



MalariaWorld Nr. 128 (3 September 2007)

--- From K&S ---

Herewith the last special summer issue which contains references to publications and contributions from subscribers only. The next issue of 10 September will include all items as usual.

--- Publications ---

Efficacy of sulfadoxine-pyrimethamine, amodiaquine, and sulfadoxine-pyrimethamine–amodiaquine combination for the treatment of uncomplicated falciparum malaria in the urban and suburban areas of Brazzaville (Congo) (Subscription required)

Mathieu Ndounga, Pembe Issamou Mayengue, Rachida Tahar, Prisca N. Casimiro, Davy W. Matondo Maya, Valentine Miakassissa-Mpassi, David A. Malonga, Freddy Nsonde-Ntandou, Godefroy Mallanda, Pascal Ringwald, et al.
Acta Tropica, Volume 103, Issue 3, September 2007, Pages 163-171

Molecular epidemiology of malaria in Cameroon: XXVII. Clinical and parasitological response to sulfadoxine-pyrimethamine treatment and Plasmodium falciparum dihydrofolate reductase and dihydropteroate synthase alleles in Cameroonian children

(Subscription required)

Rachida Tahar and Leonardo K. Basco
Acta Tropica, Volume 103, Issue 2, August 2007, Pages 81-89

Genetic diversity and gene flow of humans, Plasmodium falciparum, and Anopheles farauti s.s. of Vanuatu: Inferred malaria dispersal and implications for malaria control (Subscription required)

J.K. Lum, A. Kaneko, G. Taleo, M. Amos and D.M. Reiff
Acta Tropica, Volume 103, Issue 2, August 2007, Pages 102-107

Impact of Transmission Intensity on the Accuracy of Genotyping To Distinguish Recrudescence from New Infection in Antimalarial Clinical Trials (Subscription required)

Bryan Greenhouse, Christian Dokomajilar, Alan Hubbard, Philip J. Rosenthal, and Grant Dorsey
Antimicrob. Agents Chemother. 2007;51 3096-3103

Intermittent Preventive Treatment in Infants as a Means of Malaria Control: a Randomized, Double-Blind, Placebo-Controlled Trial in Northern Ghana (Subscription required)

Frank P. Mockenhaupt, Klaus Reither, Philipp Zanger, Felix Roepcke, Ina Danquah, Eiman Saad, Peter Ziniel, Stephen Y. Dzisi, Marc Frempong, Patrick Agana-Nsiire, Felicia Amoo-

Sakyi, Rowland Otchwemah, Jakob P. Cramer, Sylvester D. Anemana, Ekkehart Dietz, and Ulrich Bienzle
Antimicrob. Agents Chemother. 2007;51 3273-3281

Large-Scale Surveillance of Plasmodium falciparum crt(K76T) in Northern Ghana (Subscription required)

Stephan Ehrhardt, Teunis A. Eggelte, Sarah Kaiser, Lydia Adjei, Gerd D. Burchard, Sylvester D. Anemana, Ulrich Bienzle, and Frank P. Mockenhaupt
Antimicrob. Agents Chemother. 2007;51 3407-3409

A Quantitative Assay of Recombinant Malarial Lactate Dehydrogenase as a Platform for Screening Inhibitors from Crude Herbal Extracts (Subscription required)

Xiao-Ling Xu, Rui-Yi Yang, Xue-Qin Yang, Pei-Quan Chen and Qing-Ping Zeng
Chinese Journal of Biotechnology, Volume 23, Issue 4, July 2007, Pages 593-597

The role of leukocytes bearing Natural Killer Complex receptors and Killer Immunoglobulin-like Receptors in the immunology of malaria (Subscription required)

Diana S Hansen, Marthe C D'Ombraïn and Louis Schofield
Current Opinion in Immunology, Volume 19, Issue 4, August 2007, Pages 416-423

T cell memory in malaria (Subscription required)

Ian A Cockburn and Fidel Zavala
Current Opinion in Immunology, Volume 19, Issue 4, August 2007, Pages 424-429

Malaria Reemergence in Northern Afghanistan (Open access)

