwa-Qwa Campus, University of the Free State, Private Bag X13, Phuthaditjhaba, 9866, South Africa; <sup>b</sup>Department of Immunology and Biochemistry, School of Medicine of Ribeirao Preto, University of Sao Paulo, 14049-900, Ribeirao Preto-SP, Brazil

76. **Monthly prevalence of strongylid infection thoroughbred horses from four farms in the states of Aragua and Carabobo, Venezuela.**

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Parasitology Department, School of Vet. Sciences, Universidad Central de Venezuela Maracay, Edo. Aragua, Venezuela, Apdo 4563
77. ***Wolbachia* in sucking lice.**  
G. Kyei-Poku, D.D. Colwell\*, P. Coghlin, K. Floate  
Agriculture and Agri-Food Canada, Lethbridge Research Centre, Lethbridge, AB., Canada
78. **Experimental production of necrotic enteritis and its use for studies on the relationship between necrotic enteritis and coccidiosis in chickens.**  
R.N. Marshall<sup>a\*</sup>, R.B. Williams<sup>b</sup>, R.M. La Ragione<sup>a</sup>, J.A. Marshall<sup>a</sup>  
<sup>a</sup>Veterinary Laboratories Agency (Weybridge) New Haw, Addlestone, Surrey, KT15 3NB; <sup>b</sup>Schering-Plough Animal Health, Breakspear Road South, Harefield, Uxbridge, Middlesex UB9 6LS, UK
79. **Population biology studies on *Isoospora suis* in piglets.**  
H.C. Mundt<sup>a\*</sup>, A. Joachim<sup>b</sup>, A. Dausgchies<sup>c</sup>, M. Zimmermann<sup>c</sup>  
<sup>a</sup>Bayer AG, Animal Health Business Group, Clinical Development, Leverkusen, Germany; <sup>b</sup>Institute for Parasitology and Zoology, University of Veterinary Medicine, Vienna, Austria; <sup>c</sup>Institute for Parasitology, Faculty of Veterinary Medicine, University of Leipzig, Leipzig, Germany
80. **Use of different antiparasitic drugs in the treatment of experimental murine encephalitozoonosis.**  
J.M. Castro, M.A. Lallo\*, E.F. Bondan  
University Paulista (UNIP), São Paulo, Brazil
81. **Detection of *Cryptosporidium* oocysts in stools of opossums from a deforestation area around São Paulo (Brazil).**  
M.A. Lallo\*, F. Bastos, S. Favorito, E.F. Bondan  
University Bandeirante of São Paulo (UNIBAN), São Paulo, Brazil
82. **Seroprevalence of *Toxoplasma gondii* antibodies in the rodent capybara (*Hydrochoeris hydrochoeris*) from Brazil.**  
S.M. Gennari<sup>a\*</sup>, W.A. Cañon-Franco<sup>a</sup>, L.E.O. Yai<sup>b</sup>, A.M. Joppert<sup>c</sup>, C.E. Souza<sup>d</sup>, S.R.N. D'Auria<sup>c</sup>, J.P. Dubey<sup>e</sup>  
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83. **Seasonal variations in the growth and maturation of *Acanthocephalus anguillae* (Muller 1780) in fishes from the Vistula river with particular reference to ide *Leuciscus idus* (L.) and bream *Abramis brama* (L.).**  
A. Kamara\*  
W. Stefanski Institute of Parasitology, Polish Academy of Sciences, UI, Twarda 51/55, 00-818 Warsaw, Poland
84. **Presence of *Polygenis gwyni* (Fox 1941, Siphonaptera Rhopalopsyllidae) on *Otodylomys phyllotis* (Rodentia Muridae) in Yucatan, México.**

- M.M.T. Quintero<sup>a\*</sup>, S. Hernández<sup>b</sup>, P. García<sup>b</sup>, N.J. Otero<sup>a</sup>, V.G. Juárez<sup>a</sup>  
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85. **Expression of *Babesia equi* EMA-1 and EMA-2 during merozoite developmental stages in erythrocyte and their erythrocytic binding affinity.**  
S. Kumar<sup>\*</sup>, N. Yokoyama, J-Y. Kim, X. Huang, N. Inoue, X. Xuan, I. Igarashi, C. Sugimoto  
National Research Center for Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Hokkaido, Japan
86. **Importation of exotic reptile ticks, and associated pathogens, into the UK.**  
M.J. Kenny<sup>a</sup>, A.B. Forbes<sup>b</sup>, S.E. Shaw<sup>a</sup>  
<sup>a</sup>Dept. Of Clinical Veterinary Sciences, University of Bristol, Langford, Somerset, UK; <sup>b</sup>Merial UK, Harlow, Essex, UK
87. **On the biology *Eimeria macusaniensis*, an intestinal parasite of South American camelids.**  
S. Rohbeck<sup>ab</sup>, M. Gaulty<sup>a\*</sup>, C. Bauer<sup>b</sup>  
<sup>a</sup>Institute of Animal Breeding and Genetics; <sup>b</sup>Institute of Parasitology, Justus Liebig University Giessen, D-35398 Giessen, Germany
88. **Recombinant chicken IFN- $\nu$  inhibits broiler coccidiosis and enhances immunity of coccidial vaccine.**  
Y. Xiuhua, W. Zhiguang, W. Ming<sup>\*</sup>  
College of Veterinary Medicine, China Agricultural University, Beijing, P.R. China
89. **Mites of the mange in dogs of Culiacán, Sinaloa, Mexico.**  
C.S. Gaxiola<sup>a\*</sup>, I.J. Borbolla<sup>a</sup>, M.M. Quiintero<sup>b</sup>, del C.N. Castro<sup>a</sup>, R.M. Rubio<sup>a</sup>  
<sup>a</sup>Veterinary Faculty of Medicine and Zootecnia of the Sinaloa Autonomous University, Sinaloa, México; <sup>b</sup>México Autonomous National University-FMVZ
90. **A case of imported *Spirocerca lupi* infection in a dog from Italy: histological and immunohistochemical report.**  
L. Kramer<sup>a\*</sup>, L.E. Calvi<sup>a</sup>, B. Passeria, C. Vernasconi<sup>b</sup>, R. Capitelli<sup>b</sup>  
<sup>a</sup>University of Parma Veterinary School; <sup>b</sup>Clinica Veterinaria “San Siro”, Italy
91. **Parasitism prevalence in breeding puppies around weaning.**  
H. André<sup>a</sup>, B. Polack<sup>a\*</sup>, P. Pierson<sup>b</sup>  
<sup>a</sup>Ecole Nationale Vétérinaire d’Alfort, Maisons-Alfort, France; <sup>b</sup>Royal Canin, Aimargues, France
92. **Endoparasites in dogs and cats in Germany 1999–2002.**  
D. Barutzki<sup>a\*</sup>, R. Schaper<sup>a\*</sup>  
<sup>a</sup>Veterinary Laboratory Freiburg, Postfach 100120, D 79120 Freiburg i.Br., Germany; <sup>b</sup>Bayer Health, D 51368 Leverkusen, Germany

93. **Molecular detection of *Anaplasma (Ehrlichia) phagocytophilum* comb. nov. (Rickettsiales, Anaplasmataceae) in dogs and ticks.**  
A. Giangaspero<sup>a</sup>, B. Paoletti<sup>a</sup>, D. Traversa<sup>a\*</sup>, O.A.E. Sparagano<sup>b</sup>  
<sup>a</sup>Dipartimento di Scienze Biomediche Comparative, University of Teramo, Italy; <sup>b</sup>School of Agriculture, University of Newcastle, UK
94. **Prevalence of and factors associated with shedding *Cryptosporidium* spp in domestic cats.**  
L.G. Rickard\*, R. Vasilopulos, A. Mackin, C. Huston, C. Panuska, G.T. Pharr  
College of Veterinary Medicine, Mississippi State University, Mississippi State, MS USA
95. **Some data about *in vitro* culture of *Polygyra* sp intermediate host of *Muellerius capillaris*.**  
A. Huesca<sup>a\*</sup>, M. Quintero<sup>a</sup>, E. Naranjo<sup>b</sup>  
<sup>a</sup>FMVZ, UNAM 04510, México, D.F.; <sup>b</sup>Instituto de Biología, UNAM; 04510, México D.F.
96. **Ked (*Melophagus ovinus*) transmission: burden on lambs from affected flocks and remnant populations after shearing.**  
F.V. Olaechea\*, J. Corley  
National Institute for Agricultural Technology (INTA), cc. 277, (8400) Bariloche, Argentina
97. **Tegumental surface in adult flukes by scanning electron microscopy following treatment in sheep with an experimental compound.**  
N. Rivera<sup>a\*</sup>, F. Ibarra<sup>a</sup>, A. Zepeda<sup>b</sup>, R. Castillo<sup>c</sup>, A. Hernández<sup>c</sup>  
<sup>a</sup>Facultad de Medicina Veterinaria y Zootecnia, UNAM, México, D.F.; <sup>b</sup>Facultad de Medicina, UNAM, México, D.F.; <sup>c</sup>Fac. de Química, UNAM, México, D.F.
98. **Resistance of Santa Ines, Suffolk and Ile de France lambs to naturally acquired gastrointestinal nematode infections.**  
A.F.T. Amarante<sup>a\*</sup>, P.A. Bricarello<sup>b</sup>, R.A. Rocha<sup>a</sup>, S.M. Gennari<sup>b</sup>  
<sup>a</sup>Universidade Estadual Paulista, C.P. 510, Botucatu- SP, CEP 18618-000, Brazil; <sup>b</sup>Universidade de São Paulo, Brazil
99. **A comparison of the periparturient rise in fecal egg counts of Santa Ines and Ile de France ewes.**  
R.A. Rocha<sup>a</sup>, A.F.T. Amarante<sup>a\*</sup>, P.A. Bricarello<sup>ab</sup>  
<sup>a</sup>Universidade Estadual Paulista, C.P. 510, Botucatu- SP, CEP 18618-000, Brazil; <sup>b</sup>Universidade de São Paulo, Brazil
100. **Safety study on pregnant mares treated with a combination of ivermectin praziquantel.**  
P. Mercier<sup>a\*</sup>, F. Alves-Branco<sup>b</sup>, C.R. White<sup>c</sup>  
<sup>a</sup>Virbac SA, Medical Dpt, Carros, France; <sup>b</sup>Consultorio Medico Veterinario, Bagé, RS, Brazil, <sup>c</sup>Virbac do Brazil, Sao-Paulo, SP, Brazil
101. **Mechanical recovery of cyathostome larvae from the mucosa of the caecum of horses.**  
I.D. Glover, G.M. Henry, N.B. Townsend, G.C. Coles\*  
Department of Clinical Veterinary Science, University of Bristol, Langford House, Britol BS40 5DU, UK

102. **Identification of stage specific transcripts from reactivated cyathostomin fourth stage larvae.**  
J.B. Matthews<sup>a\*</sup>, D.R. Johnson<sup>a</sup>, K.R. Matthews<sup>b</sup>  
<sup>a</sup>Department of Veterinary Clinical Science, University of Liverpool, South Wirral, UK; <sup>b</sup>Department of Biochemistry, University of Manchester, Manchester, UK
103. **Larvicidal activity of an ivermectin praziquantel combination against migrating *Strongylus vulgaris* larvae in equids.**  
L. Frayssinet<sup>a\*</sup>, P. Mercier<sup>a</sup>, L. Grisi<sup>b</sup>, I.V.F. Martins<sup>b</sup>, C.R. White<sup>c</sup>  
<sup>a</sup>Virbac SA, Carros, France; <sup>b</sup>Universidade Federal Rural do Rio de Janeiro, RJ, Brazil; <sup>c</sup>Virbac do Brasil, Sao-Paulo, SP, Brazil
104. **Are older horses more wormy?**  
C. Wright<sup>a</sup>, A.C. Rhodes<sup>b</sup>, G.C. Coles<sup>b\*</sup>  
<sup>a</sup>Bushy Equine Clinic, Breadstone, Berkley, Glos GL13 9HG, UK; <sup>b</sup>Dept. Clinical Veterinary Science, University of Bristol, Langford House, Bristol BS40 5DU, UK
105. **The role of *Isospora suis* in the ethiology of diarrhoea in suckling piglets.**  
V. Gualdi<sup>a</sup>, F. Vezzoli<sup>a</sup>, M. Luini<sup>a</sup>, L. Nisoli<sup>b\*</sup>  
<sup>a</sup>Instituto Zooprofilattico Sperimentale della Lombardia e dell' Emilia Romagna "B. Ubertini" Lodi Section, Italy; <sup>b</sup>Bayer HealthCare, Animal Health Division, Italy
106. **Evaluation of the growth of *Trypanosoma cruzi* in different culture media.**  
L. Calderón<sup>a\*</sup>, J. Taya, D. Ruíz<sup>a</sup>, J. Sánchez<sup>a</sup>, F. Ibarra<sup>b</sup>  
<sup>a</sup>Departamento de Microbiología y Parasitología, Facultad de Medicina, Universidad Nacional Autónoma de México; <sup>b</sup>Departamento de Parasitología, Facultad de Medicina Veterinaria y Zootecnia, Universidad Nacional Autónoma de México
107. **The ability of *Brugia pahangi* to migrate is not limited to life cycle stage.**  
S.R. Chirgwin<sup>\*</sup>, K.H. Porterhouse, S.U. Coleman, W.T. Wile, T.R. Klei  
Department of Pathobiological Sciences, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA, 70803 USA
108. **Prevalence of enteric and external parasites in bees (*Apis mellifera*) in Culiacán, Sinaloa, México.**  
C.S. Gaxiola<sup>\*</sup>, I.J. Borbolla, del C.N. Castro, R.M. Rubio  
Veterinary Faculty of Medicine and Zootecnia of the Sinaloa Autonomous Univeristy, Sinaloa, México
109. **Treatment of varroosis with oxalic acid: effectiveness and toxic consequences.**  
M. Higes<sup>a</sup>, R. Martin<sup>b</sup>, A. Mateos<sup>b</sup>, M.J. Nozal<sup>c</sup>, L. Gómez<sup>c</sup>, A. Meana<sup>b\*</sup>  
<sup>a</sup>Centro Apícola Regional, Guadalajara Spain; <sup>b</sup>Faculltad de Veterinaria UCM, Madrid, Spain; <sup>c</sup>Facultad de Ciencias, Valladolid, Spain
110. **The prevalence of anthelmintic resistance in nematode parasites of cattle in São Paulo State, Brazil.**  
R.V.G. Soutello<sup>ab\*</sup>, A.F.T. Amarante<sup>b</sup>, M.C. Zocoller-Seno<sup>b</sup>  
<sup>a</sup>Faculdade de Ciências Agrárias de Andradina—SP; <sup>b</sup>Universidade Estadual Paulista, Brazil

