

Publications

Open access | [Linking Deforestation to Malaria in the Amazon: Characterization of the Breeding Habitat of the Principal Malaria Vector, Anopheles darlingi](#)

Amy Y. Vittor et al.

Am J Trop Med Hyg 2009;81 5-12

This study examined the larval breeding habitat of a major South American malaria vector, *Anopheles darlingi*, in areas with varying degrees of ecologic alteration in the Peruvian Amazon. <http://tinyurl.com/lxxdeu>

Open access | [Geostatistical evaluation of integrated marsh management impact on mosquito vectors using before-after-control-impact \(BACI\) design](#)

Rochlin I, Iwanejko T, Dempsey ME, Ninivaggi DV

International Journal of Health Geographics 2009, 8:35 (23 June 2009)

Targeted habitat modification and biological control methods known as Open Marsh Water Management (OMWM) had been proposed as a viable alternative to marsh-wide physical alterations and chemical control. However, traditional larval sampling techniques may not adequately assess the impacts of marsh management on mosquito larvae. To assess the effectiveness of integrated OMWM and marsh restoration techniques for mosquito control, we analyzed the results of a 5-year OMWM/marsh restoration project to determine changes in mosquito larval production using GIS and geostatistical methods. <http://tinyurl.com/noa8fu>

Open access | [Correction: Monitoring and evaluation of malaria in pregnancy - developing a rational basis for control](#)

Bernard J Brabin, Marian Wasame, Ulrika Uddenfeldt-Wort, Stephanie Dellicour, Jenny Hill, Sabine Gies

Malaria Journal 2009, 8:146 (1 July 2009)

I have noted since publication of our paper [Brabin BJ, et al. Monitoring and evaluation of malaria in pregnancy - developing a rational basis for control. Malar J. 2008, 7(Suppl 1):S6] that my surname is incorrect. My surname has been spelt incorrectly as Wasame as it is actually spelt Warsame. <http://tinyurl.com/nvwqcz>

Open access | Predictors of anti-convulsant treatment failure in children presenting with malaria and prolonged seizures in Kampala, Uganda

Arthur Mpimbaza, Sarah G Staedke, Grace Ndeezi, Justus Byarugaba, Philip J Rosenthal

Malaria Journal 2009, 8:145 (29 June 2009)

Specific predictors, including cerebral malaria, can identify patients with malaria at risk of anti-convulsant treatment failure and seizure recurrence. It is interesting that diazepam appears to be more effective in malaria than in non-malaria patients. <http://tinyurl.com/nbdgb4>

Open access | Socio-cultural factors explaining timely and appropriate use of health facilities for degedege in south-eastern Tanzania

Angel Dillip et al.

Malaria Journal 2009, 8:144 (29 June 2009)

Interesting findings on factors influencing treatment-seeking behaviour for forms of severe malaria in Tanzanian children. <http://tinyurl.com/n9zw3p>

Open access | Optimizing expression of the pregnancy malaria vaccine candidate, VAR2CSA in Pichia pastoris

Marion Avril, Marianne J Hathaway, Megan M Cartwright, Severin O Gose, David L Narum, Joseph D Smith

Malaria Journal 2009, 8:143 (29 June 2009)

VAR2CSA is an unusually conserved member PfEMP1 family, which is transcriptionally upregulated in placental isolates. The molecule is the main candidate for a vaccine against pregnancy-associated malaria. This study describes the efforts to optimize the expression and domain boundaries, and looks at immunogenicity of the recombinant proteins. <http://tinyurl.com/nt7937>

Open access | The spatial and temporal patterns of falciparum and vivax malaria in Peru: 1994-2006

Gerardo Chowell, Cesar V Munayco, Ananias A Escalante, F Ellis McKenzie

Malaria Journal 2009, 8:142 (27 June 2009)

An analysis of the weekly number of malaria cases in Perú in conjunction with demographic, geographic and climatological data. <http://tinyurl.com/l4cm8b>

Open access | Efficacy of sulphadoxine-pyrimethamine with or without artesunate for the treatment of uncomplicated Plasmodium falciparum malaria in southern Mozambique: a randomized controlled trial

Elizabeth N Allen, Francesca Little, Tunisio Camba, Yasmin Cassam, Jaishree Raman, Andrew Boule, Karen I Barnes
Malaria Journal 2009, 8:141 (26 June 2009)

An artemisinin-based combination therapy, artesunate (AS) plus sulphadoxine-pyrimethamine (SP), was compared to SP monotherapy to provide evidence of further treatment options in southern Mozambique. <http://tinyurl.com/kvqjnj>

Open access | [Characterization of the repertoire diversity of the Plasmodium falciparum stevor multigene family in laboratory and field isolates](#)

