



Faculty of Tropical Medicine
Mahidol University



TropMed Researcher Profile 2019

TropMed Researcher Profile 2019

TropMed Researcher Profile 2019 features Thailand's leading researchers in tropical medicine at the Faculty of Tropical Medicine, Mahidol University.

The Faculty is fortunately endowed with nationally, regionally and world-renowned experts in tropical infectious diseases, non-communicable diseases, neglected diseases, emerging and re-emerging diseases, zoonoses (diseases spread between animals and humans), and travel medicine.

TropMed Researcher Profile 2019 provides the contact details, education and qualifications, professional career highlights, and research expertise and activities of researchers at the Faculty of Tropical Medicine, Mahidol University, Thailand.

The directory is intended to foster and enable collaborative research and community involvement, by facilitating access to TropMed researchers and the research they conduct at the Faculty of Tropical Medicine.

We trust that you will find TropMed Researcher Profile 2019 very useful.

PRODUCED BY:

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Dr. Kesinee Chotivanich is a Professor in the Department of Clinical Tropical Medicine. She received her M.Sc. and Ph.D. in Pathobiology from Mahidol University, Thailand. She has a broad background in pathobiology with particular expertise in cell and tissue culture and the pharmacodynamics of antimalarial drugs.

Research expertise

Dr. Kesinee is an authority in malaria research. She has published over 100 publications, many of which are leading research achievements in the field of malaria studies, such as detection of artemisinin resistance in *P. falciparum*, and transmission-blocking activities of antimalarial drugs. The method of identification of artemisinin resistance *P. falciparum* was firstly developed in her lab.

Research areas

- ▼ Pharmacodynamics of antimalarial drugs
- ▼ Detection of artemisinin resistance
- ▼ Pathophysiology of malaria

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Dr. Mallika Imwong is a Professor in the Department of Molecular Tropical Medicine and Genetics. She has an M.Sc. in Environmental Biology and Ph.D. in Tropical Medicine from Mahidol University. Prof. Mallika is an established malariologist, with numerous awards recognizing her achievements in malaria research. She won national awards for inventing Ultra-sensitive qPCR, a molecular diagnostic technique that can reveal asymptomatic potentially infected malaria patients.

Research expertise

Dr. Mallika has conducted academic research since 2001 in the molecular biology field of malaria drug resistance to further our fundamental understanding of epidemic malarial and related drug-resistance mechanisms, and as a contribution to the global objective to eliminate malaria. Dr. Mallika has 159 [Scopus] articles on malaria, with an h-index of 46 and total of 9,074 citations (as of July 19, 2019). The highlights of her work in the molecular biology field of epidemiology are briefly summarized below:

1. Developing high volume-sensitive qPCR test for a population of infected but asymptomatic patients that would have been detected by previous means. The high volume-sensitive qPCR test, which has 2,000 times greater sensitivity than the traditional methods of microscopic detection or normal PCR to detect low-level infections (22 parasites/ml), which leads to the complete elimination of malaria in the target areas. For this work, she was awarded an Outstanding Technologist Award from the Foundation for the Promotion of Science and Technology under Patronage of H.M. the King of Thailand, in 2016.

2. Conducting research on artemisinin resistance in *Plasmodium falciparum* infection. In responding to the inquiry “What are the prevalence and distribution of genetic markers of resistance to artemisinin and partner drugs?” the team led by Dr. Mallika found that *P. falciparum* infection has spread to the Thai-Myanmar border but has not yet reached India. This research was published in *Lancet Infectious Diseases* in 2015 with an impact factor of 22.443, as well as the Thailand Frontier Researcher Award and Thailand Hot Researcher Award from Thompson Reuters, in 2016.

3. Conducting research on artemisinin resistance in malaria contagion. The research led to the first finding in the epidemiology field of molecular biology that artemisinin resistance in malaria contagion had its origin in an area of Western Cambodia before spreading throughout Southeast Thailand and the Southern Laos. Coupled with piperazine resistance, the contagion posed a significant threat to malaria containment and elimination in the Mekong Delta. The finding has been proven key to several national policies on malaria containment and elimination. The research was published in *Lancet Infectious Diseases* in 2017 and scored an impact factor of 22.443, as well as earning the 2016 Mahidol Research Award from Mahidol University, in 2016.

4. Leading the research team in the field of biology on the causes of relapses in *Plasmodium vivax* infection. With the thesis question of “Where does relapse come from? Is it from single mosquito or multiple inoculations at different time periods?”, the team’s findings leads to the discovery that the strain of vivax causing relapses are 65% different from the strain found in the first infection. The research also won the L’Oreal Thailand Fellowship for Woman in Science Award from L’Oreal Thailand and the Thai National Commission for UNESCO, in 2010.

Research areas

- ▼ Epidemiology
- ▼ Molecular biology
- ▼ Drug resistance
- ▼ Human genetic factors affecting malaria and treatment responses such as G6PD deficiency and cytochrome P450

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Dr. Parnpen Viriyavejakul is a Professor in the Department of Tropical Pathology. She obtained her B.Sc. in Biology Major in Genetics from the University of the Philippines and pursued her Doctor of Medicine degree at the University of the East Ramon Magsaysay Memorial Medical Center, Philippines. She holds a Diploma in Tropical Medicine and Hygiene, a Master of Clinical Tropical Medicine degree from Mahidol University, Thailand, and is a Diplomate of the Thai Board of Anatomical Pathology. She was awarded a Ph.D. by Liverpool School of Tropical Medicine, University of Liverpool, United Kingdom for a thesis on malaria-infected red cell-endothelial post-adhesive signaling.

Research expertise

Dr. Parnpen is an established pathologist with expertise in tropical diseases, especially in the pathology and pathogenesis of *Plasmodium falciparum* malaria. Her research focuses on developing new ideas and concepts which help explain and understand the pathogenesis of severe *P. falciparum* malaria. Over the years, she has published a number of important papers and led several research projects which unraveled the sophisticated mechanisms of malaria parasite survival in human, human immune response against malaria, and the damage inflicted by the disease. The findings have served as a guideline for the development of potential adjuvant drugs and the management of acute complications of severe *P. falciparum* malaria.

Research areas

- ▼ Malaria
- ▼ Tropical diseases

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Dr. Polrat Wilairatana is a Professor in the Department of Clinical Tropical Medicine. He graduated from Mahidol University with a Doctor of Medicine degree, obtained his M.Sc. in Internal Medicine from Chulalongkorn University, and Ph.D. in Tropical Medicine from Mahidol University. He holds a number of diplomas including Thai Board of Internal Medicine-subspecialty Gastroenterology and Thai Board of Internal Medicine-subspecialty Infectious Diseases from the Thai Medical Council, to name just a few. Dr. Polrat is a Fellow of the Royal College of Physicians (FRCP), Thailand, Fellow of the Australasian College of Tropical Medicine (FACTM), Australia, and Fellow of the American College of Gastroenterology (FACG), USA.