111. ***Dirofilaria immitis*: humoral response and cytokine mRNA expression in chronically infected dogs.**  
 J. Lópe-Belmonte<sup>a</sup>, R. Morchón<sup>a</sup>, C. Genchi<sup>b\*</sup>, C. Bazzocchi<sup>b</sup>, G. Traldi<sup>c</sup>, R. Martín-Pacho<sup>a</sup>, C. Marcos-Atxutegi<sup>a</sup>, M. Silva<sup>ac</sup>, W. Blasini<sup>ad</sup>, F. Simón<sup>a</sup>  
<sup>a</sup>University of Salamanca Medical School, Spain; <sup>b</sup>University of Milan Veterinary School, Italy; <sup>c</sup>University of Camerino Veterinary School, Italy; <sup>d</sup>University of Puerto Rico Medical School, Puerto Rico
112. **Population dynamics of *Toxocara canis* in pigs receiving a single or multiple infection.**  
 K. Taira<sup>a\*</sup>, I. Saeed<sup>a</sup>, P. Lind<sup>b</sup>, K.D. Murrell<sup>a</sup>, C.M.O. Kapel<sup>a</sup>  
<sup>a</sup>Danish Centre for Experimental Parasitology, Department of Veterinary Microbiology, The Royal Veterinary and Agricultural University, Dyrlægevej 100, DK-1870 Frederiksberg C, Denmark; <sup>b</sup>Danish Veterinary Laboratory, Department of Immunology and Biochemistry, Bülowsvej 27, DK-1790 Copenhagen V, Denmark
113. **The proteome of *Toxoplasma gondii* rhoptries: composition, function and comparative proteomics.**  
 J.M. Wastling<sup>a\*</sup>, C. Ward<sup>a</sup>, A.R. Pitt<sup>a</sup>, G.H. Bradley<sup>b</sup>, J.C. Boothroyd<sup>b</sup>  
<sup>a</sup>Division of Infection and Immunity, Institute of Biomedical and Life Sciences, University of Glasgow, Glasgow, G12 8QQ, United Kingdom; <sup>b</sup>Microbiology and Immunology, Stanford University School of Medicine, 300 Pasteur Dr., Stanford, CA USA
114. **An overview of past, present and future research into donkey parasitism.**  
 C.J. Morriss<sup>\*</sup>, A.F. Trawford  
 The Donkey Sanctuary, Sidmouth, Devon, EX10 0NU, UK
115. **Using Geographic Information System (GIS) to determine the risk to human health from canine fecal contamination in Baton Rouge, LA.**  
 E. Brianti<sup>a\*</sup>, S. Giannetto<sup>a</sup>, G. Poglayen<sup>a</sup>, J.B. Malone<sup>b</sup>  
<sup>a</sup>Facolta' di Medicina Veterinaria, Messina, Sicilia Italia; <sup>b</sup>Louisiana State University, Baton Rouge, Louisiana USA
116. **The fish disease (*Ligulosis*) in the Kyiv Reservoir (after the Chernobyl catastrophic).**  
 O.N. Davydov<sup>\*</sup>, R.E. Bazeev  
 Kyiv, Ukraine
117. **Evaluation of a general situation of an invagination of fishes metacercariae of *Opisthorchidae* of some reservoirs of Ukraine.**  
 R.E. Bazeev<sup>\*</sup>, O.N. Davydov  
 Kyiv, Ukraine

8:45AM–9:00AM **HUGH GORDON INTRODUCTION**

**Speaker:** R.K. Prichard

**Room:** Napoleon BC12

9:00AM–9:45AM **PLENARY 3: HUGH GORDON LECTURE; ANTHELMINTIC VACCINES THAT WORK**

**Speaker:** M. Lightowers

**Room:** Napoleon BC12  
9:45AM–10:00AM **PETER NANSEN AWARD**  
**Room:** Napoleon BC12

10:00AM–10:15AM Break

10:15AM–11:45AM **SYMPOSIUM: MAPPING THE PARASITE WORLD**  
**Moderator:** J.B. Malone, A. Estrada-Peña  
**Room:** Maurepas

**Geospatial tools for veterinary parasites and zoonoses: A new standard for use of maps in epidemiology.**

J.B. Malone  
School of Veterinary Medicine, Baton Rouge, LA USA

**The next step in forecasting *Ixodes scapularis* habitat suitability: The 1 km model for the United States of America.**

A. Estrada-Peña\*, C.S. Acedo, J.Q. Cinca  
Dept. of Parasitology, Veterinary Faculty, 50013-Zaragoza, Spain

**Use of geo-processing technologies to delimit spatial distribution of emerging zoonosis in Bahia, Brazil.**

M.E. Bavia<sup>a</sup>, C.E. Pinto da Silva<sup>b</sup>, R. Reis<sup>a</sup>, M.G. Barbosa<sup>a</sup>, P. Oliveira<sup>a</sup>, I. Novaes<sup>a</sup>, C. Rosendo<sup>a</sup>

<sup>a</sup>Federal University of Bahia, Salvador, Brazil; <sup>b</sup>State University of Feira de Santana, Feira de Santana, Brazil

**Parasitological maps—an Italian experience.**

G. Cringoli\*, L. Rinaldi  
Dipartimento Patologia e Sanita Animale, Settore di Parassitologia Veterinaria, Universita di Napoli, Italy

**The spatial and temporal distribution of West Nile Virus in Louisiana in 2002.**

K. Gruszynski<sup>a\*</sup>, A. Roy<sup>a</sup>, J. Malone<sup>a</sup>, G. Balsamo<sup>b</sup>

<sup>a</sup>LSU School of Veterinary Medicine, Baton Rouge, LA USA; <sup>b</sup>Louisiana Department of Health and Hospitals Office of Public Health, New Orleans, LA USA

**Use of medical information systems for risk prediction and control of *Schistosoma haematobium* in Kenya.**

K. McNally\*, J.B. Malone  
Department of Pathobiological Sciences, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA USA

**DISCUSSION AND SUMMARY**

10:15PM–11:45PM **SYMPOSIUM: RECENT ADVANCES IN HEARTWORM DISEASE**

**Moderators:** J.W. McCall, J. Guerrero

**Room:** Napoleon BC12

**American Heartworm Society guidelines for the diagnosis, prevention, and management of heartworm infection in dogs and cats.**

J. Guerrero

**Comparison of the “safety-net” and “soft-kill” effects of macrocyclic lactone products used for heartworm prevention.**

J.W. McCall

***Wolbachia* endosymbionts and the immunopathogenesis of filarial disease.**

L. Kramer

***Wolbachia* endosymbionts in *Dirofilaria immitis*.**

C. Genchi

10:15AM–11:45AM **SYMPOSIUM: CURRENT STATUS AND FUTURE PROSPECT OF MYIASIS CONTROL**

**Moderators:** P. Dorchies, D.D. Colwell

**Room:** Napoleon B3

**Attractants and traps for myiasis-causing flies.**

R. Cepeda-Palacios

Departamento de Zootecnia, La Paz, B.C.S. México

**Economics aspects of myiasis: A tale of complexity and neglect.**

D.D. Colwell

Agriculture and Agri-Food Canada, Lethbridge, AB., Canada

**Growth regulators in control of myiasis.**

J-F. Graf

Novartis Animal Health Inc. CH-4002 Basel, Switzerland

**Can host genetics be useful in the fight against myiasis?**

Ph. Jacquiet

UMR INRA / DGER 1225 Interactions Hôtes -Agents Pathogènes, Ecole Nationale Vétérinaire de Toulouse, Toulouse, France

**Progress in eradication of hypodermosis from the European Union.**

B. Losson<sup>a\*</sup>, C. Boulard<sup>b</sup>

<sup>a</sup>Laboratory of Parasitology and Parasitic Diseases, Faculty of Veterinary Medicine, University of Liège, Belgium; <sup>b</sup>Unité d'Immunopathologie des Maladies Parasitaires, INRA 37380 Nouzilly, France

### **Molecular tools for the identification of Oestridae.**

D. Otranto

Department of Health and Animal Welfare, Faculty of Veterinary Medicine, University of Bari, Italy

### **New developments in sero-diagnosis of hypodermosis.**

R. Panadero-Fontán

Parasitología y Enfermedades parasitarias. Dpto Patología Animal. Universidad de Santiago de Compostela. Facultad de Veterinaria, 27002. Lugo, Spain

### **Vaccination against myiasis flies—where to next?**

V.M. Bowles<sup>a</sup>, R.M. Sandeman<sup>b\*</sup>

<sup>a</sup>Centre for Animal Biotechnology The University of Melbourne Parkville 3010, Vic, Australia; <sup>b</sup>The Department of Agricultural Sciences, La Trobe University, Bundoora Vic. Australia 3086

### **Antiparasitic drugs and myiasis.**

P.J. Scholl

USDA/ARS/MLIRU, U. of Nebraska-E. Campus, Lincoln, Nebraska USA

### **Supermodel hits the bottle (modelling ovine cutaneous myiasis).**

R. Wall<sup>a\*</sup>, I. Cruickshank<sup>a</sup>, K.E. Smith<sup>a</sup>, N.P. French<sup>b</sup>

<sup>a</sup>School of Biological Sciences, University of Bristol, UK, <sup>b</sup>Department of Veterinary Clinical Science and Animal Husbandry, University of Liverpool, UK

10:15AM–11:45AM **ZOONOSIS 2**

**Moderator:** G. Poglayen

**Room:** Napoleon C3

10:15AM–10:30AM **Seroprevalence and transmission risk factors of porcine in rural pig of eastern and southern provinces of Zambia.**

C.S. Sikasunge<sup>a\*</sup>, I.K. Phiri<sup>a</sup>, S. Siziya<sup>a</sup>, A. Phiri<sup>a</sup>, P. Dorny<sup>b</sup>, A.L. Willingham III<sup>c</sup>

<sup>a</sup>University of Zambia, Lusaka, Zambia; <sup>b</sup>Prince Leopold Institute of Tropical Medicine, Nationalestraat 155, B-2000 Antwerp, Belgium; <sup>c</sup>Danish Centre for Experimental Parasitology, Denmark

10:30AM–10:45AM **Old dreams, new visions: Cystic echinococcosis in Sicily.**

G. Poglayen\*, E. Brianti, A. Rusoo, G. Gaglio, C. Sorgi, S. Giannetto  
Department of Veterinary Public Health, Messina, Italy

10:45AM–11:00AM **Number distribution and viability of *Taenia solium* cysticerci in Zambian village pigs.**

I.K. Phiri<sup>\*a</sup>, P. Dorny<sup>bc</sup>, S. Gabriel<sup>a</sup>, A.L. Willingham III<sup>d</sup>, C. Sikasunge<sup>a</sup>, S. Siziya<sup>a</sup>, J. Vercrusse<sup>c</sup>

<sup>a</sup>University of Zambia, Lusaka, Zambia; <sup>b</sup>Institute of Tropical Medicine, Antwerp, Belgium; <sup>c</sup>Ghent University, Belgium; <sup>d</sup>Royal Veterinary and Agricultural University, Denmark

- 11:00AM–11:15AM **Infectivity and reproduction of *Echinococcus multilocularis* in cat, dog, fox and raccoon dogs.**  
C.M.O. Kapel<sup>a\*</sup>, A.R.C. Thompson<sup>b</sup>, P. Deplazes<sup>c</sup>  
<sup>a</sup>Danish Centre for Experimental Parasitology, Department of Veterinary Microbiology, The Royal Veterinary and Agricultural University, Denmark; <sup>b</sup>Division of Veterinary and Biomedical Science, Murdoch University, Australia; <sup>c</sup>Institute for Parasitology, University of Zurich, Switzerland
- 11:15AM–11:30AM **Prevalence of porcine and risk factors for *Taenia solium* taeniosis in Funyula Division of Busia District Kenya.**  
S.M. Githigia<sup>\*a</sup>, K. Murekefu<sup>b</sup>, S.M. Ngesa<sup>b</sup>, R.O. Otieno<sup>a</sup>, R. Kahai<sup>b</sup>  
<sup>a</sup>Department of Veterinary Pathology, Microbiology & Parasitology Faculty of Veterinary Medicine, University of Nairobi, P.O. Box 29053, Kangemi, 00625 Nairobi; <sup>b</sup>Ministry of Agriculture & Rural Development, Busia District Veterinary Office, P.O. Box 261, Busia Kenya
- 11:30AM–11:45AM **The role of Australian wild dogs (dingoes and dingo/domestic dog hybrids) in the transmission of *Echinococcus granulosus* from the bush to suburbia in Australia.**  
D.J. Jenkins\*  
Australian Hydatid Research Centre, 12, Mildura Street, Fyshwick ACT 2609, Australia
- 10:15AM–11:30AM **HOST/PARASITE GENETICS 2**  
**Moderator:** G. Mulcahy  
**Room:** Napoleon A1
- 10:15AM–10:30AM **The effects of sheep breed on the progress of *Lucilia sericata* larvae infestations (blowfly strike).**  
M. Rankin\*, P. Bates  
Parasitology Section, Scientific Services Unit, Veterinary Laboratories Agency (Weybridge), United Kingdom
- 10:30AM–10:45AM **The responsiveness of the Nigerian Dwarf goat in concurrent *Trypanosoma brucei*-*Haemonchus contortus* infection.**  
S.N. Chiejina<sup>\*a</sup>, B.B. Faka<sup>a</sup>, G.A. Musongong<sup>b</sup>, J.M. Behnke<sup>c</sup>, L.A. Ngongeh<sup>a</sup>, D. Wakelin<sup>c</sup>  
<sup>a</sup>Faculty of Veterinary Medicine, University of Nigeria, Nsukka Nigeria; <sup>b</sup>Wakwa Regional Centre for Agricultural Research for Development, Cameroon; <sup>c</sup>Department of Life and Environmental Sciences, University of Nottingham, NG7 2RD, UK
- 10:45AM–11:00AM **Variation of host and isolate response following experimental transmission of human *Cryptosporidium hominis* isolates into non-human hosts.**  
M. Giles\*, D.M. West, J.A. Marshall, J. Catchpole, R.N. Marshall  
Veterinary Laboratories Agency, Newhaw, Addlestone, Surrey, KT153NB, UK