Jane E Blythe, Makhtar Niang, Kevin Marsh, Anthony A Holder, Jean Langhorne, Peter R Preiser

Malaria Journal 2009, 8:140 (26 June 2009)

DNA and RNA sequences analysis as well as phylogenetic approaches were used to analyse the stevor sequence repertoire and diversity in laboratory lines and Kilifi (Kenya) fresh isolates. This indicates that the ancestral *P. falciparum* parasite genome already contained multiple stevor genes that have subsequently diversified further within the different *P. falciparum* populations. It also confirms that STEVOR is under strong selection pressure. <http://tinyurl.com/l59woj>

Open access | [Antimalarial activity of a cis-terpenone](#)

DC Ghislaine Mayer, Maimuna Bruce, Olga Kochurova, Jennifer K Stewart, Qibing Zhou

Malaria Journal 2009, 8:139 (25 June 2009)

Resistance of the parasite to classical drugs makes the discovery of new and effective drugs more urgent. The oxidized derivative of hydroxy-cis terpenone (OHCT) is a synthetic molecule that is not toxic to cultured human liver cells at concentrations as high as 60 μ M and inhibits activity of cytochrome P450s that metabolize many drugs. <http://tinyurl.com/nscs7k>

Open access | [Risk Factors for Helminth, Malaria, and HIV Infection in Pregnancy in Entebbe, Uganda](#)

Woodburn PW, Muhangi L, Hillier S, Ndibazza J, Namujju PB, et al. PLoS Negl Trop Dis 3(6): e473. doi:10.1371/journal.pntd.0000473

In this analysis, we identified which factors put pregnant women in Entebbe, Uganda, at particular risk for worm infections, malaria, HIV, and, where possible, rarer infections including syphilis. <http://tinyurl.com/lkrugs>

Open access | [Histamine H3 Receptor-Mediated Signaling Protects Mice from Cerebral Malaria](#)

Beghdadi W, Porcherie A, Schneider BS, Morisset S, Dubayle D, et al.

PLoS ONE 4(6): e6004. doi:10.1371/journal.pone.0006004

In humans, as well as in murine models of malaria, increased plasma levels of histamine are associated with severity of infection. We reported recently that histamine plays a critical role in the pathogenesis of experimental cerebral malaria (CM) in mice infected with *Plasmodium berghei* ANKA. Histamine exerts its biological effects through four different receptors designated H1R, H2R, H3R, and H4R. <http://tinyurl.com/lqn98n>

Molecular Epidemiology of Malaria in Cameroon. XXVIII. In vitro Activity of Dihydroartemisinin against Clinical Isolates of *Plasmodium falciparum* and Sequence Analysis of the *P. falciparum* ATPase 6 Gene

Rachida Tahar, Pascal Ringwald, and Leonardo K. Basco

Am J Trop Med Hyg 2009;81 13-18

The *Plasmodium falciparum* ATPase 6 (Pf_{atp6}), homolog of sarco-endoplasmic reticulum, calcium-dependent ATPase in malaria parasites, has been proposed to be the main target of artemisinins. Four distinct point mutations (L263E, E431K, A623E, and S769N) have been reported to be associated with artemisinin resistance. The Pf_{atp6} sequence polymorphism was determined to evaluate the prevalence of these mutations in fresh clinical isolates in Yaounde, Cameroon, and compare sequence data with in vitro response to dihydroartemisinin. <http://tinyurl.com/nevj2l>

Short report: High Prevalence and Fixation of *Plasmodium vivax* dhfr/dhps Mutations Related to Sulfadoxine/Pyrimethamine Resistance in French Guiana

Celine Barnadas et al.

Am J Trop Med Hyg 2009;81 19-22

Plasmodium vivax isolates from French Guiana were studied for the presence of mutations associated with sulfadoxine/pyrimethamine (SP) drug resistance. No significant differences were observed between the prevalence of haplotypes and the year of collection. Our results indicate that, in this area, the fixation of SP drug-resistant parasites in the *P. vivax* population is stable. <http://tinyurl.com/m56wsh>

Short report: *Anopheles darlingi* (Diptera: Culicidae) in Panama

Jose Loaiza, Marilyn Scott, Eldredge Bermingham, Jose Rovira, Oris Sanjur, and Jan E. Conn

Am J Trop Med Hyg 2009;81 23-26

We report *Anopheles darlingi* in Darien Province in eastern Panama. Polymerase chain reaction–restriction fragment length polymorphism profiles of the single copy nuclear white gene and sequence comparisons confirmed the presence of 66 specimens of the northern lineage of *An. Darlingi*. <http://tinyurl.com/nudvve>

Design and Discovery of Plasmepsin II Inhibitors Using an Automated Workflow on Large-Scale Grids

Gianluca Degliesposti et al.