Dr. Polrat leads the Hospital for Tropical Diseases and is involved in teaching and research.

Research expertise

Dr. Polrat is a medical doctor with expertise in malaria, gastroenterology, and internal medicine. He is an authority in research aiming to improve case management of malaria including antimalarial drug trials, clinical pharmacology of adjuvant drugs, nursing and intensive care, epidemiology of drug resistance, and related research in case management of uncomplicated and complicated/severe malaria. He is also largely involved in research related to anti-malarial drug resistance and clinical management.

Research areas

- ▼ Malaria
- ▼ Liver in systemic infection

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Dr. Punnee Pitisuttithum is a Professor in the Department of Clinical Tropical Medicine. She received her M.B.B.S. degree from Lady Hardinges Medical College, New Delhi, India. She has a Diploma in Tropical Medicine and Hygiene and a Doctor of Clinical Medicine degree, both from Mahidol University. She also holds a Diploma in the Thai Board of Internal Medicine from Thai Medical Council. She has extensive experience in designing and implementing clinical and vaccine trials and has been widely recognized with numerous awards in Thailand and internationally for this work.

Research expertise

Dr. Punnee is an internationally recognized expert on tropical infectious diseases, especially on vaccine trials and clinical studies with an *h*-index of 41. She has completed over 40 clinical trials and has 170 publications in international peer-reviewed journals. Her works have been cited more than 5,000 times according to the Scopus database. She has designed and conducted numerous clinical studies (phase I, II, III vaccine trials) of tropical diseases and vaccine against HIV/AIDS, HPV, cholera, and other infectious diseases. She was the lead clinical investigator in the largest community trial of HIV vaccines (prime-boost regimen) involving 16,000 participants (RV144) which was the first time the vaccine showed efficacy in humans. She played a key role in testing the world's first commercial dengue vaccine.

Research areas

- ▼ Vaccine trials (Phase I, II, III) of HIV/AIDS vaccine, dengue vaccine, influenza vaccine, HPV vaccine, cholera vaccine, *Shigella* vaccine, etc.
- ▼ Clinical studies (Phase I, II, III Drug trials) of tropical diseases
- ▼ Tropical medicine

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Research expertise

Dr. Rungsunn's research expertise include nutrigenomics, biochemistry, and molecular biology, with special focus on non-communicable diseases such as diabetes, metabolic syndrome, obesity, and osteoporosis. He is an experienced reviewer for national and international peer-reviewed journals including *Obesity Research*, *European Journal of Clinical Nutrition*, and *Journal of Viral Hepatitis*, to name a few.

Research areas

- ▼ Non-communicable diseases
- ▼ Diabetes metabolic syndrome
- ▼ Obesity
- ▼ Osteoporosis

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Dr. Sasithon Pukrittayakamee is a Professor in the Department of Clinical Medicine. Her work is largely focused on anti-malarial drug discovery with an emphasis on the particular challenges involved with the malaria parasite *Plasmodium vivax*. Dr. Sasithon is an established research leader in Southeast Asia.

Research expertise

Dr. Sasithon is a global authority on tropical infectious diseases, especially in clinical trials, malaria vaccines, malaria infection, anti-malarial drugs, and malaria-transmission blocking. She has over 190 peer-reviewed publications and expertise in such subjects as the treatment of severe malaria, the conducting of open and randomized trials, the effects of different antimalarial drugs, genotyping, and in exploring the contribution of candidate genes to artemisinin resistance. She is also very interested in education, training and mentoring new malaria researchers in Thailand.

Research areas

- ▼ Malaria
- ▼ Tropical diseases

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Dr. Srivicha Krudsood is a Professor in the Department of Tropical Hygiene. She obtained her Doctor of Medicine degree from Far Eastern University, Philippines, and M.Sc. and Ph.D. in Clinical Tropical Medicine from Mahidol University, Thailand. She holds diplomas in Tropical Medicine and Hygiene from the Thai Board in Internal Medicine at Mahidol University and from Thai Medical Council, respectively. Dr. Srivicha is an authority on national policies and strategies for treatment and elimination of malaria in Thailand.

Research expertise

Dr. Srivicha is an established malariologist, specializing in malaria treatment studies. She has extensive experience in conducting anti-malarial clinical drug trials. She is currently involved with the pharmaceutical development of the FDA-approved drug tafenoquine, a 3-day-dose radical cure for vivax malaria. Dr. Srivicha is a renowned expert in the clinical management of malaria, providing consultancy services that inform and influence Thai national malaria policy.

Research area

- ▼ Malaria

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Dr. Yaowalark Sukthana is a Professor in the Department of Protozoology. She was awarded her Doctor of Veterinary Medicine degree by Kasetsart University before pursuing her Doctor of Medicine degree at Phramongkutklao Medical College, Thailand. She obtained her Diploma in Tropical Medicine and Hygiene and Master of Clinical Tropical Medicine from Mahidol University. She holds an Oto-Rhino-Laryngology Diploma from the Medical Council of Thailand. She teaches and supervises graduate and postgraduate students at the Bangkok School of Tropical Medicine. Dr. Yaowalark is an authority on toxoplasmosis research in Thailand.

Research expertise

Dr. Yaowalark is a research leader on toxoplasmosis, zoonotic infection, and protozoan infection. Her research has focused on completing many of the gaps in the understanding of Toxoplasma infection in Thailand. Her numerous studies have determined that the magnitude of Toxoplasma infection in the overall Thai population is not large but that certain populations are at greater risk such as those who are immunocompromised, children in rural areas and those living in temples where animals are abandoned. Her work has also looked at improving detection and diagnosis methods for toxoplasmosis and other diseases, including finding an alternative to the Sabin-Feldman dye test that is more appropriate in a low resource setting.

Research areas

- ▼ Toxoplasmosis
- ▼ Intestinal protozoa
- ▼ Zoonoses

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Research expertise

Dr. Aongart's expertise includes the molecular diagnosis and molecular epidemiology of zoonotic protozoal diseases and other infectious diseases. His research focuses on the development of a new molecular diagnostic technique to provide an alternative tool for use in resource-poor settings. He has a particular interest in investigating the molecular epidemiology and zoonotic potential of enteric protozoa in both humans and animals.

Research areas

- ▼ Toxoplasmosis
- ▼ Cryptosporidiosis
- ▼ Microsporidiosis

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Dr. Chamnarn Apiwathnasorn is an Associate Professor in the Department of Medical Entomology. He is a national authority in medical entomology, with primary research emphasis directed towards mosquitos and sand flies. He has a Ph.D. degree from Liverpool School of Tropical Medicine, United Kingdom, and a Masters of Tropical Health from the University of Queensland, Australia.