- 11:00AM–11:15AM **A kinesin-related protein of *Babesia divergens*.**  
H. Skerrett<sup>a\*</sup>, C. Norris<sup>a</sup>, A. Zintl<sup>a</sup>, J. Gray<sup>b</sup>, G. Mulcahy<sup>a</sup>  
<sup>a</sup>Department of Veterinary Microbiology and Parasitology and Conway Institute of Biomolecular and Biomedical Research, University College Dublin, Ireland; <sup>b</sup>Department of Environmental Resource Management, University College Dublin, Ireland
- 11:15AM–11:30AM **Genetic activity of *Toxoplasma gondii* from free ranging chickens from many countries.**  
J.P. Dubey<sup>a</sup>, T. Lehmann<sup>b\*</sup>  
<sup>a</sup>United States Department of Agriculture, Agricultural Research Service, Animal and Natural Resources Institute, Parasite Biology, Epidemiology & Systematics Laboratory, Beltsville, Maryland USA; <sup>b</sup>Division of Parasitic Diseases, Centers for Disease Control and Prevention, Chamblee, Georgia USA
- 10:15AM–11:30AM **EPIDEMIOLOGY 1**  
**Moderator:** R.M. Kaplan  
**Room:** Napoleon A2
- 10:15AM–10:30AM **About the epidemiology of human cryptosporidiosis.**  
J. Euzeby\*  
Parasitologie, Ecole Veterinaire de Lyon, Marcy L'Etoile, France
- 10:30AM–10:45AM **Estimating the prevalence and intensity of *Schistosoma japonicum* infection in animal reservoir hosts in the Philippines.**  
T. Fernandez<sup>\*a</sup>, E. Balolong, Jr.<sup>b</sup>, H. Carabin<sup>c</sup>, A.L. Willingham III<sup>d</sup>, R. Olveda<sup>b</sup>, S.T. McGarvey<sup>c</sup>  
<sup>a</sup>Leyte State University, Baybay, Philippines; <sup>b</sup>Research Institute for Tropical Medicine, Alabang, Philippines; <sup>c</sup>Oklahoma University Health Sciences Center, Oklahoma USA; <sup>d</sup>Royal Veterinary and Agricultural University, Frederiksberg, Denmark; <sup>e</sup>Brown University, Rhode Island USA
- 10:45AM–11:00AM **Prevalence of otacariasis in French goats.**  
M. Cojan<sup>a</sup>, B. Polack<sup>\*a</sup>, C. Chartier<sup>b</sup>  
<sup>a</sup>Ecole Nationale Vétérinaire d'Alfort, Maisons-Alfort, France; <sup>b</sup>Laboratoire d'Etude et de Recherche Caprine AFSSA, Niort, France
- 11:00AM–11:15AM **Epidemiology of goat gastrointestinal nematodes in Georgia.**  
T.H. Terrill<sup>\*a</sup>, J.E. Miller<sup>b</sup>, R.M. Kaplan<sup>c</sup>, M. Larsen<sup>d</sup>, R.A. Kircher<sup>a</sup>, O.M. Samples<sup>a</sup>, S. Gelaye<sup>a</sup>  
<sup>a</sup>Fort Valley State University, Georgia USA; <sup>b</sup>Louisiana State University, Louisiana USA; <sup>c</sup>University of Georgia, Georgia USA; <sup>d</sup>Royal Veterinary and Agricultural University, Denmark
- 11:15AM–11:30AM **Gastrointestinal nematode infections in sheep on communal grazing land in Nyandarua District of central Kenya.**  
N. Maingi\*  
Department of Veterinary Pathology, Microbiology and Parasitology, Faculty of Veterinary Medicine, University of Nairobi, P. O. Box 29053, Kangemi, 00625, Nairobi, Kenya

10:15AM–12:00PM **BIOCHEMISTRY MOLECULAR BIOLOGY**

**Moderator:** D.M. Witcombe

**Room:** Napoleon A3

10:15AM–10:30AM **Purification and analysis of *Fasciola gigantica* glutathione S-transferases.**

H. Weiyi\*, Z. Weiyu

College of Animal Science and Technology, Guangxi University, 530005 Nanning, China

10:30AM–10:45AM **Neuropeptides and the anterior sensory neuroanatomy of gastrointestinal nematodes.**

L. Halferty\*, N.J. Marks, G.P. Brennan, D.W. Halton

Parasitology Research Group, Queen's University Belfast, Belfast BT9 7BL, Ireland

10:45AM–11:00AM **Electrophysiological analysis of neuropeptide and classical transmitter modulation of pharyngeal pumping in sheep nematodes.**

J. Song<sup>a</sup>, N. Sangster <sup>\*a</sup>, N.J. Marks<sup>b</sup>, T. Geary<sup>c</sup>

<sup>a</sup>Faculty of Vet Science, University of Sydney; <sup>b</sup>School of Biology and Biochemistry, Queen's University Belfast, UK; <sup>c</sup>Pharmacia Animal Health, Kalamazoo, MI USA

11:00AM–11:15AM **Stage-specific biochemical changes during the life cycle of *Oesophagostomum* spp.**

A. Joachim<sup>a\*</sup>, A. Dauschies<sup>b</sup>, B. Ruttkowski<sup>b</sup>

<sup>a</sup>Institute for Parasitology and Zoology, University of Veterinary Medicine Vienna, Austria; <sup>b</sup>Institute of Parasitology, University of Leipzig, Germany

11:15AM–11:30AM **EmTFP250: A TRAP family microneme protein in *Eimeria maxima*.**

D.M. Witcombe<sup>a\*</sup>, D.J.P. Ferguson<sup>b</sup>, S.I. Belli<sup>a</sup>, M.G. Wallach<sup>a</sup>, N.C. Smith<sup>a</sup>

<sup>a</sup>Institute for the Biotechnology of Infectious Diseases, University of Technology, Sydney, Westbourne Street, Gore Hill, NSW, 2065, Australia; <sup>b</sup>Nuffield Department of Pathology, Oxford University, John Radcliffe Hospital, Oxford, OX3 9DU, UK

11:30AM–11:45AM **Characterization of differentially expressed genes in unsporulated and sporulated oocysts of *Eimeria tenella*.**

K.B. Miska\*, R.C. Barfield, R.H. Fetterer

USDA/ARS, PBESL, BARC-East 10300 Baltimore Ave, Beltsville, MD 20705 USA

11:45AM–12:00PM **Single Nucleotide Polymorphism analysis of the parasitic nematode *Cooperia oncophora*.**

M. van der Veer\*, E. de Vries

Division of Parasitology and Tropical Veterinary Medicine, Faculty of Veterinary Medicine, Utrecht University, Utrecht, The Netherlands

11:45AM–1:00PM **LUNCH: ON YOUR OWN**

1:00PM–3:30PM      **SYMPOSIUM: CURRENT STATUS AND FUTURE PROSPECT OF MYIASIS CONTROL (*CONTINUED*)**

**Moderators:** P. Dorchies, D.D. Colwell

**Room:** Napoleon B3

1:00PM–2:30PM      **SYMPOSIUM: EMERGING PROTOZOAN DISEASES**

**Moderators:** P.A. Conrad, A.M. Tenter

**Room:** Napoleon C3

### **Babesiosis and theileriosis**

Chair: A.M. Tenter

**Perplexing *Piroplasma (Babesia/Theileria)* parasites: Old controversies and new discoveries.**

P.A. Conrad

**What role do *Babesia bicornis* and *Theileria bicornis* play in causing mortality in black rhinoceroses?**

B.L. Penzhorn

### **DISCUSSION**

### **TOXOPLASMOSIS**

**Chair:** P.A. Conrad

**“The emergence of toxoplasmosis in mammalian host species newly exposed to the parasite by human movements over the past centuries.”**

A.M. Tenter

**“Toxoplasmosis in captive raised Pallas’ Cats (*Otocolobus manul*, Pallas 1776).”**

R. Edelhofer

### **DISCUSSION**

### **LEISHMANIASIS**

**Chair:** P.A. Conrad

**“Canine leishmaniasis: Results of 1-year experimental infection of beagles with an American isolate of *Leishmania infantum*.”**

A.C. Rosypal

**“Serological and entomological surveillance of a new autochthonous focus of canine leishmaniasis in north-eastern Italy.”**

G. Capelli

**Status of leishmaniasis in other parts of Europe.**

A.M. Tenter

**DISCUSSION**

1:00PM–2:30PM      **SYMPOSIUM: FACTORS THAT INFLUENCE THE PREVALENCE OF  
ACARICIDE RESISTANCE AND TICK-BORNE DISEASES**

**Moderators: Chair:** L. Foil, **Co-Chair:** F. Guerrero

**Room:** Maurepas

**Tick resistance and hemoparasitic problems in Mexico.**

H. Fragoso

**Acaricide resistance mechanisms present in southern cattle ticks, *Boophilus microplus*, from Mexico.**

R.J. Miller

**Tsetse control in Africa: a threat to enzootic stability for tick-borne diseases?**

S.J. Torr

**Synthetic pyrethroid resistance in *Boophilus microplus* in Australia: association with the use of synthetic pyrethroid products to control *Haematobia irritans exigua*.**

N.N. Jonsson

**Applications of molecular biology in diagnosis of pesticide resistance in cattle ectoparasites.**

F. Guerrero

1:00PM–2:30PM      **AAVP SYMPOSIUM: “NEW APPROACHES FOR PARASITIC  
NEMATODES”**

**Moderator:** J. Urban, Immediate Past-President AAVP

**Room:** Napoleon BC12

**THE PARASITE**

**The interaction of *Wolbachia*, nematodes, and their hosts.**

T.R. Klei

**The molecular basis of anthelmintic resistance.**

R.K. Prichard

**THE HOST**

**The impact of probiotics on the immunobiology of nematode infections.**

G. Solano-Aguilar

**A genomic approach to nematode infections**

L.C. Gasbarre

1:00PM–2:30PM      **CONTROL STRATEGIES 1/ECTOPARASITES**

**Moderator:** M. Sandeman

**Room:** Napoleon A2

1:00PM–1:15PM      **Biological control of *Musca domestica* using entomopathogenic fungi.**

S. Gomathinayagam<sup>\*</sup>, A. Rajagopal, L. John

Department of Veterinary Parasitology, Madras Veterinary College, Chennai, India

1:15PM–1:30PM      **Field trial to assess the productivity advantages of a pour-on tick development inhibitor in comparison to an amitraz tickicide in fattening beef cattle.**

J-F. Graf<sup>\*a</sup>, A. Strizek<sup>b</sup>, B. Baxter<sup>b</sup>, B. Hosking<sup>b</sup>

<sup>a</sup>Novartis Animal Health, Inc., CH-4002 Basel, Switzerland; <sup>b</sup>Novartis Animal Health Australia Pty Ltd, Sydney, NSW 2145, Australia

1:30PM–1:45PM      **Mange (*Sarcoptes scabiei*) eradication through sow treatment with ivermectin and validation by slaughter checks and ELISA assays.**

C. Cargill<sup>a</sup>, R. Garcia<sup>\*b</sup>, D. Homer<sup>c</sup>, M. Sandeman<sup>d</sup>

<sup>a</sup>SARDI, University of Adelaide, Roseworthy, SA, Australia; <sup>b</sup>Merial Limited, Duluth, GA USA; <sup>c</sup>Merial Limited, Sydney, Australia; <sup>d</sup>LaTrobe University, Victoria, Australia

1:45PM–2:00PM      Withdrawn

2:00PM–2:15PM      **Potential biological control of *Psoroptes* mites with the fungal pathogen *Metarhizium anisopliae*.**

A.J. Brooks<sup>\*a</sup>, M. Aquino de Muro<sup>b</sup>, D. Moore<sup>b</sup>, R. Wall<sup>a</sup>

<sup>a</sup>School of Biological Sciences, The University of Bristol, Woodland Road, Bristol, BS8 1UG, UK; <sup>b</sup>CABI Bioscience, Bakeham Lane, Egham TW20 9TY, UK

2:15PM–2:30PM      **Neem extract as an effective risk-free insecticide in dogs.**

A.K. Singh<sup>\*</sup>

Government Veterinary Hospital, Khedi, Betul, M.P. India

1:00PM–2:15PM **EPIDEMIOLOGY 2**

**Moderator:** C. Epe

**Room:** Napoleon A3

1:00PM–1:15PM **Prevalence of helminth parasites in free range domestic fowl in Nairobi and its environs, Kenya.**

W.K. Munyua\*

Department of Veterinary Pathology, Microbiology and Parasitology, Faculty of Veterinary Medicine, University of Nairobi, P.O. Box 29053, Nairobi, Kenya

1:15AM–1:30AM **Treatment of cattle with an abamectin pour-on had no averse effect on dung beetle populations in Australia.**

