

Specialist Profile

1. Contact information

Name : **ADISAK BHUMIRATANA**

Designation : **ASST. PROF.**

Institute / Department : Parasitology and Entomology, Faculty of Public Health, Mahidol University

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2. Qualifications (only graduate/ post-graduate degrees/diplomas/certificates)

Qualification	Year Acquired	Major Subject	University/Board
B.Sc.	1991	Biology	Srinakharinwirot University, Bangkok, Thailand
M.Sc. (Physiology)	1997	Genetic Manipulation	Osaka University, Osaka, Japan
	1997	Cert. in Senior Administrators and Leaders of Parasite Control Project	Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand
	1997	Cert. in Clinical & Laboratory Diagnostic Parasitology: A Practical Approach for Better Health Services	Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand
	2001	Cert. in Operations Research	Institute for Medical Sciences, Chulalongkorn University, Bangkok, Thailand
	2003	Cert. in Environmental Epidemiology	College of Public Health, Chulalongkorn University, Bangkok, Thailand
	2005	Cert. in Competencies of Thai Experts in Support of Technical Cooperation among Developing Countries	WHO Collaborative Centre for PHC Development, ASEAN Institute for Health Development, Mahidol University, Nakhonprathom, Thailand
	2008	Cert. in Biosafety	Asia-Pacific Biosafety Association

3. Specialization

3.1 Main subject area

- Disease Control
- Infectious Diseases and Epidemiology

3.2 Special interests

- Environmental Pathogen Molecular Biology and Epidemiology
- Public Health Genetics/Genomics

4. List of Publications

1. Pechgit P, Intarapuk A, Pinyoowong D, **Bhumiratana A**. Touchdown-touchup nested PCR for low-copy gene detection of *Wuchereria bancrofti* with its *Wolbachia* endosymbiont imported by migrant carriers. *Exp Parasitol* 2010 (in press).
2. Chaikunrat J, **Bhumiratana A**. Public health emergency response to tsunami 2004: III. Emergency response operations with incorporated leadership structure in complex humanitarian emergency. *Public Health* 2010 (in press).
3. **Bhumiratana A**, Pechgit P, Koyadun S, Siriaut C, Yongyuth P. Imported bancroftian filariasis: diethylcarbamazine response and benzimidazole susceptibility of *Wuchereria bancrofti* in dynamic cross-border migrant population targeted by the National Program to Eliminate Lymphatic Filariasis in South Thailand. *Acta Tropica* 2010;113(2):121-128.
4. Intarapuk A, Kalambaheti T, Thammapalerd N, Mahannop P, Kaewsatien P, **Bhumiratana A**, Nityasuddhi D. Identification of *Entamoeba histolytica* and *Entamoeba dispar* by PCR assay of fecal specimens obtained from Thai/Myanmar border region. *Southeast Asian J Trop Med Public Health* 2009;40:425-434.
5. Sangkamanee C, Suvanndabba S, **Bhumiratana A**. Public health emergency response to tsunami 2004: I. Effective resource management of incident command system for the triad interplay. *J Health Sci* 2008;17(Suppl 2): S305-322.
6. Koyadun S, Wiboolchak P, **Bhumiratana A**. Innovative intervention for disease prevention and control: social marketing strategies for mass drug administration campaign in the National Programme to Eliminate Lymphatic Filariasis in Nakhon Si Thammarat province. *J Health Sci* 2007;16:409-421.
7. Saiwichai T, Harnyuttanakorn P, Sukhumavasi W, Buddhirakkul P, **Bhumiratana A**, Rojanapremsuk J, Nithiuthai S. Diagnosis of *Plasmodium gallinaceum* in infected mosquitoes by multiplex PCR. *J Trop Med Parasitol* 2007;30:76-80.
8. Nintasen R, Utrarachakij, Siripanichgon K, **Bhumiratana A**, Suzuki Y, Suthienkul O. Enhancement of *Legionella pneumophila* culture isolation from microenvironments by a macrophage infectivity potentiator (mip) gene-specific nested polymerase chain reaction. *J Microbiol Immunol* 2007;51:777-785.
9. Yongyuth P, Koyadun S, Chaturabundit N, Jariyahuttakij W, **Bhumiratana A**. Adverse reactions of 300 mg diethylcarbamazine, and in a combination of 400 mg albendazole, for a mass annual single dose treatment, in migrant workers in Phang Nga Province. *J Med Assoc Thai* 2007;90:552-563.
10. Jaturabundit N, Koyadun S, Yongyuth P, **Bhumiratana A**. Adverse general health outcomes in Myanmar migrant workers in parawood production cluster of Phangnga Province. *J Health Sci* 2006;15:594-605.
11. Yongyuth P, Koyadun S, Jaturabundit N, Sampuch A, **Bhumiratana A**. Efficacy of a single-dose treatment with 300 mg diethylcarbamazine and a combination of 400 mg albendazole in reduction of *Wuchereria bancrofti* antigenemia and concomitant geohelminths in Myanmar migrants in southern Thailand. *J Med Assoc Thai* 2006;89:1237-1248.
12. Koyadun S, **Bhumiratana A**. Surveillance of imported bancroftian filariasis after two-year multiple-dose diethylcarbamazine treatment. *Southeast Asian J Trop Med Public Health* 2005;36:822-831.
13. Siriaut C, **Bhumiratana A**, Koyadun S, Anurat K, Satitvipawee P. Short-term effects of treatment with 300 mg oral-dose diethylcarbamazine on nocturnally periodic *Wuchereria bancrofti* microfilaremia and antigenemia. *Southeast Asian J Trop Med Public Health* 2005;36:832-840.
14. **Bhumiratana A**, Koyadun S, Satitvipawee P, Srisuphanunt M, Limpairojn N, Gaewchaiyoo G. Border and imported bancroftian filariases: baseline seroprevalence in sentinel populations exposed to infections with *Wuchereria bancrofti* and concomitant HIV at the start of diethylcarbamazine mass treatment in Thailand. *Southeast Asian J Trop Med Public Health* 2005;36:390-407.