Research expertise

Dr. Chamnarn has wide ranging experience in the entomological field and in laboratory work, as well as expertise in the taxonomy of mosquitoes, phlebotomine sand flies, and other flies. For several years, he has been monitoring the breeding habitats of *Anopheles dirus sl.*, the main malaria vector within Thailand. He also has been at the forefront of investigations into the leishmaniasis vector, the sandfly.

Research areas

- ▼ Malaria entomology
- ▼ Classical taxonomy
- ▼ Epidemiological and practical entomology

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Dr. Chukiat Sirivichayakul is an Associate Professor in the Department of Tropical Pediatrics. He received his Doctor of Medicine degree from Chulalongkorn University and his Diploma in Tropical Medicine and Hygiene from Mahidol University. He holds a Diploma of Pediatrics from the Thai Medical Council. He works in the Hospital for Tropical Diseases and is involved in research and teaching. He teaches students in the Diploma, M.Sc. and Ph.D. programs of the Bangkok School of Tropical Medicine in topics related to tropical pediatrics.

Research expertise

Dr. Chukiat is a researcher in pediatrics, with specialization in vaccine trials and tropical diseases. His research interests include dengue infection, tropical parasitic diseases, intestinal parasites, and influenza. Dr. Chukiat has led and designed numerous studies on dengue infection, dengue vaccine trials and other diseases particularly among Thai children.

Research areas

- ▼ Dengue
- ▼ Intestinal parasites
- ▼ Influenza

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Dr. Direk Limmathurotsakul is an Associate Professor in the Department of Tropical Hygiene. He holds a Doctor of Medicine degree from Chulalongkorn University, Thailand, an M.Sc. in Medical Statistics from the London School of Hygiene and Tropical Medicine, and a Ph.D. in Life and Biomolecular Sciences from the Open University, United Kingdom. Dr. Direk is an international authority on melioidosis, an often-fatal infectious disease caused by the bacterium *Burkholderia pseudomallei*.

Research expertise

Melioidosis, an often-fatal infectious disease caused by Gram-negative bacteria *Burkholderia pseudomallei*, is one of Dr. Direk's main research areas. He demonstrated for the first time that ingestion and inhalation are important infection routes for melioidosis in northeast Thailand, and developed the first evidence-based guidelines for the prevention of melioidosis for people living in endemic areas. He is also chair of the International Melioidosis Society [IMS] (<http://www.melioidosis.info>). Dr. Direk recently estimated there to be 165,000 human melioidosis cases per year worldwide, of which 89,000 (57%) die (*Nature Microbiology* 2016). Using this work, he has convened and contributed to a number of meetings between researchers and policy makers in multiple countries, including Thailand, Vietnam, Malaysia, Cambodia, Indonesia, India, Sri Lanka, Bangladesh and Brazil. Supported by an attention of public health officials and policy makers, actions are being taken to improve diagnosis, treatment and prevention of melioidosis in many tropical countries.

Antimicrobial resistance is also one of Dr. Direk's main research areas. By integrating routinely collected data from a range of databases, he estimated that around 19,000 excess deaths are caused by multi-drug resistant bacteria in Thailand each year (*Life* 2016). He also shows that under-use of bacterial cultures is a critical issue in low and middle-income countries, and that may lead to an underestimate and underreporting of the incidence of antimicrobial-resistant infections (*AJTMH* 2017). These findings suggest that more studies with a systematic approach and appropriate statistical modeling are need to be done in other low- and middle-income countries (LMICs), especially in countries where microbiological laboratories are readily available and routinely used. Further work is also needed to identify where resources and attentions are most needed to fight against antimicrobial resistance in LMICs, effectively.

Direk advocates the concept of 'antibiotic footprint' as a tool to communicate to the public the magnitude of antibiotic use in humans, animals and industry. Antibiotic footprint could be estimated by combining the total amount of antibiotics consumed by humans and animals in the country (www.antibioticfootprint.net). His team also developed an offline, open-access and easy-to-use application that allows a hospital to perform data analysis on AMR independently (<http://mice.tropmedres.ac/amass.aspx>). To support communication with lay people and solve a problem of jargon surrounding AMR in local languages, Direk also initiated the AMR Dictionary (www.amrdictionary.net).

Dr. Direk is also an expert in Bayesian statistics and statistics for evaluating diagnostic tests. He developed a user-friendly open-access web-based application, <http://mice.tropmedres.ac>, that allows general researchers to apply imperfect gold standard Bayesian latent class models to their own data sets.

Research areas

- ▼ Melioidosis
- ▼ Antimicrobial resistance (AMR)
- ▼ Sepsis
- ▼ Epidemiology
- ▼ Bayesian statistics

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Dr. Dorn Watthanakulpanich is an Associate Professor in the Department of Helminthology. He obtained his B.Sc. in Medical Technology from Chiang Mai University, M.Sc. in Tropical Medicine and M.D. degree from Mahidol University. He was awarded a Ph.D. in Biomolecular Sciences by Liverpool John Moores University, Liverpool, United Kingdom. Dr. Dorn also holds a Board Certification in Community Mental Health from the Thai Medical Council. He works as a medical doctor in the Hospital for Tropical Diseases and is involved in both research and teaching.

Research expertise

Dr. Dorn is an expert in helminthic-infection studies, with emphasis on soil-transmitted helminthiases and school-based parasite control. He has broad experience in parasitology including integrated project management, community mental health, epidemiological surveys, diagnostic methods and the clinical manifestations and treatment of parasitic infections. He is also involved in studies leading to the further development of anti-helminthic drugs. Working as a medical parasitologist, he is focusing on the clinical manifestations of patients attending the Parasite Clinic with larva migrans of many kinds of tissue nematodes, such as *Gnathostoma spinigerum*, *Angiostrongylus cantonensis*, *Toxocara* spp., etc.

Research areas

- ▼ Helminthic infections
- ▼ Clinical manifestations
- ▼ Drug trials

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Dr. Jaranit Kaewkungwal is an Associate Professor in the Department of Tropical Hygiene. He collaborates with many projects, providing the necessary expert data management and statistical support needed. He has M.A. and Ph.D. degrees in Applied Statistics & Program Evaluation, both from the University of Maryland, USA.

Research expertise

Dr. Jaranit is an authority in applied statistics, data management, and informatics. His expertise includes analysis for clinical trials and epidemiological studies, ethical issues in conducting human subject research, and translational research in health informatics. He provides consultative services for study design, methods of data collection and data analysis methodology for students and national and international researchers.