P.J. Martin<sup>a</sup>, M. Friend<sup>b</sup>, L. Lawrence<sup>a\*</sup>

<sup>a</sup>Virbac (Australia) Pty Limited, Locked Bag 1000, Peakhurst NSW 2210; <sup>b</sup>Veterinary Health Research Pty Ltd Trevenna Rd, West Armidale NSW, 2350, Australia

1:30AM–1:45AM **Prevalence of tongue worm infection in stray dogs of Shahrekord, Iran.**

B. Meshgi<sup>a\*</sup>, R. Asgarian<sup>b</sup>

<sup>a</sup>Department of Parasitology, Faculty of Veterinary Medicine Tehran University, P.O. Box: 14155-6453 Tehran, Iran; <sup>b</sup>Department of Environment, Shahrekord, Iran

1:45AM–2:00PM **Recent investigation on the prevalence of gastrointestinal nematodes in cats from France and Germany.**

N. Coati<sup>\*a</sup>, K. Hellmann<sup>b</sup>, N. Mencke<sup>c</sup>, C. Epe<sup>a</sup>

<sup>a</sup>Institute of Parasitology, Hannover School of Veterinary Medicine, Hannover Germany;

<sup>b</sup>Klifovet AG, Munich, Germany; <sup>c</sup>Bayer AG, BHC-Business Group Animal Health, Leverkusen, Germany

2:00 PM–2:15 PM **Fascioloidosis of red deer and roe deer in Hungary (1997-2002)**

B. Egri\*, E. Giczi

University of West Hungary, Mosonmagyaróvár, Hungary

2:30PM–2:45PM Break

2:45PM–4:15PM **SYMPOSIUM: FACTORS THAT INFLUENCE THE PREVALENCE OF ACARICIDE RESISTANCE AND TICK-BORNE DISEASES (*CONTINUED*)**

**Moderators: Chair:** L. Foil, **Co-Chair:** F. Guerrero

**Room:** Maurepas

2:45PM–4:15PM      **SYMPOSIUM: VETERINARY PARASITES IN THE MARINE ENVIRONMENT: A THREAT TO AQUATIC MAMMALS AND PUBLIC HEALTH.**

**Moderators:** R. Fayer, D. Lindsay

**Room:** Napoleon B3

**Atlantic and Gulf Coast Study of *Cryptosporidium* in shellfish.**

R. Fayer

**An update on *Toxoplasma gondii* infections in California sea otters.**

M. Miller<sup>ab\*</sup>, P. Conrad<sup>a</sup>, I. Gardner<sup>a</sup>, C. Kreuder<sup>a</sup>, J. Mazet<sup>a</sup>, D. Jessup<sup>b</sup>, E. Dodd<sup>b</sup>, M. Harris<sup>b</sup>, J. Ames<sup>b</sup>, K. Worcester<sup>c</sup>, D. Paradies<sup>c</sup>, M. Grigg<sup>d</sup>

<sup>a</sup>School of Vet. Med., UC Davis, Davis, CA USA; <sup>b</sup>CDFG, Santa Cruz, CA USA; <sup>c</sup>Water Quality Board, San Luis Obispo, CA USA; <sup>d</sup>Stanford Medical School, Palo Alto, CA USA

***Giardia duodenalis* and *Cryptosporidium parvum* infections in pinnipeds.**

M.E. Olson<sup>a</sup>, A. Appelbee<sup>a</sup>, L. Measures<sup>b</sup>

<sup>a</sup>University of Calgary, Calgary, Alberta, Canada; <sup>b</sup>Fisheries and Oceans Canada, Maurice Lamontagne Institute, Mont-Joli, Quebec, Canada

***Toxoplasma gondii* in California sea otters (*Enhydra lutris nereis*): past and present.**

R.A. Cole<sup>\*a</sup>, D.S. Lindsay<sup>b</sup>, J.P. Dubey<sup>c</sup> and N.J. Thomas<sup>a</sup>

<sup>a</sup>USGS, NWHC, Madison, Wisconsin USA; <sup>b</sup>Virginia Tech, Blacksburg, Virginia USA; <sup>c</sup>USDA, ARS, Beltsville, Maryland USA

2:45PM–4:15PM      **ZOONOSIS 3**

**Moderator:** A.L. Willingham III

**Room:** Napoleon A1

2:45PM–3:00PM      **Population dynamics of *Toxocara canis* in pigs receiving a single or multiple infection.**

K. Taira<sup>\*a</sup>, I. Saeed<sup>a</sup>, P. Lind<sup>b</sup>, K.D. Murrell<sup>a</sup>, C.M.O. Kapel<sup>a</sup>

<sup>a</sup>Danish Centre for Experimental Parasitology, Department of Veterinary Microbiology, The Royal Veterinary and Agricultural University, Dyrøgevej 100 DK-1870, Frederiksberg C, Denmark; <sup>b</sup>Danish Veterinary Laboratory, Department of Immunology and Biochemistry, Bülowsvej 27, DK-1790, Copenhagen V, Denmark

3:00PM–3:15PM      **Survival of *Trichinella spiralis* in animal feeds.**

L. Oivanen<sup>ab</sup>, T. Mikkonen<sup>a</sup>, L. Haltia<sup>a</sup>, H. Karhula<sup>a</sup>, H. Saloniemi<sup>a</sup>, A. Sukura<sup>\*a</sup>

<sup>a</sup>Faculty of Veterinary Medicine, University of Helsinki, Finland; <sup>b</sup>National Food Agency, Helsinki, Finland

- 3:15PM–3:30PM **The source of human *Ascaris* infections in Denmark.**  
P. Nejsum<sup>\*a</sup>, E.D. Parker, Jr.<sup>a</sup>, J. Frydenberg<sup>a</sup>, J. Prag<sup>b</sup>, U.S. Sørensen<sup>c</sup>, A. Roepstorff<sup>d</sup>, D. Murrell<sup>d</sup>, J. Boes<sup>e</sup>  
<sup>a</sup>Department of Genetics and Ecology, University of Aarhus, DK 8000, Aarhus C, Denmark; <sup>b</sup>Department of Clinical Microbiology, Vigorg-Kjellerup Hospital; <sup>c</sup>Department of Medical Microbiology and Immunology, University of Aarhus; <sup>d</sup>Danish Center for Experimental Parasitology, The Royal Veterinarian and Agricultural University, Copenhagen; <sup>e</sup>Danish Bacon and Meat Council, Copenhagen, Denmark
- 3:30PM–3:45PM **Comparison of infectivity of *Trichinella zimbabwensis* in indigenous Zimbabwean pig (Mukota) and Large White.**  
E. Matenga<sup>\*a</sup>, S. Mukaratirwa<sup>a</sup>, A. L. Willingham<sup>b</sup>  
<sup>a</sup>Department of Paraclinical Veterinary Studies, University of Zimbabwe, P. O. Box MP167, Mt. Pleasant, Harare, Zimbabwe; <sup>b</sup>Danish Center for Experimental Parasitology, Royal Veterinary and Agricultural College, Ridebanevej3, 1870 Fredriksberg C, Denmark
- 3:45PM–4:00PM **Transmission of *Toxocara canis* infection: A pilot study in Estonia.**  
H. Talvik<sup>\*a</sup>, E. Moks<sup>b</sup>  
<sup>a</sup>Estonian Agricultural University; <sup>b</sup>University of Tartu, Estonia
- 4:00PM–4:15PM **Study of human cutaneous dirofilariosis in Caspian territories of Iran in 2001.**  
M.R. Siavashi  
Pasteur Institute of Iran, Tehran, Iran
- 2:45PM–4:15PM **HOST RESPONSE/IMMUNITY 3**  
**Moderator:** J.G.M. Houdijk  
**Room:** Napoleon C3
- 2:45PM–3:00PM **Sequential analysis of mucosal inflammatory responses during abomasal nematode infection in ewes.**  
R.L. Coop<sup>a\*</sup>, A. Donnan<sup>a</sup>, J.F. Huntley<sup>a</sup>, D. Bartley<sup>a</sup>, E. Jackson<sup>a</sup>, J.G.M. Houdijk<sup>b</sup>, F. Jackson<sup>a</sup>  
<sup>a</sup>Moredun Research Institute, Edinburgh, UK; <sup>b</sup>Scottish Agricultural College, Edinburgh, UK
- 3:00PM–3:15PM **Local immune responses in calves infected with the lungworm *Dictyocaulus viviparus*.**  
F.N.J. Kooyman<sup>\*</sup>, M. Eysker, H.W. Ploeger  
Div. Parasitology and Tropical Veterinary Medicine, Dept. Infectious Diseases and Immunology, Utrecht University, The Netherlands
- 3:15PM–3:30PM **Protective responses against cyathostome infections.**  
M.A. Baudena<sup>\*</sup>, M.R. Chapman, D.W. Horohov, T.R. Klei  
Dept. of Pathobiological Sciences, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803 USA

- 3:30PM–3:45PM **A study of IL-4, IL-8, INF- $\gamma$  And TNF- $\alpha$  in pigs infected with *Ascaris suum*.**  
B. Lassen<sup>a\*</sup>, A. Roepstorff<sup>b</sup>, N.R. Steenhard<sup>b</sup>, B. Aasted<sup>c</sup>, K.D. Murrell<sup>b</sup>  
<sup>a</sup>Copenhagen University, Denmark; <sup>b</sup>Danish Centre for Experimental Parasitology, The Royal Veterinary and Agricultural University; <sup>c</sup>Laboratory of Virology and Immunology, The Royal Veterinary and Agricultural University, Denmark
- 3:45PM–4:00PM **The effect of polyunsaturated fatty acids (PUFA) on FEC, mucosal and mast cells and eosinophil numbers in calves infected with *Ostertagia ostertagi* and *Cooperia onchophora*.**  
K.N. Nuituri<sup>a</sup>, M. Wallace<sup>a</sup>, J. Struthers<sup>a</sup>, J.R. Scaife<sup>a</sup>, M.A. Lomax<sup>a</sup>, F. Jackson<sup>b</sup>, E. Jackson<sup>b</sup>, A. Mackellar<sup>b</sup>, J.F. Huntley<sup>b</sup>, R.L. Coop<sup>b</sup>  
<sup>a</sup>Department of Agriculture and Forestry, University of Aberdeen, Aberdeen, AB24 5UA, UK; <sup>b</sup>Moredun Research Institute, Pentlands Science Park, Pentlands, Edinburgh, EH26 OPZ, UK
- 4:00PM–4:15PM **Antigen-specific IgG(T) responses as markers for larval cyathostomin infection in horses.**  
S.M.J. Dowdall\*, C.J. Proudman, R.J. Beynon, J.B. Matthews  
Veterinary Clinical Sciences, University of Liverpool, Leahurst, Neston, Wirral, UK. CH64 7TE
- 2:45PM–4:15PM **EPIDEMIOLOGY 3**  
**Moderator:** A.M. Zajac  
**Room:** Napoleon A2
- 2:45PM–3:00PM ***Oesophagostomum dentatum* does exhibit thermotaxis.**  
A.S. Freeman\*, F.T. Ashton, I.J. Driben, M. Larsen, G.A. Schad  
University of Pennsylvania School of Veterinary Medicine, Department of Pathobiology, Philadelphia, Pennsylvania USA
- 3:00PM–3:15PM **Macroparasites of reindeer in Fennoscandia: parasite population dynamics, control options, and environmental impact implications.**  
J.T. Hrabok\*, P.J. Waller  
Department of Parasitology, National Veterinary Institute, SE-75189 Uppsala, Sweden
- 3:15PM–3:30PM **A digital map database for South America: A tool to predict environmental risk of parasitic diseases.**  
P. Nieto<sup>a\*</sup>, M.E. Bavia<sup>b</sup>, R. Amaral<sup>c</sup>, M. Fuentes<sup>d</sup>, J.B. Malone<sup>a</sup>  
<sup>a</sup>Louisiana State University, Baton Rouge, LA USA; <sup>b</sup>Universidade Federal da Bahia, Salvador, Brazil; <sup>c</sup>Ministry of Health, Brazilia, Brazil; <sup>d</sup>Universidad de València, Valencia, Spain
- 3:30PM–3:45PM **Internal parasitism in feral island horses.**  
A.N. Wack<sup>a\*</sup>, A.M. Zajac<sup>a</sup>, S. Stuska<sup>b</sup>  
<sup>a</sup>Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg, Virginia USA; <sup>b</sup>National Park Service, Cape Lookout National Seashore, Harkers Island, North Carolina USA

