

Dr. Usa Lek-Uthai

Associate Professor

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Professional Trainings

- 2010 Protein Expression and Purification strategies International workshop, Faculty of Medicine, Chulalongkorn University, Sept 2010
- 2009 Molecular and Cellular Biology workshop, Faculty of Medicine, Siriraj Hospital, Mahidol University
- 2008 Bioinformatics: Liverpool School of Tropical Medicine, U.K.
- 2007 Diagnostic technology of asthma and allergy (molecular biology, serology, and bacteriology) specific IgE Microassay techniques and chemical allergic protein analysis, occupational respiratory diseases characterization and prevention technology, at University of Turku and University of Helsinki, Finland. [Commission of Higher Education Research Fellowship Program]
- 2007 Allergic and carcinogenic-causing risk assessment technology and blood-borne risk surveillance and preventive systems at National Institute of Occupational Safety and Health, Centers for Diseases Control and Prevention (CDC), U.S.A. (Ohio, West Virginia and Washington DC), U.S.A. Visiting Professor
- 2006 Molecular Biology technology for Blood and Tissue Analysis, at Menzies School of Health Research and Charles Darwin University, Darwin, North Territory, Australia. Visiting Professor
- 2006 Rapid detection and discrimination of Mycobacterial infection by LAMP (Loop-Mediated Isothermal Amplification) Method training, Faculty of Public Health, Mahidol University (Prof. Yasuhiko Suzuki, Research Center for Zoonosis Control, Hokkaido, Japan)
- 2005 Molecular Biology of Protozoal Infections, Michigan State University, Michigan, U.S.A.(Fellowship)
- 2005 Geographical Information System (Certificate), Dept of Environmental Science and Resources, Mahidol University, Thailand.
- 2004 New Technology Applied to Medical Entomology (Sponsored by AVENTIS PASTEUR & French Embassy), Thailand
- 2004 Multiuser-server/client centralizer spatial database), Dept of Environment and Resource Studies, Mahidol University, Thailand
- 2004 Cert. in Geographical Information System (GIS), Dept of Environment and Resource Studies, Mahidol University, Thailand
- 2004 Institution Management in Higher Education [International Institution for Education Planning and SEAMEO Regional Center for Higher Education and Development (RIHED)]

- 2004 ICH GCP (Good Clinical Practice) Program: Clinical Research Skills Workshop for Investigators, Drug Control Division, FDA, Ministry of Public Health, Bangkok, Thailand.
- 2002 Health Management Information System, National University of Taiwan, Taipei, Taiwan
- 2001 Environmental Health, Seoul, Korea
- 2000 Cert.in Health Promotion and Health Program Evaluation (WHO funding), Curtin University, Perth, Australia.
- 2000 Cert. in Geo-informatics System, Faculty of Environment and Resource Studies, Mahidol University, Thailand.
- 2000 Single Nucleotide Polymorphism (SNP) and Bio-informatics, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
- 1996 Hospital Administration, University of Hawaii, Honolulu, U.S.A.
- 1996 Alternative Medicine (Acupuncture), Hospital of Zhuhai City, China
- 1991 Cert. of the APCO Training Course on Integrate Project with Special Emphasis on Soil-Transmitted Helminthiasis. (Supported by JAPC&JOICEP, Tokyo, Japan)
- Cert. in Research Methods, Cert. in Public Health Education, Cert. in Quality Assurance and Enhancement of Teaching and Research Programs for Higher Education, Mahidol University 91-1989

Specializations:

Main subject area

Molecular/Cellular Parasitology and Entomology [diagnosis, treatment, control strategies]

Special interests

- Bio-nano-molecular Diagnostic; Drug resistance; Malaria, Filariasis, Dengue (DENV) and Chikungunya(CHIKV).
- Molecular Epidemiology of infectious diseases
- Protein Analysis and Molecular Susceptibility of *Anopheles* spp. to Malaria, *Aedes* spp to Dengue and CHIKV, and *Mansonia* sp to Filariasis.
- Diseases Evolution (Phenotypic and Genotypic Diversities of vector-borne infections)
- Prevention and control strategic management to infectious diseases (Genetic and Genomic Population structure)
- *Acanthamoeba* keratitis diagnosis and control measures.