Research areas

- ▼ Malaria
- ▼ Research Methodology
- ▼ Data Management
- ▼ Statistical Modelling
- ▼ Ethics

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Dr. Karunee Kwanbunjan is an Associate Professor in the Department of Tropical Nutrition & Food Science. She obtained her B.S.c in Biology from Kasetsart University and M.Sc. in Tropical Medicine from Mahidol University, Thailand. She completed her Dr. oec. troph. degree in Nutrition and Food Science from Justus-Liebig University, Giessen, Germany. She teaches students in the Diploma, M.Sc. and Ph.D. programs of the Bangkok School of Tropical Medicine in topics related to tropical nutrition and food science.

Research expertise

Dr. Karunee is an expert in tropical nutrition with special interest in epidemiological and biochemical nutrition and food safety. She has established collaborative links with international and Thai research communities.

Research areas

- ▼ Cancer
- ▼ Metabolic syndrome
- ▼ Diabetes mellitus (DM)

Kittiyod Poovorawan, M.D.



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Dr. Kittiyod Poovorawan is an Associate Professor in the Department of Clinical Tropical Medicine. He is a medical doctor, board-certified internal medicine, and a gastroenterologist. He specializes in teaching and clinical research. He teaches students in the Diploma, M.Sc. and Ph.D. programs of the Bangkok School of Tropical Medicine. He works as a gastroenterology consultant physician and Deputy Director at the Hospital for Tropical Diseases.

Research expertise

Dr. Kittiyod is a medical doctor with expertise in internal medicine, gastroenterology, hepatology, and clinical research into tropical diseases. His primary research area is liver diseases including viral hepatitis, liver abscess, chronic liver diseases, and gastrointestinal involvement of tropical diseases. He is experienced in conducting clinical trials studies focusing on viral hepatitis and tropical infectious diseases. Regarding bioethics, he regularly attends and is updated on GCP training. He is a reviewer for the FTM Ethics Committee and the Thai Central Research Ethics Committee. In national research service, he is a research subcommittee of the Gastroenterological Association of Thailand and the Thai Association for the Study of the Liver. He has published >40 international peer-reviewed research articles in infectious diseases, tropical medicine, internal medicine and gastroenterology.

Research areas

- ▼ Tropical infectious diseases
- ▼ Gastrointestinal and liver diseases, including viral hepatitis, liver fluke, dengue, liver abscess

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Dr. Kraichat Tantrakarnapa is an Associate Professor in the Department of Social and Environmental Medicine. He received his B.Sc. in Statistics from Chiangmai University, M.Sc. in Technology of Environmental Management from Mahidol University, and Ph.D. in Environmental Engineering from Suranaree University of Technology, Thailand. He holds a Diploma in Occupational Health and Safety in the Workplace awarded by ITC-ILO and Torino University, Italy. He is involved in both teaching and research. He teaches students in the Diploma, M.Sc. and Ph.D. programs of the Bangkok School of Tropical Medicine.

Research expertise

Dr. Kraichat is a nationally-recognized expert on environmental health management and health impact assessment. He is especially interested in evaluating the impact of climate change on human and environmental health. His research expertise covers occupational health, health risk assessment, air pollution and health impact assessment, and environmental modeling. He is widely experienced in application of computer modeling for environmental health management. He has contributed to research and academic work in Asian countries and has established strong connections with international agencies, various Thai governmental organizations and state enterprises.

Research areas

- ▼ Environmental health and management
- ▼ Climate change and health impact
- ▼ Mitigation and adaptation measures for climate change, air pollution and health

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Dr. Kriengsak Limkittikul is an Associate Professor in the Department of Tropical Pediatrics. He received his Doctor of Medicine degree from Mahidol University. He holds a number of graduate diplomas including Diploma Thai Board of Pediatrics from Khon Kaen University, Diploma of Virology from Nagasaki University, Japan, Diploma Thai Board of Family Medicine, and Diploma of Tropical Medicine and Hygiene from Mahidol University, Thailand. His duties at the Faculty of Tropical Medicine involved teaching and research, he also serves as a doctor in the Hospital for Tropical Diseases, Bangkok. His recent position is Head of Department of Tropical Pediatrics.

Research expertise

Dr. Kriengsak is a board-certified pediatrician with expertise in infectious disease. He has been involved and led many vaccine trials for dengue. He is especially interested in medical virology.

Research areas

- ▼ Dengue
- ▼ Vaccines
- ▼ Pediatric infectious diseases

Narisara Chantratita, Ph.D.



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Dr. Narisara Chantratita is an Associate Professor in the Department of Microbiology and Immunology. She is a world-renowned authority in melioidosis research. She has led several funded projects on melioidosis in Thailand and published numerous papers in international and peer-reviewed journals, leading to further understanding of the bacterium *Burkholderia pseudomallei* and the pathogenesis of melioidosis.

Research expertise

Dr. Narisara is an expert in bacterial infections with emphasis on melioidosis and antimicrobial-resistant bacteria. She has studied the interactions between the pathogen and human host in melioidosis for over 25 years, combining laboratory investigation with clinical studies. She is especially interested in the development of improved methods of diagnosis, vaccine and treatment for this neglected tropical disease.

Research areas

- ▼ Melioidosis
- ▼ Immunology
- ▼ Bacteriology

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Dr. Natthanej Luplertlop is an Associate Professor in the Department of Microbiology and Immunology. He obtained his M.D. from Rangsit University and his Ph.D. in Anatomy from Mahidol University. He holds a Diploma in Tropical Medicine and Hygiene and a Diploma in Dermatology from Mahidol University, and a Diploma in Traditional Chinese Acupuncture from the Department of Thai Traditional and Alternative Medicine, Ministry of Public Health, Thailand.

Research expertise

Dr. Natthanej's expertise includes medical mycology and virology. He has a special interest in immunopathogenesis of tropical mycology and mosquito borne viruses. He also has broad experience in Thai medicinal-plants applications in tropical mycology, virology and aesthetics.

Research areas

- ▼ Mycoses
- ▼ Mycovirus
- ▼ Dengue
- ▼ Zika

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Dr. Nitaya Indrawattana is an Associate Professor in the Department of Microbiology and Immunology. She obtained her B.Sc., M.Sc., and Ph.D. in Medical Technology from Mahidol University, Thailand. She is involved in research in the Department and teaching at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Nitaya is an expert in molecular biology, microbiology, and therapeutic antibodies.

Research areas

- ▼ Food-borne diseases
- ▼ Features of virulence factors and resistance mechanisms in ESKAPE bug
- ▼ Human scFv for therapy

Noppadon Tangpukdee, Ph.D.



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Dr. Noppadon Tangpukdee is an Associate Professor in the Department of Clinical Tropical Medicine. He has an M.Sc. in Toxicology and Ph.D. in Tropical Medicine from Mahidol University. He holds a Diploma in Medical Microbiology awarded by the Institute for Medical Research, Kuala Lumpur, Malaysia. His duties include teaching at the Bangkok School of Tropical Medicine and research in the Department. His work focuses on the clinical and safety aspects of malaria research.

