

RESEARCH CONFERENCES

Europe-Africa Frontier Research Conference Series

**Infectious Diseases:
From Basic to Translational
Research**

The Cape Winelands • South Africa
4 – 9 April 2009

Chairs: **Monique Capron**, Inserm, Lille 2 University, Institut Pasteur de Lille, FR – **M. Iqbal Parker**, International Centre for Genetic Engineering and Biotechnology, Cape Town, ZA

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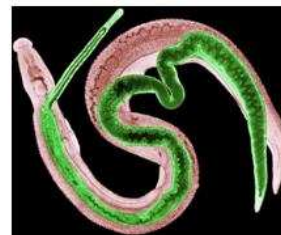
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Science Academies



Final Programme

Saturday 4 April

Late afternoon / early evening Registration at the ESF desk
19.00 Welcome Drink and Dinner

Sunday 5 April

08.30-09.00 Conference Opening
Monique Capron
Inserm, Lille 2 University, Institut Pasteur de Lille, FR
M. Iqbal Parker
International Centre for Genetic Engineering and Biotechnology, ZA
Carole Moquin-Patthey
European Science Foundation, FR
Sospeter Muhongo
ICSU, ZA

Session 1: Genetic Aspects

Chairs: **Jennie Blackwell**, Cambridge University, UK and **Valérie Mizrahi**, University of the Witwatersrand, ZA

09.00-09.40 **Valérie Mizrahi**
University of the Witwatersrand, ZA
Survival, subversion and stress response strategies of Mycobacterium tuberculosis: implications for TB drug discovery

09.40-10.20 **Agaba Morris**
ILRI, KE
Host Genome Responses to Trypanosome Infection

10.20-10.50 Coffee break

10.50-11.30 **Eileen Hoal**
Stellenbosch University, ZA
Host genetic susceptibility to tuberculosis

11.30-12.10 **Jennie Blackwell**
Cambridge University, UK
Genetic and epigenetic effect in protozoan parasitic diseases

12.10-12.30 **Maowia Mukhtar**
University of Khartoum, SD
Host and parasite factors associated with induction of different clinical forms of Leishmaniasis in Sudanese patients
(short talk)

12.30-12.50 **Takafira-Mduluza**
University of Zimbabwe, ZW
Cytokine gene polymorphism analysis in children exposed to malaria and/or helminths infections in Zimbabwe
(short talk)

13.00 Lunch
15.30-16.00 Coffee break

Session 2: Genetic of Vectors

Chairs: **Didier Fontenille**, IRD, FR and **Charles Wondji**, University of Liverpool, UK

16.00-16.40 **Didier Fontenille**
Institut de Recherche pour le Développement, FR
Genetic adaptation of malaria vectors to environment

16.40-17.20 **Charles Wondji**
University of Liverpool, UK
Characterisation of mechanisms of insecticide resistance in mosquitos: the case of Anopheles funestus

17.20-17.40 **Hannelie Rutto**
Moi University, KE
Remote sensing and Geographical Information Systems technologies in Human African Trypanosomosis Epidemiology
(short talk)

17.40-18.00 **Maureen Coetzee**
National Institute for Communicable Diseases, ZA
Malaria vector mosquitoes - new species still being discovered and the implications for malaria control in Africa
(short talk)

18.00-19.00 **Special Lecture**
Fotis Kafatos
European Research Council and Imperial College London, UK
Malaria and the Mosquitos: the Importance of Vector Biology

19.00 Dinner
20.30-22.00 Poster Session

Monday 6 April

Session 3: Emerging Diseases (Mycobacteria)

Chairs: **Stewart Cole**, EPFL, CH and **Bouke de Jong**, The Medical Research Council, GM

09.00-09.40 **Francoise Portaels**
Institute of Tropical Medicine Antwerp, BE
BURULI ULCER: state-of-the-art

09.40-10.20 **Bouke de Jong**
The Medical Research Council, GM
M. africanum, a West-African cause of TB

10.20-10.50 Coffee break
10.50-11.30 **Stewart Cole**
Ecole Polytechnique Fédérale de Lausanne, CH
Evolution of mycobacterial pathogens

12.30 Lunch

Session 4: Emerging Diseases (Viral)

Chairs: **Antoine Flahault**, EHESP School of Public Health and INSERM, FR and **Thomas Egwang**, African Academy of Sciences, KE