Editorial/Advisory/Consultancy/Reviewer work performed/experience

Editorial Board

Asia Journal of Public Health

Journal of Public Health

Asia Journal of Public Health

Asia Pacific Journal of Tropical Medicine

Hainan Medical Journal



Reviewers

a) International Organizations

- Journal of Biological Control (Biology 2007-present)
- Experimental Parasitology Journal (zoonoses 2007-present)
- Transactions of the Royal Society of the Tropical Medicine and Hygiene Journal (Biodiversity-Bioinformatics 2008-present)
- Acta Tropica (Molecular microbiology 2009-present)
- Bulletin of the World Health Organization
- PLoS One (Public Library of Science) (2008-present)
- Journal of Toxicology and Environmental Health Sciences (2009-present)

b) National Organizations

- Journal of Medical Association of Thailand (2007-present)
- Journal of Science and Technology; Gastroenterology, Cancer (2005)
- Journal of Public Health, (2002-present)

Consultant /other Experiences

- Research Consultant : Malaria Project, Ministry of Public Health (2006)
- Expert Auditor for Quality Assurance/Quality Circle Control, EGAT-Bang Prakong, Thailand (2008)
- Reviewer for Academic Performance Promotion and Assessment system (2004-present)
- Reviewer on Ethical Clearance Committee for Research, Military Medicine, Pramongkutkloa, College of Medicine, Bangkok
- Editorial Board of Journal of Public Health (Thailand) (Public Health: Infectious Diseases and Epidemiology (2002-present)
- Ethical Documentary Clearance Committee, FoPH, Mahidol U. (2002-present)
- Academic Reviewer: Associate Professor (MEd0516 /ร.ท.ว.ร., 2 May 2007)) MEd0514 .1.3.5/ร.4017; 1 June 2007. Kon-Kaen University)
- Higher Education Quality Auditor (Mahidol University)
- Project Evaluation: National Science and Technology Development (2005), Naresuan University (MEd 0537.01/ร.ท. 10590 ;10 Oct 2007) 2 projects(
- Project consultant and evaluation: Division of Military Science and Technology, Ministry of Military, Bangkok, Thailand. (MMil 0215/1401, 28 Sept 2007)
- Research and Development Project on Tropical Diseases Prevention, Dengue Control project 2006
- Auditor for Quality Assurance/Quality Circle Control, EGAT-Bang Prakong,Thailand

Others:

- Assistant dean, Faculty of Public Health, Mahidol University

Research Oral Presentations and activities

- 2010 Malaria World Lek-Uthai U's BLOG
2009 Vivax Malaria Research Meeting-IV: Geographic and Genetic of *Plasmodium vivax* isolates organized by Matthew Rollie, Department of Global Health, College of Public Health, University of South Florida (September 2009)
2007 Singapore, National University of Singapore, National Malaria Reference Centre, Department of Microbiology, Office of Life Science: project title: *Plasmodium vivax* Biomechanicals and Deformability Project (2007-2009). Supported by the Global Enterprise for Micro-Mechanics and Molecular Medicine (GEM⁴), Massachusetts Institute of Technology, U.S.A.
2006 Glasgow, Scotland, UK; International Congress of Parasitology, ICOPA XI,
2005 Bangkok, Thailand; Joint International Tropical Medicine Meeting.
2001 Yamagata, Japan (The Joint Meeting of the 70th Annual Meeting of the Japan Society of Parasitology and the 53rd Annual Meeting of the Japan Society of Medical Entomology and Zoology)
2000 Oxford University, Oxford, U.K.(New Challenges in Tropical Medicine and Parasitology)
1999 Sydney, Australia (Pacific Science Congress XIX)

Textbooks:

1. **Lek-Uthai U.** Chapter 9: The Biological Relationship of Malaria on Epidemiology and Diseases Control Strategies: In Public Health Parasitology 5th eds. Sahathammik Co.Ltd: Bangkok.1993:358-84.(in Thai). (ISBN 974-585-640-1)
2. **Lek-Uthai U.** General Public Health: Community Health. 2nded. Chareondee Printing: Bangkok. 1998: 89 pages (in Thai) (ISBN 974-662-865-8).
3. **Lek-Uthai U.** Vector-borne Diseases: Malaria and Filariasis Control. 1st ed. Chareondee Printing: Bangkok. 227 pages. (in Thai) (ISBN 974-662-866-6).