- 3:45PM–4:00PM **A prevalence survey of antibodies to *Anoplocephala perfoliata* in horses from the United States.**  
C.R. Reinemeyer<sup>a\*</sup>, A.W. Farley<sup>a</sup>, S.A. Kania<sup>b</sup>, B.W. Rohrbach<sup>b</sup>, R.H. Dressler<sup>c</sup>  
<sup>a</sup>East Tennessee Clinical Research, Inc., Knoxville, Tennessee USA; <sup>b</sup>University of Tennessee College of Veterinary Medicine, Knoxville, Tennessee USA; <sup>c</sup>Pfizer Animal Health, Barksdale, Texas USA
- 4:00PM–4:15PM **Prevalence and distribution of *Fasciola gigantica* and *Paramphistomum microbothrium* in Iringa district, Tanzania.**  
J.D. Keyyu<sup>a\*</sup>, A.A. Kassuku<sup>a</sup>, N.C. Kyvsgaard<sup>b</sup>, A.L. Willingham III<sup>b</sup>, J. Monrad<sup>b</sup>  
<sup>a</sup>Sokoine University of Agriculture, P.O. Box 3019, Morogoro, Tanzania; <sup>b</sup>The Royal Veterinary and Agricultural University, Dyrølægevej 100, DK-1870 Frederiksberg C, Denmark
- 2:45PM–4:15PM **DRUG RESISTANCE 1**  
**Moderator:** L.F. LeJambre  
**Room:** Napoleon A3
- 2:45PM–3:00PM **The effect of moxidectin and ivermectin on the larval viability and recovery of resistant *Ostertagia circumcincta*.**  
K.L. Tyrrell\*, L.F. LeJambre  
CSIRO Livestock Industries, Locked Bag 1, Armidale, NSW 2350, Australia
- 3:00PM–3:15PM **Evaluation of strategies to control anthelmintic resistance in nematodes of sheep.**  
M.A. Taylor<sup>a\*</sup>, K.R. Hunt<sup>b</sup>, S.K. Leask<sup>b</sup>, F. Kennedy<sup>c</sup>, R. Keatinge<sup>c</sup>  
<sup>a</sup>Central Science Laboratory, Sand Hutton, York, UK; <sup>b</sup>Veterinary Laboratories Agency, Weybridge, UK; <sup>c</sup>ADAS Redesdale, Otterburn, Northumberland, UK
- 3:15PM–3:30PM **A New Zealand perspective on anthelmintic resistance.**  
A.W. Murphy  
Fort Dodge, New Zealand Limited
- 3:30PM–3:45PM **Characterization of moxidectin resistant *Trichostrongylus colubriformis* and *Haemonchus contortus*.**  
L.F. LeJambre<sup>\*a</sup>, J. Geoghegan<sup>b</sup>, M. Lyndal-Murphy<sup>c</sup>  
<sup>a</sup>CSIRO Livestock Industries, Locked bag 1, Armidale, NSW 2350 Australia; <sup>b</sup>Virbac, 15 Pritchard Place, Peakhurst, NSW, Australia; <sup>c</sup>Queensland Department of Primary Industries, Locked Mail Bag 4, Moorooka, Qld 4105, Australia

3:45PM–4:00PM **Prevalence of anthelmintic resistance on horse farms in the southern United States.**

R.M. Kaplan<sup>a\*</sup>, T.R. Klei<sup>b</sup>, E.T. Lons<sup>c</sup>, G.D. Lester<sup>d</sup>, D.D. French<sup>b</sup>, S.C. Tollover<sup>c</sup>, C.H. Courtney<sup>d</sup>

<sup>a</sup>Coll. Vet. Med., Univ. Georgia, Athens, GA USA; <sup>b</sup>School Vet. Med., Louisiana State Univ., Baton Rouge, LA USA; <sup>c</sup>Gluck Equine Research Center, Univ. Kentucky, Lexington, KY USA; <sup>d</sup>Coll. Vet. Med., Univ. Florida, Gainesville, FL USA

4:00PM–4:15PM **Characterisation of a multiple resistant field isolates of *Teladorsagia circumcincta* from Scottish lowland sheep farms.**

D.J. Bartley<sup>a\*</sup>, F. Jackson<sup>a</sup>, E. Jackson<sup>a</sup>, L. Stenhouse<sup>a</sup>, N. Sargison<sup>b</sup>

<sup>a</sup>Moredun Research Institute, Pentland Science Park, EH26 OPZ, UK; <sup>b</sup>LAPTU, Easter Bush Veterinary Centre, Royal Dick School Veterinary Studies, EH25 9RG, UK

4:15PM–5:45PM **VIRBAC SYMPOSIUM : EQUIMAX, UPDATES ON THE DIAGNOSTICS, BIOLOGY AND CONTROL OF CESTODES IN HORSES**

**Moderator:** T.R. Klei, School of Veterinary Medicine, Louisiana State University

**Room:** Napoleon BC12

**A prevalence survey of antibodies to *Anoplocephala perfoliata* in horses from the United States.**

C. Reinemeyer.

East Tennessee Clinical Research, Knoxville, Tennessee USA

**Clinical aspects of tapeworm infection in the UK.**

C. Proudman

Senior Lecturer in Equine Surgery, University of Liverpool, UK

**Epidemiological studies on equine cestodes in warm climates: infection pattern, population dynamics and associated pathology.**

A. Meana

Associate Professor in Veterinary Parasitology, University of Madrid, Spain

**Efficacy and safety studies with Equimax (ivermectin –praziquantel)**

Virbac SA

R&D—Virbac Corp R&D

**CONCLUSIONS:** Interest of a combination product in the control of concomittant infections in horses.

G.C. Coles.

5:45PM–7:15PM      **MERIAL SYMPOSIUM: CURRENT CONCEPTS IN VETERINARY  
PARASITOLOGY**

**Moderator:** M. Soll, Merial

**Room:** Napoleon BC12

**The use of acaracides in dogs to prevent the transmission of tick-borne pathogens.**

E.B. Breitschwerdt

**Anthelmintic resistance in equine cyathostomins: Issues and implications for control.**

R.M. Kaplan

**The importance of parasite-induced behavioural changes in veterinary parasitology.**

A.B. Forbes

8:00PM      **MERIAL RECEPTION**

**Room:** Rhythm Ball Room, Second Floor

**WEDNESDAY, AUGUST 13, 2003**

7:30AM–9:00AM    **POSTER SESSION 2—CONTINENTAL BREAKFAST**  
**Room:** Armstrong

Posters will be exhibited Tuesday and Wednesday. Odd numbered posters will be tended by authors on Tuesday. Even numbered posters will be tended by authors on Wednesday.

9:00AM–9:45AM    **PLENARY 4—RECENT ORIGINS ON ANCIENT PARASITES—*TOXOPLASMA*.**  
**Speaker:** D. Sibley  
**Room:** Napoleon BC12

9:45AM–10:30AM    **PLENARY 5—MODELING HOST GENETICS, RESISTANCE TO INFECTIOUS DISEASE.**  
**Speaker:** S.C. Bishop  
**Room:** Napoleon BC12

10:30AM–10:45AM    Break

10:45AM–12:15PM    **INTERVET SYMPOSIUM: BOVINE NEOSPOROSIS**  
**Moderator:** T. Schettters, Parasitological R&D—Intervet International  
**Room:** Napoleon BC12

**Bovine neosporosis, a serious obstacle to cattle breeding and a challenge for scientists.**

J.P. Dubey.  
USDA, Parasite Biology and Epidemiology Laboratory

**Immune response to *Neospora caninum*.**

A. Adrianarivo  
University of California, Department of Pathology, Microbiology and Immunology

**A controlled study with Bovilis Neoguard in New Zealand dairy herds.**

C. Heuer  
Massey University, Institute of Veterinary, Animal and Biomedical Sciences

**A case/control study with Bovilis Neoguard in Costa Rican dairy herds.**

K. Frankena  
Wageningen University and Research Centre, Quantitative Veterinary Epidemiology Group.

12:15PM -    **AFTERNOON FREE**

**THURSDAY, AUGUST 14, 2003**

7:30AM–8:15AM CONTINENTAL BREAKFAST

**Place:** Foyer outside Napoleon BC12

8:15AM–9:00AM **PLENARY 6—ANTIPARASITIC DRUGS IN THE 21<sup>ST</sup> CENTURY**

**Speaker:** T.G. Geary

**Room:** Napoleon BC12

9:00AM–10:30AM **SYMPOSIUM: ASSESSING THE BURDEN OF *TAENIA SOLIUM* CYSTICERCOSIS AND ECHINOCOCCOSUS**

**Moderator:** A.L. Willingham III, P.M. Schantz

**Room:** Napoleon B3

**Assessing the burden and impact of cysticercosis and echinococcosus to justify global initiatives for combating these neglected parasitic zoonoses (Introduction).**

A.L. Willingham III (9:00-9:10)

**Assessing the burden of cysticercosis.**

H. Carabin (9:10-9:35)

**How does cysticercosis impact resource-poor communities in South Africa?**

T. Krecek (9:35-9:50)

**Taeniosis-cysticercosis in man and pigs in Ecuador.**

P. Dorny (9:50-10:05)

**Assessing the burden of echinococcosis.**

P. Torgerson (10:05-10:30)

Break (10:30-10:45)

**The burden and impact of echinococcosus in Australia.**

D. Jenkins (10:45-11:00)

**Cysticercosis and echinococcosis – Potential linkage with FAO activities and FAO support possibilities.**

C. Eddi (11:00-11:15)

**DISCUSSION (11:15- 12:00)**

9:00AM–10:30AM **EQUINE CYATHASTOME WORKSHOP**

**Moderator:** R.M. Kaplan

**Room:** Napoleon BC12

9:00AM–10:30AM **CONTROL STRATEGIES 2/SHEEP**

**Moderator:** M.B. Molento

**Room:** Napoleon C3

9:00AM–9:15AM **Biological control of nematode parasites of sheep in Malaysia using the nematophagous fungus *Duddingtonia flagrans*.**

P. Chandrawathani<sup>a</sup>, O. Jamnah<sup>a</sup>, P.J. Waller<sup>b\*</sup>, M. Larsen<sup>c</sup>, A.T. Gillespie<sup>d</sup>

<sup>a</sup>VRI, Ipoh, Malaysia; <sup>b</sup>SWEPAR, SVA, Uppsala, Sweden; <sup>c</sup>DCEP, KVL, Copenhagen, Denmark; <sup>d</sup>Chr. Hansen A/S, Hørsholm, Denmark

9:15AM–9:30AM **Famacha method for decision making in the treatment of endoparasitic infection in small ruminants in Brazil.**

M.B. Molento\*, C. Tasca, A.K. Gallo, M.J. Ferreira, R.R. Bononi, E. Stecca

Universidade Paranaense, Umuarama, PR, Brazil. \*New address: Universidade Federal de Santa Maria, Santa Maria, RS, Brazil

9:30AM–9:45AM **Influence of different forages on gastrointestinal nematode infections in grazing lambs.**

S.M. Thamsborg\*, H. Mejer, M. Bandier, M. Larsen

Danish Centre for Experimental Parasitology, Royal Veterinary & Agricultural University, Denmark

9:45AM–10:00AM **Farm evaluation of biological control of sheep parasites on the island of Gotland, Sweden.**

P.J. Waller<sup>a\*</sup>, O. Schwan<sup>b</sup>, B-L. Ljungström<sup>c</sup>

<sup>a</sup>SWEPAR, SVA, Uppsala, Sweden; <sup>b</sup>SvDHFV, Visby, Sweden; <sup>c</sup>Vidilab, Enköping, Sweden

10:00AM–10:15AM **Efficacy of *Duddingtonia flagrans* chlamydospores against naturally acquired gastrointestinal nematode infections in Blackface ewes and lambs.**

F. Jackson<sup>a\*</sup>, Y. Gordon<sup>a</sup>, R.L. Coop<sup>a</sup>, D.J. Bartley<sup>a</sup>, E. Jackson<sup>a</sup>, A. Gillespie<sup>b</sup>

<sup>a</sup>Moredun Research Institute, EH26 OPZ, UK; <sup>b</sup>Chr. Hansen, Animal Health Development, 2970 Hoersholm, Denmark

10:15AM–10:30AM **Reducing the degree of protein scarcity rapidly improves expression of immunity to abomasal nematodes in ewes.**

J.G.M. Houdijk<sup>a\*</sup>, I. Kyriazakis<sup>a</sup>, F. Jackson<sup>b</sup>, R.L. Coop<sup>b</sup>

<sup>a</sup>Animal Nutrition and Health Department, Scottish Agricultural College, Edinburgh, UK; <sup>b</sup>Moredun Research Institute, Penicuik, UK

9:00AM–10:30AM **Chemotherapy 2**

**Moderator:** D.S. Lindsay

**Room:** Napoleon A1

9:00AM–9:15AM **Ponazuril is highly effective in the prevention and treatment of toxoplasmosis in mice.**

S.M. Mitchell<sup>\*a</sup>, A.M. Zajac<sup>a</sup>, W.L. Davis<sup>b</sup>, D.S. Lindsay<sup>a</sup>

<sup>a</sup>Virginia Tech, Blacksburg, Virginia USA; <sup>b</sup>Bayer HealthCare, Animal Health Division, Shawnee, Kansas USA

9:15AM–9:30AM **Use of reversing agents of P-glycoprotein to increase the systematic availability of macrocyclic lactones: a promising tool.**

M. Alvinerie\* J. Dupuy, J.F. Sutra, A. Lespine

Laboratoire de Pharmacologie Toxicologie, INRA 180 Chemin de Tournefeuille, 31931, Toulouse, France

9:30AM–9:45AM **Studies on the efficacy of toltrazuril, diclazuril and sulphadimidine against artificial infections with *Isospora suis* in piglets.**

H.C. Mundt<sup>\*a</sup>, A. Dauschies<sup>b</sup>, S. Wüstenberg<sup>a</sup>, M. Zimmermann<sup>b</sup>

<sup>a</sup>Bayer AG, Animal Health Business Group, Clinical Development, Leverkusen, Germany; <sup>b</sup>Institute for Parasitology, Faculty of Veterinary medicine, University of Leipzig, Leipzig, Germany

9:45AM–10:00AM **The effects of paraherquamide and 2-deoxy-paraherquamide on cholinergic receptor subtypes in *A. suum*.**

R.J. Martin\*, C.L. Clarke, A.P. Robertson

Department of Biomedical Sciences, Iowa State University, Ames, IA 50011, USA

10:00AM–10:15AM **The effects of a imidacloprid and permethrin combination against developmental stages of *Ixodes ricinus* ticks.**

H. Mehlhorn<sup>\*a</sup>, G. Schmahl<sup>a</sup>, N. Mencke<sup>b</sup>, T. Bach<sup>b</sup>

<sup>a</sup>Department of Parasitology, Heinrich Heine University, Düsseldorf, Germany; <sup>b</sup>Bayer AG, BHC-Business Group Animal Health, Leverkusen, Germany

10:15AM–10:30AM **The anthelmintic efficacy of the plant, *Albizia anthelmintica*, against the nematode parasites *Haemonchus contortus* of sheep and *Heligmosomoides polygyrus* of mice.**

J.B. Githiori<sup>ab\*</sup>, J. Höglund<sup>b</sup>, P.J. Waller<sup>b</sup>, R.L. Baker<sup>a</sup>

