



MalariaWorld Nr. 159 (21 April 2008)

... Publications ...

A magneto-optic route towards the in-vivo diagnosis of malaria: preliminary results and pre-clinical trial data ([Open access](#))

Dave M Newman, John Heptinstall, Raphael J Matelon, Luke Savage, M Lesley Wears, Jamie Beddow, Martin Cox, Henk DFH Schallig, and Petra Mens

Biophys. J. BioFAST: April 4, 2008

The validity of the approach is confirmed by a small preliminary clinical trial on thirteen patients whilst measurements on live parasitized cells obtained from in vitro culture verify the possibility of producing in-vivo diagnostic instrumentation.

Identification of Anopheles fauna in a hyperendemic falciparum area of Orissa State, India ([Open access](#))

S. Sahu, K. Gunasekaran, P. Jambulingam & N. Krishnamoorthy

Indian J Med Res 127, February 2008, pp 178-182

An. fluviatilis and An. minimus are the major two species in the transmission of malaria in Keonjhar district in Orissa.

Robert Ménard: Tailing malaria parasites to the red blood cell ([Open access](#))

Hema Bashyam

The Journal of Experimental Medicine, Vol. 205, No. 4, 744-745

Robert Ménard is stalking the malaria parasite Plasmodium from the moment it invades the skin to find a way to stop its infection cycle.

The usefulness of twenty-four molecular markers in predicting treatment outcome with combination therapy of amodiaquine plus sulphadoxine-pyrimethamine against falciparum malaria in Papua New Guinea ([Open access](#))

Jutta Marfurt, Ivo Muller, Albert Sie, Olive Oa, John C Reeder, Thomas A Smith, Hans-Peter Beck, Blaise Genton

Malaria Journal 2008, 7:61 (19 April 2008)

A comprehensive analysis of P. falciparum genetic polymorphisms known to be associated with resistance, using a new microarray technique.

Socio-economic status is inversely related to bed net use in Gabon ([Open access](#))

Julia N Goesch, Norbert G Schwarz, Marie-Luise Decker, Sunny Oyakhirome, Lea B Borchert, Ulrich D Kombila, Marc Poetschke, Bertrand Lell, Saadou Issifou, Peter G Kremsner, Martin P Grobusch

Malaria Journal 2008, 7:60 (18 April 2008)

A KAP study which presents interesting insights and findings in the context of bed net use in Gabon.

Mosquito abundance, bed net coverage and other factors associated with variations in sporozoite infectivity rates in four villages of rural Tanzania ([Open access](#))

Eliningaya J Kweka, Watoky M.M Nkya, Aneth M Mahande, Charles Assenga, Franklin W Mosha, Ester E. Lyatuu, Charles P. Massenga, Edwin M. Nyale, Stephen B Mwakalinga, Asanterabi Lowassa

Malaria Journal 2008, 7:59 (18 April 2008)



Today, entomological surveys are still of great importance in decision-making and evaluation of malaria control strategies

Efficacy of amodiaquine in the treatment of uncomplicated falciparum malaria in young children of rural north-western Burkina Faso ([Open access](#))

Germain Mandi, Frank P. Mockenhaupt, Boubacar Coulibaly, Peter Meissner, Olaf Mueller
Malaria Journal 2008, 7:58 (17 April 2008)

An interesting study which gives an insight into the decreasing efficacy of amodiaquine in northern Burkina Faso and which addresses the problem of how this resistance will develop when amodiaquine, in combination with other drugs, is used on a large scale.

Brief Report: Pyruvate Kinase Deficiency and Malaria ([Open access](#))

K. Ayi and Others

The New England Journal of Medicine, Online First

Here, we show that pyruvate kinase deficiency provides protection against infection and replication of *P. falciparum* in human erythrocytes, raising the possibility that mutant pyruvate kinase alleles may confer a protective advantage against malaria in human populations in areas where the disease is endemic.

Editorial: A Malaria Fingerprint in the Human Genome? ([Open access](#))

J.P. Daily and P. Sabeti

The New England Journal of Medicine, Online First

In this issue of the Journal, Ayi et al. describe a polymorphism that is hypothesized to provide resistance to malaria infection.

Significant Association Between TIM1 Promoter Polymorphisms and Protection Against Cerebral Malaria in Thailand

Nuchnoi, P.; Ohashi, J.; Kimura, R.; Hananantachai, H.1; Naka, I.; Krudsood, S.; Looareesuwan, S.; Tokunaga, K.; Patarapotikul, J.