ChemMedChem, Volume 4, Issue 7, Date: July 6, 2009, Pages: 1164-1173, 10.1002/cmdc.200900111

Novel and potent inhibitors of *Plasmodium falciparum* plasmepsin II were identified by post-processing the results of a docking screening with BEAR, a recently reported procedure for the refinement and rescoring of docked ligands in virtual screening. <http://tinyurl.com/pnjngk>

Plasmodium falciparum: Effect of Solanum nudum steroids on thiol contents and β -hematin formation in parasitized erythrocytes

Adriana Pabón, Eric Deharo, Lina Zuluaga, Juan D. Maya, Jairo Saez, Silvia Blair

Experimental Parasitology, Volume 122, Issue 4, August 2009, Pages 273-279, doi:10.1016/j.exppara.2009.04.014

We studied the effects on total thiols glutathione (GSH) and cysteine contents in *Plasmodium falciparum* in vitro when treated with four steroid derivatives and a sapogenin (Diosgenone) extracted from *Solanum nudum*. <http://tinyurl.com/pfjoet>

Plasmodium falciparum: Genetic and immunogenic characterisation of the rhoptry neck protein PfRON4

Belinda J. Morahan, Georgina B. Sallmann, Robert Huestis, Valentina Dubljevic, Karena L. Waller

Experimental Parasitology, Volume 122, Issue 4, August 2009, Pages 280-288, doi:10.1016/j.exppara.2009.04.013

Here, we report the structure of the gene that encodes PfRON4 and its apparent limited diversity amongst geographically diverse *P. falciparum* isolates. We also report that PfRON4 protein sequences elicit immunogenic responses in natural human malaria infections. <http://tinyurl.com/pafjpx>

Evaluation of Artemisia annua infusion efficacy for the treatment of malaria in Plasmodium chabaudi chabaudi infected mice

Magnus A. Atemnkeng, Bantuzeko Chimnuka, Bieke Dejaegher, Yvan Vander Heyden, Jacqueline Plaizier-Vercammen

Experimental Parasitology, Volume 122, Issue 4, August 2009, Pages 344-348, doi:10.1016/j.exppara.2009.04.004

The efficacy of artemisinin (AR) against malaria has prompted its use as a tea drink in endemic communities. However, there is controversy about its efficacy in this form. Therefore we have investigated the effectiveness of Artemisia annua infusion in infected mice. <http://tinyurl.com/pfo9to>

P0699 A Case of Cryptic Malaria

Alero Adjene, Akila Danga and Devasenan Devendra

European Journal of Internal Medicine, Volume 20, Supplement 1, May 2009, Page S228

No abstract available. <http://tinyurl.com/n83zh9>

P0749 Retrospective Study of Patients with Malaria Admitted in an Internal Medicine Department from 1999 to 2008

Hilda Freitas, Paulo Ferreira, Emília Lopes, Helena Sarmento, Jorge Cotter

European Journal of Internal Medicine, Volume 20, Supplement 1, May 2009, Page S244

No abstract available. <http://tinyurl.com/n7j7qs>

P0764 Imported Malaria in a Regional Hospital in Barcelona since 1995

Rebeca Acal et al.

European Journal of Internal Medicine, Volume 20, Supplement 1, May 2009, Page S249

No abstract available. <http://tinyurl.com/lju8hf>

P0778 Epidemiology of 49 cases of malaria at the Clínico San Carlos Hospital in Madrid

Antonio T. Salto Ariza, Ana Sainz Herrero, Isabel Viúdez Jiménez, José Antolín Árias, Ramón Cigüenza Gabriel

European Journal of Internal Medicine, Volume 20, Supplement 1, May 2009, Page S253

No abstract available. <http://tinyurl.com/m43t8c>

P0779 Revision of 49 Cases of Malaria: Diagnosis and Treatment

Antonio T. Salto Ariza, Ana Sainz Herrero, Ramón Cigüenza Gabriel, José Antolín Árias

European Journal of Internal Medicine, Volume 20, Supplement 1, May 2009, Pages S253-S254

No abstract available. <http://tinyurl.com/ntl3s6>

Sequence diversity and evolutionary dynamics of the dimorphic antigen merozoite surface protein-6 and other Msp genes of Plasmodium falciparum

Scott W. Roy, Gareth D. Weedall, Rogério L. da Silva, Spencer D. Polley, Marcelo U. Ferreira

Gene, Volume 443, Issues 1-2, 15 August 2009, Pages 12-21, doi: 10.1016/j.gene.2009.05.007