Research expertise

Dr. Noppadon focuses on research relating to malaria and is particularly involved in a number of research projects relating to the clinical management of malaria. His publications have been recognized and used to set up a new policy for the management of malaria, for example, using primaquine to reduce malaria transmission.

Research area

- ▼ Malaria

Paron Dekumyoy, Ph.D.



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Dr. Paron Dekumyoy is an Associate Professor in the Department of Helminthology. He has M.Sc. and Ph.D. degrees in Tropical Medicine, both from Mahidol University, Thailand. His primary research areas are host immune responses to helminthic infections and improvement of the diagnosis of helminthic infections.

Research expertise

Dr. Paron is a globally-recognized expert in the immunodiagnosis of tropical infections and helminthic infections. He is also widely experienced in the serodiagnosis of human gnathostomiasis and paragonimiasis. He is an authority in research concerning host immune response and parasite transmission.

Research areas

- ▼ Gnathostomiasis
- ▼ Angiostrongyliasis
- ▼ Paragonimiasis
- ▼ Cysticercosis

Pongrama Ramasoota, D.V.M., Ph.D.



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Dr. Pongrama Ramasoota is a Collaborative Professor at Osaka University and an Associate Professor in the Department of Social and Environmental Medicine, Mahidol University. He received a Doctor of Veterinary Medicine degree from Kasetsart University and Master of Public Health (Urban Health) from Mahidol University. He completed his M.Sc. and Ph.D. in Microbiology at the Swedish University of Agricultural Science, Uppsala, Sweden. He teaches at the Bangkok School of Tropical Medicine and leads a team of researchers at the Center of Excellence for Antibody Research (CEAR).

Research expertise

Dr. Pongrama is an authority in antibody research, with a specialization in the characterization and production of therapeutic human monoclonal antibodies against dengue virus. He led the invention of a neutralizing human monoclonal antibody that has 96-100% killing activity against all serotypes of dengue virus. His expertise include DNA vaccine development for dengue and canine parvovirus, as well as developing improved diagnostic tests for dengue, tuberculosis, and foot and mouth disease.

Research areas

- ▼ Dengue
- ▼ Tuberculosis
- ▼ Canine parvovirus (CPV)
- ▼ Foot and mouth disease virus (FMDV)

Poom Adisakwattana, Ph.D.

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Dr. Poom Adisakwattana is an Associate Professor in the Department of Helminthology. He earned his Ph.D. in Biomedical Sciences from Thammasat University, Thailand. He was a postdoctoral researcher in the Inflammation and Immunity group at Trinity College, Dublin, Republic of Ireland. His research focuses on host-parasite interaction with an association to the host immune response.

Research Expertise

Dr. Poom's research expertise includes the molecular diagnosis of helminthic infections and development of molecular proteins as a noble therapy for complications caused by parasitic infections such as schistosomiasis and trichinosis. He is experienced in the use molecular techniques to identify proteins secreted from parasites, which can be used as a diagnostic tool.

Research areas

- ▼ Molecular parasitology
- ▼ Helminthes
- ▼ Immunology of infectious diseases

Porntip Petmitr, Ph.D.



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Dr. Porntip Petmitr is an Associate Professor in the Department of Protozoology. She obtained her B.Sc. in Medical Technology from Chiangmai University. She has an M.Sc. in Tropical Medicine and Ph.D. in Biochemistry, both from Mahidol University. She teaches graduate students and supervises several Masters and Ph.D. students at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Porntip is an authority in the study of protozoa, with emphasis on biochemistry and molecular techniques. Her expertise includes molecular diagnosis of protozoan parasites such as *Trichomonas vaginalis* and human malarial parasites. She has a strong background in the cultivation and drug sensitivity testing of malaria parasites. Her research interests include the development of differential diagnosis of human entamoeba and studies on DNA replicating enzymes of *Plasmodium falciparum* as new chemotherapeutic targets against malaria.

Research areas

- ▼ Malaria
- ▼ Amoebiasis
- ▼ Trichomoniasis

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Dr. Pratap Singhasivanon is an Associate Professor in the Department of Tropical Hygiene. He obtained his medical degree from Kasturba Medical College, India before receiving his postgraduate Diploma in Tropical Medicine and Hygiene from Mahidol University. He has a Master of Public Health degree from Harvard University and a Doctor of Public Health degree from the University of Michigan, USA.

Research expertise

Dr. Pratap is an authority on the epidemiology of tropical diseases, vector-borne infectious diseases, and the application of geographic information system (GIS) in monitoring multi-drug resistant malaria. His primary research area is the epidemiology of malaria, but he has an interest in many of the other vector-borne diseases that affect populations in Southeast Asia. He often collaborates with medical doctors, specialists and researchers in international health agencies in medical research. Dr. Pratap has established several initiatives to improve the performance of all faculty staff, raising the international profile of the Faculty of Tropical Medicine around the world. He constantly works toward developing and implementing national health policies in Thailand and contributing to the improvement of regulations and planning in Thailand's public health system. Dr. Pratap regularly works closely with Thailand's Ministry of Public Health in both research and human-resource capacity-building and development.

Research areas

- ▼ Malaria
- ▼ Vector-borne diseases

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Dr. Supat Chamnanchanunt is an Associate Professor in the Department of Clinical Tropical Medicine. He has a diploma from the Thai Board of Hematology and a diploma in Tropical Medicine and Hygiene from Mahidol University, Thailand. He received his Doctor of Medicine degree from Rangsit University, Thailand.

Research expertise

Dr. Supat is a hematology expert, with emphasis on infectious diseases and molecular aspects. He is widely experienced in hematology and molecular related to tropical diseases.

Research areas

- ▼ Hematology
- ▼ Tropical diseases
- ▼ Molecular

Suwalee Worakhunpiset, Ph.D.



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Dr. Suwalee Worakhunpiset is an Associate Professor in the Department of Social and Environmental Medicine. She completed her bachelor's degree in nursing, M.Sc. in Technology of Environmental Management, and Ph.D. in Tropical Medicine at Mahidol University, Thailand. She is involved in research in the Department and teaching at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Suwalee's area of research expertise covers environmental health and toxicology, environmental management, and health risk assessment. One example of her research work is the evaluation of the effects of climate change on gastro-intestinal infectious diseases, which involved predicting how environmental factors (e.g. humidity, temperature, precipitation) impact upon patterns and virulence of infectious gastrointestinal diseases. Another example is assessing the health risk from exposure to harmful agents in the environment including the assessment of carcinogenic potential of chemicals release from plastic food containers and packaging through cell transformation assay. She is also experienced in risk assessment of TB infection from the environment. Her research promotes public awareness about human health risks from toxic chemicals and other issues in the environment (e.g. water and air pollution).