Awards:

- 2005 Publication reward for Research, Faculty of Graduate Studies, Mahidol University.
2006 Publication reward for Research, Faculty of Public Health, Mahidol University.
2007 Publication reward for Research, Faculty of Public Health, Mahidol University
2008 Publication reward for Research, Faculty of Graduate Studies and Faculty of Public Health, Mahidol University (2 rewards)
2009 Publication award for Research, Faculty of Public Health, Mahidol University
2010 Publication award for Research, Faculty of Public Health, Mahidol University (China Medical Board of New York, CMB)

Academic Memberships:

- Parasitology and Tropical Medicine Association of Thailand (Life)
- Japan Society of Immunology, Entomology and Parasitology, Japan
- ACIPAC (Asian Center of International Parasite Control), Thailand and Japan governments.
- Science Advisory Member (since May 2006)
- Asia-Pacific Academic Consortium for Public Health (APACPH)
- Southeast Asian Public Health Education Institutes Networks (SEAPHEIN)



Projects in progress

1. Susceptibility of *Aedes aegypti* deltamethrin resistant strains to artificial membrane feeding with Dengue-2 virus (Master's)
2. Detection for estimating copy numbers of *mdr1*(3D7) gene in *Plasmodium falciparum* by real-time PCR and loop-mediated isothermal amplification Methods (Master's)
3. Genotypic allelic polymorphisms of *Plasmodium vivax* in areas of Thailand with different malaria endemicity (PhD)
4. Microsatellite loci flanking based population structure of *Plasmodium vivax* dihydrofolate reductase gene from Thai isolates with different malaria endemicity
5. Advanced *in vitro*, Genomic and transcription reference to Malaria Drug resistance and genetic diversities of *Plasmodium* spp (ref No 134/2550)
6. Biomechanical and Nanostudies on the cytoadhesion and deformability of Malaria IRBCs (ref no 59/2549)
7. Isolation of Rhomboid-Like Protease 1: malaria invasive protein from *Plasmodium vivax* merozoite.(PhD's)
8. Genetic diversity of the Duffy Binding Protein Region II gene of *Plasmodium vivax* from Thai isolates with malaria endemicity (CMB-2009-2010)
9. Evolution of variant genes (*vir*), the putative *Plasmodium vivax* antigens involved in antigenic variation and immune evasion in areas of Thailand with different malaria endemicity (TRF-RGJ-PhD-2008).
10. *Plasmodium vivax* *msp1* domain and mutations in different amino acid variations which affect the immunogenic properties; Thailand Research Fund-through the Royal Golden Jubilee-PhD-2010

Publications

International Journal Publications (year of JCR-ISI-impact Factor included)

1. Ang Li, Bruce Russell, Laurent Renia, **Usa Lek-Uthai**, Francois Nosten, Chwee Teck Lim. High density of 'spiky' excrescences covering the surface of an erythrocyte infected with *Plasmodium malariae*. *British J Haematol* 2010,doi:10.1111/j.1365-2141.2010.08261.x. (ISI-2008, **IF=4.478**)
2. Kaewpongsri S, Sriprawat K, Suwanarusk R, Kyle D, **Lek-Uthai U**, Leimanis M, Lwin KM, Phyto AP, Zwang J, Russell B, Nosten F, Renia L. Leukocytes Decrease the *Ex vivo* Sensitivity of *Plasmodium vivax* and *Plasmodium falciparum* to Chloroquine and Artesunate. *Antimicrob Agents Chemother*, 2010. (2nd revision) (ISI-2008, **IF=4.156**)
3. Varakorn Kosaisavee, **Usa Lek-Uthai***, Rossarin Suwanarusk, Bruce Russell, Zbynek Bozdech, Laurent Renia. Comparative Genomic Hybridization Microarray Analysis for the Detection of Gene Copy Number Variations in *Plasmodium vivax* Dried Blood Spots. *PLoS ONE* 2010, 1st revision (23 July 2010)
4. Ang Li, Russell B, **Lek-Uthai U**, Tan KSW, Suwanarusk R, Claser C, Mallert B, Snounou G, Nosten F, Renia L, Lim CT. Beyond Shuffners dots; red cell caveolae and caveolin-1 in relation to *Plasmodium vivax* infection. *Antimicrob Agents Chemother*; (in process) (ISI-2008, **IF=4.156**)