Immune evasion by Plasmodium falciparum is favored by extensive allelic diversity of surface antigens. Some of them, most notably the vaccine-candidate merozoite surface protein (MSP)-1, exhibit a poorly understood pattern of allelic dimorphism, in which all observed alleles group into two highly diverged allelic families with few or no inter-family recombinants. Here we describe contrasting levels and patterns of sequence diversity in genes encoding three MSP-1-associated surface antigens of P. falciparum, ranging from an ancient allelic dimorphism in the Msp-6 gene to a near lack of allelic divergence in Msp-9 to a more classical multi-allele polymorphism in Msp-7. <http://tinyurl.com/pj6rxh>

Nanoencapsulation increases quinine antimalarial efficacy against Plasmodium berghei in vivo

Sandra Elisa Haas, Clarissa Cassini Bettoni, Laura Kausburg de Oliveira, Sílvia Stanisquaski Guterres, Teresa Dalla Costa

International Journal of Antimicrobial Agents, Volume 34, Issue 2, August 2009, Pages 156-161, doi:10.1016/j.ijantimicag.2009.02.024

The aims of this work were to develop quinine (QN)-loaded nanocapsules, to evaluate their efficacy in vivo and to determine their pharmacokinetics and erythrocyte partition coefficient. <http://tinyurl.com/l43wom>

Oral Presentation: O38 A randomized trial to monitor the efficacy and effectiveness by QT-NASBA of artemether-lumefantrine versus dihydroartemisinin-piperaquine for treatment and transmission control of uncomplicated Plasmodium falciparum malaria in western Kenya

P. Mens, P. Sawa, S. Omar, P. Kager, H. Schallig

International Journal of Antimicrobial Agents, Volume 34, Supplement 2, July 2009, Page S14, doi:10.1016/S0924-8579(09)70185-2

No abstract available <http://tinyurl.com/qr6oya>

Oral Presentation: O39 Implementation of confirmatory testing for malaria using real-time PCR

S. Shokoples, C. Dewar, K. Kowalewska-Grochowska, S. Mukhi, S. Yanow

International Journal of Antimicrobial Agents, Volume 34,
Supplement 2, July 2009, Page S14, doi:10.1016/
S0924-8579(09)70186-4

No abstract available <http://tinyurl.com/qnctkg>

Oral Presentation: O40 Molecular diagnosis of malaria in the field: development of a novel, one-step nucleic acid lateral flow immuno-assay for the detection of all 4 human Plasmodium species and its evaluation in Mbita, Kenya

P. Mens, A. Amerongen, P. Sawa, P. Kager, H. Schallig

International Journal of Antimicrobial Agents, Volume 34,
Supplement 2, July 2009, Pages S14-S15, doi:10.1016/
S0924-8579(09)70187-6

No abstract available <http://tinyurl.com/oto9au>

Oral Presentation: O41 Development and evaluation of a novel magneto-optical test (MOT) for the diagnosis of malaria

H. Schallig, P. Mens, R. Matelon, L. Savage, L. Wears, J. Beddow, M. Cox, J. Heptinstal, D. Newman

International Journal of Antimicrobial Agents, Volume 34,
Supplement 2, July 2009, Page S15, doi:10.1016/
S0924-8579(09)70188-8

No abstract available <http://tinyurl.com/qfxvly>

Poster Presentation: P11 Multi-drug resistance in malaria under combination therapy: assessment of specific markers and development of innovative, rapid and simple diagnostics

H. Schallig

International Journal of Antimicrobial Agents, Volume 34,
Supplement 2, July 2009, Page S30, doi:10.1016/
S0924-8579(09)70230-4

No abstract available <http://tinyurl.com/ptyhqs>

Poster Presentation: P16 Targeting PfHsp90 in Plasmodium falciparum malaria: a strategy to reverse resistance

D. Shahinas, D. Pillai

International Journal of Antimicrobial Agents, Volume 34,
Supplement 2, July 2009, Page S32, doi:10.1016/
S0924-8579(09)70235-3

No abstract available <http://tinyurl.com/prye9z>

Poster Presentations: P171 Severity of Plasmodium falciparum infection in Ghanaian children is associated with a STAT6 single nucleotide polymorphism

D. Amoako-Sakyi, B. Gyan, R. Asmah, K. Kusi, D. Doodoo, B. Gyan

International Journal of Antimicrobial Agents, Volume 34,
Supplement 2, July 2009, Page S82, doi:10.1016/
S0924-8579(09)70390-5

No abstract available <http://tinyurl.com/r4d2gx>

Poster Presentation: P210 Validating quantitative real-time PCR (RTPCR) for the detection of Plasmodia spp. in returning travelers