Annals of Human Genetics, Volume 72, Number 3, May 2008, pp. 327-336(10)

The present results suggest that the higher TIM1 expression associated with the protective TIM1 promoter haplotype confers protection against cerebral malaria.

Synthesis of 4'-modified noraristeromycins to clarify the effect of the 4'-hydroxyl groups for inhibitory activity against S-adenosyl-I-homocysteine hydrolase

Takayuki Ando, Kenji Kojima, Praveen Chahota, Atsushi Kozaki, Nikalje D. Milind, Yukio Kitade

Bioorganic & Medicinal Chemistry Letters, Volume 18, Issue 8, 15 April 2008, Pages 2615-2618

4'-Modified noraristeromycin (NAM) analogs, 4'-sulfo-, 4'-sulfamoyl, 4'-azido and 4'-amino-NAM, were systematically synthesized. The inhibitory activities of these analogs and related compounds against *Plasmodium falciparum* and human S-adenosyl-I-homocysteine hydrolase were investigated.

Yield enhancement strategies for artemisinin production by suspension cultures of *Artemisia annua*

Ashish Baldi, V.K. Dixit

Bioresource Technology, Volume 99, Issue 11, July 2008, Pages 4609-4614

In the present study, an integrated yield enhancement strategy, developed by addition of selected precursor (mevalonic acid lactone) and elicitor (methyl jasmonate) at optimized concentrations, resulted in 15.2 g/l biomass and 110.2 mg/l artemisinin, which was 5.93 times higher in productivity in comparison to control cultures.



Epimers of bicyclo[2.2.2]octan-2-ol derivatives with antiprotozoal activity

Christian Schlapper, Werner Seebacher, Marcel Kaiser, Reto Brun, Robert Saf, Robert Weis
European Journal of Medicinal Chemistry, Volume 43, Issue 4, April 2008, Pages 800-807
(2SR,6RS,7RS)-4-Dialkylaminobicyclo[2.2.2]octan-2-ols and several of their esters have shown promising activity against the causative organisms for malaria and sleeping sickness.

Dynamics of parasitemia of malaria parasites in a naturally and experimentally infected migratory songbird, the great reed warbler *Acrocephalus arundinaceus*

Pavel Zehtindjiev, Mihaela Ilieva, Helena Westerdahl, Bengt Hansson, Gediminas Valkiūnas, Staffan Bensch

Experimental Parasitology, Volume 119, Issue 1, May 2008, Pages 99-110

In future studies, care must be taken to avoid mixed infections in wild caught donors, and when possible use mosquitoes for the experiments as inoculation of infectious blood ignores important initial stages of the contact between the bird and the parasite.

Plasmodium falciparum: Genetic polymorphism in apical membrane antigen-1 gene from Indian isolates

Vidya Rajesh, Vijay Kumar Singamsetti, S. Vidya, M. Gowrishankar, M. Elamaran, Jyotsna Tripathi, N.B. Radhika, Dhanpat Kochar, Akash Ranjan, S.K. Roy, Ashis Das

Experimental Parasitology, Volume 119, Issue 1, May 2008, Pages 144-151

This study presents a comprehensive analysis of the sequence polymorphism in Plasmodium falciparum apical membrane antigen-1 (PfAMA-1) in population samples from the eastern and western parts of India.

Cloning and molecular characterization of two invertebrate-type lysozymes from *Anopheles gambiae*

S. M. Paskewitz, B. Li and M. K. Kajla

Insect Molecular Biology, OnlineEarly Articles

We sequenced and characterized two novel invertebrate-type lysozymes from the mosquito *Anopheles gambiae*.

Exoerythrocytic development of *Plasmodium gallinaceum* in the White Leghorn chicken

Ute Frevert, Gerald F. Späth, Herman Yee

International Journal for Parasitology, Volume 38, Issue 6, May 2008, Pages 655-672

Because *P. gallinaceum* selectively infected Kupffer cells in the liver and caused a histopathology strikingly similar to mammalian species, this avian Plasmodium species represents an evolutionarily closely related model for studies on the hepatic phase of mammalian malaria.

Functional expression of ribozymes in Apicomplexa: Towards exogenous control of gene expression by inducible RNA-cleavage

Carolina Agop-Nersesian, Judith Pfahler, Michael Lanzer, Markus Meissner

International Journal for Parasitology, Volume 38, Issue 6, May 2008, Pages 673-681

Here we show specific downregulation of gene expression in the apicomplexan parasites *Toxoplasma gondii* and *Plasmodium falciparum*, employing self-cleaving ribozymes integrated into the transcriptional unit of different genes.

