



Malaria Centre Retreat 2017
Thursday 6 - Friday 7 April 2017
Somerville College, Woodstock Road, Oxford
Flora Anderson Hall

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0900 REGISTRATION AND TEA/COFFEE
(Brittain Williams Room & Flora Anderson Hall)

0935 Welcome and Introduction

Chris Drakeley

Oral Presentation Session 1

Chair: Julius Hafalla

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| 0940 | 1. | 1.5 Tesla magnetic resonance imaging of the brain reveals two distinct pathogenetic processes associated with cerebral malaria | <i>Sam Wassmer</i> |
| 1000 | 2. | ACCESS-SMC: results from first year of implementation of seasonal malaria chemoprevention at scale | <i>Matt Cairns</i> |
| 1020 | 3. | Pyrethroids – more than just insecticides? | <i>Mojca Kristan</i> |

10.40 TEA/COFFEE AND POSTER SET UP
(Brittain Williams Room - 20 minutes)

Oral Presentation Session 2

Chair: Shunmay Yeung

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| 1100 | 4. | High-throughput screening to develop new inhibitors against the <i>Plasmodium falciparum</i> cyclic GMP-dependent protein kinase | <i>Maria Penzo</i> |
| 1120 | 5. | The change in malaria risk in UK and US travellers to S E Asia between 2005-2008 and 2011-2014. The implications for continued malaria prevention measures | <i>Ron Behrens</i> |
| 1140 | 6. | Do malaria hotspots really fuel transmission? | <i>Gillian Stresman</i> |

12.00 LUNCH (College Dining Rooms – 1 hour)

Oral Presentation Session 3
Chair: Harparkash Kaur

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| 1300 | 7. | The genomic diversity of West African malaria parasites across a transmission gradient | <i>Craig Duffy</i> |
| 1320 | 8. | Using CRISPR Cas9 for the study of invasion ligands in the simian malaria parasite <i>Plasmodium knowlesi</i> | <i>Franziska Mohring</i> |
| 1340 | 9. | Which intervention and where to target: Using cost-effectiveness modelling for geographic malaria priority setting in Myanmar | <i>Tom Drake</i> |
| 1400 | 10. | Evaluation of a novel PBO long lasting Net and Indoor residual spraying product, separately and together, against malaria transmitted by pyrethroid resistant mosquitoes in Tanzania: Two years results | <i>Natacha Protopopoff & Mark Rowland</i> |
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Turbo Talks
Chair: Colin Sutherland

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| 1430 | Differences in susceptibility of African <i>Plasmodium falciparum</i> to artemisinin in vitro are not <i>pfk13</i> dependent | <i>Ify Aniebo</i> |
| | Strengthening the use of data for malaria decision making in Africa, LINK Programme | <i>Lauren Hashiguchi</i> |
| | Conditional knockout of a cyclic nucleotide phosphodiesterase reveals a critical role for cyclic AMP signalling in <i>P falciparum</i> invasion | <i>Christian Flueck</i> |
| | Malaria serology in Myanmar | <i>Tom Hall</i> |
| | Identification and validation of novel antigenic markers of exposure to <i>Plasmodium knowlesi</i> for development as serological tools | <i>Lou Herman</i> |
| | Transcriptomic analysis of Plasmodium species at the single-cell level | <i>Suzanne Hocking</i> |
| | The immunodominant role of CSP in CD8+ T cell mediated protection | <i>Matt Gibbins</i> |
| | Haemoglobinopathy and G6PD testing: A high throughput magnetic bead based assay | <i>Lynn Gringard</i> |
| | Hot and Sticky: the effect of tropical conditions on the stability of full and tablet halves of artemisinin-based combinations therapies | <i>Harparkash Kaur</i> |
| | Efficacy of DHA-piperazine and artemether-lumefantrine in the treatment of uncomplicated <i>P falciparum</i> malaria in North Sumatra | <i>Inke Lubis</i> |

Infection of human hepatocytes with sporozoites of <i>P. ovale curtisi</i> and <i>P. ovale wallikeri</i> from UK malaria patients	<i>Mary Oguike</i>
Does <i>P. falciparum</i> 's motor run on cyclic nucleotide signalling?	<i>Stephanie Nofal</i>
Evolving Systems: Malaria Surveillance in Cambodian Private Sector	<i>Abigail Pratt</i>
Transcriptomic characterization PfEMP-1 binding phenotypes in human cerebral malaria	<i>Praveen Sahu</i>
Does primaquine stop transmission by killing male gametocytes?	<i>Will Stone</i>
How to save money and go to the pub early	<i>Cat Mair</i>