K. Khairnar, R. Lau, D. Martin, D. Pillai

International Journal of Antimicrobial Agents, Volume 34,
Supplement 2, July 2009, Pages S93-S94, doi:10.1016/
S0924-8579(09)70390-5

No abstract available

Poster Presentation: P302 A study of complicated P. falciparum malaria and clinical efficacy of Alpha-Beta Arteether in complicated P. falciparum

M. Sharma

International Journal of Antimicrobial Agents, Volume 34,
Supplement 2, July 2009, Page S121, doi:10.1016/
S0924-8579(09)70521-7

No abstract available <http://tinyurl.com/r7t6be>

Liquid chromatographic tandem mass spectrometric assay for quantification of 97/78 and its metabolite 97/63: A promising trioxane antimalarial in monkey plasma

R.P. Singh, S. Sabarinath, N. Gautam, R.C. Gupta, S.K. Singh

Journal of Chromatography B, Volume 877, Issue 22, 15 July 2009,
Pages 2074-2080, doi:10.1016/j.jchromb.2009.05.044

The present manuscript describes development and validation of LC-MS/MS assay for the simultaneous quantitation of 97/78 and its active in-vivo metabolite 97/63 in monkey plasma using α -arteether as internal standard (IS). The validated assay method, described here, was successfully applied to the pharmacokinetic study of 97/78 and its active in-vivo metabolite 97/63 in Rhesus monkeys.

<http://tinyurl.com/qw7vr3>

Fast Track: Financing of global health: tracking development assistance for health from 1990 to 2007

Nirmala Ravishankar et al.

The Lancet, Volume 373, Issue 9681, 20 June 2009-26 June 2009,
Pages 2113-2124, doi:10.1016/S0140-6736(09)60881-3

We aimed to provide a comprehensive assessment of development assistance for health (DAH) from 1990 to 2007. DAH grew from \$5.6 billion in 1990 to \$21.8 billion in 2007. Of the \$14.5 billion DAH in 2007 for which project-level information was available, \$5.1

billion was for HIV/AIDS, compared with \$0.7 billion for tuberculosis, \$0.8 billion for malaria, and \$0.9 billion for health-sector support. <http://tinyurl.com/p9lsgr>

Personal view: Quinine monotherapy for treating uncomplicated malaria in the era of artemisinin-based combination therapy: an appropriate public health policy?

Adoke Yeka, Jane Achan, Umberto D'Alessandro, Ambrose O Talisuna

The Lancet Infectious Diseases, Volume 9, Issue 7, July 2009, Pages 448-452, doi:10.1016/S1473-3099(09)70109-4

Several African countries that have adopted artemisinin-based combination therapy (ACT) as first-line treatment of uncomplicated Plasmodium falciparum malaria also use quinine monotherapy as second-line therapy. This policy goes against WHO recommendations for combination therapy and could be considered an inappropriate public health policy. <http://tinyurl.com/olr44e>

Reflection and Reaction: Affordable Medicines Facility for malaria

Roger Bate, Kimberly Hess

The Lancet Infectious Diseases, Volume 9, Issue 7, July 2009, Pages 396-397, doi:10.1016/S1473-3099(09)70158-6

No abstract available <http://tinyurl.com/ow243t>

Review: The role of ATP-binding cassette (ABC) proteins in protozoan parasites

Virginie Sauvage, Dominique Aubert, Sandie Escotte-Binet, Isabelle Villena

Molecular and Biochemical Parasitology, Volume 167, Issue 2, October 2009, Pages 81-94, doi:10.1016/j.molbiopara.2009.05.005

In this review, we present an overview of ABC proteins in major protozoan parasites including Leishmania, Trypanosoma, Plasmodium, Toxoplasma, Cryptosporidium and Entamoeba species. We will also discuss the role of characterized ABC transporters in the biology of the parasite and in drug resistance. <http://tinyurl.com/ohghqq>

A complex of three related membrane proteins is conserved on malarial merozoites

Kempaiah Rayavara, Thavamani Rajapandi, Kurt Wollenberg, Juraj Kabat, Elizabeth R. Fischer, Sanjay A. Desai

Molecular and Biochemical Parasitology, Volume 167, Issue 2, October 2009, Pages 135-143, doi:10.1016/j.molbiopara.2009.05.006

Invasion of human red blood cells by the malaria parasite *Plasmodium falciparum* is a coordinated, multi-step process. Here, we describe three novel integral membrane proteins that colocalize on the inner membrane complex immediately beneath the merozoite plasma membrane. <http://tinyurl.com/oaj48t>

Polymorphism of intron-1 in the voltage-gated sodium channel gene of *Anopheles gambiae* s.s. populations from Cameroon with emphasis on insecticide knockdown resistance mutations

Josiane Etang et al.