- 14.30-16.00 Poster Session
- 16.00-16.30 Coffee break
- 16.30-17.10 **Antoine Flahault**
EHESP School of Public Health and INSERM UMRS 707, FR
Emerging outbreak of Chikungunya in Indian Ocean 2005-2006
- 17.10-17.50 **Marc Lecuit**
Institut Pasteur and INSERM, FR
Chikungunya virus infection: from bedside to bench and back
- 17.50-18.10 **Marco Patrone**
Università di Milano, IT
UL131-128 products are required for the activation of HCMV fusion complex during endothelial cell infection
(short talk)
- 18.10-18.30 **Christopher Mueller**
University of Strasbourg, FR
Dermal-type macrophages expressing CD209/DC-SIGN show inherent resistance to dengue virus growth
(short talk)
- 19.00 Dinner

Tuesday 7 April

Session 5: Immune Response and Pathogenesis

Chairs: **David Dunne**, Cambridge University, UK and **Vincent Titanji**, University of Buea, CM

- 09.00-09.40 **Ogobara Doumbo**
Malaria Research and Training Centre, University of Bamako, ML
Lecture
- 09.40-10.20 **David Dunne**
Cambridge University, UK
The regulation of human IgE responses to chronic schistosomiasis
- 10.20-10.50 Coffee break
- 10.50-11.30 **Vincent Titanji**
University of Buea, CM
Molecular and epidemiological approaches to vaccine candidate identification in onchocerciasis and malaria
- 11.30-11.50 **Miskelyemen Elmekki**
Sudan University of Science and Technology, SD
Cellular Immune Response in Experimental Leishmania Infection
(short talk)
- 11.50-12.10 **Siddig Rahoud**
University of Gezira, SD
Regression of Liver Fibrosis in Schistosoma mansoni Infected Sudanese Subjects After Praziquantel Treatment

- (short talk)
- 12.10-12.30 **Fouzia Radouano**
 Pasteur Institute, MA
Seroepidemiologic association of Chlamydia pneumoniae infection with heart diseases in moroccan patients
 (short talk)
- 12.30 Half-day excursion, including lunch to Boschendal Wine Estate
- 19.00 Dinner

Wednesday 8 April

Session 6: Drug Resistance and Drug Discovery

Chairs: Abdoulaye Djimde, Université de Bamako, ML and **Christian Doerig**, INSERM, Wellcome Trust Center for Molecular Parasitology, University of Glasgow, UK

- 09.00-09.40 **Christian Doerig**
 INSERM U609, Wellcome Trust Center for Molecular Parasitology, University of Glasgow, UK
Targeting the Plasmodium falciparum kinome
- 09.40-10.20 **Abdoulaye Djimde**
 Université de Bamako, ML
Mechanisms of antimalarial drug resistance
- 10.20-10.50 Coffee break
- 10.50-11.10 **Maria Laura Bolognesi**
 University of Bologna, IT
Two medicinal chemistry driven approaches toward new antitrypanosomal and antileishmanial agents
 (short talk)
- 11.10-11.30 **Agnieszka Anna Kaczor**
 Medical University of Lublin, PL
Structure-based virtual screening for novel inhibitors of Japanese encephalitis virus NS3 helicase/nucleoside triphosphatase
 (short talk)
- 12.00 Lunch

Session 7: Intervention Strategies and Social Aspects

Chairs: Stefan Kaufmann, Max Planck Institute for Infection Biology, DE and **Abdisalan Noor**, Nairobi-KEMRI-Wellcome Trust, KE

- 14.30-15.10 **Joe Cohen**
 GlaxoSmithKline Biologicals, BE
The RTS,S Malaria Vaccine Candidate: Getting closer to the Goal
- 15.10-15.50 **Stefan Kaufmann**
 Max Planck Institute for Infection Biology, DE
The need for novel vaccines and biomarkers in tuberculosis
- 15.50-16.30 **Abdisalan Noor**
 Nairobi-KEMRI-Wellcome Trust, KE
Mapping the progress of scaling up malaria interventions since 2000 at the national and continental level: the example of insecticide treated nets
- 16.30-17.00 Coffee break
- 17.00-17.20 **Pierre Claver Kayumba**

National University of Rwanda

Development of a taste-masked quinine pamoate suspension
(short talk)

17.20-19.40 Round Table – Way Ahead
20.00 Get-Together and Conference Dinner

Thursday 9 April

05.30 First departure bus to Cape Town International Airport
08.00 Second departure bus to Cape Town International Airport
15.00 Final departure bus to Cape Town International Airport

Abstracts, Posters & Short Oral Presentations

There will be no short talks other than those listed on the programme. All other abstracts have been accepted as posters.