Fitness of Transgenic *Anopheles stephensi* Mosquitoes Expressing the SM1 Peptide under the Control of a Vitellogenin Promoter

Chaoyang Li, Mauro T. Marrelli, Guiyun Yan, and Marcelo Jacobs-Lorena



Journal of Heredity 2008 99(3):275-282

Thus, for transgenic mosquitoes released in the field to be effective in reducing malaria transmission, a driving mechanism will be required.

Plasmodium falciparum icam-1-based cytoadherence-related signalling in endothelial cells

Neil Jenkins, Yang Wu, Srabasti Chakravorty, Oscar Kai, Kevin Marsh, Alister Craig

Journal of Infection, Volume 56, Issue 4, April 2008, Page 299

No abstract available

Successful outpatient treatment of falciparum malaria in east london

Mark Melzer, Sandra Lacey

Journal of Infection, Volume 56, Issue 4, April 2008, Page 303

No abstract available

Patterns of polymorphism in genomic regions flanking three highly polymorphic surface antigens in Plasmodium falciparum

Olukemi K. Amodu, Daniel L. Hartl, Scott William Roy

Molecular and Biochemical Parasitology, Volume 159, Issue 1, May 2008, Pages 1-6

Most observed polymorphisms were singletons. A higher ratio of SNPs to indels than previously reported for *P. falciparum* was observed. An 11 bp repeat upstream of *msp2* showed an intriguing pattern of polymorphism possibly suggestive of purifying selection on total allele length.

Stage independent chloroquine resistance and chloroquine toxicity revealed via spinning disk confocal microscopy

Bojana Gligorijevic, Kyle Purdy, David A. Elliott, Roland A. Cooper, Paul D. Roepe

Molecular and Biochemical Parasitology, Volume 159, Issue 1, May 2008, Pages 7-23

Taken together, these data force a rethinking of CQ pharmacology and the mechanism of CQR.

A drug-selected Plasmodium falciparum lacking the need for conventional electron transport

Martin J. Smilkstein, Isaac Forquer, Atsuko Kanazawa, Jane Xu Kelly, Rolf W. Winter, David J. Hinrichs, David M. Kramer, Michael K. Riscoe

Molecular and Biochemical Parasitology, Volume 159, Issue 1, May 2008, Pages 64-68

Here we report that *P. falciparum* cultivated in the presence of a novel *cyt bc1* inhibitor underwent a fundamental transformation in biochemistry to a phenotype lacking a requirement for electron transport through the *cyt bc1* complex.

Truncation of Plasmodium berghei merozoite surface protein 8 does not affect in vivo blood-stage development

Tania F. de Koning-Ward, Damien R. Drew, Joanne M. Chesson, James G. Beeson, Brendan S. Crabb

Molecular and Biochemical Parasitology, Volume 159, Issue 1, May 2008, Pages 69-72

These data demonstrate that a full-length membrane-associated form of PbMSP8 is not essential for blood-stage growth.

Binding affinity of Plasmodium falciparum-infected erythrocytes from infected placentas and laboratory selected strains to chondroitin 4-sulfate

Rajeshwara N. Achur, Arivalagan Muthusamy, SubbaRao V. Madhunapantula, D. Channe Gowda

Molecular and Biochemical Parasitology, Volume 159, Issue 1, May 2008, Pages 79-84



In this study, we show that IRBCs from the infected placentas bind to C4S about 3-fold higher than those selected for C4S adherence from laboratory strains.

Correspondence: Malaria programmes need informed advocacy

Matthew Lynch

Nature 452, 810 (17 April 2008)

Your Editorial 'Time to take control' (Nature 451, 1030; doi:10.1038/4511030b 2008) seems to downplay the current importance of advocacy for maintaining funds in the fight against malaria.

Correspondence: Malaria: efforts starting to show widespread results

Awa Marie Coll-Seck, Tedros Adhanom Ghebreyesus and Alan Court

Nature 452, 810 (17 April 2008)

Your Editorial 'Time to take control' misrepresents the role and work of the Roll Back Malaria (RBM) Partnership, and is apparently at odds with the successes described in the News Features and Commentary in the same issue (Nature 451, 1030, 1042–1049 and 1051–1052; 2008). The RBM Partnership, a coalition of hundreds of organizations, is an independent global public-health partnership that is governed by an international board.