5. **Lek-Uthai U***, Sangsayan J, Kachenchart B, Kulpradit K, Sujirarat D, Honda K. Novel Ellipsoid Spatial Analysis for Determining Malaria Risk at the Village Level. *Acta Tropica*, 2010;116:51-60.(JCR-2008 **IF=2.221**)
6. **Lek-Uthai U***, Passara R, Roongruangchai K. Morphological Features of *Acanthamoeba* Cause Keratitis Contaminated from Contact Lens Cases. *J Med Assoc Thai* 2009;92(sup7):s156-63.
7. Prumongkol S, Panasoponkul C, Apiwathnasorn C, **Lek-Uthai U***. Refractoriness of *Culex sitiens* to experimental infection with nocturnal subperiodic *Brugia malayi*. 2009; *J Trop Med Parasitol* 32;2:82-6.
8. Kanlaya Sriprawat, Supaporn Kaewpongsri, Rossarin Suwanarusk, Mara L. Leimanis, **Usa Lek-Uthai**, Aung Pyae Phyo, Georges Snounou, Bruce Russel*, Laurent Renia, François Nosten. Effective and cheap removal of leukocytes and platelets from Plasmodium infected blood. *Malaria Journal*, 2009;8:115. doi:10.1086/1475-2875-8-115. (JCR-2008, **IF=2.91**).
9. **Lek-Uthai U***, Passara R, Roongruangchai K, Buddhirakkul P, Thammapalerd N. Rapid identification of *Acanthamoeba* from contact lens case using loop-mediated isothermal amplification method. *Experimental Parasitology* 2009;121:342-45. (JCR-2007, **IF=1.597**)
10. Suwanarusk R, Chavchich M, Russell B, Jaidee A, Chalfein F, Barends M, Prasetyorini B, Kenangalem E, Piera KA, **Lek-Uthai U**, Anstey NM, Tjitra E, Nosten F, Cheng Q, Price RN*. *Pvmdr1* amplification and polymorphisms associated with multidrug resistant *P. vivax*. *Journal of Infectious Diseases* 2008;196:15. (JCR-2007, **IF 6.035**).
11. **Lek-Uthai U**, Suwanarusk R, Ruengweerayut R, Skinner-Adams T, Boonma P, Gardiner DL, Piera KA, Andrews K, MacHunter B, McCarthy J, Anstley NM, Price RN, Russell B*. Stronger Activities of Human Immunodeficiency Virus type 1 Protease Inhibitors against clinical isolates of *Plasmodium P. vivax* than against those of *P. falciparum*. *Antimicrobial Agents and Chemotherapy* July 2008;52(7):2435-41. (JCR-2006, **IF=4.390**)
12. Sharrock WW, Suwanarusk R, **Lek-Uthai U**, Edstein M, Kosaisavee V, Travers T, Jaidee A, Nosten F, Russell B*. *Plasmodium vivax* Trophozoites Insensitive to Chloroquine. *Malaria Journal* 2008, 7:94 (27 May 2008) (JCR-2006, **IF=2.91**)
13. Nithikoon Suksumek, Kawin Leelawat, Surang Leelawat, Bruce M Russell, **Usa Lek-Uthai***. TaqMan real-time PCR assay for specific detection and quantification of *Opisthorchis viverrini* DNA in Thai patients with hepatocellular carcinoma and cholangiocarcinoma *Experimental Parasitology* 2008; 119(2):219-224. (JCR-2006, **IF=1.597**)
14. Bruce Russell, Rossarin Suwanarusk , Marina Chavchich, Ferryanto Chalfien, Enny Kenangalem, Varakorn Kosaisavee, Kim Piera, Alan Brockman, **Usa Lek-Uthai**, Nicholas Anstey, Emiliana Tjitra, François Nosten, Qin Cheng, Ric N Price*. Chloroquine resistant *Plasmodium vivax*: in vitro susceptibility and association with molecular polymorphisms. *PLoS ONE* :2007,issue 10:e1089.
15. Kawin Leelawat*, Nithikoon Suksumek, Surang Leelawat, **Usa Lek-Uthai**. Detection of VacA Gene for *Helicobacter pylori* in Cholangiocarcinoma and Hepatocellular carcinoma specimens of Thai Patients. *Southeast Asian J Trop Med Public Health* 2007,38;5:881-5. (TCI = 1.025)

