



WTCGHR Annual Scientific Meeting Schedule

Sunday 14th September

19.00 **Informal Reception – hosted by Glasgow WTCMP** - (Palazzo Bar)

Monday 15th September

08.30 **Registration & refreshments** - (Palazzo Bar)

09.15 **Welcome and overview session** Chair: **Professor Steve Ward** - (Colonnades Suite)

- WTCGHR – **Professor David Laloo**
- Glasgow WTCMP – **Professor Andy Waters**
- MLW – **Professor Robert S Heyderman**
- NIMHANS – **Professor G. S. Umamaheswara Rao**
- Malawi College of Medicine – **Dr Victor Mwapasa**

10.10 **Coffee** - (Palazzo Bar)

10.30 **Virology Session** - Chair: **Professor Tom Solomon** - (Colonnades Suite)

- **Plenary talk: Professor P. Satishchandra** – *Neurological problems associated with HIV infections – experiences in Southern India*
- I. **Dr Antonia Ho** - *The Burden and Severity of HIV-associated Influenza Illness in Malawian Adults*
- II. **Dr Manjunatha Venkataswamy** - *Incorporation of NKT cell activating glycolipids to improve Mycobacterium bovis BCG as a vaccine delivery vector for viral antigens*
- III. **Dr Stacy Todd** - *Influenza A in Vietnam: Clinical Features, Virological Subtypes and Heterotypic Antibody Response in a Prospective Observation Study*
- IV. **Dr Aisleen Bennett** - *Comparison of Laboratory Assays to Detect Rotavirus in Healthy and Diarrhoeic Children in Malawi*
- V. **Ellen Heinsbroek** - *Effect of antiretroviral therapy on pneumococcal carriage in HIV-positive adults in Karonga District, Malawi*
- VI. **Dr Naor Bar-Zeev** - *Impact and effectiveness of monovalent rotavirus vaccine following programmatic roll-out in infants in Malawi*
- VII. **Dr Apostolos Beloukas** - *Severe Virologic Expression of Hepatitis B Virus (HBV) Co-Infection in HIV-Positive Adults Starting Antiretroviral Therapy (ART) in Malawi*
- VIII. **Dr Georgios Pollakis** - *HIV-1 Autologous Neutralization Activity Associated with Mother to Child Transmission in utero*

13.00 **Lunch** - (Jubilee Restaurant)

13.30 **Breakout Sessions** – 1hr 30mins

- The future of pharmacology research at MLW - (Victoria Room)
- MRet programme review session - (Edward Room)



15.00 **Cross theme speed talks** - Chair: **Dr Annette MacLeod** - (Colonnades Suite)

15.40 **Coffee** - (Palazzo Bar)

16.00 **Parasitology session** - Chair: **Professor Andy Waters** - (Colonnades Suite)

- **Plenary talk: Professor Michael Barrett** - *Modes of action and resistance mechanisms to anti-parasitic drugs*
- I. **Dr Standwell Nkhoma** - *Subtle changes in Plasmodium falciparum infection complexity following enhanced intervention in Malawi*
- II. **Dr Grazia Camarda** - *Towards the characterisation of primaquine mechanism of action*
- III. **Dr Janet Storm** - *Cytoadherence-mediated pathology in cerebral malaria*
- IV. **Dr Jennifer Lawton** - *Development of a model to visualize Plasmodium falciparum cytoadherence in vivo*
- V. **Dr Ian MacCormick** - *Associations between retinal angiography and brain MRI in paediatric cerebral malaria*
- VI. **Dr Yitian Zhao** - *Automated analysis of vascular abnormalities of malarial retinopathy in fluorescein angiography*
- VII. **Dr Ben Makepeace** - *The Onchocerciasis Vaccine for Africa Initiative: Discovery and Evaluation of Vaccine Candidates and the Road to Clinical Trials*
- VIII. **Dr William Weir** - *A genome wide population analysis of the causative agent of human sleeping sickness: insights into the evolution and generation of diversity*

19.00 **Drinks Reception** - (Palazzo Bar)

19.30 **Dinner** - (Jubilee Restaurant)

Tuesday 16th September

08.30 **Non Communicable Diseases Session** - Chair: **Professor Richard Lilford** - (Colonnades Suite)