In brief: A malaria parasite formin regulates actin polymerization and localizes to the parasite–erythrocyte moving junction during invasion

Baum, J. et al. Cell Host Microbe 3, 188–198 (2008)

Nature Reviews Microbiology 6, 333 (May 2008)

The authors conclude from these results that formins are key regulators of apicomplexan cell motility.

The use of microfluorometric method for activity-guided isolation of antiplasmodial compound from plant extracts

M. N. Shuaibu, P. A. Wuyep, T. Yanagi, K. Hirayama, T. Tanaka, I. Kouno

Parasitology Research, Volume 102, Number 6 / May, 2008: 1119–1127

In vitro antiplasmodial activity of methanolic extracts of 16 medicinal plants was evaluated by fluorometric assay using PicoGreen.

The guanyldiazide CNI-1493: an inhibitor with dual activity against malaria— inhibition of host cell pro-inflammatory cytokine release and parasitic deoxyhypusine synthase

Sabine Specht, Salem Ramadan Sarite, Ilona Hauber, Joachim Hauber, Ulf F. Görbig, Chris Meier, Dorian Bevec, Achim Hoerauf, Annette Kaiser

Parasitology Research, Volume 102, Number 6 / May, 2008: 1177–1184

From the current data, we consider CNI-1493 to be a promising drug for anti-malarial therapy because of its combined action, i.e., the decrease in eIF-5A biosynthesis of the parasite and host cell TNF biosynthesis.

Polymerase chain reaction-based identification of Plasmodium (Huffia) elongatum, with remarks on species identity of haemosporidian lineages deposited in GenBank

Gediminas Valkiūnas, Pavel Zehndjiev, Dimitar Dimitrov, Asta Križanauskienė, Tatjana A. Iezhova, Staffan Bensch

Parasitology Research, Volume 102, Number 6 / May, 2008: 1185–1193

This study linked one mitochondrial cytochrome b (cyt b) gene lineage with morphospecies Plasmodium (Huffia) elongatum, a cosmopolitan avian malaria parasite which causes lethal disease in some birds.



Magnetic separation: a highly effective method for synchronization of cultured erythrocytic Plasmodium falciparum

Sun-Young Ahn et al.

Parasitology Research, Volume 102, Number 6 / May, 2008: 1195-1200

Our study also showed that the intrinsic life cycle of erythrocytic *P. falciparum* was slightly longer than 48 h observed in natural infection cases, and that the length of the intrinsic life cycles between various *P. falciparum* strains differed slightly.

Effect of folate derivatives on the activity of antifolate drugs used against malaria and cancer

Eunice Nduati, Abdi Diriye, Sheila Ommeh, Leah Mwai, Steven Kiara, Victor Masseno, Gilbert Kokwaro, Alexis Nzila

Parasitology Research, Volume 102, Number 6 / May, 2008: 1227-1234

Thus, malaria folate metabolism has features different from those in human, and the exploitation of this difference could lead to the discovery of new drugs to treat malaria.

Effect of a community-based delivery of intermittent preventive treatment of malaria in pregnancy on treatment seeking for malaria at health units in Uganda

A.K. Mbonye, K. Schultz Hansen, I.C. Bygbjerg, P. Magnussen

Public Health, Volume 122, Issue 5, May 2008, Pages 516-525

The community approach was effective for the delivery of IPTp, although women still accessed and benefited from malaria treatment and other services at health units. However, the costs for accessing malaria treatment and other services are high and could be a limiting factor in mitigating the burden of malaria in Uganda.

Chloroquine-induced nitric oxide increase and cell death is dependent on cellular GSH depletion in A172 human glioblastoma cells

Byung Chul Park, Seung Hee Park, Seung-Hwan Paek, Su-Young Park, Mi-Kyoung Kwak, Han Gon Choi, Chul Soon Yong, Bong Kyu Yoo, Jung-Ae Kim

Toxicology Letters, Volume 178, Issue 1, 21 April 2008, Pages 52-60

Overall, these results suggest that CQ-induced NO increase and cell death are dependent on GSH depletion, the cellular redox changes.