Michael K. Faulde, Ralf Hoffmann, Khair M. Fazilat, and Achim Hoerauf
Emerging Infectious Diseases, Volume 13, Number 9–September 2007

Possible Autochthonous Malaria from Marseille to Minneapolis

(Open access)
B. Doudier et al.
Emerging Infectious Diseases, Volume 13, Number 8–August 2007

Review: Human Immunodeficiency Virus (HIV) and Malaria Interaction in Sub-Saharan Africa: The Collision of Two Titans

(Subscription required)
Vincent Idemyor, PharmD
HIV Clinical Trials, Volume 8, Number 4 / July-Aug 2007, Pages 246 - 253

Developmental Stage- and Cell Cycle Number-Dependent Changes in Characteristics of Plasmodium falciparum-Infected Erythrocyte Adherence to Placental Chondroitin-4-Sulfate Proteoglycan

(Subscription required)
SubbaRao V. Madhunapantula, Rajeshwara N. Achur, and D. Channe Gowda
Infect. Immun. 2007;75 4409-4415

Cellular interactions of Plasmodium liver stage with its host mammalian cell (Subscription required)

Nazneen Bano, Julia D. Romano, Bamini Jayabalasingham and Isabelle Coppens
International Journal for Parasitology, Volume 37, Issue 12, October 2007, Pages 1329-1341

"Roadmap" Aids Malaria Vaccine Efforts (Subscription required)

Bridget M. Kuehn

JAMA 2007;298 849-851

X-ray Structural Analysis of Plasmodium falciparum Enoyl Acyl Carrier Protein Reductase as a Pathway toward the Optimization of Triclosan Antimalarial Efficacy (Subscription required)

Joel S. Freundlich, Feng Wang, Han-Chun Tsai, Mack Kuo, Hong-Ming Shieh, John W. Anderson, Louis J. Nkrumah, Juan-Carlos Valderramos, Min Yu, T. R. Santha Kumar, Stephanie G. Valderramos, William R. Jacobs, Jr, Guy A. Schiehser, David P. Jacobus, David A. Fidock, and James C. Sacchettini

J. Biol. Chem. 2007;282 25436-25444

Mosquito Heparan Sulfate and Its Potential Role in Malaria Infection and Transmission (Subscription required)

Photini Sinnis, Alida Coppi, Toshihiko Toida, Hidenao Toyoda, Akiko Kinoshita-Toyoda, Jin Xie, Melissa M. Kemp, and Robert J. Linhardt

J. Biol. Chem. 2007;282 25376-25384

Feedback Inhibition of Pantothenate Kinase Regulates Pantothenol Uptake by the Malaria Parasite (Subscription required)

Adele M. Lehane, Rosa V. Marchetti, Christina Spry, Donnelly A. van Schalkwyk, Rosaongwei Teng, Kiaran Kirk, and Kevin J. Saliba

J. Biol. Chem. 2007;282 25395-25405

Falcipain Cysteine Proteases Require Bipartite Motifs for Trafficking to the Plasmodium falciparum Food Vacuole (Subscription required)

Shoba Subramanian, Puran S. Sijwali, and Philip J. Rosenthal

J. Biol. Chem. 2007;282 24961-24969

Management of vivax malaria with primaquine (Subscription required)

Nick J. Beeching, David G. Laloo and Barbara A. Bannister

Journal of Infection, Volume 55, Issue 3, September 2007, Page 282

Likelihood of fever in the returning traveller being due to Malaria by geographical region: a retrospective five year analysis of patients presenting in London (Subscription required)

H.C. Hughes, C. Nic Fhogartaigh, S. Herbert, A. McGregor, M. Armstrong, A. Ustianowski and C.J.M. Whitty

Journal of Infection, Volume 55, Issue 3, September 2007, Page e69

Fulminant hepatic failure due to acute Hepatitis secondary to Plasmodium falciparum Malaria (Subscription required)

M.S. Albur and M.W. McKendrick

Journal of Infection, Volume 55, Issue 3, September 2007, Pages e104-e105

Polymerase Chain Reaction Identification of Three Members of the Anopheles sundaicus (Diptera: Culicidae) Complex, Malaria Vectors in Southeast Asia (Open access)