- **Plenary talk: Professor Hugh Willison** - *Post-infectious paralytic disorders – common mechanistic pathways cross continents*
- I. **Dr Laura Benjamin** - *Aetiology and HIV predictors of outcome at six months in HIV related stroke*
- II. **Dr Philip Burgess** - **The Malawi Diabetic Retinopathy Study: Progression of Retinopathy at 24 Months**
- III. **Dr Paul Knox** - *Building a Brain in Blantyre: Longitudinal Behavioural Analysis in Cerebral Malaria Survivors and Local Controls*
- IV. **Dr Hannah Jary** - *Biomass smoke exposure and adult respiratory health in Malawi*
- V. **Dr Cristina Ardura Garcia** - *Risk factors for acute asthma in Ecuador: a case-control study in the city of Esmeraldas*
- VI. **Natasha Lelijveld** - *Long-term Effects of Acute Malnutrition on Growth and Body Composition*
- VII. **Dr Melissa Gladstone** - *Integrated nutrition, developmental stimulation and health messages for 0-2 year old children; feasibility in rural and urban settings in Malawi through HSAs.*
- VIII. **Professor Sanjeev Jain** - *Genetics and genomics in psychiatry: steps ahead*

11.10 **Coffee** - (Palazzo Bar)



11.30 **Plenary talk: Professor Sally Wyke & Dr Sally Theobald** - *Developing and evaluating complex interventions: the role of social science* - (Colonnades Suite)

12.00 **Poster Session** - (Palazzo Bar)

13.00 **Lunch & Visit to Chester Walls** - (Jubilee Restaurant)

15.30 **Plenary talk: Professor Lisa Ng** - *Cellular and molecular pathogenesis of re-emerging alphaviruses: from bed to bench and back* - (Colonnades Suite)

16.00 **Bacterial Infections Session** – Chair: **Professor Robert S Heyderman**

- **Plenary talk: Professor Howard Jenkinson** - *Colonization factors for human pathogenic streptococci - new targets?*
- I. **Dr Danielle Cohen** - *Improving the management of people on retreatment regimen for tuberculosis in Malawi: a qualitative evaluation of the TB-RROC trial*
- II. **Dr Stephen Aston** - *Clinical predictors of severity and outcome of pneumonia in hospitalised adults in Blantyre, Malawi*
- III. **Dr Emma Wall** - *Early goal directed therapy for acute bacterial meningitis in Malawian adults*
- IV. **Dr Carsten Kröger** - *Primary transcriptome comparisons of gastroenteritis NTS with emerging invasive Salmonella Typhimurium strains reveal expression differences of virulence factors*
- V. **Dr Benjamin Kumwenda** - *A comparison of metabolism and in vivo persistence proteins in invasive and multidrug resistant S. Typhimurium variants in Malawi*
- VI. **Dr Arox Kamng'ona** - *High multiple carriage and emergence of Streptococcus pneumoniae vaccine serotype variants in Malawian children*
- VII. **Dr Maaïke Alaerts** - *Serotype distribution in invasive pneumococcal disease 3 years before and after vaccine introduction in Malawi: a significant reduction in vaccine-type disease*
- VIII. **Dr Victoria Jenkins** - *Development of a dynamic high-content imaging platform for the prediction of antitubercular pharmacodynamics*

19.00 **Drinks Reception** - (Palazzo Bar)

19.30 **Evening BBQ** – (Italian Gardens)



Wednesday 17th September

08.30 **Refreshments** - (Palazzo Bar)

09.00 **Inflammation & Immunology Session** - Chair: **Professor Aras Kadioglu** - (Colonnades Suite)

- **Plenary talk: Dr Ed Lavelle** - *The potential of vaccine adjuvants to direct and amplify immunity to pathogens*

- I. **Professor William Paxton** - *Parasitic helminth components modulate DC-T-cell interactions which affect HIV-1 infection*
- II. **Dr James Scriven** - *Alternatively activated macrophages in HIV-1-associated cryptococcal meningitis*
- III. **Dr Henry Mwandumba** - *Persistence of HIV in alveolar macrophages during long-term antiretroviral therapy*
- IV. **Dr Christine Kelly** - *Endothelial dysfunction in Malawian adults is associated with HIV-1 infection and T cell senescence*

10.40 **Coffee** - (Palazzo Bar)

11.00 **Plenary talk: Professor Derrick Crook** - *The future of whole-genome sequencing of pathogens for clinical practice* (Colonnades Suite)

- V. **Dr Britta Urban** - *T cell responses to semi-conserved regions of Plasmodium falciparum erythrocyte membrane protein 1*
- VI. **Dr Lance Turtle** - *Human T cell responses to Japanese encephalitis virus*
- VII. **Dr Qibo Zhang** - *Relationship Between Th17 And Treg In Nasopharynx-Associated Lymphoid Tissue And Their Association With Age And Pneumococcal Carriage In Humans*
- VIII. **Shaun Pennington** – *Human oral Salmonella vaccination generates vaccine-specific and bystander influenza-specific responses at the intestinal mucosa*
- IX. **Dr Daniel Neill** - *Density and Duration of Pneumococcal Carriage Is Maintained by Transforming Growth Factor β 1 and T Regulatory Cells*

12.50 **Closing remarks and awarding of prizes** – **Professor David Laloo**

13.10 **Lunch** - (Jubilee Restaurant)

13.40 **WTCGHR Board Meeting** - (Victoria Room)