

Veterinary and Zoonotic Parasitology Session Themes at ICOPA XII

Updated 27 January 2010

Listed by Parasite/ Area

HELMINTHS

Transmission of food borne helminths

Emerging and re-emerging zoonoses

Trichinella

Comparative studies: veterinary large animal models for human zoonoses

Polyparasitism and the immune system: impact on disease outcome

Immunomodulation of host responses by parasites

Helminths in allergies and other chronic diseases

Acquired immunity to helminths

Nematode protein families

Use of *C. elegans* as a model to probe functions of parasite genes

Population genetics and genetic diversity of parasitic helminths

Reproductive and developmental biology of parasites

Filarial diseases

Helminth neurobiology

Molecular studies for control of liver flukes: Fasciola, Opisthorchis, Clonorchis

Wolbachia biology and nematode control

New Chemotherapies for Helminth Infections

Novel solutions for the sustainable control of nematodes in ruminants

Schistosomiasis control: challenges and prospects

Comparative genomics of schistosomes in the post-genome era

Current progress in understanding the molecular mechanisms and markers of anthelmintic resistance

DEBATE: Drugs or vaccines for schistosomiasis?

WORKSHOP: Anthelmintic resistance in human helminth infections: Concerns and responses

WORKSHOP: New technologies for helminths in the post-genomics era

WORKSHOP: Harnessing helminth genomes: nematode and platyhelminth database resources.

WORKSHOP: Polyparasitism and impact on vaccine design and delivery

WORKSHOP: Designing efficacious worm vaccines

WORKSHOP: Taenia and Echinococcus

WORKSHOP: Naming genes in the parasitic nematodes

NOVEL APPROACHES TO THE CONTROL OF HELMINTH PARASITES OF LIVESTOCK

NACHPL (Novel approaches to the control of helminth parasites of livestock)

session 1: Resistance management through refugia based strategies

NACHPL session 2: Alternative parasiticides and nutritional approaches

NACHPL session 3: Communication of helminth control strategies

NACHPL session 4: How to use new anthelmintics?

NACHPL session 5: Novel diagnostics and target identification

NACHPL session 6: Implementation of alternative control options in emerging economies

KINETOPLASTIDA

Vaccines for kinetoplastida

Acquired immunity to kinetoplastida

Harnessing the Tri-tryp genomes

New chemotherapies for kinetoplastids

RNA editing and mitochondrial gene expression in kinetoplastids

RNA and regulation of gene expression in kinetoplastids

Kinetoplastid cell biology

Kinetoplastid biochemistry

Host-parasite interactions and signalling

Drug targets and drug action in kinetoplastids

Immunopathogenesis in human African trypanosomiasis

Chagas disease: control and epidemiology in endemic and non-endemic countries
ECTOPARASITES
Tick control
Control of Ectoparasites
Ectoparasites of the marine environment
Vector competence: ticks, mosquitoes, tsetse
Tick genomics
Understanding the molecular targets of insecticides and mechanisms of resistance in ectoparasites
Vector-parasite interactions
PROTOZOA AND OTHER PARASITES
Toxoplasma cell biology
Congenital toxoplasmosis
Genetic characterization of protozoan parasites
Molecular epidemiology and drug targets for Cryptosporidium
Tick borne diseases: Babesia, Anaplasma, Theileria, Lyme disease
Neospora
Coccidiosis
Molecular epidemiology of giardiasis
Giardia biology
Entamoeba
Trichomonas
Avian parasites
OTHER GENERAL TOPICS
Parasites in a warmer world: impact of climate change on parasitism
Parasites, poverty and the Millenium Development Goals
Aquaculture & Aquatic Animal Health
Aquatic parasitology
Biodiversity
Parasite Ecology: Host-parasite relationships in coastal ecosystems
New insights into parasite life cycles
Geospatial health: predicting distribution of parasitic diseases
Parasite Evolution
Mathematical modelling of parasitic infections
New developments in diagnostics for emerging human and animal diseases
Application of nanobody technology in parasite biology and diagnosis
Innate immunity
Beyond mice: revisiting animal models of natural parasite infections
Molecular phylogenetics and parasite systematics
Human population genetics and host genes for parasite resistance
Proteomics of parasite development and secretomes
Proteomics for biomarker discovery and antigen identification
Parasite drug resistance and responses to drug pressure
DNDi discovery symposium: the DNDi model for drug discovery programs of neglected diseases
Carbohydrate biochemistry, glycolipids and parasite biology
Metabolomics
Structural biology of parasite targets
Parasite proteases
Parasiticide regulation and efficacy standards of drugs
Alternative parasiticides from plants or other organisms
Socio-economic and health education, access to health and impact on disease transmission
Neglected parasitic diseases and international health
Parasitic infections of indigenous communities
WORKSHOP: Eukaryotic Pathogen Bioinformatics: A Workshop on Mining Genomic-Scale Datasets
WORKSHOP: Adjuvant design to enhance innate immunity and vaccine efficacy