Isabelle Dusfour; Johanna Blondeau; Ralph E. Harbach; Indra Vythilingham; Visut Baimai; Ho D. Trung; Tho Sochantá; Michael J. Bangs; Sylvie Manguin
Journal of Medical Entomology, Vol. 44, No. 5, September 2007 pp.723-731

Survivorship of Immature Stages of *Anopheles gambiae* s.l. (Diptera: Culicidae) in Natural Habitats in Western Kenya Highlands (Open access)

Stephen Munga; Noboru Minakawa; Guofa Zhou; Andrew K. Githeko; Guiyun Yan
Journal of Medical Entomology, Vol. 44, No. 5, September 2007 pp.758-764

Characterization of Insensitive Acetylcholinesterase (ace-1 R) in *Anopheles gambiae* (Diptera: Culicidae): Resistance Levels and Dominance (Subscription required)

L. Djogbénoú; M. Weill; J.-M. Hougard; M. Raymond; M. Akogbéto; F. Chandre
Journal of Medical Entomology, Vol. 44, No. 5, September 2007 pp.805-810

Raman acoustic levitation spectroscopy of red blood cells and *Plasmodium falciparum* trophozoites (Subscription required)

Ljiljana Puskar, Rudolf Tuckermann, Torsten Frosch, Jürgen Popp, Vanalysa Ly, Don McNaughton and Bayden R. Wood
Lab Chip, 2007, 7, 1125

Clinton Foundation launches new malaria test scheme (Subscription required)

Cathel Kerr
The Lancet Infectious Diseases, Volume 7, Issue 9, September 2007, Page 574

Evaluation of antibody response to *Plasmodium falciparum* in children according to exposure of *Anopheles gambiae* or *Anopheles funestus* vectors (Open access)

Jean Biram Sarr, Franck J Remoue, Badara Samb, Ibrahima Dia, Sohibou Guindo, Cheikh Sow, Sophie Maiga, Seydou Tine, Cheikh Thiam, Anne-Marie Schacht, Francois Simondon, Lassana Konate, Gilles Riveau
Malaria Journal 2007, 6:117 (1 September 2007)

Malaria prevalence in Nias District, North Sumatra Province, Indonesia (Open access)

Din Syafruddin, Puji BS Asih, Isra Wahid, Rita M Dewi, Sekar Tuti, Idaman Laowo, Waozidohu Hulu, Pardamean Zentrato, Ferdinand Laihad, Anuraj H Shankar
Malaria Journal 2007, 6:116 (30 August 2007)

How human practices have affected vector-borne diseases in the past: a study of malaria transmission in Alpine valleys (Open access)

Julien Serandour, Jacky Girel, Sebastien Boyer, Patrick Ravanel, Guy Lemperiere, Muriel Raveton
Malaria Journal 2007, 6:115 (29 August 2007)

The low and declining risk of malaria in travellers to Latin America: is there still an indication for chemoprophylaxis? (Open access)

Ron H Behrens, Bernadette Carroll, Jiri Beran, Oliver Bouchaud, Urban Hellgren, Christoph Hatz, Tomas Jelinek, Fabrice Legros, Nikolai Muhlberger, Bjorn Myrvang, Heli

Siikamaki, Leo Visser
Malaria Journal 2007, 6:114 (23 August 2007)

Effect of discriminative plant-sugar feeding on the survival and fecundity of *Anopheles gambiae* (Open access)

Hortance Manda, Louis C Gouagna, Woodbridge A Foster, Robert R Jackson, John C Beier, John I Githure, Ahmed Hassanali
Malaria Journal 2007, 6:113 (21 August 2007)

Immunity to blood stages of *Plasmodium falciparum* is dependent on a specific pattern of immunoglobulin subclass responses to multiple blood stage antigens (Subscription required)

Michael Eisenhut
Medical Hypotheses, Volume 69, Issue 4, 2007, Pages 804-808

Mechanism and history of evolution of symbiotic HIV strains into lethal pandemic strains: The key event may have been a 1927 trial of pamaquine in Leopoldville (Kinshasa), Congo (Subscription required)