16. Prapaporn Boonma, Peter Christensen, Rossarin Suwanarusk, Ric Price, Bruce Russell, **Usa Lek-Uthai***. Comparison of three Molecular Methods for the Detection and Speciation of *Plasmodium vivax* and *Plasmodium falciparum*. *Malaria Journal* 2007,vol 6 , 124:1-9. (JCR-2006, **IF=1.5**)
17. Varakorn Kosaisavee, Rossarin Suwanarusk, François Nosten, Dennis Kyle, Marion Barrends, James Jones, Ric Price, Bruce Russell*, **Usa Lek-Uthai***. *Plasmodium vivax*: Isotopic, PicoGreen and Microscopic Assays for measuring the Chloroquine Sensitivity in Fresh and Cryopreserved Isolates. *Experimental Parasitology* 2006;114:34-9.(JCR-2006, **IF=1.5**)
18. Bruce Russell*, Rossarin Suwanarusk, **Usa Lek-Uthai**. *Plasmodium vivax* genetic diversity: microsatellite length matters. *Trends in Parasitol* 2006;22(9):399-401. (JCR-2006, **IF= 5.5**)
19. **Lek-Uthai U***, Tomoen W. Susceptibility of *Mansonia uniformis* to *Brugia malayi* Microfilariae from Infected Domestic Cat. *Southeast Asian J Trop Med Public Health* 2005;36(2):434-41. (TCI = 1.025)
20. **Lek-Uthai U***, Chansiri K, & Yodmek S. The Periodicity of *Brugia malayi* in Domestic Cats, Surat-Thani Province, Thailand. *J Trop Med Parasitol* 2004;27:15-20.
21. Kasinant S, **Lek-Uthai U*** Boonkhan P. The Effect of *Plasmodium falciparum* Parasitemia on Serum Iron Status in Patients Treated with Quinine. *J Trop Med Parasitol* 2003,26(2):83-92.
22. **Lek-Uthai U***, Thunyavanich N, Singhasivanon P, Krongrod S. Duration of HRP-II Antigenaemia Detected by ParaSight-F test in *Plasmodium falciparum* Malaria Patient Treated with Mefloquine. *Regional Health Forum WHO-SEA* 2001;5(2):63-73.
23. **Usa Lek-Uthai***, Honda Kiyoshi, Dusit Sujirarat et al. Spatial Analysis of Malaria Risk to the Determination of Epidemiological Surveillance of Thai-Myanmar and Thai-Cambodia Borders Endemic Regions of Thailand. Joint International Tropical Medicine Meeting 2005. Grand Hotel, Bangkok presentation Dec 1st, 2005.
24. Chularerk U and **Lek-Uthai U***. The efficacy of praziquantel and niclosamide against *Hymenolepis nana* infection . *J Trop Med Parasitol* 1990;13:37-9.

National Journal

25. **Lek-Uthai U***, Bhuddhirakkul P, Nunaen S. Biting Behaviors of *Anopheles* mosquitos. *J Public Health* 2003;33(3):207-214.
26. **Lek-Uthai U***. Situation Analysis of the Vectors-Borne Diseases at Damnoen-saduak Floating Market, Ratchaburi Province. *J Public Health* 2003;33(1):7-17.
26. Triemchaisri S*, Nonthasorn T, **Lek-Uthai U**. Relationship between Religious Belief and Religious Practice and Holistic Well-being and Pre-married and Married Couples. *J Public Health Nursing* 2003;17(1):49-60.
27. Luksamijarulkul P*, **Lek-Uthai U**, Triemchaisri S. Prevalence and Risky Behavior related to Sexually Transmitted and Blood-borne Infections among Pre-married and Married Couples. *J Public Health Nursing* 2003;17(1):36-48.
28. **Lek-Uthai U***, Chairungrojpunya M, Aiengkum P, et al . Vectors and Health Behavior Survey at Damnoen-Sauak Floating market, Ratchaburi Province. *J Public Health* 2003;33(1):7-17.
29. **Lek-Uthai U***, Rojanapremsuk J, Vorapongsathorn T, et. al. The Efficacy of Permethrin and Lambda-cyhalothrin Impregnated Bednets against *Anopheles dirus* A using a modified WHO Test Kit. *J Epidemiol* 2002;9(3):119-126.
30. **Lek-Uthai U***, Paetsuntear S. Effectiveness of *Poecilia reticulata* in *Anopheles dirus* A Larval Reduction. *J Public Health* Jan-Apr 2001;31(1):42-8.
31. Cowell L, Meshnick S., **Lek-Uthai U**. et al. The Effect of Gestational Malaria (*Plasmodium falciparum*) on Fetal Growth and Iron Distribution. Reported at the University of Michigan Ann Arbor, School of Public Health, U.S.A. May 2, 2001.