Research areas

- ▼ Environmental related diseases such as food and waterborne diseases
- ▼ Environmental toxicology
- ▼ Health risk assessment
- ▼ Cancer
- ▼ TB
- ▼ Herbal medicine

Thareerat Kalambaheti, Ph.D.



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Dr. Thareerat Kalambaheti is an Associate Professor in the Department of Microbiology and Immunology. She obtained her M.Sc. and Ph.D. in Microbiology from the University of New South Wales and Monash University, Australia, respectively. She is involved in research in the Department and teaching at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Thareerat is a microbiologist with specialization in molecular typing of bacteria, molecular diagnosis, and recombinant protein production. One example of her research works is the classification of *Leptospira* sp. into group, based on genes encoding O-Ag polymerase. She has published a number of studies leading to further discoveries of brucellosis in Thailand.

Research areas

- ▼ Leptospirosis
- ▼ Brucellosis
- ▼ Salmonellosis

Urusa Thaenkham, Ph.D.



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Dr. Urusa Thaenkham is an Associate Professor in the Department of Helminthology, where she has teaching and research responsibilities. She works with her Department colleagues and regional collaborators on helminthology topics pertinent to Southeast Asia. Dr. Urusa Thaenkham's primary research area is food-borne trematodiasis, infections caused by fluke larvae often through the consumption of raw fish, crustaceans or vegetables.

Research expertise

Dr. Urusa's areas of research expertise is helminthes, with emphasis on systematics and population genetics. Her research is also focused on improving the molecular identification and diagnosis methods of any objects from the host or environment. She is very interested in anthelmintic drug development, which includes safety and toxicity evaluation, and efficacy testing of Thai medicinal herb extracts against helminthic infections in animal model.

Research area

- ▼ Helminthiasis infection

Usa Boonyuen, Ph.D.



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Dr. Usa Boonyuen is an Associate Professor in the Department of Molecular Tropical Medicine and Genetics. Her outstanding proficiency in chemistry has been recognized nationally, receiving prestigious scholarships by the Thai Government to pursue doctoral degrees abroad. In 2008, she received her Ph.D. in Biochemistry from the University of Cambridge, United Kingdom.

Research expertise

Dr. Usa is an expert in biochemistry, molecular biology and diagnostics. She has a special interest in developing a rapid diagnostic kit for G6PD deficiency testing to support radical cure of *vivax* malaria.

Research areas

- ▼ G6PD deficiency
- ▼ Malaria
- ▼ Melioidosis
- ▼ Gnathostoma

Vipa Thanachartwet, M.D.



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Dr. Vipa Thanachartwet is an Associate Professor in the Department of Clinical Tropical Medicine. She earned her M.D. degree from the Faculty of Medicine, Ramathibodi Hospital in Mahidol University, Thailand. She completed her Internal Medicine and Fellowship in Clinical Nephrology at Phramongkutklo Hospital and College of Medicine, Thailand. She holds Diplomas in Subspecialty Board of Internal Medicine and Board of Nephrology, both from the Thai Medical Council. She works at the Faculty of Tropical Medicine and the Hospital for Tropical Diseases, Mahidol University, involved in patient care, clinical research and teaching. She teaches students in the Diploma, M.Sc. and Ph.D. programs of the Bangkok School of Tropical Medicine.

Research expertise

Dr. Vipa is an internist and nephrologist with special interest in dengue, malaria, snake envenomation and other tropical diseases. Her expertise includes clinical research into tropical diseases.

Research areas

- ▼ Dengue
- ▼ Malaria
- ▼ Tropical diseases

Waranya Wongwit, Ph.D.



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Dr. Waranya Wongwit is an Associate Professor in the Department of Social and Environmental Medicine. She obtained her B.Sc. and M.Sc. degrees in Biology from Kasetsart University, Thailand. She was awarded M.Sc. in Biological Sciences and Ph.D. in Biochemistry degrees by the University of Massachusetts at Lowell, Massachusetts, USA. Dr. Waranya is a researcher in the Department and is largely involved in teaching and administration at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Waranya is an expert in the biology and biochemistry of parasites, with special focus on the genus *Schistosoma*. Her research specialization also includes the determination of heavy metals in biological and environmental samples. She has a strong background in conducting the environmental health impact assessment of national development projects, both in water-resource development and industrial-development projects.

Research area

- ▼ Environmental health and toxicology

Wattana Leowattana, M.D., Ph.D.



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Dr. Wattana Leowattana is an Associate Professor in the Department of Clinical Tropical Medicine. He works in the Hospital for Tropical Diseases and is involved in teaching and research. He was awarded an M.D. degree, a Diploma Thai Board of Family Medicine, and Ph.D. in Clinical Tropical Medicine, by Mahidol University.

Research expertise

Dr. Wattana's research expertise includes clinical pathology, clinical chemistry, hepatology, and anemia in tropical diseases.

Research areas

- ▼ Hepatitis
- ▼ Malaria
- ▼ Fatty liver

Yaowapa Maneerat, D.V.M., Ph.D.



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Dr. Yaowapa Maneerat is an Associate Professor in the Department of Tropical Pathology. She received her D.V.M. degree from Chulalongkorn University and completed her M.Sc. and Ph.D. degrees in Pathobiology at Mahidol University, Thailand. She is involved in research in the Department and teaching at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Yaowapa specializes in the immunohistochemistry of tropical and infectious diseases, including malaria and gnathostomiasis. She is also an expert in tissue culture.

Research areas

- ▼ Malaria
- ▼ Gnathostomiasis

Apichart Nontprasert, Ph.D.



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Dr. Apichart Nontprasert is an Assistant Professor in the Department of Clinical Tropical Medicine. He holds an M.Sc. in Public Health and a Ph.D. in Tropical Medicine, both from Mahidol University. He is actively involved in both teaching and research.

Research expertise

Dr. Apichart has a broad background in toxicological studies in animal and *in vitro* models as well as pathological examination of the brain and vital organs in animals. He is also an expert in cell culture.

Research area

- ▼ Malaria

Chatporn Kittitrakul, M.D.



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Research expertise

Dr. Chatporn is a diplomate of the Thai Board Gastroenterology and the Thai Board Internal Medicine. She is an expert in tropical diseases, gastrointestinal tract infection, and hepatitis.

Research areas

- ▼ Dengue
- ▼ Diarrhea
- ▼ Traveler's diarrhea
- ▼ Viral hepatitis

Dumrongkiet Arthan, Ph.D.



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Dr. Dumrongkiet Arthan is an Assistant Professor in the Department of Tropical Nutrition and Food Science. He teaches M.Sc. and Ph.D. students at the Bangkok School of Tropical Medicine. He has a Ph.D. and M.Sc. in Biochemistry, both from Mahidol University, Thailand.