1510 **TEA/COFFEE**
(Brittain Williams Room - 20 minutes)

Oral Presentation Session 4

Chair: Chris Drakeley

1540	11.	Linking parasite biology and immune responses to malaria pre-erythrocytic stage infections	<i>Julius Hafalla</i>
1600	12.	A One-Health approach to killing malaria vectors	<i>Laith Yakob</i>
1620	13.	The role of PfGAP45 in egress and invasion	<i>Abigail Perrin</i>
1640	14.	Pro-active case detection and community participation for the elimination of malaria study (PACES) in Cambodia	<i>Nicola James</i>

1700	Key Note	Eliminating <i>P. vivax</i> from the Asia Pacific: what can we learn from molecular and serological studies	<i>Ivo Mueller</i>
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1900 **POSTER SESSION, DRINKS AND STUDENT-LED ACTIVITY**

2000 **DINNER (College Dining Hall)**



Friday 7 April 2017

0815 **TEA/COFFEE & One Day Registration**
(Brittain Williams Room)

0900 **Malaria Centre Business Meeting (*All Welcome to attend*)** *Chair: Chris Drakeley*

0945 **'New Projects' presentations**

10.30 **TEA/COFFEE**
(Brittain Williams Room - 30 minutes)

Oral Presentation Session 5

Chair: Dave Conway

1100 15. Malaria Consortium: Supporting the implementation of robust SM&E tools to accelerate Malaria elimination efforts *James Tibanderana & Arantxa Roca Feltrer*

1140 16. Fraction of all under 5 deaths caused directly or indirectly by malaria in sub-Saharan Africa 2000-2015 *Donal Bisanzio*

1200 **LUNCH (College Dining Rooms – 1 hour)**

Oral Presentation Session 6

Chair: Sian Clarke

1300 17. Forest goers and malaria: Preliminary results from the PACES study in Cambodia *Shunmay Yeung*

1320 18. PKG regulation: New tools and approaches *Kostas Koussis*

1340 19. Evaluating malaria vector control products in Moshi, Tanzania *Janneke Snetselaar*

1400 20. Variation in replication rates of *Plasmodium falciparum*. *Dave Conway*

1420 **TEA/COFFEE**
(Brittain Williams Room - 20 minutes)


Oral Presentation Session 7
Chair: Eleanor Riley

1440	21.	Eave Tubes: Trialling a novel vector control strategy in Bouake, Cote d'Ivoire <i>Plasmodium alveolin</i> IMC1a is stabilised by its terminal cysteine	Jackie Cook
1500	22.	motifs and facilitates sporozoite morphogenesis and infectivity in a dose-dependent manner	Sadia Saeed
1520	23.	Manipulation of artemisinin and partner drug susceptibility in <i>P falciparum</i>	Ryan Henrici
1540	24.	Travellers' Tales: Interesting cases of malaria from Africa and what we have learned	Colin Sutherland

1600
Closing words
Chris Drakeley
Posters

Poster	Author	Title
1	Craig Duffy	A survey for evidence of local selection on <i>Plasmodium falciparum</i> in West Africa
2	Matt Gibbins	Dissecting the role of the immunodominant epitope of CSP in parasite- and vaccine-induced protection
3	Lynn Grignard	Haemoglobinopathy and G6PD testing: A high throughput magnetic bead based assay
4	Melissa Hart	Combining reverse genetics and three-dimensional electron microscopy to dissect malaria parasite invasion of red blood cells
5	Lauren Hashiguchi	Strengthening the use of data for malaria decision making in Africa, LINK programme
6	Ryan Henrici	Manipulation of artemisinin and partner drug susceptibility in <i>Plasmodium falciparum</i>
7	Lou Herman	Identification and validation of novel antigenic markers of exposure to <i>Plasmodium knowlesi</i> for development as serological tools
8	Cat Mair	Studies to determine prevalence of <i>Plasmodium knowlesi</i> in Sabah, Malaysia
9	Matt Ravenhall	Characterizing the impact of sustained sulfadoxine/pyrimethamine use upon the <i>P falciparum</i> population in Malawi
10	Parveen Sahu	Transcriptomic characterization PfEMP-1 binding phenotypes in human cerebral malaria
11	Lindsay Stewart	Phenotypic variation in West African Clinical Isolates
12	Will Stone	Does primaquine stop transmission by killing male gametocytes?
13	Sarah Tarr	Variation in gene expression between <i>P. falciparum</i> isolates
14	Lotus van den Hoogen	The use of antimalarial antibody measurements to assist elimination activities in Haiti