

**JOINT SPRING SYMPOSIUM 2007**

*“Integrated Parasite Control”*

Danish Society for Parasitology

And

Danish Society for Tropical Medicine & International Health

**Program & Abstracts**

Time: Friday 23 March, 2007 8:30-15:00

Venue: University of Copenhagen,  
Faculty of Life Sciences (former KVL),  
**Auditorium 1-01,**  
Bülowsvej 17, 1870 Frederiksberg C.

## **INTEGRATED PARASITE CONTROL (IPC)**

From vertical research projects on disease specific topics to integrated parasite control. How do we manage? Integration can be understood as the integration of control of specific diseases in the existing health care system, integration/collaboration of several disease control programmes or integration/combination of different control methods against a specific parasite infection.

In veterinary medicine IPC has been applied for years primarily due to the fast development of anti parasitic drug resistance and the simultaneous occurrence of many parasites with very different life cycle patterns. Another reason is the growing consumer demand for organic farming, which has to rely on non-chemical alternatives. Hence, IPC strategies have been developed including grazing management, livestock management, helminth hostile nutrition, rotation systems, biological control and selection of resistant animals in combination with smart use of the existing drugs.

In the human health sector, poor and resource scarce health care systems in least developed countries, overwhelmed by HIV/AIDS, have very few resources left for other health problems including the parasitic diseases. Multiple infections in the same individual, which is often the norm, affect disease progression, treatment strategy, drug efficacy and tolerance. However, improved diagnostic tools combined with effective drugs and drug combinations and in some cases vaccines have opened a window of opportunities to improve control measures.

There is a growing demand for cost-effective disease control for humans as well as livestock and this has led to many new initiatives across well-established borders. However, many limitations and knowledge gaps for evidence-based integrated parasite/disease control still remain to be elucidated. The Spring Symposium 2007 will attempt to focus on the latest experiences from both livestock and human health initiatives.

## PROGRAM

- 08:30-08:45 Registration
- 08:45-08:50 Welcome by the Chairman for the Danish Society for Parasitology
- 08:50-09:50 *Keynote Lecture:* Jürg Utzinger: Integrated helminth control strategies.
- 09:50-10:10 Massa, K., Magnussen, P., Annette Olsen: The community-directed treatment approach versus the school-based treatment approach in the control of schistosomiasis and soil-transmitted helminthiasis among school-age children.
- 10:10-10:40 **Coffee/Tea + poster session**
- 10:40-11:00 Niels Kyvsgaard, MV Johansen, H. Carabin: Simulating control of *Taenia solium* infections using a modified Reed-Frost model.
- 11:00-11:20 A. Lee Willingham III, Mejer, H., Thamsborg, S.M., Johansen, M.V., Magnussen, P., Ørnbjerg, N., the CESA project: Integrating *Taenia solium* cysticercosis control with that of other neglected parasitic livestock diseases.
- 11:20-11:40 Stig M. Thamsborg, Guillot, J., Miro, G., Epe, C., Genchi, C., Deplazes, P., van Knapen, F., Fisher, M.: Parasite control in pets: what worm when?
- 11:40-12:00 Martin Krarup Nielsen, Haaning, N., Olsen, S.N.: Consistent strongyle egg shedding in horses – a basis for implementation of selective therapy.
- 12:00-13:00 **Lunch and Poster session**
- 13:00-13:40 *Keynote Lecture:* Stig M. Thamsborg, A. Roepstorff, J. Monrad: Integrated parasite control in domestic animals
- 13:40-14:00 Casper Hempel, L. Wiese, M. Penkowa, N. Kirkby, J.A.L. Kurtzhals: Erythropoietin (Epo) treatment increases survival and reduces neuronal apoptosis during murine cerebral malaria (CM).
- 14:00-14:20 S. Wilson, Birgitte J. Vennervald, H.da Kadzo, E. Ileri, C. Amaganga, M. Booth, H. C. Kariuki, J.Mwatha, G. Kimani, JH. Ouma, E. Muchiri and David W. Dunne: Concurrent exposure to schistosomiasis and malaria – aggravated morbidity and potential implications for control.
- 14:20-14:40 Anders Enevold, M. Theisen, L.S Vestergaard, ATR Jensen, T. Staalsoe, T.G Theander, I.C Bygbjerg, W.MMM Nkya, M. Alifrangis: Impact of host immunity on the treatment of drug resistant *Plasmodium falciparum* malaria in Tanzania

14:40-15:00 Rune Stensvold, Arendrup, M.C.; Mølbak, K., Nielsen, H.V.: Detecting *Blastocystis* using parasitological and DNA-based methods. A comparative study.

15:00- Get-together with cold drinks

**Note: All speakers must reserve 5 minutes for discussion**