Research Expertise

Dr. Dumrongkiet is an expert in enzymology and protein bio chemistry, molecular biology, school health, and health science. He has a particular interest in glycosidase enzymes in various organisms and anti-microbial peptides from mosquitoes.

Research areas

- ▼ Non-communicable diseases
- ▼ Dengue
- ▼ Chikungunya

Jiraporn Ruangsittichai, Ph.D.



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Dr. Jiraporn Ruangsittichai is an Assistant Professor in the Department of Medical Entomology. She has a B.Sc. in Medical Technology and Ph.D. in Biology, both from Mahidol University. She teaches students in the M.Sc. and Ph.D. programs of the Bangkok School of Tropical Medicine.

Research expertise

Dr. Jiraporn's research expertise include medical entomology, molecular biology, and molecular taxonomy. Her primary research area is the molecular identification of medically important arthropods using DNA barcoding, a method that uses universal primers designed on the DNA of mitochondria – an organelle found in all higher cells. She is interested in developing new methods of solving questions regarding species complex in arthropod populations. In addition, her research has focused on vector control, developing of natural plant-derived products for insecticides and repellents.

Research area

- ▼ Vector-borne diseases

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Background

Dr. Jittima Dhitavat is an Assistant Professor in the Department of Clinical Tropical Medicine. She received her Doctor of Medicine degree from Prince of Songkla University and M.Sc. in Internal Medicine from Chulalongkorn University, Thailand. She then obtained her Ph.D. in Clinical Medicine from the University of Oxford, United Kingdom. She works at the Hospital for Tropical Diseases and is currently involved in teaching and research.

Research expertise

Dr. Jittima is a medical doctor with expertise in dermatology, mycology, and vaccinology.

Research areas

- ▼ Tropical diseases
- ▼ Skin diseases

Kobporn Boonnak, Ph.D.



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Dr. Kobporn Boonnak is an Assistant Professor in the Department of Microbiology and Immunology. She investigates the immunopathogenesis of important emerging and re-emerging viruses. She has a Ph.D. in Microbiology from Mahidol University, Thailand. Her thesis was conducted at the Walter Reed Army Institute of Research (WRAIR), USA. After completing her Ph.D., she was accepted for a position as a research fellow at NIAID, NIH, USA.

Research expertise

Dr. Kobporn has a broad background in virology and immunology. The main focus of her study is the host immune responses following viral infection and vaccine administration. Currently, her research is also expanded to study the influence of pre-existing immunity in humans and animals on the transmission of arboviruses such as dengue, Zika, and chikungunya viruses.

Research areas

- ▼ Influenza virus
- ▼ Respiratory syncytial virus
- ▼ Dengue virus
- ▼ Zika virus
- ▼ Chikungunya virus
- ▼ Other viruses

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Dr. Muthita Vanaporn is an Assistant Professor in the Department of Microbiology and Immunology. She was awarded her B.Sc. in Medical Technology by Chulalongkorn University and completed her Ph.D. in Immunology at Mahidol University, Thailand. She pursued her postdoctoral fellowship at the School of Biosciences, University of Exeter, United Kingdom. She is involved in both research and teaching. She teaches graduate and postgraduate students at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Muthita is among the researchers in the Faculty of Tropical Medicine who specialize in bacterial infections especially melioidosis. Her research focuses on the molecular microbiology and pathogenesis of *Burkholderia pseudomallei*, the causative agent of melioidosis. She collaborates with her colleagues in the UK and Italy in a *B. pseudomallei* pathogenesis project. She is also a co-investigator in a tuberculosis project funded by the National Research Council of Thailand. Antibiotic resistance in gram-negative bacteria is the focus of her recent works.

Research areas

- ▼ Melioidosis
- ▼ Tuberculosis
- ▼ Antibiotic resistance

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Research expertise

Dr. Saralamba's research expertise include molecular biology, genotyping, and molecular diagnosis of tropical diseases. She has a special interest in molecular studies of antimalarial drug target genes and the genetic epidemiology of *Plasmodium malariae* and *Plasmodium ovale* from infected patients.

Research areas

- ▼ Genetic epidemiology
- ▼ Tropical infectious diseases
- ▼ Malaria

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Research expertise

Dr. Nathamon is an expert in molecular microbiology and molecular virology. She has a wide laboratory experience in utilizing cell, molecular, immunological, and virological techniques. She is also adept in using bioinformatics tools for sequence analysis.

Research areas

- ▼ Food- and water-borne viral infections
- ▼ Zoonoses
- ▼ Arbovirus infections

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Research expertise

Dr. Natthida is an expert in clinical chemistry, analytical separation, chromatography and mass spectrometry, and metabolomics study for biomarker discovery and translation. Her research interest includes clinical studies of the pathophysiology of severe malaria related to acidosis and the contribution of unmeasured anions. She is also especially interested in malaria mass spectrometry-based metabolomics study in clinical samples for the assessment and understanding of the pathogenesis of acidosis in patients with severe malaria and other conditions associated with acidosis.

Research areas

- ▼ Malaria
- ▼ Non-communicable diseases

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Dr. Ngamphol Soonthornworasiri is an Assistant Professor in the Department of Tropical Hygiene. He obtained his B.Sc. in Mathematics, M.Sc. in Applied Mathematics, and Ph.D. in Mathematics from Mahidol University, Thailand. He teaches students in the Diploma, M.Sc. and Ph.D. in biostatistics and advanced statistical analysis programs of the Bangkok School of Tropical Medicine. He is also a statistical consultant in government and non-government organizations for advising and delivering a variety of statistical analyses and research.

Research expertise

Dr. Ngamphol contributes his expertise in mathematics and statistics to public health and biomedical research. His specializations include statistical analysis, data analysis, time-series modeling, statistical modeling, health data, and biomedical data.

Research areas

- ▼ Health data
- ▼ Biomedical data
- ▼ Malaria
- ▼ Dengue

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Research expertise

Dr. Onrapak specializes in mass spectrometry (MS) based analysis of biological compounds. MS is a novel, high-throughput technology with great sensitivity and accuracy for the study of molecular biological studies. Dr. Onrapak Reamtong's research focuses on applying MS to the field of tropical disease studies in order to discover novel diagnostic methods, vaccine candidates and drug treatments.