15. **Bhumiratana A**, Siriaut C, Koyadun S, Satitvipawee P. Evaluation of a single oral dose of diethylcarbamazine 300 mg as provocative test and simultaneous treatment in cross-border Myanmar migrant workers with *Wuchereria bancrofti* infection in Thailand. Southeast Asian J Trop Med Public Health 2004;35:591-598.
16. Koyadun S, **Bhumiratana A**, Prikchu P. *Wuchereria bancrofti* antigenemia clearance among Myanmar migrants after biannual mass treatments with diethylcarbamazine, 300 mg FILADEC tablet, in Southern Thailand. Southeast Asian J Trop Med Public Health 2003;34:758-767.
17. **Bhumiratana A**, Wattanakull, Koyadun S, Suvannadabba S, Rojanapremsuk J, Tantiwattanasup W. Relationship between male hydrocele and infection prevalences in clustered communities with uncertain transmission of *Wuchereria bancrofti* on the Thailand-Myanmar border. Southeast Asian J Trop Med Public Health 2002;33:7-17.
18. Koyadun S, **Bhumiratana A**. *Wuchereria bancrofti* infection, environmental and disease prevention behavior factors of Burmese living in Phang-Nga Province. Commun Dis J 2000;26:219-225.
19. **Bhumiratana A**. ICT Filariasis card test as direct assessment tool for evaluation of antigenaemia rate in communities endemic for *Wuchereria bancrofti* in Thailand. Mahidol J 2000;7(suppl):17-23.
20. **Bhumiratana A**, Koyadun S, Suvannadabba S, Rojanapremsuk J. Diagnosis of *Wuchereria bancrofti* infection in endemic populations: diagnostic approaches to control and elimination. Mahidol J 2000;7:101-107.
21. **Bhumiratana A**, Koyadun S, Suvannadabba S, Kanjanopas K, Rojanapremsuk J, Buddhirakkul P, Tantiwattanasup W. Field trial of the ICT Filariasis for diagnosis of *Wuchereria bancrofti* infections in an endemic population of Thailand. Southeast Asian J Trop Med Public Health 1999;30:562-568.
22. Suriyamonthon N, **Bhumiratana A**, Krungkrai SR, Krungkrai J. Molecular and kinetic properties of mitochondrial dihydroorotate dehydrogenase purified from *Plasmodium falciparum*. Chulalongkorn Med J 1994;38:325-335.
23. Krungkrai J, Krungkrai SR, **Bhumiratana A**. *Plasmodium berghei*: partial purification and characterization of the mitochondrial cytochrome c oxidase. Exp Parasitol 1993;77:137-146.

5. Advisory/Consultancy work performed. Please mention, areas with duration.

a) WHO	
b) Other UN Bodies	
c) Other International Organizations	
d) National Organizations	National Task Force for the National Program to Eliminate Lymphatic Filariasis in collaboration with the World Health Organization, 2002-Present Department of Disease Control, Ministry of Public Health, Thailand

6. Any honor, award received

1993-1995	Research scholar MONBUSHO Fellowship for Research Program Department of Molecular Protozoology, Research Institute for Microbial Diseases. Osaka University, Osaka, Japan
1995-1997	Graduate student scholar MONBUSHO Scholarship for MSc-PhD Program Faculty of Science and Department of Molecular Protozoology, Research Institute for Microbial Diseases. Osaka University, Osaka, Japan
2004	PhD student scholar The Royal Thai Government Scholarship Program

- Maryland University, Maryland, USA
- 2005 Junior Professional/Academic Travel Grant Awardee
37th Asia-Pacific Academic Consortium for Public Health Conference,
Taipei, Taiwan
- 2009 Travel Grant Awardee
3rd Ditan International Conference on Infectious Diseases, Beijing, China

8. Any other information, including citations, if any

- 2004-Present Member of Institutional Research Board
Faculty of Public Health, Mahidol University, Bangkok, Thailand
- 2004-2006 Secretariat of Collaborative Research Network Board of Public Health
Faculty of Public Health, Mahidol University, Bangkok, Thailand
- 2004-Present Assistant Professor of Infectious Diseases and Epidemiology
Department of Parasitology and Entomology, Faculty of Public Health,
Mahidol University, Bangkok, Thailand
- 2004 Visiting Scientist
Commission of Higher Education Research Fellowship Program for
Strengthening National Capacity Building
Laboratory of Environmental Pathogens, Center of Marine Biotechnology,
University of Maryland Biotechnology Institute, Maryland, USA
- 2004 Visiting Scientist
Commission of Higher Education Research Fellowship Program for
Strengthening National Capacity Building
FDA's Gulf Coast Seafood Laboratory, Dauphin Island, Alabama; FDA's
Southeast Regional Office, Atlanta, Georgia, USA