Anaemia and malaria in Yanomami communities with differing access to healthcare

P. Grenfella, C.I. Fanelloa, , M. Magrisb, J. Goncalvesb, W.G. Metzgerb, c, S. Vivas-Martínezb, d, C. Curtisa and L. Vivasa

Transactions of the Royal Society of Tropical Medicine and Hygiene, Article in Press, Corrected Proof

These findings indicate a heavy burden of anaemia in both areas and the need for interventions against anaemia and malaria, along with more frequent medical visits to remote areas.

Quantification of the antimalarial piperazine in plasma

Joel Tarning, Niklas Lindegardh

Transactions of the Royal Society of Tropical Medicine and Hygiene, Volume 102, Issue 5, May 2008, Pages 409-411

Piperazine is an antimalarial drug that was extensively used in China during the 1980s and has recently received renewed interest as a partner drug in artemisinin-based combination therapy. Despite extensive use, the first bioanalytical method was published in 2003. In total there are eight previously published methods for quantification of piperazine in different biological matrices using HPLC with UV or tandem mass



spectrometric detection. Five of these allow for quantification of piperazine in plasma and are discussed in this paper.

A randomised trial to assess the efficacy and safety of chlorproguanil/dapsone + artesunate for the treatment of uncomplicated Plasmodium falciparum malaria

C.I. Fanello, C. Karema, D. Ngamije, A. Uwimana, V. Ndahindwa, C. Van Overmeir, W. Van Doren, J. Curtis, U. D'Alessandro

Transactions of the Royal Society of Tropical Medicine and Hygiene, Volume 102, Issue 5, May 2008, Pages 412-420

However, the results of this trial indicate that in an area of high SP resistance, CD+A may not be the best choice. [ClinicalTrials.gov identifier: NCT00461578]

Efficacy of toxic sugar baits against adult cistern-dwelling Anopheles claviger

Gunter C. Müller, Yosef Schlein

Transactions of the Royal Society of Tropical Medicine and Hygiene, Volume 102, Issue 5, May 2008, Pages 480-484

Following treatment, the number of human-landing mosquitoes decreased by more than ten-fold in the experimental area, whilst in the control area there was no significant decrease.

Optimization of a semi-nested multiplex PCR to identify Plasmodium parasites in wild-caught Anopheles in Bolivia, and its application to field epidemiological studies

Frédéric Lardeux, Rosenka Tejerina, Claudia Aliaga, Raul Ursic-Bedoya, Carl Lowenberger, Tamara Chavez

Transactions of the Royal Society of Tropical Medicine and Hygiene, Volume 102, Issue 5, May 2008, Pages 485-492

The extraction and PCR technique presented here can be useful to: (1) estimate Plasmodium prevalence in Anopheles populations in low prevalence areas where large numbers of individual mosquitoes would need to be processed to obtain a reliable estimate; (2) incriminate Anopheles species as malaria vectors; (3) identify all the circulating Plasmodium species in vectors from an area; (4) detect mixed infections in mosquitoes; and (5) detect mosquitoes with low-level parasite infections.

Update: New insight into the role of dendritic cells in malaria immune pathogenesis

Stephanie Bousheria and Huyen Caoa,

Trends in Parasitology, Article in Press, Corrected Proof

Dendritic cells (DCs) are central to the initiation and regulation of the adaptive immune response. Modulation of DC function might enable Plasmodium to evade the immune system.

Review: Plasmodium vivax in India

Hema Joshi, Surendra K. Prajapati, Anju Verma, Simon Kang'a and Jane M. Carlton

Trends in Parasitology, Article in Press, Corrected Proof

The unique epidemiology of malaria in India, where P. vivax predominates over Plasmodium falciparum, renders this location ideal for studying the dynamics of co-infection.

Update: Parental guidance? Trans-generational influences on offspring life history in mosquitoes

Oliver Ottia, and Ben M. Satta



Trends in Parasitology, Article in Press, Corrected Proof

The study highlights that ecological studies are vital for understanding vectors of disease and ultimately for developing effective control strategies.

Erratum: Implications of imaging malaria sporozoites: Trends Parasitol. 24 (2008) 106–109

Trends in Parasitology, Volume 24, Issue 4, April 2008, Page 151

No abstract available

Simplified antimalarial therapeutic monitoring: using the day-7 drug level?

Nicholas J. White, Kasia Stepniewska, Karen Barnes, Ric N. Price, Julie Simpson

Trends in Parasitology, Volume 24, Issue 4, April 2008, Pages 159-163

Measurement of the day-7 drug level should be considered as a routine part of antimalarial drug trials.