George E. Parris
Medical Hypotheses, Volume 69, Issue 4, 2007, Pages 838-848

Review on antimalarial drug resistance (Subscription required)

P. Ringwald
Médecine et Maladies Infectieuses, Volume 37, Supplement 1, June 2007, Pages S34-S36

Associations between the IL-4 -590 T allele and *Plasmodium falciparum* infection prevalence in asymptomatic Fulani of Mali

(Subscription required)
Manijeh Vafa, Bakary Maiga, Klavs Berzins, Masashi Hayano, Sandor Bereczky, Amagana Dolo, Modibo Daou, Charles Arama, Bourema Kouriba, Anna Färnert, *et al.*
Microbes and Infection, Volume 9, Issue 9, July 2007, Pages 1043-1048

Typing *Plasmodium yoelii* microsatellites using a simple and affordable fluorescent labeling method (Subscription required)

Jian Li, Yanhui Zhang, Margery Sullivan, Linxian Hong, Lei Huang, Fangli Lu, Thomas F. McCutchan and Xin-zhuan Su
Molecular and Biochemical Parasitology, Volume 155, Issue 2, October 2007, Pages 94-102

Structural polymorphism and diversifying selection on the pregnancy malaria vaccine candidate VAR2CSA (Subscription required)

Joseph Bockhorst, Fangli Lu, Joel H. Janes, Jon Keebler, Benoit Gamain, Philip Awadalla, Xin-zhuan Su, Ram Samudrala, Nebojsa Jojic and Joseph D. Smith
Molecular and Biochemical Parasitology, Volume 155, Issue 2, October 2007, Pages 103-112

Expression and biochemical characterization of *Plasmodium falciparum* DNA ligase I (Subscription required)

Jeffrey S. Buguliskis, Louis J. Casta, Charles E. Butz, Yoshihiro Matsumoto and Theodore F. Taraschi
Molecular and Biochemical Parasitology, Volume 155, Issue 2, October 2007, Pages 128-137

Characterization of human malaria parasite *Plasmodium falciparum* eIF4E homologue and mRNA 5' cap status (Subscription required)

Philip J. Shaw, Napawan Ponmee, Nitsara Karoonuthaisiri, Sumalee Kamchonwongpaisan and Yongyuth Yuthavong
Molecular and Biochemical Parasitology, Volume 155, Issue 2, October 2007, Pages 146-155

Polymorphism study of rhoptry associated membrane antigen (RAMA) gene of *Plasmodium falciparum*—A putative vaccine candidate (Subscription required)

Priyanka Kar, A.P. Dash and Prakash C. Supakar
Molecular and Biochemical Parasitology, Volume 155, Issue 2, October 2007, Pages 156-160

Census, molecular characterization and developmental expression of Leucine-Rich-Repeat proteins in *Plasmodium falciparum* (Subscription required)

Wassim Daher, Raymond Pierce and Jamal Khalife
Molecular and Biochemical Parasitology, Volume 155, Issue 2, October 2007, Pages 161-166

Research highlight: Malaria: Fatal attraction (Subscription required)
Nature Reviews Microbiology 5, 655 (September 2007)

Malaria-specific antibody responses and parasite persistence after infection of mice with *Plasmodium chabaudi chabaudi* (Subscription required)

A. H. Achtman, R. Stephens, E. T. Cadman, V. Harrison & J. Langhorne
Parasite Immunology 29 (9), 435-444

Differential regulation of IgG subclasses and IgE antimalarial antibody responses in complicated and uncomplicated *Plasmodium falciparum* malaria (Subscription required)

P. Tangteerawatana, S. M. Montgomery, H. Perlmann, S. Looareesuwan, M. Troye-Blomberg & S. Khusmith
Parasite Immunology 29 (9), 475-483

Improving Case Definitions for Severe Malaria (Open access)

Nicholas M. Anstey and Ric N. Price
PLoS Med 4(8): e267

Defining Childhood Severe *Falciparum* Malaria for Intervention Studies (Open access)