32. Triamchaisri S, Lek-Uthai U. et al. Health Risk Assessment and Health Care Needs of International Travelers in Thailand: A situation analysis. *J Public Health* October 2001; 31 (Sppl):129-45.
33. Lek-Uthai U*, Rojanapremsuk J., Ratanaritkul R., Phan-Urai P., & Kitidecha N. Effectiveness and Persistence of *Bacillus Thuringiensis var. israelensis* Against *Aedes aegypti* (Linnaeus) Larvae in Plastic, Cement and Clay Containers. *Thai J Epidemiol* 1999;7(1):1-9.
34. Lek-Uthai U*, Vontangsawad S, Pandii W, Pantana S, Yuongthong K. The Diethylcarbamazine Citrate Provocative Test on Nocturnally periodic *Wuchereria bancrofti* at Day Time in Myanmar Labors, Rayong Province. *Bull Dept Med Services* 1999;24(4):171-80.
35. Lek-Uthai U*, Rojanapremsuk J, Thiengtrongdee A, Rongsriyam Y, Looareesuvan S, & Krudsood S. The Effectiveness of A Single Dose of Primaquine 45 mg. On the Inhibition of *Plasmodium falciparum* Development in *Anopheles dirus* A. *J Public Health* 1999;48-60.
36. Lek-Uthai U*, Toenim P. *Gambusia affinis* Effectiveness in *Anopheles dirus* A Larval Reduction. *J Public Health* 1999;29(3):66-73.
37. Vontangsawad S, Lek-Uthai U, Rojanavipat P, et al. The efficacy of metronidazole and nimorazole 2 grams given orally in a single dose for Trichomoniasis at Bangrak Hospital, Bangkok. *Thai J Epidemiol* 1996;4(2):86-93.
38. Lek-Uthai U*. Distinguishing *Giardia lamblia* Infected Cases from Non-infected Cases in Children at Phyathai Babies' Home, Bangkok. *J Public Health* 1995;25(3):16-25.
39. Lek-Uthai U*. Epidemiology and Health Behavior of Children with *Giardia lamblia* infection at Phyathai Babies' Home, Bangkok. The 11th National Seminar on Epidemiology Proceeding, 1993:183-6.
40. Chularerk U and Lek-Uthai U*. Intestinal Parasitic Infections in Children at Babies' Home in Bangkok and Nonthaburi. *J Public Health* 1990;3:15-20.

Poster Presentations

1. **Poster No3** : Kanlaya Sriprawat, Supaporn Kaewpongsri, Rossarin Suwanarusk, Mara L. Leimanis, Usa Lek-Uthai, Aung Pyae Phy, Georges Snounou, Bruce Russel*, Laurent Renia, François Nosten. Effective and cheap removal of leukocytes and platelets from Plasmodium vivax infected blood. **Joint International Tropical Medicine Meeting (JITMM 2009)-3-4 December 2009 at Centara Grand Bangkok Convention Center at Central World.**
2. **Poster No16**: Supaporn Kewpongsri, Kanlaya Sriprawat, Rossarin Suwanarusk, Mara Leimanis, Usa Lek-Uthai, Aung Pyae Phy, Bruce Russell, Geoages Snounou, Francois Nosten, Laurent Renia. Leukocytes Reduce Antimalarial Sensitivity *Ex vivo*. **Joint International Tropical Medicine Meeting (JITMM 2009)-3-4 December 2009 at Centara Grand Bangkok Convention Center at Central World.**