Who develops severe malaria? Impact of access to healthcare, socio-economic and environmental factors on children in Yemen: a case-control study

Abdullah Al-Taiar, Shabbar Jaffar, Ali Assabri, Molham Al-Habori, Ahmed Azazy, Arwa Al-Gabri, Mohammed Al-Ganadi, Bothaina Attal and Christopher J. M. Whitty

Tropical Medicine & International Health, OnlineEarly Articles

Innovative ways to improve access to antimalarial treatment for those living more than 2 km away from health centres such as home management of malaria, especially for infants and young children, should be explored in malaria-endemic areas of Yemen.

... Events ...

World Malaria Day in the UK: Mobilising to Save Lives

Location: Invision Suites 1 & 2, Trades Union Congress, Congress House

Date: 25 April 2008

Organisation: Malaria Consortium

Panel of 4 speakers from the organising stakeholders will discuss how they work, can mobilise and connect with others in the fight against malaria, both in the UK and internationally. **More information**

Training seminar in Natural Medicine

May 25th- June 1st, 2008

Location: Bamenda, Cameroon

Language: English.

One of the aspect of our seminar is that by introducing Artemisia annua, we enable healers, pastors, missionaries and health workers to become much more independent and successful in their treatment of malaria. After the seminar, participants will be able to treat Malaria effectively with medicinal plants, in particular with Artemisia annua.

More information

... Grants ...

Call for research grant applications in 2008: Business line on Innovative Vector Control Interventions

Application deadline: 27 June 2008

TDR's new vision and strategy is designed to "foster an effective global research effort on infectious diseases of poverty in which endemic countries play a pivotal role". One of the



specific objectives of the research program is: To advance the development and evaluation of new and improved integrated methods for malaria and dengue vector control. Research grant applications for projects to be conducted by networks in 2008 are invited from investigators worldwide. [More information](#)



Programme Grant to develop regional centres in Asia and Latin America for training in biosafety assessment for human health and the environment of the use of genetically modified disease vectors: Business line on Innovative Vector Control Interventions

Letters of intent deadline: 12 May 2008

TDR's new vision and strategy is designed to "foster an effective global research effort on infectious diseases of poverty in which endemic countries play a pivotal role". One of the specific objectives of the research program is: To advance the development and evaluation of new and improved integrated methods for malaria and dengue vector control. TDR Business Line on Innovative Vector Control Interventions research Scientific Advisory Committee re-invites a call for grant applications to develop regional centres in Asia and Latin America for training in biosafety assessment and management for human health and the environment of the potential use of genetically modified disease vectors. [More information](#)

... Jobs ...



Advanced Research Assistant – MAL1599

Closing date for applications: 25 April 2008

Interviews will be held during the week of 12 May 2008

www.sanger.ac.uk

The Wellcome Trust Sanger Institute has an expanding scientific programme dedicated to using natural and experimental genetics to understand the role of genes in health and disease. Team 115, part of the Wellcome Trust Sanger Institute Malaria Programme, is looking for an Advanced Research Assistant. The primary objective of Team 115 is to understand how variation in the genome of the major human malaria parasite, *Plasmodium falciparum*, impacts parasite biology and clinical outcomes.

This post will assume primary responsibility for culturing *Plasmodium falciparum* parasites for Team 115. Responsibilities will include contributing to the development and improvement of culture practises and protocols, maintaining strict quality control, and carefully documenting results. The post will also include responsibility for health and safety issues as they specifically relate to *P. falciparum* culture, and training other individuals in culture protocols as needed. The successful candidate will also play a role in developing novel phenotyping assays and will play the lead role in applying those assays to cultured *P. falciparum* parasites. This role could progress to include supervisory responsibilities as the team expands. [More information](#)

Staff Scientist – MAL1598

Closing date for applications: 25 April 2008

Interviews will be held during the week of 12 May 2008

www.sanger.ac.uk

The Wellcome Trust Sanger Institute has an expanding scientific programme dedicated to using natural and experimental genetics to understand the role of genes in health and disease. Team 115, part of the Wellcome Trust Sanger Institute Malaria Programme, is



looking for a Staff Scientist. The primary objective of Team 115 is to understand how variation in the genome of the major human malaria parasite, *Plasmodium falciparum*, impacts parasite biology and clinical outcomes.

