

CURRICULUM VITAE



Lect. Dr. Varakorn Kosaisavee

Personal Data:

Sex : Female

Marital Status : Single

Nationality : Thai

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Education:

- 2006 – 2011 : Doctor of Public Health (Parasitology) (International Program)
Mahidol University, Thailand GPA 3.79
- 2003 – 2004 : Master of Science (Public Health) Major in Infectious Diseases and Epidemiology
Mahidol University, Thailand GPA 3.87
- 1999 – 2003 : Bachelor of Science (Biology)
Srinakarinwirot University, Thailand GPA 3.10

Experience:

June to October 2004

- Master Thesis works at Shoklo Malaria Research Unit (SMRU), Mae Sod District, Tak Province, Thailand on cultivation and *in vitro* drug assay of *Plasmodium vivax* (Major Advisor: Assoc. Prof. Dr. Usa Lek-Uthai)

November 2004 to June 2005

- Research assistant: Assoc. Prof. Dr. Usa Lek-Uthai (PI) on Malaria and Spatial Analysis using GIS project; collecting samples including entomological and environmental data surveys.

July to September 2005 and February to March 2006

- Research assistant at Menzies School of Health Research, Darwin, Australia (3 months) and Army Malaria Institute (AMI), Brisbane, Australia (1 month) on molecular technique; PCR, Microsatellite marker, Genotyping, drug assay and Cultivation of *Plasmodium vivax*

November 4, 2005

- Oral presentation for Master's thesis under Assoc. Prof. Dr. Usa Lek-Uthai supervision at the Academic and Research Conference 8th (2005) entitled "Bionanotechnology: Application in parasitic infections" organized by the Department of Parasitology, Faculty of Public Health, Mahidol university, Thailand

September 5-7, 2008

- Poster presentation on topic "Genotypic Allelic Polymorphisms and Expression of *P. vivax* genes in areas of Thailand with different malaria endemicity" in "Commission on Higher Education Congress I: University Staff Development Consortium" (CHE-USDC Congress I) organized by The Commission on Higher Education, Ministry of Education, Thailand at Ambassador Jomtien hotel, Pattaya, Chonburi.

October to December 2008

- Student attached at Liverpool School of Tropical Medicine, United Kingdom with learning and practicing of "Bioinformatics and population genetic analysis" and "Transformation, Transfection and expression of protein including protein techniques; 1D SDS, western blot, 2D gel electrophoresis, FPLC, MALDI, LC/MS Mass spectrometry, Trizol RNA extraction"

January to August 2009

- Student attached at Singapore Immunology Network, A*STAR, Singapore.
- Cloning, Transformation, Comparative genome hybridization (CGH) on *P. vivax* genes, Realtime PCR.

Conferences attendance:

- First Annual Symposium of Protein Society of Thailand "Challenges in Protein Research in Thailand" October 24-25, 2006, Chulabhorn Research Institute Conference Center, Bangkok, Thailand.
- The 8th International Meeting "Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases" (MEEGID VIII) 30th November - 2nd December, 2006. The Royal River Hotel, Bangkok, Thailand.
- 38th APACPH CONFERENCE 2006: Partnership for human Security and Health.. December 3 - 6, 2006, Bangkok, THAILAND.
- Second Annual Symposium of Protein Society of Thailand "Odysseys in Protein Research" September 20-21, 2007, Chulabhorn Research Institute Conference Center, Bangkok, Thailand.
- Third Annual Symposium Protein Society of Thailand "Frontier in Protein Research" August 28-29, 2008, Chulabhorn Research Institute Conference Center, Bangkok, Thailand.

- Joint International Tropical Medicine Meeting (JITMM2009) “Tropical Health in a Time of Economic Crisis” December 3-4 2009, Centara Grand & Bangkok Convention Centre, Bangkok, Thailand.

Awarded and scholarships:

- 2004 Partial supported grant for Master's thesis research from Walter Reed Institute of Army Research, U.S.A. through Dr. Bruce Russell under Assoc.Prof. Dr. Usa Lek-Uthai collaboration
- 2006 Master Thesis Publication Award in impact factor journal with peer review from the Faculty of Graduate Studies, Mahidol University, Thailand
- 2006 to 2009 Ph.D. sandwich program from Strategic Scholarships Fellowships Frontier Research Network, the Commission on Higher Education, Ministry of Education, Thailand.

Field of interest

- Malaria and vector borne diseases
- Molecular, Genetic population, Proteomic and Molecular epidemiology
- Drug assay for malaria research

Publications:

1. **Kosaisavee V**, Suwanarusk R, Nosten F, Kyle DE, Barrends M, Jones J, Price R, Russell B, Lek-Uthai U. *Plasmodium vivax*: isotopic, PicoGreen, and microscopic assays for measuring chloroquine sensitivity in fresh and cryopreserved isolates. *Exp Parasitol*. 2006 Sep;114(1):34-9. Epub 2006 Mar 20. **(Cited 14 times)**
2. Suwanarusk R, Russell B, Chavchich M, Chalfein F, Kenangalem E, **Kosaisavee V**, Prasetyorini B, Piera KA, Barends M, Brockman A, Lek-Uthai U, Anstey NM, Tjitra E, Nosten F, Cheng Q, Price RN. Chloroquine resistant *Plasmodium vivax*: in vitro characterisation and association with molecular polymorphisms. *PLoS ONE*. 2007 Oct 31;2(10):e1089. **(Cited 34 times)**
3. Sharrock WW, Suwanarusk R, Lek-Uthai U, Edstein MD, **Kosaisavee V**, Travers T, Jaidee A, Sriprawat K, Price RN, Nosten F, Russell B. *Plasmodium vivax* trophozoites insensitive to chloroquine. *Malar J*. 2008 May 27;7(1):94. **(Cited 10 times)**

Publication (in progress)

1. **Varakorn Kosaisavee**, Usa Lek-Uthai, Ian Hastings, Alister Craig. The genetic polymorphism of *P. vivax* genes in endemic regions of Thailand. *Asian Pacific Journal of Tropical Medicine* (in progress)
2. **Varakorn Kosaisavee**, Usa Lek-Uthai, Rossarin Suwanarusk, Bruce Russell, Henry Yang, Brandon Ang, Zbynek Bozdech, Laurent Renia. Comparative Genomic Hybridization Microarray Analysis for the Detection of Genetic Diversity in *Plasmodium vivax*. *PLoS ONE*. (in progress)
3. **Varakorn Kosaisavee**, Usa Lek-Uthai, Rossarin Suwanarusk, Anne Charlotte Gruner, Bruce Russell, Francois Nosten, Laurent Renia, Georges Snounou. Genetic diversity in new members of the reticulocyte binding protein family in Thai *Plasmodium vivax* isolates. *PLoS ONE* (in progress)