Molecular Ecology, Volume 18, Issue 14, Date: July 2009, Pages: 3076-3086, 10.1111/j.1365-294X.2009.04256.x

Sequence variation at the intron-1 of the voltage-gated sodium channel gene in *Anopheles gambiae* M- and S-forms from Cameroon was assessed to explore the number of mutational events originating knockdown resistance (kdr) alleles. <http://tinyurl.com/r2tf5g>

Comment and Analysis: Last line of defence

Martin de Smet

The New Scientist, Volume 202, Issue 2713, 17 June 2009, Pages 22-23, doi: 10.1016/S0262-4079(09)61642-0

We must not let malaria develop resistance to the best drug we have, says Martin de Smet. <http://tinyurl.com/qkvet6>

Insecticidal and repellent activities of thymol from the essential oil of *Trachyspermum ammi* (Linn) Sprague seeds against *Anopheles stephensi*

S. K. Pandey, Shikha Upadhyay, A. K. Tripathi

Parasitology Research, Volume 105, Number 2 / August, 2009, 507-512. DOI: 10.1007/s00436-009-1429-6

Essential oil of seeds of *Trachyspermum ammi* (Linn.) Sprague and its pure constituent thymol showed promising results when evaluated for larvicidal, oviposition-deterrent, vapor toxicity, and repellent activity against malarial vector, *Anopheles stephensi*. <http://tinyurl.com/nvx8a6>

***Plasmodium falciparum* heat shock protein 101 (Hsp101); P. falciparum hypothetical protein (PF14_0344; Ptex150); P. falciparum exported protein 2 (PKG_123420; Exp2); P. falciparum hypothetical protein (PF11_0067; Ptex88); P. falciparum mitochondrial thioredoxin (MAL13P1.225; Trx2)**

Science-Business eXchange 2, (25 June 2009) doi:10.1038/scibx.2009.1015

In vitro studies identified a *P. falciparum* protein trafficking complex that could be targeted to help treat malaria. Further details on the

research, next steps and licensing status are discussed in the article. <http://tinyurl.com/qxdwxn>

Manuals

Open access | **Manual for the Use of Stable Isotopes in Entomology**

FAO-IAEA Insect Pest Control Subprogramme

An introduction to stable isotope techniques, to expose the scientist to the possibilities and highlight the potential uses of stable isotopes in an entomological context. It describes the basic principles and methodologies of isotope science and provides a springboard for further interest and research in this area. <http://tinyurl.com/rdlaqt>

Jobs



Faculty Appointments in Infectious Disease - The Evolution & Dynamics of Pathogens

The Eberly College of Science, The College of Agricultural Sciences, The College of Earth and Mineral Sciences, The Huck Institutes of Life Sciences, and The Penn State Institutes of Energy & the Environment are seeking to appoint a number of faculty positions in the fields of theoretical and empirical infectious disease biology. Specifically we are interested in exciting, interdisciplinary candidates who are Mathematicians, Physicists, Statisticians, Climate Modelers or Biologists, to provide novel insights into parasite-host interactions that range from within-host interactions, between-host transmission events and population-level dynamics.

We seek interactive people who can work across disciplines and identify novel insights and solutions to managing the disease burden. We encourage candidates interested in dynamical issues relating to pathogen epidemiology and evolution, such as the evolutionary impact of drugs, vaccines and insecticides and the role of ecological and evolutionary factors in the invasion and emergence of diseases. We also seek candidates with expertise in theoretical modeling and the interaction of climate and disease - specifically dynamical downscaling of global and regional climate to elucidate the biological processes of disease transmission. The candidates will become integral to one of our centers of excellence such as The Center for Infectious Disease Dynamics (<http://www.ciddd.psu.edu/>), The Center for Molecular Immunology & Infectious Disease (<http://>

cmiid.psu.edu) or The Earth Systems Science Center (<http://www.essc.psu.edu/>).

We are cluster hiring in this area and will consider appointment at any scale for Assistant, Associate or Full Professor. Penn State offers highly competitive salaries and startup package with institutional support for students. Please submit one electronic application consisting of a cover letter including future research plans, curriculum vitae and the contact information of three references to Judie Burns at jeb2@psu.edu. Review will start June 15th and continue until a number of positions have been filled.

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

Don't forget to mention **MalariaWorld** when replying to this advert.