<sup>a</sup>International Livestock Research Institute (ILRI), P.O. Box 30709, Nairobi; <sup>b</sup>Department of Parasitology (SWEPAR), National Veterinary Institute and Swedish University of Agricultural Sciences, P.O. Box 7073, S-751 89 Uppsala, Sweden

9:00AM–10:30AM **RUMINANT PARASITES**

**Moderator:** M. Eysker

**Room:** Napoleon A2

9:00AM–9:15AM **Effect of gender on susceptibility to *Haemonchus contortus* infection in lambs.**

M. Gauly\*, M. Schackert, G. Erhardt

Institute of Animal Breeding and Genetics, Justus Liebig University Giessen, D-35398 Giessen, Germany

9:15AM–9:30AM **Prevalence of *Fasciola gigantica* in Zambia.**

A.M. Phiri<sup>a\*</sup>, I.G.K. Phiri<sup>a</sup>, C.S. Sikasunge<sup>a</sup>, J. Monrad<sup>b</sup>

<sup>a</sup>School of Veterinary Medicine, University of Zambia, Lusaka, Zambia; <sup>b</sup>Danish Centre for Experimental Parasitology, Frederiksberg, Denmark

9:30AM–9:45AM ***In vivo* transfer of *Dictyocaulus viviparus*.**

H.W. Ploeger\*, C. ten Cate, M. Eysker

Div. Parasitology & Tropical Veterinary Medicine, Dept. of Infectious Diseases and Immunology, Utrecht University, The Netherlands

9:45AM–10:00AM **Production effects of *Cooperia oncophora* infections in cattle.**

W.E. Pomroy<sup>a</sup>, D.M. West<sup>a</sup>, D.M. Leathwick<sup>b</sup>, S.T. Morris<sup>a</sup>

<sup>a</sup>Institute of Veterinary, Animal and Biomedical Sciences, Massey University; <sup>b</sup>AgResearch Grasslands, Palmerston North, New Zealand

10:00AM–10:15AM **Effect of gastro-intestinal nematodes on the productivity of goats in smallholder farms in Mozambique.**

A. Atanásio<sup>a\*</sup>, J. Boomker<sup>b</sup>

<sup>a</sup>Department of Diagnostics and Research, National Veterinary Research Institute, P.O. Box 1922, Maputo, Mozambique; <sup>b</sup>Department of Veterinary Tropical Diseases, University of Pretoria, Private Bag X04, Onderstepoort 0110, Republic of South Africa

10:15AM–10:30AM **A model for ruminant gastric worms: Intraspecific differences between cottontail & woodchuck isoates of *Obeliscoides cuniculi*.**

N. Samuel<sup>a\*</sup>, D.E. Worley<sup>b</sup>

<sup>a</sup>California Baptist University, Riverside CA USA; <sup>b</sup>Veterinary Molecular Biology Laboratory, Montana State University, Bozeman, Montana USA

9:00AM–10:30AM **PHYLOGENY AND SYSTEMATICS**

**Moderator:** R.B. Gasser

**Room:** Napoleon A3

9:00AM–9:15AM **SSCP-based identification of members within the *Contraecum rudolphii* complex (Nematoda: Ascaridoidea: Anisakidae) using ribosomal DNA markers.**

X.Q. Zhu<sup>a\*</sup>, S. D'Amelio<sup>b</sup>, F. He<sup>a</sup>, R.Q. Lin<sup>a</sup>, L. Paggi<sup>b</sup>, R.B. Gasser<sup>c</sup>, Z. Cao<sup>a</sup>, H.Q. Song<sup>a</sup>

<sup>a</sup>South China Agricultural University, Guangzhou, Guangdong Province, China;

<sup>b</sup>Università di Roma "La Sapienza", Rom, Italy; <sup>c</sup>The University of Melbourne, Melbourne, Victoria, Australia

9:15AM–9:30AM **Molecular phylogeny of filarial nematodes and the evolution of the association between filariae and *Wolbachia pipientis*.**

M. Casiraghi<sup>a\*</sup>; L. Baldo<sup>a</sup>, M. Mortarino<sup>a</sup>, O. Bain<sup>b</sup>

<sup>a</sup>Università di Milano, DIPAV, Sezione di Patologia Generale e Parassitologia; <sup>b</sup> Muséum National d'Histoire Naturelle, Paris, France

9:30AM–9:45AM **Detection of *Hammondia heydorni*-like organisms and their differentiation from *Neospora caninum* using RAPD-PCR.**

C. Sreekumar<sup>a\*</sup>, D.E. Hill<sup>a</sup>, V.M. Fournet<sup>a</sup>, B.M. Rosenthal<sup>a</sup>, D.S. Lindsay<sup>b</sup>, J.P. Dubey<sup>a</sup>

<sup>a</sup>Parasite Biology, Epidemiology and Systematics Laboratory, Animal and Natural Resources Institute, Agricultural Research Service, United States Department of Agriculture, Beltsville, Maryland 20705 USA; <sup>b</sup>Center for Molecular Medicine and Infectious Diseases, Department of Biomedical Sciences and Pathobiology, Virginia-Maryland Regional College of Veterinary Medicine, Virginia Tech, 1410 Prices Fork Road, Blacksburg, Virginia 24061 USA

9:45AM–10:00AM **Multilocus microsatellite genotyping of *Cryptosporidium parvum*.**

J.M. Wastling<sup>a</sup>, M. Mallon<sup>b</sup>, H.V. Smith<sup>c</sup>, W.J. Reilly<sup>d</sup>, A. Tait<sup>b</sup>

<sup>a</sup>Division of Infection and Immunity, Joseph Black Building, IBLS, University of Glasgow, Glasgow G12 8QQ, United Kingdom; <sup>b</sup>Wellcome Centre for Molecular Parasitology, University of Glasgow, UK; <sup>c</sup>Scottish Parasite Diagnostic Laboratory, Glasgow, UK; <sup>d</sup>Scottish Centre for Infection and Environmental Health, Glasgow, UK

10:00AM–10:15AM **Natural circulation of capsule-forming *Trichinella*, problems of taxonomy and hybridization.**

A.S. Bessonov<sup>\*</sup>

K. I. Skryabin. Institute of Helminthology, Moscow 117218, Russia

10:15AM–10:30AM **Genetic diversity in *Neospora caninum*.**

S.M. Latham<sup>a\*</sup>, E.A. Innes<sup>a</sup>, J.M. Wastling<sup>b</sup>

<sup>a</sup>Moredun Research Institute, Pentlands Science Park, Edinburgh, UK; <sup>b</sup>Division of Infection and Immunity, Institute of Biomedical and Life Sciences, University of Glasgow, Glasgow G12 8QQ, United Kingdom

10:30AM–10:45AM **BREAK**

10:45AM–12:15PM **SYMPOSIUM: CYSTICERCOSIS (*CONTINUED*)**

**Moderator:** A.L. Willingham III, P.M. Schantz

**Room:** Napoleon B3

10:45AM–12:15AM **WORKSHOP: VETERINARY PARASITE EDUCATION**

**Moderator:** C. Monahan

**Room:** Napoleon A1

10:45AM–12:15PM **CHEMOTHERAPY 3**

**Moderator:** F.V. Olaechea

**Room:** Napoleon BC12

10:45AM–11:00AM **Evaluation of the period of protection of 10% Moxidectin Cattle Long-Acting against *Dictyocaulus viviparus*, *Haemonchus placei*, *Trichostrongylus axei* and *Oesophagostomum radiatum* infection in cattle.**

S. Ranjan\*, E. Szewczyk, R. Search, R. Pollet, D. Amodie, R. DeLay  
Fort Dodge Animal Health, Princeton, New Jersey USA

11:00AM–11:15AM **Comparison of the anthelmintic persistence of doramectin, ivermectin, moxidectin and eprinomectin in weaned beef cattle in Australia against natural infections of nematodes.**

S.R. Barber<sup>a\*</sup>, M. Alvinerie<sup>b</sup>, P.I. Veale<sup>c</sup>, G.A. Anderson<sup>d</sup>, V.M. Bowles<sup>a</sup>  
<sup>a</sup>Centre for Animal Biotechnology, University of Melbourne, Australia; <sup>b</sup>Laboratoire de Pharmacologie-Toxicologie, INRA, Toulouse, France; <sup>c</sup>Para-Site Diagnostic Services, Benalla, Australia; <sup>d</sup>Veterinary Clinical Centre, University of Melbourne, Australia

11:15AM–11:30AM **Effect of urea-molasses block supplementation on goats naturally infected with gastrointestinal nematodes.**

R.M. Waruiru\*, J.W. Ngotho, M.N. Mutune  
Department of Veterinary Pathology, Microbiology & Parasitology, Faculty of Veterinary Medicine, University of Nairobi, P.O. Box 29053, Kangemi, Kenya

11:30AM–11:45AM **Eprinomectin pour-on at single and at double dose against gastrointestinal nematode infections in goats.**

L. Rinaldi<sup>a\*</sup>, V. Veneziano<sup>a</sup>, G. Capelli<sup>b</sup>, R. Rubino<sup>c</sup>, G. Cringoli<sup>a</sup>  
<sup>a</sup>Dip. Patologia e Sanita Animale, Università di Napoli, Italy; <sup>b</sup>Dip. Scienze Sperimentali Veterinarie, Università di Padova, Italy; <sup>c</sup>Istituto Sperimentale per la Zootecnia, Bella Scalo-Potenza, Italy

11:45AM–12:00AM **Efficacy of jetting and 2 pour-on formulations containing spinosad against *Melophagus ovinus*.**

F.V. Olaechea<sup>a\*</sup>, J. Corley<sup>a</sup>, H. Perez Monti<sup>b</sup>, F. Raffo<sup>a</sup>, J. Rothwell<sup>b</sup>  
<sup>a</sup>National Institute for Agricultural Technology (INTA), CC. 277, (8400) Bariloche, Argentina; <sup>b</sup>Elanco Animal Health, 123 Epping Rd, Macquarie Park NSW 2113, Australia

12:00AM–12:15PM **Control effects of closantel liposomes on sheep experimentally infected with *Fasciola hepatica*.**

H.E. Hongxuan<sup>ab</sup>, Q. Ximing<sup>a</sup>, Z. Qiangzhe<sup>a</sup>, D. Mingxing<sup>a\*</sup>  
<sup>a</sup>State Key Laboratory of Biomembrane & Membrane Biotechnology, Department of Biological Sciences and Biotechnology, Tsinghua University, Beijing 100084, P.R. China; <sup>b</sup>Department of Animal Science, Henan Vocation-Technical Teachers College, Xinxiang, Henan 450003, P.R. China

10:45AM–12:15PM **DRUG RESISTANCE 2**

**Moderator:** R.K. Prichard

**Room:** Napoleon A2

10:45AM–11:00AM **Studies on drug-resistance of *Eimeria tenella* in China.**

W. Ming<sup>a\*</sup>, A. Jian<sup>b</sup>, Y. Liyun<sup>a</sup>, G. Depei<sup>a</sup>, Y. Yonglan<sup>a</sup>  
<sup>a</sup>College of Veterinary Medicine, China Agricultural University, Beijing, P.R. China; <sup>b</sup>Department of Animal Science and Technology, Beijing Agricultural College, Beijing, P.R. China

11:00AM–11:15AM **Detection of primaquine restant *Theileria sergenti* parasites by flow cytometry and some biochemical properties of the parasites.**

Y. Yagi<sup>a\*</sup>, A. Ohnuma<sup>b</sup>, M. Yamanaka<sup>c</sup>, H. Shiono<sup>a</sup>, Y. Chikayama<sup>a</sup>, A. Kumar<sup>a</sup>  
<sup>a</sup>Hokkaido Research Station, National Institute of Animal Health, Sapporo, Japan; <sup>b</sup>Graduate School of Science, Hokkaido University, Sapporo, Japan; <sup>c</sup>Hokkaido Hidaka Livestock Hygiene Service Center, Shizunai, Japan

11:15AM–11:30AM **Sequencing of exon 4 of the (insert square)-tubulin isotype 1 gene from 12 cyathostomin species.**

J.E. Hodgkinson<sup>\*</sup>, A.J. Davidson, J.B. Matthews  
Department of Veterinary Parasitology, University of Liverpool, UK

11:30AM–11:45AM **Heterologous expression of glutamate gated chloride channel subunits from the cattle nematode *Cooperia oncophora*.**

A.I. Njue<sup>\*</sup>, R.K. Prichard  
Institute of Parasitology, McGill University, 21, 111 Lakeshore Road, Ste-Anne-de-Bellevue, Quebec, H9X 3V9, Canada