Philip Bejon, James A. Berkley, Tabitha Mwangi, Edna Ogada, Isaiah Mwangi, Kathryn Maitland, Thomas Williams, J. Anthony G. Scott, Mike English, Brett S. Lowe, Norbert Peshu, Charles R. J. C. Newton, and Kevin Marsh
PLoS Med 4(8): e251

Increasing Coverage and Decreasing Inequity in Insecticide-Treated Bed Net Use among Rural Kenyan Children (Open access)

Abdisalan M. Noor, Abdinasir A. Amin, Willis S. Akhwale, and Robert W. Snow

PLoS Med 4(8): e255

Patterns of Selection in Anti-Malarial Immune Genes in Malaria Vectors: Evidence for Adaptive Evolution in LRIM1 in *Anopheles arabiensis* (Open access)

Michel A. Slotman, Aristeidis Parmakelis, Jonathon C. Marshall, Parfait H. Awono-Ambene, Christophe Antonio-Nkondjo, Frederic Simard, Adalgisa Caccone, Jeffrey R. Powell

PLoS ONE 2(8): e793

Extended Follow-Up Following a Phase 2b Randomized Trial of the Candidate Malaria Vaccines FP9 ME-TRAP and MVA ME-TRAP among Children in Kenya (Open access)

Philip Bejon, Edna Ogada, Tabitha Mwangi, Paul Milligan, Trudie Lang, Greg Fegan, Sarah C. Gilbert, Norbert Peshu, Kevin Marsh, Adrian V.S. Hill

PLoS ONE 2(8): e707

Jammed traffic impedes parasite growth (Subscription required)

Eric Beitz

PNAS 2007 104: 13855-13856

Amodiaquine in future combination treatment of malaria in Ghana

(Subscription required)

Oduro, Abraham Rexford; Anyorigiya, Thomas; Koram, Kwadwo; Anto, Francis; Atobrah, Patrick; Hodgson, Abraham

Tropical Doctor, Volume 37, Number 3, July 2007 , pp. 154-156(3)

Overdiagnosis of malaria in hospitalized patients in Namibia

(Subscription required)

Van Dillen, J.; De Jager, A.J.; De Jong, I.; Wendte, J.F.

Tropical Doctor, Volume 37, Number 3, July 2007 , pp. 185-186(2)

The popularity of insecticide-treated bed-nets as a preventative method of malaria control among residents of Calabar Municipality, Cross River State, Nigeria

(Subscription required)

Akpan, S.S.

Tropical Doctor, Volume 37, Number 3, July 2007 , pp. 192-193(2)

Children's surgery cancelled due to malaria and anaemia

(Subscription required)

Booker, S.R.; Collins, C.M.; Cover, J.A.; Lavy, C.B.D.; Brueton, R.N.

Tropical Doctor, Volume 37, Number 3, July 2007 , pp. 193-193(1)

Correspondence - Malaria and dengue infection after Tsunami in Southern Thailand (Subscription required)

Wiwanitkit, Viroj

Tropical Doctor, Volume 37, Number 3, July 2007 , pp. 194-194(1)

... **Books** ...

Regional Guidelines for the Management of Severe Falciparum Malaria in Large Hospitals

WHO Regional Publications, SEARO Series, No 44

These two parallel guidelines, one for small hospitals and another one for large hospitals, were developed for use by medical personnel who treat severe malaria patients, referred from lower-level health facilities.

Regional Guidelines for the Management of Severe Falciparum Malaria in Small Hospitals

WHO Regional Publications, SEARO Series, No 43

These two parallel guidelines, one for small hospitals and another one for large hospitals, were developed for use by medical personnel who treat severe malaria patients, referred from lower-level health facilities.

... Report ...

Insecticide-treated mosquito nets: a WHO Position Statement (Open access)

This Position Statement from the WHO Global Malaria Programme (WHO/GMP) describes a shift in guidance on malaria prevention through the use of insecticidetreated nets (ITNs).

... Announcement ...

WHO product testing of malaria rapid tests - Expressions of interest from manufacturers for product submission.