News

General

25 June 2009, IRINnews.org

Global: Vitamin A deficiency and malaria

Vitamin A supplements in malaria-endemic areas can help reduce infections in children by one-third, according to the most recent Malaria Journal. <http://tinyurl.com/mfpd9z>

Africa

30 June 2009, Daily Nation

Kenya: Wrong Drugs Pull Back Malaria War

The government is concerned about the continued use of wrong malaria drugs in the market, including in its own health facilities. <http://tinyurl.com/oryjcb>

29 June 2009, Vanguard

Nigeria: Health Experts Seek Lasting Cure for Malaria, HIV

Health experts have lamented inability of medical researchers to find a lasting cure in the form of a reliable vaccine for malaria and HIV even though potential benefits of efficacious malaria or HIV vaccines are not in doubt. <http://tinyurl.com/o5xslg>

29 June 2009, Ghanaian Chronicle

Ghana: Yankey Takes Malaria Campaign to Takoradi

DR. SIPA Adjah Yankey, Minister for health, has stated that the government of President John Evans Atta Mills would not sit down unconcerned, and watch helplessly, while Ghanaians continue to die in their numbers, as a result of the worsening situation of malaria in the country. <http://tinyurl.com/oqp7vd>

28 June 2009, University World News

South Africa: US: Malaria resistance in baboons and humans

On the face of it, baboons and human do not seem to have a lot in common. They are hairy, have long snouts and big bottoms and most of us do not. But researchers at Duke University have found a surprising similarity at a genetic level - humans and baboons have separately evolved an identical means of resisting malaria. <http://tinyurl.com/ntxhpx>

26 June 2009, Daily Independent

Nigeria: Crisis of Healthcare

It is mandatory for countries, including Nigeria, to strive to achieve the Millennium Development Goals by 2015. One of these goals is the attainment of adequate and affordable healthcare for the citizens. <http://tinyurl.com/njpa4d>

26 June 2009, Times of Zambia

Zambia: China Hands Over Anti-Malaria Centre

The Chinese government yesterday handed over an anti-malaria centre with advanced medical equipment to the Zambian Government. <http://tinyurl.com/nu7e6e>

25 June 2009, Concord Times

Sierra Leone: Pharmacy Board Makes Anti-Malaria More Accessible

The Pharmacy Board of Sierra Leone-PBSL in a bid to make Anti Malaria Drugs more accessible to the vast majority of citizenry, has deregulated the sales of Atesunate (the combination therapy for Malaria treatment) which used to be a prescription drug and could now be sold over the counter and in patent drug stores all over the country. <http://tinyurl.com/l8rml>

23 June 2009, The Namibian

Namibia: Mixed Progress on Millennium Goals

Namibia has made progress with some of its eight Millennium Development Goals (MDGs), but has not succeeded in achieving targets such as increasing primary school enrolment, lowering the death rate of babies and children under five years and increasing access to sanitation in rural areas and informal settlements, a new report states. <http://tinyurl.com/kobmkt>

Asia

30 June 2009, Times of India

India: Mosquito breeding at its peak now, warn doctors

Mumbai: The on-off showers may have given Mumbaikars the weather they were looking for but the showers have also got health officials worried. Mosquito-breeding is at its peak during such intermittent rains, warn doctors, urging Mumbaikars to watch out for any symptoms of fever with chills. <http://tinyurl.com/nnp7wx>

30 June 2009, Hindu

India: Closing pores 'could trap malaria inside red blood cells'

Scientists claim to have found a vulnerability in the life cycle of malaria, a major breakthrough which could pave the way for the development of new treatments against the devastating disease. <http://tinyurl.com/lnc8b3>

29 June 2009, pharmabiz.com

India: CIMAP to focus on medicinal plants for devpt of malaria, anti microbials & bio-enhancers drugs

Central Institute of Medicinal and Aromatic Plants (CIMAP), which is part of the Council of Scientific and Industrial Research is gearing up to increase its focus to identify medicinal plants that help tackle specific disease conditions. <http://tinyurl.com/mxssez>

28 June 2009, E-Pao.net

India: Advocacy meeting on malaria

An advocacy meeting for media personnel for prevention and control of Malaria was held today under the aegis of Manipur State Vector Borne Diseases Control Society at the Conference Hall of the State Guest House. <http://tinyurl.com/mpvkaz>

28 June 2009, E-Pao.net

India: Media's role in malaria control stressed

Underscoring the significant role that media can play in bridging the gap between the public and the activities of the Manipur State Vector Borne Disease Control Society, an advocacy meeting of the media personnel on prevention and control of vector-borne diseases was held under the aegis of the Society as part of its ongoing Anti-Malaria Month, 2009 observance at the conference hall of State Guest House here today. <http://tinyurl.com/l85xbh>