- 11:45AM–12:00PM **Importance of the beta-tubulin codon 200 polymorphism for the mechanism of benzimidazole resistance in cyathostomes investigated by quantitative real time PCR.**  
G. von Samson-Himmelstjerna\*, N. Wirtherle, M. Pape, S. Buschbaum, T. Schneider  
Institute of Parasitology, Hannover School of Veterinary Medicine, Germany
- 12:00PM–12:15PM **Steps in characterization of allelic variation of an ivermectin sensitive GluCL gene in *C. nassatus*.**  
R. Tandon\*, R.M. Kaplan  
Department of Medical Microbiology and Parasitology. College of Veterinary Medicine, University of Georgia, Athens, GA USA
- 10:45AM–12:15PM **CONTROL STRATEGIES 3**  
**Moderator:** S. Petkevicius  
**Room:** Napoleon A3
- 10:45AM–11:00AM **Dietary carbohydrates introduce changes in the metabolism in the large intestine that influence the population of *Oesophagostomum dentatum* in pigs.**  
K.E. Bach Knudsen<sup>a\*</sup>, S. Petkevicius<sup>b</sup>, H. Jørgensen<sup>a</sup>, K.D. Murrell<sup>b</sup>  
<sup>a</sup>Danish Institute of Agricultural Sciences, Tjele, Denmark; <sup>b</sup>The Royal Veterinary & Agricultural University, Copenhagen, Denmark
- 11:00AM–11:15AM **Inactivation of *Cryptosporidium parvum* oocysts by the composting of cattle feces.**  
K. Shimura\*, T. Tsutsui, T. Kamio, M. Ohta, K. Kanehira, I. Yamane  
National Institute of Animal Health, Tsukuba, Ibaraki, Japan
- 11:15AM–11:30AM **The effects of carbohydrates on the establishment of *Trichuris suis* in the large intestine of pigs.**  
L.E. Thomsen<sup>a\*</sup>, K.E. Bach Knudsen<sup>b</sup>, A. Roepstorff<sup>a</sup>  
<sup>a</sup>Danish Centre for Experimental Parasitology, The Royal Veterinary and Agricultural University, Dyrhøvej 100, DK-1870 Frederiksberg C, Denmark; <sup>b</sup>Department of Animal Nutrition and Physiology, Danish Institute of Agricultural Sciences, Research Centre Foulum, P.O. Box 50, DK-8830 Tjele, Denmark
- 11:30AM–11:45AM **A meta-analysis of the milk production response after anthelmintic treatment in adult dairy cattle.**  
J. Sanchez<sup>\*a</sup>, I. Dohoo<sup>a</sup>, J. Carrier<sup>b</sup>, L. DesCôteaux<sup>b</sup>  
<sup>a</sup>Department of Health Management, Atlantic Veterinary College, University of Prince Edward Island, 550 University Avenue, Charlottetown PEI, C1A 4P3, Canada; <sup>b</sup>Faculté de médecine vétérinaire, Université de Montréal, Sciences Cliniques, St-Hyacinthe, Quebec, J2S 7C6, Canada

- 11:45AM–12:00PM **Behavioral mechanisms underlying production responses in dairy cows treated with eprinomectin.**  
A.B. Forbes<sup>a\*</sup>, C.A. Huckle<sup>b</sup>, M.J. Gibb<sup>b</sup>  
<sup>a</sup>Merial, Sandringham House, Harlow, Essex, CM19 5TG, UK; <sup>b</sup>Institute of Grassland & Environmental Research (IGER), North Wyke, Devon, EX20 2SB, UK
- 12:00PM–12:15PM **Practical implementation of a strategic endoparasite control program in a commercial riding stable.**  
E.M. Abbott<sup>a\*</sup>, D.J. Baker<sup>b</sup>, J.P. Barley<sup>c</sup>  
<sup>a</sup>Abbott Associates, Lutterworth, UK; <sup>b</sup>Priors Marston, UK; <sup>c</sup>Huntingdon Life Sciences, Huntingdon, UK
- 10:45AM–12:30PM **EPIDEMIOLOGY 4**  
**Moderator:** E. Claerebout  
**Room:** Napoleon C3
- 10:45AM–11:00AM **A sero-epidemiological survey of parasites in cattle in the north eastern Free State, South Africa.**  
M.S. Mtshali<sup>a\*</sup>, P.A. Mbatia<sup>a</sup>, D.T. de Waal<sup>b</sup>  
<sup>a</sup>Parasitology Research Program, Qwa-Qwa Campus, University of the Free State, South Africa; <sup>b</sup>Parasitology Division, Onderstepoort Veterinary Institute, South Africa
- 11:00AM–11:15AM ***Cryptosporidium* and *Giardia*: epidemiology and control on California dairy farms.**  
W.A. Smith<sup>\*</sup>, E.R. Atwill, K. Tate, D.J. Lewis, M. Lennox, M. Pereira, P.A. Conrad  
University of California, Davis, CA USA
- 11:15AM–11:30AM **Epidemiology of subclinical nematode infections in dairy cows on five farms in England: 1978/9 & 2002.**  
M.T. Fox<sup>a\*</sup>, M. Hutchinson<sup>a</sup>, A. Riddle<sup>a</sup>, R. Bond<sup>a</sup>, A.B. Forbes<sup>b</sup>  
<sup>a</sup>Royal Veterinary College, London, UK; <sup>b</sup>Merial Animal Health, Harlow, UK
- 11:30AM–11:45AM **Seroprevalence and associated risk factors of neosporosis in beef and dairy cattle in southern Italy.**  
P. Paradies<sup>a\*</sup>, G. Testini<sup>a</sup>, N. Leone<sup>a</sup>, R. Lia<sup>a</sup>, G. Capelli<sup>b</sup>, D. Otranto<sup>a</sup>  
<sup>a</sup>Department of Health and Animal Welfare, Faculty of Veterinary Medicine, University of Bari, Italy; <sup>b</sup>Department of Experimental Veterinary Sciences, Faculty of Veterinary Medicine, University of Padua, Italy
- 11:45AM–12:00PM **Epidemiology of amphistomes in cattle in the Highveld and Lowveld Communal grazing areas of Zimbabwe.**  
D.M. Pfukenyi<sup>a\*</sup>, S. Mukaratirwa<sup>b</sup>, J. Monrad<sup>c</sup>  
<sup>a</sup>Central Veterinary Laboratory, Diagnostic and Research Branch, P.O. Box CY 551, Causeway, Harare, Zimbabwe; <sup>b</sup>University of Zimbabwe, Faculty of Veterinary Science, Paraclinical Veterinary Studies, P.O. Box MP 167, Mt Pleasant, Harare, Zimbabwe; <sup>c</sup>Danish Centre for Experimental Parasitology, Dyrlægevej 100, DK-1870, Frederiksberg, Denmark

- 12:00PM–12:15PM **Epidemiological survey of *Cryptosporidium parvum* and *Giardia duodenalis* in dairy calves in Belgium.**  
T. Geurden\*<sup>a</sup>, E. Claerebout<sup>a</sup>, D. Berkens<sup>b</sup>, P. Geldof<sup>a</sup>, J. Vercruyse<sup>a</sup>  
<sup>a</sup>Laboratory of Parasitology, Ghent University, Merelbeke, Belgium; <sup>b</sup>Prince Leopold Institute of Tropical Medicine, Antwerp, Belgium
- 12:15PM–12:30PM ***Neospora caninum* abortion in a dairy and beef herd: use of horizontal and vertical transmission parameters to assess the sensitivity and the specificity of an Indirect Immuno-Fluorescence Antibody Test.**  
F. De Meerschman<sup>a</sup>, N. Speybroeck<sup>b</sup>, D. Berkvens<sup>b</sup>, C. Focant<sup>a</sup>, J. Detry<sup>a</sup>, C. Rettigner<sup>a</sup>, B. Losson<sup>a</sup>  
<sup>a</sup>Laboratory of Parasitology, Department of Infectious and Parasitic Diseases, Faculty of Veterinary Medicine, University of Liege, Boulevard de Colonster, 20, 4000, Liege, Belgium; <sup>b</sup>Department of Animal Health, Unit of Epidemiology and Applied Statistics, Prince Leopold Institute of Tropical Medicine, 2000, Antwerp, Belgium
- 12:15AM–1:30PM **LUNCH: ON YOUR OWN**
- 1:30PM–2:30PM **VACCINE 2**  
**Moderator:** G.M. Faubert  
**Room:** Napoleon A1
- 1:30PM–1:45PM **The immuno-protective effect of DNA vaccine against experimental inoculation of chickens with *Eimeria tenella*.**  
S.Q. Wu, J.J. Jiang\*, Q. Liu, Y.J. Zhu  
College of Veterinary Medicine, China Agricultural University, Beijing, China
- 1:45PM–2:00PM **Development of a recombinant vaccine against *Babesia divergens* in cattle.**  
Th.P.M. Schetters<sup>a\*</sup>, E. Precigout<sup>b</sup>, S. Delbecq<sup>b</sup>, J. Kleuskens<sup>a</sup>, J. van de Crommert<sup>a</sup>, L. Janssen<sup>a</sup>, A. Gorenflot<sup>b</sup>  
<sup>a</sup>Intervet International, Boxmeer, The Netherlands; <sup>b</sup>University of Montpellier I, Montpellier, France
- 2:00PM–2:15PM **Oral immunizations of BALB/c mice with *Giardia duodenalis* recombinant cyst wall protein (rCWP2) impedes cyst output.**  
G.M. Faubert<sup>a\*</sup>, R. Larocque<sup>a</sup>, K. Nakagaki<sup>b</sup>, P. Lee<sup>a</sup>, A. Abdul-Wahid<sup>a</sup>  
<sup>a</sup>Institute of Parasitology, McGill University, Montreal, Qc. Canada; <sup>b</sup>Collaborate Laboratories for Wildlife Health, Gentle, Nippon Jui Chikusan University, Yokyo, Japan.
- 2:15PM–2:30PM **The vaccine for prevention of echinococcosis of animals.**  
M. Aminjonov\*, Sh. Rasulov, Sh. Aminjonov  
Uzbek Research Institute of Veterinary after named acad. K.I. Skryabin, Samarkand, Uzbekistan

1:30PM–3:15PM      **CONTROL STRATEGIES 4**

**Moderator:** T.H. Terrill

**Room:** Napoleon BC12

1:30PM–1:45PM      **Seasonal dynamics and overwintering survival of cattle GI nematodes using *Duddingtonia flagrans*.**

S-O. Dimander\*, J. Höglund, P.J. Waller  
SWEPAR, Uppsala, Sweden

1:45PM–2:00PM      **Effectiveness of copper-oxide wire particles on the control of *Haemonchus contortus* in sheep.**

A.D. Watkins<sup>a\*</sup>, J.E. Miller<sup>a</sup>, T.H. Terrill<sup>b</sup>, M. Larsen<sup>c</sup>, R.M. Kaplan<sup>d</sup>  
Department of Pathological Sciences, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803 USA; <sup>b</sup>Fort Valley State University, Fort Valley, GA USA; <sup>c</sup>Royal Veterinary & Agricultural University, Denmark; <sup>d</sup>University of Georgia, Athens, Georgia USA

2:00PM–2:15PM      **Supplementation and/or single anthelmintic (AH) treatment of browsing kids naturally infected with gastrointestinal nematodes (GIN) during the wet season in tropical Mexico.**

J.F. Torres-Acosta<sup>a\*</sup>, A. Aguilar Caballero<sup>a</sup>, L. Canul-Ku<sup>a</sup>, L. Cob-Galera<sup>a</sup>, J. Vargas-Magaña<sup>a</sup>  
<sup>a</sup>FMVZ-Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico

2:15PM–2:30PM      **Potential of the fungus *Duddingtonia flagrans* to control nematodes in goats in southeastern United States: a dose-titration and dose-timing study.**

M. Larsen<sup>a\*</sup>, T.H. Terrill<sup>b</sup>, O. Samples<sup>b</sup>, S. Husted<sup>a</sup>, J.E. Miller<sup>c</sup>, R.M. Kaplan, S. Gelaye<sup>b</sup>  
<sup>a</sup>Royal Veterinary & Agricultural University, Denmark; <sup>b</sup>Fort Valley State University, <sup>c</sup>University of Georgia, Georgia USA; <sup>d</sup>Louisiana State University, Louisiana USA

2:30PM–2:45PM      **Potential and limitations of the use of evasive grazing for prevention of parasitic gastroenteritis in small ruminants under temperate conditions.**

M. Eysker\*, N. Bakker, Y.A. van der Hall, I. Van Hecke, F.N.J. Kooyman, H.W. Ploeger  
Division of Parasitology and Tropical Veterinary Medicine, Utrecht University, Utrecht, The Netherlands

2:45PM–3:00PM      **Successful substitution on pastures of a resistant nematode (*Teladorsagia circumcincta*) population with a susceptible strain.**

M.N. Moussavou-Boussougou, C. Sauvé, J. Cabaret\*  
INRA, BASE, 37380 Nouzilly, France

- 3:00PM–3:15PM **Screening and characterization of an Indian isolate of nematophagous fungi for its use in IPM as a biocontrol agent against nematode parasites of ruminants.**  
J.B. Chauhan\*, R.B. Subramanian, P.K. Sanyal  
Lab No. 109, Department of Biosciences, Sardar Patel University, SPU Campus, Vallabh Vidyanagar- 388120, Gujarat, India; Biotechnology Laboratory (R&D), National Dairy Development Board (NDDB), Anand- 388001, Gujarat, India
- 1:30PM–2:45PM **EPIDEMIOLOGY 5/SWINE**  
**Moderator:** TBA  
**Room:** Napoleon A2
- 1:30PM–1:45PM **Factors associated with prevention of porcine cysticercosis in Mgeta Division, an area in a highly endemic country, Tanzania: Analysis of focus groups discussion and in-depth interviews of 251 informants and meat inspection.**  
M.E. Boa\*<sup>a</sup>, A.A. Kassuku<sup>a</sup>, A.L. Willingham<sup>b</sup>  
<sup>a</sup>Department of Veterinary Microbiology and Parasitology, Sokoine University of Agriculture, P. O. Box 3019, Morogoro, Tanzania; <sup>b</sup>Danish Centre for Experimental Parasitology, Royal Veterinary and Agricultural University, Ridebanevej 3, DK-1870 Frederiksberg C, Denmark
- 1:45PM–2:00PM **A Bayesian approach for prevalence estimation and test validation of porcine cysticercosis in Zambia.**  
P. Dorny<sup>ab\*</sup>, I.K. Phiri<sup>c</sup>, D. Berkvens<sup>a</sup>, A.L. Willingham III<sup>d</sup>, S. Gabriel<sup>b</sup>, J. Vercruyse<sup>b</sup>  
<sup>a</sup>Institute of Tropical Medicine, Antwerp, Belgium; <sup>b</sup>Ghent University, Merelbeke, Belgium; <sup>c</sup>University of Zambia, Lusaka, Zambia; <sup>d</sup>Royal Veterinary and Agricultural University, Frederiksberg, Denmark
- 2:00PM–2:15PM **Disease surveillance of lesions in pigs at slaughterhouses during period 1996-2002 in the Czech Republic.**  
M. Zizlavsky, D. Lukesova\*, Z. Smitka, L. Svobodova, D. Tydlitát  
Sevaron Consulting Ltd., Brno, Czech Republic
- 2:15PM–2:30PM **Transmission of *Ascaris suum* to piglets born on contaminated pastures.**  
A. Roepstorff\*, H. Mejer, N.P.K. Hansen  
Danish Centre for Experimental Parasitology, The Royal Veterinary and Agricultural University, Frederiksberg C, Denmark
- 2:30PM–2:45PM **Effectiveness of health education intervention for reducing the risk of porcine cysticercosis in Mbulu District, Tanzania.**  
H.A. Ngowi<sup>a\*</sup>, A.A. Kassuku<sup>a</sup>, M.R.S. Mlozi<sup>a</sup>, J.E.D. Mlangwa<sup>a</sup>, H. Carabin<sup>b</sup>, E.L. Tolma<sup>b</sup>, A.L. Willingham III<sup>c</sup>  
<sup>a</sup>Sokoine University of Agriculture, Morogoro, Tanzania; <sup>b</sup>College of Public Health, Oklahoma City, OK USA; <sup>c</sup>WHO/FAO Collaborating Center for Parasitic Zoonoses,