The primary responsibility of this role is lab bench based, developing, in association with other members of team 115, novel assays, technology and reagents for investigating *P. falciparum* biology. The applicant will then play the lead role in applying these approaches to research projects aimed at understanding the impact of sequence variation on malaria biology. The post will also play a key part in the smooth running of Team 115 and the rest of the Malaria Programme, including coordinating health and safety issues and ordering supplies and equipment. This role could progress to include supervisory responsibilities as the team expands. **More information**

PhD Studentship Implementation research on diagnosis and treatment of malaria at community level in Malawi, Liverpool School of Tropical Medicine (LSTM) and the Malawi-Liverpool-Wellcome Trust (MLW) Clinical Research Programme

Closing date for applications: May 23rd

Location: Blantyre, Malawi

Applicants should hold a Masters Degree or first/upper second-class honours degree in a relevant subject such as Epidemiology, Public Health or Health Economics. For more information contact **Miguel. Sanjoquin@liverpool.ac.uk**

--- News ---

General

17 April 2008, KaiserNetwork.org

Enzyme Deficiency Might Protect People From Severe Malaria, Study Says

A deficiency of the enzyme pyruvate kinase, which can occur among people who have red blood cell illnesses, might prevent the development of life-threatening forms of malaria, according to a study published Thursday in the *New England Journal of Medicine*.

16 April 2008, New Scientist

Red blood cells impenetrable to malaria parasite

For people carrying a mutation that causes the rare genetic disease – pyruvate kinase deficiency – it's not all bad news. The mutation also protects against malaria.

14 April 2008, United Press International

Malaria prevention funding is questioned

U.S. scientists are questioning how millions of dollars dedicated to malaria prevention are being spent since annual deaths from the disease are increasing.

14 April 2008, KaiserNetwork.org

Integrated Malaria Control Strategy Needed, Study Says

An integrated malaria control strategy is needed to effectively combat the disease and protect more segments of the population, according to a study published in the April edition of the *American Journal of Tropical Medicine and Hygiene*.

11 April 2008, KaiserNetwork.org

Economist Examines Malaria's 'Political Moment'



The Economist on Thursday examined global efforts to mobilize political will to fight malaria. Although the "momentum" behind efforts to combat malaria have been "rather feeble," there is "good reason to think" that the disease is "about to break through and grab the world's attention.

10 April 2008, Economist

Malaria and the politics of disease: One quick shot may not be enough

By comparison with such formidable rivals, the momentum behind efforts to tackle malaria, which causes or contributes to several million deaths a year, seems rather feeble. One reason for this is that malaria has no obvious lobby to campaign for it in the corridors of power.

Africa

21 April 2008, This Day

Nigeria: FG Earmarks N150bn to Combat Malaria

The Federal Government has earmarked a total of N150bn for the execution of intervention programmes aimed at combating the scourge of malaria over the next three years.

18 April 2008, The East African Standard

Kenya: Sh1.1 Billion to Fight Malaria, Says Health Minister

The Government will use Sh1.1 billion to fight malaria.

18 April 2008, The Herald

Zimbabwe: Country to Take Part in Anti-Malaria Campaign

Zimbabwe will take part in an anti-malaria expedition scheduled for next week ahead of the World Malaria Day commemoration to be held in Lusaka, Zambia.

17 April 2008, MMegi/The Reporter

Botswana: Malaria Hits Bobirwa, Phikwe

An outbreak of malaria in Bobirwa and Selebi-Phikwe regions has claimed a number of lives, Mmegi has learnt.

16 April 2008, The Monitor

Uganda: Government Announces Free Malaria Treatment

The Minister of Health, Stephen Mallinga has said that the government plans to avail the expensive malaria drugs to lower health facilities nationwide.

15 April 2008, New Vision

Uganda: DDT Sprayed in Oyam

Indoor spraying of DDT, an insecticide used to fight malaria, has been launched, with a warning to environmentalists to stop decampaigning the programme.

15 April 2008, AllAfrica.com

Interview: Africa: Making Partnerships Work Against Malaria

Kent Campbell is program director for Malaria Control and Evaluation Partnership in Africa (MACEPA). He recently spoke with AllAfrica about MACEPA's work.

14 April 2008, The Daily Times

Malawi: 'Malawians shun mosquito nets'

Malawians rarely use mosquito nets although they are effective in the fight against malaria, a medical officer has observed.



14 April 2008, Worldwide Faith News (press release)

Africa University to blanket continent against malaria

Africa University is partnering with a U.S.-based manufacturer to blanket the continent with specialized blankets that ward off disease-carrying mosquitoes and pests.