Publications: (in progress)

1. Varakorn Kosaisavee, Usa Lek-Uthai*, Bruce Russell, Laurent Renia, Georges Snounou. Sequence variation in *Plasmodium vivax* Reticulocyte Binding Protein gene (PvRBP) from different Thai isolates. *Parasitol Intern* (in process).
2. Varakorn Kosaisavee, Usa Lek-Uthai*, Ian Hastings, Alister Craig. The geographical distributions of allele polymorphisms of *P. vivax* in different regions of Thailand. *Malaria Journal* (in process)
3. Usa Lek-Uthai*, Potchara Rattanapreechachai, Laojana Chowanadisai. Bioassay and Effective Concentration of Temephos against *Aedes aegypti* Larvae and the Adverse Effect to Indigenous Predators: *Toxorhynchites splendens* and *Micronecta* Sp. *EnvironmentAsia*. (in process).

4. Samrerng Prumongkol, C. Panasoponkul, C. Apiwathnasorn, **Usa Lek-Uthai***. Biology of *Culex sitiens*: a dominant vector in filariasis endemic areas with the post-tsunami period. *Environment Asia*. (in process).
 5. **Usa Lek-Uthai***, Nithikul Suksumek, Kawin Leelawat. Detection of HBV by sandwich ELISA assay and Anti-HCV by micro particle enzyme immunoassay (MEIA): isolates from HCC and CCA patients. (in process).
 6. **Usa Lek-Uthai***, Prapaporn Boonma. Limiting DNA Dilution for Nested, Multiplex and real-time PCR in Malaria isolates, (in process)
- * **corresponding author**

Other Projects Funding and Collaboration

1. Commission of Higher Education 2006 Genotypic allelic polymorphisms and expression of *Plasmodium vivax* in areas of Thailand with different malaria endemicity. (CHE-SW-PhD-2549)
2. Evolution of variant genes (*vir*), the putative *Plasmodium vivax* antigens involved in antigenic variation and immune evasion in areas of Thailand Royal Golden Jubilee RGJ-PhD funding; Thailand Research Funding (TRF)-2006 (RGJ-PhD-9)
3. Thailand Research Fund (TRF) through the Royal Golden Jubilee RGJ-PhD funding; Thailand Research Funding (TRF)-2007(RGJ-PhD-10)
4. Thailand Research Fund (TRF) through the Royal Golden Jubilee RGJ-PhD funding; Thailand Research Funding (TRF)-2008(RGJ-PhD-11)
5. Thailand Research Fund (TRF) through the Royal Golden Jubilee RGJ-PhD funding; Thailand Research Funding (TRF)-2009(RGJ-PhD-12)
6. Biomechanical and Deformability of *P. vivax*-infected blood cells, Department of Bio-Engineering, National University of Singapore, and Malaria Immunology Unit, Singapore Immunology Network (SIgN)-collaborative 2006-2010. (Ethic MoPH:ref no 59/2549)
7. Susceptibility of *Aedes aegypti* deltamethrin resistant strains to artificial membrane feeding with Dengue-2 virus (Master's) Fac. of Graduate Studies, Mahidol University (year 2008 funding).
8. Detection for estimating copy numbers of *mdr1(3D7)* gene in *Plasmodium falciparum* by real-time PCR and loop-mediated isothermal amplification Methods (Master's), Partial support granted, Fac. of graduate Studies, Mahidol University
9. Advanced *in vitro*, Genomic and transcription reference to Malaria Drug resistance and genetic diversities of *Plasmodium* spp (Ethic ref No 134/2550)—collaborations
10. Genetic diversity of the Duffy Binding Protein Region II gene of *Plasmodium vivax* from Thai isolates with malaria endemicity (China Medical Board funding 2010)
11. Nucleotide diversity of apical membrane antigen-1 (*ama-1*) in patients infected *P. falciparum*, *P. vivax* and *P. falciparum* / *P. vivax* mixed infections from malaria endemic area of Thailand (Master's 2010)
12. Time to *Plasmodium falciparum* recrudescence after antimalarial treatment with monotherapy or artemisinin combination therapy, in pregnancy 1995-2010 (Master's 2010).

Last update: Sept, 2010