Danish Centre for Experimental Parasitology, The Royal Veterinary and Agricultural University, Frederiksberg, Denmark

1:30PM–3:00PM **HOST RESPONSE/IMMUNITY 4**

**Moderator:** T.W. Spithill

**Room:** Napoleon A3

- 1:30PM–1:45PM **The bovine gut cellular responses following primary and challenge infection with *Calicophoron microbothrium metacercariae*.**  
M. Maveenyengwa<sup>a\*</sup>, S. Mukaratirwa<sup>a</sup>, M. Obwolo<sup>a</sup>, J. Monrad<sup>b</sup>  
<sup>a</sup>Department of Paraclinical Veterinary Studies, University of Zimbabwe, P.O. Box MP 167, Mt Pleasant, Harare, Zimbabwe; <sup>b</sup>Danish Centre for Experimental Parasitology, Royal Veterinary and Agricultural University, Dyrølægevej 100, DK-1870, Frederiksberg C, Copenhagen, Denmark
- 1:45PM–2:00PM **Comparison of humoral response to *Fasciola hepatica* and *Fasciola gigantica* experimental infection in sheep.**  
Z. Weiyu<sup>ab\*</sup>, M. Emmanuelle<sup>b</sup>, H. Weiyi<sup>a</sup>, C. Alain<sup>b</sup>  
<sup>a</sup>College of Animal Science and Technology, Guangxi University, 530005 Nanning, China; <sup>b</sup>UMR INRA/ENVN Interactions, Hôte-parasite-Milieu, Ecole Nationale Vétérinaire de Nantes, BP 40706, F-44307 Nantes Cedex 03, France
- 2:00PM–2:15PM **Peritoneal lavage cells of Indonesian thin tail sheep mediate antibody-dependent superoxide radical cytotoxicity to newly excysted juvenile *Fasciola gigantica* but not *F. hepatica*.**  
D. Piedraftia<sup>a</sup>, S.E. Estuningsih<sup>b</sup>, Suharyanta<sup>b</sup>, S. Widjajanti<sup>b</sup>, S. Partoutomo<sup>b</sup>, H.W. Raadsma<sup>c</sup>, T.W. Spithill<sup>ad\*</sup>  
<sup>a</sup>Monash University, Clayton Australia; <sup>b</sup>Research Institute for Veterinary Science, Bogor, Indonesia; <sup>c</sup>University of Sydney, Camden, Australia; <sup>d</sup>McGill University, Montreal, Canada
- 2:15PM–2:30PM **Maternal to foetal transfer of immunoglobulins in *Schistosoma mattheei* infected cows.**  
S. Gabriel<sup>ab\*</sup>, J. Vercruyse<sup>b</sup>, I.K. Phiri<sup>a</sup>, B. Goddeeris<sup>b</sup>  
<sup>a</sup>School of Veterinary Medicine, Lusaka, Zambia; <sup>b</sup>Faculty of Veterinary Medicine, Ghent, Belgium
- 2:30PM–2:45PM **How the intestinal microflora of the pigs helps regulate the population dynamics of *Oesophagostomum dentatum*.**  
S. Petkevicius<sup>ac\*</sup>, K.E. Bach Knudsen<sup>b</sup>, K.D. Murrell<sup>a</sup>, H. Jørgensen<sup>b</sup>, A. Roepstorff<sup>a</sup>  
<sup>a</sup>The Royal Veterinary & Agricultural University, Copenhagen, Denmark; <sup>b</sup>Danish Institute of Agricultural Sciences, Tjele, Denmark; <sup>c</sup>Veterinary Institute of Lithuanian Veterinary Academy, Kaišiadorys, Lithuania
- 2:45PM–3:00PM **Predisposition to *Ascaris suum* infections in neonatally exposed pigs.**  
H. Mejer<sup>a\*</sup>, A. Roepstorff<sup>a</sup>, L. Eriksen<sup>a</sup>  
<sup>a</sup>The Royal Veterinary and Agricultural University, Frederiksberg, Denmark

1:30PM–3:00PM      **CHEMOTHERAPY 4/CANINE**

**Moderator:** F. Beugnet

**Room:** Napoleon B3

1:30PM–1:45PM      **Treatment of *Neotrombicula* associated dermatitis in dogs using topical permethrin-pyriproxyfen combination.**

D. Smal<sup>a</sup>, P. Jasmin<sup>b\*</sup>, P. Mercier<sup>b</sup>

<sup>a</sup>DVM, Veterinary Clinic, 59 450 Sin Le Noble, France; <sup>b</sup>DVM, Medical Department, Virbac S.A., 06 511 Carros, France

1:45PM–2:00PM      **Assay of fipronil efficacy to prevent canine monocytic ehrlichiosis in endemic areas.**

B. Davoust<sup>a</sup>, F. Beugnet<sup>b\*</sup>

<sup>a</sup>Direction du Service de Santé des Armées, BP16, Lyon 69998, France; <sup>b</sup>Merial, 29 Av T. Garnier, 69348 Lyon, France

2:00PM–2:15PM      **Efficacy of a compound preparation containing imidacloprid 8.8% w/w and permethrin 44% w/w against ticks (*I. ricinus*, *R. sanguineus*) and fleas (*Ct. felis*) on dogs.**

C. Epe<sup>\*a</sup>, N. Coati<sup>a</sup>, D. Stanneck<sup>b</sup>

<sup>a</sup>Institute of Parasitology, Hannover School of Veterinary Medicine, Buenteweg 17, D-30559 Hannover, Germany; <sup>b</sup>Bayer AG, BHC-BG Animal Health, D-51368 Leverkusen, Germany

2:15PM–2:30PM      **Evaluation of the efficacy of an imidacloprid 10% / moxidectin 2.5% spot-on against *Sarcoptes scabiei* var *canis* on dogs.**

L.J. Fourie<sup>a\*</sup>, C. Du Rand<sup>b</sup>, J. Heine<sup>c</sup>

<sup>a</sup>University of the Free State, Bloemfontein, Republic of South Africa; <sup>b</sup>ClinVet International (Pty) Ltd, Bloemfontein, Republic of South Africa; <sup>c</sup>Bayer, BHC AH RD Parasiticides, Leverkusen, Germany

2:30PM–2:45PM      **European multicenter field trial on the efficacy and safety of a topical formulation of imidacloprid and permethrin (Advantix™) in dogs naturally infected with ticks and/or fleas.**

K. Hellmann<sup>a</sup>, T. Knoppe<sup>a</sup>, K. Krieger<sup>b\*</sup>, D. Stanneck<sup>b</sup>

<sup>a</sup>Klifovet AG Munich, Germany; <sup>b</sup>Bayer AG, BHC AH RD Parasiticides, Leverkusen, Germany

2:45PM–3:00PM      **Evaluation of K9 Advantix™ vs Frontline® Plus topical treatments to repel brown dog ticks (*Rhipcephalus sanguineus*) on dogs.**

D.R. Young<sup>\*a</sup>, R.G. Arther<sup>b</sup>, W.L. Davis<sup>b</sup>

<sup>a</sup>Young Veterinary Research Services, Turlock, California USA; <sup>b</sup>Bayer HealthCare, Shawnee Mission, Kansas USA

1:30PM–2:45PM      **CHEMOTHERAPY 5/EQUINE**

**Moderator:** J.O.D. Slocombe

Room: Napoleon C3

1:30PM–1:45PM

***Parascaris* resistance to macrocyclic lactones.**

J.O.D. Slocombe<sup>a\*</sup>, R. de Gannes<sup>b</sup>, M.C. Lake<sup>a</sup>

<sup>a</sup>Department of Pathobiology, Ontario Veterinary College, University of Guelph, Guelph, ON, Canada; <sup>b</sup>Equine Veterinary Services, Schomberg, ON, Canada

1:45PM–2:00PM

**Field efficacy of ivermectin plus praziquantel oral paste against naturally acquired, gastrointestinal nematodes and cestodes of horses in North America and Europe.**

S. Rehbein<sup>a\*</sup>, J.E. Holste<sup>b</sup>, M.Y. Doucet<sup>c</sup>, C. Fenger<sup>d</sup>, A. Paul<sup>e</sup>, C.R. Reinemeyer<sup>f</sup>, L.L. Smith<sup>g</sup>, S. Yoon<sup>h</sup>, S.E. Marley<sup>h</sup>

<sup>a</sup>Merial GmbH, Kathrinehof RC, Rohrdorf, Germany; <sup>b</sup>Merial, Missouri RC, Fulton, MO USA; <sup>c</sup>Fac. Méd. Vét., Univ. Montréal, Saint-Hyacinthe, Canada; <sup>d</sup>Equine Internal Medicine Consulting, Georgetown, KY USA; <sup>e</sup>University of Illinois, Urbana, IL USA; <sup>f</sup>East Tennessee Clinical Res. Inc., Knoxville, TN USA; <sup>g</sup>Smith R&D, Lodi, WI USA; <sup>h</sup>Merial, Duluth, GA USA

2:00PM–2:15PM

**Efficacy of an ivermectin (0.2 mg/kg) and praziquantel (1.0 mg/kg) combination paste against cestodes, nematodes, and bots when administered as a single oral dose to horses.**

S.E. Marley<sup>a</sup>, D.E. Hutchens<sup>b</sup>, C.R. Reinemeyer<sup>c</sup>, J.E. Holste<sup>d</sup>, A.J. Paul<sup>b</sup>, S. Rehbein<sup>e</sup>

<sup>a</sup>Merial, Duluth, GA, USA; <sup>b</sup>Univ. of Illinois, Urbana, IL USA; <sup>c</sup>East TN Clinical Research, Inc., Knoxville, TN USA; <sup>d</sup>Merial, Missouri RC, Fulton, MO USA; <sup>e</sup>Merial GmbH, Kathrinehof RC, Rohrdorf, Germany

2:15PM–2:30PM

**Efficacy of aversectin preparations against intestinal nematodes of horses.**

T.A. Kuzmina, A.I. Starovir\*

Institute of Zoology, NAS of Ukraine, 15, B. Khmelnytskyi Str., Kyiv, 01601, Ukraine

2:30PM–2:45PM

**Larvicidal activity of an ivermectin praziquantel combination against migrating *Strongylus vulgaris* larvae in equids.**

L. Frayssinet<sup>a\*</sup>, P. Mercier<sup>a</sup>, L. Grisi<sup>b</sup>, I.V.F. Martins<sup>b</sup>, C.R. White<sup>c</sup>

<sup>a</sup>Virbac SA, Carros, France; <sup>b</sup>Universidade Federal Rural do Rio de Janeiro, RJ, Brazil; <sup>c</sup>Virbac do Brasil, Sao-Paulo, SP, Brazil

3:00PM–3:15PM

**BREAK**

3:15PM–4:45PM **FORT DODGE ANIMAL HEALTH SYMPOSIUM: MOXIDECTIN: NEW PRODUCT RESEARCH UPDATE**

**Moderator:** D. Rock, Ft Dodge Animal Health

**Room:** Napoleon BC12

**PROHEART<sup>®</sup> 6 and PROHEART SR-12 Research update: A summary of recent studies on hookworm persistent efficacy, 3-month retroactive activity and safety in puppies.**

K. Heaney<sup>a\*</sup>, T. Rock<sup>a</sup>, D. Amodie<sup>a</sup>, R.D. Rulli<sup>a</sup>, D.D. Bowman<sup>b</sup>, N. Neumann<sup>b</sup>, M. Ulrich<sup>b</sup>, J.W. McCall<sup>c</sup>, R. Lindahl<sup>d</sup>.

<sup>a</sup>Fort Dodge Animal Health, Princeton, NJ USA; <sup>b</sup>CHK-R&D, Stanwood, MI USA; <sup>c</sup>TRS Labs, INC., Athens, GA USA; <sup>d</sup>MPI Research, Mattawan, MI USA

**CYDECTIN<sup>®</sup> moxidectin long-acting injectable solution for cattle: A novel parenteral moxidectin formulation providing extended protection for cattle against parasites.**

R. DeLay\*, W. Steber

Fort Dodge Animal Health, Princeton, New Jersey USA

**Interest of a new combination of moxidectin and praziquantel in the control of mixed tapeworm infections and heavy strongyle challenge in horses.**

F. Blond-Riou\*, A. Flochlay

Fort Dodge Animal Health, Tours, France

**Control of gastrointestinal parasitism in sheep in New Zealand by pre-lambing treatment of ewes with a 0.5% moxidectin injectable formulation (EWEGUARD).**

A.W. Murphy\*

Fort Dodge, New Zealand Limited

4:45PM–5:45PM **GENERAL ASSEMBLY—CLOSING CEREMONY**

**Room:** Napoleon BC12

6:30PM–7:30PM **COCKTAILS**

**Room:** TBA

7:30PM–10:00PM **BANQUET—DANCE BAND**

**Room:** TBA