14 April 2008, ReliefWeb

Sierra Leone: Malaria filling a deep need

"Nothing is sufficient," says Henrietta Emmanuel who heads up Kissy, United Methodist Hospital's malaria program. The need in Sierra Leone is so great, she goes on to explain, that as soon as they receive nets or medicines they are used.

13 April 2008, New Vision

Uganda: 17 Million Mosquito Nets to Be Distributed

The Government will distribute over 17 million free mosquito nets, the health minister has said.

11 April 2008, The Herald

Zimbabwe: Beitbridge Hit By Malaria Outbreak

Beitbridge district has been hit by a serious malaria outbreak which has so far killed 10 people in the western part of the border town, an official has said.

11 April 2008, MMegi/The Reporter

Botswana: Malaria Epidemic Likely This Year, MoH Warns

The Ministry of Health (MoH) says Botswana has a higher probability of experiencing a malaria epidemic this year as a result of the high rainfall the country has received so far.

10 April 2008, ReliefWeb

Angola: Huambo: Malaria claims over 1,000 lives

At least 1,758 people died of malaria in 2007 in different health units of the central Huambo province, said a source with the institution.

9 April 2008, ReliefWeb

Uganda: Anti – Malaria campaign starts in Eastern Uganda

A local Non Governmental Organization, Pilgrim has started a campaign to wipe out malaria in the Eastern Uganda.

Asia

16 April 2008, PIA

Philippines: DOH declares Eastern Visayas as malaria-free

The Department of Health (DOH) Eastern Visayas, recently declared all six provinces in region 8 as malaria-free.

14 April 2008, Saba Net

Yemen: National programs for combating malaria, TB, Aids discussed

Minister of Public Health and Population Abdul Karim Rase'a chaired on Monday a meeting of the National Coordination Committee for Combating Malaria, TB and Aids.

12 April 2008, Viet Nam News

Vietnam: Centre, northwest highly prone to malaria epidemic



Alarms were issued over a potential malaria epidemic returning to Viet Nam by the National Institute of Malariology, Parasitology and Tomology's director, Nguyen Manh Hung, on Thursday.

11 April 2008, 7thSpace Interactive (press release)

Clinical uncomplicated Plasmodium falciparum malaria with high schizontaemia: A case report

The treatment options for acute Plasmodium falciparum malaria are based on the clinician classifying the patient as uncomplicated or severe according to the clinical and parasitological findings. This process is not always straightforward.

11 April 2008, Nhan Dan

Vietnam: VND to fight against malaria

This year, Vietnam targets to reduce the malaria-infected rate below 0.8 per 1,000 people and the mortality rate below 0.02 per 100,000 people, year-on-year decreases of 5%.

Americas

13 April 2008, Press Enterprise

World Benefit at UCR to help fight malaria

World Benefit, a festival to support global efforts to fight malaria, will be held at UC Riverside on Tuesday.

11 April 2008, Vanguard

Cuba to partner Oyo on malaria control

Cuban government has stated its readiness to partner the Otunba Adebayo Alao-Akala government of Oyo State to rid the state of malaria.

11 April 2008, The Desert Sun

Students at UC Riverside fight malaria

Students at UC Riverside will dance, sell coffee and auction artwork next week to raise money in support of the global fight against malaria.

10 April 2008, The Wall Street Journal

More Global Warming Nonsense

Today, the Senate Health, Education, Labor and Pensions Committee will hold a hearing on the implications of climate change for human health. Malaria will top the menu, but so will ignorance and disinformation.

7 April 2008, KaiserNetwork.org

Asia Will Experience More Than Half of Climate Change-Related Deaths From Malaria, Other Diseases, WHO Official Says

More than half of the 150,000 annual deaths from malaria and other conditions related to climate change will occur in Asia, Shigeru Omi, director of the World Health Organization's Regional Office for the Western Pacific, said on Monday in Manila, the Philippines

Europe

10 April 2008, Liverpool Echo

Brown pledge on malaria



Gordon Brown appeared on American Idol to urge people to support the fight against malaria.

MalariaWorld - Knowledge for Solutions

K&S Consulting is an independent consultancy firm concerned with medical information provision, training activities, and infectious diseases consultations.

Ingeborg (Inga) van Schayk, MSc & Bart Knols, PhD MBA
K&S Consulting, Kalkestraat 20, 6669 CP Dodewaard, The Netherlands, Tel:
+31-488-411156
<mailto:inga@malaria-world.com> www.malaria-world.com

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