WORKSHOP: Integration of mass treatment programs for parasitic diseases
WORKSHOP: Career development forum “Meet the Professors”
WORKSHOP: Career development forum “Meet the Funders”
WORKSHOP: Zoonotic and soil parasitic infections
WORKSHOP: Education and Teaching in Parasitology in the context of global health
WORKSHOP: Foundation/ philanthropic support and Public Private Partnerships
OPEN SESSION: Five open sessions: topics selected from submitted abstracts
Four Platinum Company Symposia or Workshops
Listed by Themes
SYMPOSIA
Global change and parasitism
Parasites in a warmer world: impact of climate change on parasitism
Parasites, poverty and the Millenium Development Goals
Ectoparasites
Tick control
Control of Ectoparasites
Vector competence: ticks, mosquitoes, tsetse
Vector-parasite interactions
Aquaculture and aquatic parasitology
Aquaculture and aquatic animal health
Aquatic parasitology
Ectoparasites of the marine environment
Parasite biology and ecology
Biodiversity
Parasite Ecology: Host-parasite relationships in coastal ecosystems
Geospatial health: predicting distribution of parasitic diseases
Parasite evolution
New insights into parasite life cycles
Zoonoses
Transmission of food borne helminths
Emerging and re-emerging zoonoses
Molecular epidemiology and drug targets for Cryptosporidium
Trichinella
Host-parasite interactions
Comparative studies: veterinary large animal models for human zoonoses
Polyparasitism and the immune system: impact on disease outcome
Immunomodulation of host responses by parasites
Modelling host-parasite infections
Mathematical modelling of parasitic infections
Diagnostics
New developments in diagnostics for emerging human and animal diseases
NACHPL session 5: Novel diagnostics and target identification
Immunotherapy and vaccines
Vaccines for kinetoplastida
Helminths in allergies and other chronic diseases
Innate immunity
Beyond mice: revisiting animal models of natural parasite infections
Acquired immunity to helminths
Acquired immunity to kinetoplastida
Genetics and functional genomics
Nematode protein families
Harnessing the Tri-tryp genomes
Tick genomics
Use of <i>C. elegans</i> as a model to probe functions of parasite genes
Comparative genomics of schistosomes in the post-genome era

Population molecular genetics
Population genetics and genetic diversity of parasitic helminths
Molecular epidemiology of giardiasis
Molecular phylogenetics and parasite systematics
Human population genetics and host genes for parasite resistance
Genetic characterization of protozoan parasites
Application of proteomics to parasite biology and host responsiveness
Proteomics of parasite development and secretomes
Proteomics for biomarker discovery and antigen identification
Parasite drug resistance and responses to drug pressure
Helminth molecular biology
Filarial diseases
Helminth neurobiology
Molecular studies for control of liver flukes: Fasciola, Opisthorchis, Clonorchis
Wolbachia biology and nematode control
Reproductive and Developmental Biology of Parasites
New technologies and approaches to new therapies
Genetic manipulation of mosquitoes
Application of nanobody technology in parasite biology and diagnosis
Molecular Biochemistry
Carbohydrate biochemistry, glycolipids and parasite biology
Metabolomics
Structural biology of parasite targets
Parasite proteases
Apicomplexan Cell biology
Apicomplexan host cell invasion
Toxoplasma cell biology
Diversity of protozoan parasite organelles
Chemotherapy and drug resistance
DNDi discovery symposium: the DNDi model for drug discovery programs of neglected diseases
New chemotherapies for kinetoplastids
New Chemotherapies for Helminth Infections
Parasiticide regulation and efficacy standards of drugs
Alternative parasiticides from plants or other organisms
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Current progress in understanding the molecular mechanisms and markers of anthelmintic resistance
Understanding the molecular targets of insecticides and mechanisms of resistance in ectoparasites
Leishmania, trypanosomes and Chagas disease
RNA editing and mitochondrial gene expression in kinetoplastids
RNA and regulation of gene expression in kinetoplastids
Kinetoplastid Cell biology
Kinetoplastid Biochemistry
Host-parasite interactions and signalling
Drug targets and drug action in kinetoplastids
Immunopathogenesis in human African trypanosomiasis
Chagas disease: control and epidemiology in endemic and non endemic countries
Anaerobic protozoa
Giardia biology
Entamoeba
Trichomonas
Public health, clinical and field studies
Socio-economic and health education, access to health and impact on disease transmission
Neglected parasitic diseases and international health
Parasitic infections of indigenous communities
Congenital Toxoplasmosis

Schistosomiasis control: challenges and prospects
Veterinary parasites
Tick borne diseases: Babesia, Anaplasma, Theileria, Lyme disease
Neospora
Coccidiosis
Avian parasites
Novel solutions for the sustainable control of nematodes in ruminants
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WORKSHOPS
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Eukaryotic Pathogen Bioinformatics: a workshop on mining genomic-scale datasets
Harnessing helminth genomes: nematode and platyhelminth database resources
Naming genes in the parasitic nematodes
Polyparasitism and impact on vaccine design and delivery
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Open sessions from contributed papers; Company Symposia or Workshops
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