WHO is calling for expressions of interest for submission of antigen-detecting malaria rapid diagnostic tests to the WHO malaria diagnostics evaluation programme. Product testing will be undertaken at US CDC in Atlanta, USA, against a panel of wild-type, culture-derived and parasite-negative samples. Manufacturers intending to enter products into the programme are required to submit expressions of interest to WHO by October 19, 2007, in order to participate in the first round of product testing. The product testing programme is part of the joint WHO-FIND programme on quality assurance of malaria rapid diagnostic tests. Further details, and requirements for product inclusion, can be found at www.wpro.who.int/sites/rdt

... Events ...

Second Circular and Provisional Conference Programme: The 1st International Conference on Malaria Vaccines for the World

Date: 17-19 September 2007

Venue: Royal Society of Medicine, London, UK

This new conference – MALARIA VACCINES FOR THE WORLD – MVW 2007 will offer researchers a fresh new forum to discuss the current status of new malaria vaccines initiatives, vaccine candidates and clinical trials. MVW 2007 will focus attention on 'Vaccine Issues' in relation to Malaria as a worldwide disease.

[More information](#)

International Congress of Entomology

Date: 6-12 JULY 2008

Venue: Durban, South Africa

Closing date for all oral and poster submissions: 28 February 2008

Proposals are invited for papers to be presented at the ICE 2008 Congress. Submitted papers should be topical, current and preferably address one of the conference Sections outlined above.

All Abstracts MUST be submitted online.

For online abstract submission and more information please visit www.ice2008.org.za

International Workshop on Molecular Epidemiology & Immunology of Malaria and other Vector Borne Diseases (Emerging & Reemerging Infectious Diseases)

Date: 16 - 19 October 2007

Location: RMRCT (ICMR), Jabalpur, Madhya Pradesh, India

This workshop will allow twenty national and 8 international (preferably from SEAR countries) scholars to receive an in-depth hands-on training on the most recent techniques in molecular epidemiology and immunological assays and interpret complex sets of data. Registration: Registration fee Rs. 1000. Selection for Scholarships: Limited scholarship is available for the scholars preferably from SEAR countries. A scientific panel will select three (3) participants and those will be provided with a FULL scholarship that will cover the complete package of symposium and workshop. An additional five (5) participants (international) will be selected from abstracts who will be provided with a PARTIAL scholarship to attend the workshop only. For Registrations contact by e-mail to course co-ordinator oiemrc@yahoo.co.in. For more info contact: Dr Neeru Singh on neeru.singh@gmail.com

Call for Applications: Fourth Training Course on Functional Genomics of Insect Vectors of Human Diseases

African Center for Training in Functional Genomics of Insect Vectors of Human Diseases (AFRO VECTGEN)

Date: October 30, 2007 - January 25, 2008

Venue: University of Bamako, Mali

Application deadline: September 30, 2007

The goal of AFROVECTGEN current training program is to Build Functional Genomics Research Capacity on Insects Vector of Human Disease Vector in Africa through short term training and providing genomic research opportunities to young scientist in Africa. The center provides opportunity for network in molecular entomology, bioinformatics and functional genomics of insect vectors of human diseases for African scientists.

The training will be designed for young scientist (advanced PhD students and Postdocs, active in entomological research,) who currently use or plan to use genomics in their research. The trainees should also have basic computer skills and strong background in molecular biology. Preference will be given to African researchers who show strong evidence and potential for applying functional genomics into their research activities. In addition, priority will be given to those who received previous functional genomics trainings.

[More information](#)

--- Grants ---

EDCTP Call for proposals

EDCTP is happy to announce that the following calls have been launched on 6 July and 1 August:

- Clinical trials, capacity development and networking in Malaria vaccines development
- Clinical trials, capacity development and networking in Malaria treatment

▪ Clinical trials, capacity development and networking in Malaria in pregnancy
All calls will be open for applications for a period of at least 4 months. All calls are based on the main recommendations of the EDCTP stakeholder meetings on these topics that were held earlier this year. For more information about these calls and how to apply, please consult the For Grant Seekers-section on our website: www.edctp.org

Contributions to MalariaWorld and subscribe/unsubscribe messages should be sent to:
inga@aon.at

K&S Consulting, an independent consultancy firm concerned with medical information provision and training activities, provides this free service.

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