27 June 2009, Calcutta Telegraph

India: Malaria deaths rising in Meghalaya: CAG

Malarial deaths have increased alarmingly over the years in Meghalaya despite the health department incurring Rs 23.70 crore from 2003 to 2008 for prevention of the disease, a report of the comptroller and auditor general (CAG) of India, said. <http://tinyurl.com/nwk9wa>

26 June 2009, pharmabiz.com

India: ICGEB transfers technology for development of malaria vaccine 'Jaivac' to Bharat Biotech

International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi has now developed a malaria vaccine 'Jaivac' and has transferred the technology to the Hyderabad based Bharat Biotech. <http://tinyurl.com/nq3ggt>

Oceania

24 June 2009, News-Medical.net

Australia: Malaria cases reported in Cambodian public facilities drop more than 50%

There was more than a 50 percent drop in the total number of malaria cases reported by public facilities in Cambodia between 2003 and 2008, according to the National Centre for Parasitology, Entomology and Malaria Control's annual report, which was released on Tuesday, the Phnom Penh Post reports. <http://tinyurl.com/l3gts5>

Americas

29 June 2009, Monsters and Critics.com

USA: Net and insect repellent greatly reduces malaria infection

A study conducted in Bolivia's Amazon region has found that the best protection against malaria infection is to sleep at night under an impregnated mosquito net with insect repellent applied to the skin. <http://tinyurl.com/msjev4>

27 June 2009, Boston Globe

USA: Malaria, DDT, and desperation in Uganda

With malaria sapping so much life and potential, Uganda has been driven to spray the interior of homes with DDT. <http://tinyurl.com/mhzaor>

25 June 2009, University of Wisconsin-Madison News

USA: Major study links malaria mosquitoes to Amazon deforestation

In one of the most field-intensive efforts to explore the connection between malaria and tropical deforestation, a team led by Jonathan

Patz, a specialist in the link between environment and health at the Nelson Institute for Environmental Studies at the University of Wisconsin-Madison, has established a strong correlation between the extent of forest destruction and the incidence of the Amazon's most dangerous malaria vector, the mosquito *Anopheles darlingi*. <http://tinyurl.com/moww3l>

25 June 2009, Diamondback Online

USA: Researchers working on malaria vaccine

Malaria kills more than one million people every year, the majority of them small children in underdeveloped sub-Saharan African countries. But in a sprawling lab in Rockville, David O'Brochta is inching closer to a vaccine every day. <http://tinyurl.com/l36tdu>

24 June 2009, GenomeWeb Daily News

USA: Study Suggests Malaria Resistance Variants Have Comparable Role in Different Parts of Primate Lineage

Malaria-related resistance has evolved similarly in humans and wild primates, according to a newly published study of baboons in East Africa. <http://tinyurl.com/nhsews>

24 June 2009, EurekAlert (press release)

USA: On malaria struggle, baboons and humans have similar stories to tell

Evolutionarily speaking, baboons may be our more distant cousins among primates. But when it comes to our experiences with malaria over the course of time, it seems the stories of our two species have followed very similar plots. <http://tinyurl.com/nmo93t>

24 June 2009, Voice of America

USA: Malaria is Number One Killer of Children in Southern Sudan

Malaria is widespread in the semi-autonomous region of southern Sudan, accounting for up to 30 percent of all diseases treated by health facilities. Aid groups and the government of southern Sudan are set to distribute three million bed nets later this year as one way of fighting the scourge. <http://tinyurl.com/mfpm55>

24 June 2009, PR Newswire (press release)

USA: Marathon and Partners Announce Dramatic Results of Malaria Control Project on Bioko Island in Equatorial Guinea

Marathon Oil Corporation (NYSE: MRO) announced today that the Bioko Island Malaria Control Project (BIMCP) in Equatorial Guinea has achieved measurable results dramatically reducing the risk of death in children on Bioko Island in Equatorial Guinea, as reported

in the scientific journal The American Journal of Tropical Medicine and Hygiene (AJTMH). <http://tinyurl.com/lacn3p>

Europe

30 June 2009, Earthtimes (press release)

UK: Keep Mosquitoes and More Out of Your Yard with Garlic From Garlic Research Labs, Inc.

If you have been eating Garlic to keep the mosquitoes away you may want to think again. While there is absolutely no scientific evidence that eating garlic actually keeps mosquitoes away, spraying garlic has plenty of evidence to prove it keeps them away. <http://tinyurl.com/lmkj6m>

25 June 2009, World Travel Guide

UK: Britons ignore malaria risks as numbers of infections soar

A fifth of Britons travelling to malaria-prone regions do not take antimalarial tablets, and a further 11% are not even aware they have entered an infected area, says a survey by Lloydspharmacy. <http://tinyurl.com/lvo899>

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