Research areas

- ▼ Proteomics
- ▼ Parasitic disease
- ▼ Mass spectrometry

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Dr. Pannamthip Pitaksajjakul is an Assistant Professor in the Department of Social and Environmental Medicine. She obtained her B.Sc. in Chemistry from Srinakharinwirot University, Thailand, and completed her M.Sc. and Ph.D. in Tropical Medicine at Mahidol University. She carries out teaching and research, in both cases focusing on the production and characterization of monoclonal antibodies against dengue virus

Research expertise

Dr. Pannamthip's research specialization is the production and characterization of monoclonal antibodies against dengue virus. Her research includes the use of genetic engineering to enhance the activity of therapeutic antibody and optimizing the production yield of recombinant IgG expressed in mammalian cell for further large-scale production. She is also interested in developing improved diagnostic tools for tuberculosis.

Research areas

- ▼ Dengue
- ▼ Tuberculosis

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Dr. Patchara Sriwichai is an Assistant Professor in the Department of Medical Entomology. Alongside her research duties in the Department, she also teaches at the Bangkok School of Tropical Medicine. She received her B.Sc., M.Sc. in Medical Technology and Ph.D. in Tropical Medicine degrees from Mahidol University, Thailand.

Research expertise

Dr. Patchara is an expert in medical entomology with especial focus on vector biology and the transmission dynamics of malaria vectors found along the borders of Thailand. She is also interested in vector-parasite relationships, the development and evaluation of vector surveillance as a warning system and improving vector suppression in malaria-endemic areas.

Research areas

- ▼ Malaria
- ▼ Dengue

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Dr. Pattaneeya Prangthip is an Assistant Professor in the Department of Tropical Nutrition & Food Science. She received her B.Sc. in Biotechnology from Silpakorn University, Thailand. She has an M.Sc. degree in Food Technology from the University of New South Wales, Australia, and a Ph.D. degree in Nutrition from Mahidol University, Thailand. She teaches and supervises students in the Diploma, M.Sc. and Ph.D. programs of the Bangkok School of Tropical Medicine in topics related to tropical nutrition and food science.

Research expertise

Dr. Pattaneeya is a nutritionist specializing in evaluating the efficacy of antioxidant-rich fruits in non-communicable diseases such as diabetes and obesity, using animal models (e.g. rats). She has a special interest in antioxidant analysis, bioavailability of bioactive compounds, and metabolism of obesity, insulin resistance and diabetes mellitus.

Research areas

- ▼ Obesity
- ▼ Diabetes mellitus (DM)
- ▼ Hyperlipidemia

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Research expertise

Dr. Piengchan's expertise include molecular-based diagnosis of bacterial infection and typing based on genotype and protein fingerprinting of bacteria pathogens.

Research areas

- ▼ Scrub Typhus
- ▼ Leptospirosis
- ▼ Rickettsiosis
- ▼ Food-borne diseases; salmonellosis and listeriosis

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Dr. Podjanee Jittamala is an Assistant Professor in the Department of Tropical Hygiene. She is a pediatrician with a specialization in infectious diseases. She works in the Hospital for Tropical Diseases and also involved in teaching and research. She received her M.D. degree from Prince of Songkla University, Diploma in Thai Board of Pediatrics from Queen Sirikit National Institute of Child Health (QSNICH), and Diploma in Thai Board of Pediatrics Infections from Chiangmai University.

Research expertise

Dr. Podjanee's research expertise includes malaria epidemiology and conducting clinical trials to evaluate malaria treatment and elimination strategies in the region. She is also experienced in leading pragmatic trials, assessing the efficacy of treatments or therapies available for malaria in real-life routine practice conditions.

Research areas

- ▼ Malaria
- ▼ Dengue
- ▼ Scrub Typhus

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Research expertise

Dr. Pornpan's area of research expertise are microbiology, immunology, and molecular techniques, with special focus on *Burkholderia pseudomallei*, a bacterium that causes melioidosis. She is involved in numerous research activities leading to further understanding of *Burkholderia pseudomallei*.

Research area

- ▼ Melioidosis

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Dr. Pornsawan Leangwutiwong is an Assistant Professor in the Department of Microbiology and Immunology. She obtained her B.Sc. in Radiological Technology and completed her M.Sc. and Ph.D. in Tropical Medicine at Mahidol University. She teaches students in the Diploma, M.Sc. and Ph.D. programs of the Bangkok School of Tropical Medicine.

Research expertise

Dr. Pornsawan has a broad background in the molecular diagnosis of viral infections as well as tissue culture. Her expertise includes medical virology and molecular typing. She is especially interested in improving a developed rapid diagnostic test kit for Zika and chikungunya viruses. Dr. Pornsawan has established collaborations with local and foreign institutions on the study of dengue, chikungunya, and Zika.

Research areas

- ▼ Dengue
- ▼ Zika
- ▼ Influenza
- ▼ Enteric viruses

Ronald Enrique Morales Vargas, Ph.D.



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Dr. Ronald Enrique Morales Vargas is an Assistant Professor in the Department of Medical Entomology. He received his Ph.D. in Medical Entomology from the Institute for Tropical Medicine, Nagasaki University, Japan. He is actively involved in research within the Department and also teaches at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Ronald is an expert in biological systematic, taxonomy, ecology, medical entomology, vector borne diseases ecology, molecular entomology, and geometric morphometrics. Dr. Ronald's current research aims to ascertain virus identification associated with naturally infecting mosquitoes, mosquito specific virus (MSV) and mosquito borne viruses. Dr. Ronald is aiming to determine the health threat potential and the potential use as vector control of this MSV. In parallel, he is also studying the vector competence of mosquito thriven in domestic and peridomestic habitats of human and animal dwellings within urban, rural and forest areas of Thailand. He is currently targeting viruses such as Zika, chikungunya, Mayaro and dengue. In the geometric morphometric space, Dr. Ronald is collaborating with Emeritus Professor Jean Pierre Dujardin from IRD, France, to establish a mosquito wing bank used to assist in the proper identification of mosquitos located in Thailand through open sharing online.

Research areas

- ▼ Malaria
- ▼ Arboviral disease
- ▼ Ecology and its maintenance in nature

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Dr. Rutcharin Potiwat is an Assistant Professor in the Department of Medical Entomology. She received her B.Sc. in Biology from Khon Kaen University, M.Sc. in Genetic Engineering from Kasetsart University, and Ph.D. in Biomedical Sciences from Chulalongkorn, University, Thailand. She holds a Diploma of Applied Parasitology and Entomology from Institute for Medical Research, Malaysia. Dr. Rutcharin teaches students in the Diploma, M.Sc. and Ph.D. programs of the Bangkok School of Tropical Medicine in topics related to medical entomology, insect cell line and virology.

Research expertise

Dr. Rutcharin is expert in medical entomology, with special focus on arboviruses, insect allergens, and vector-borne diseases such as dengue, chikungunya virus coinfection, and Japanese encephalitis virus (JEV). She is also interested in bat ectoparasite (bedbugs and bat bugs) and other blood-feeding insects from lime stone bat caves. She found bat bugs (*Leptocimex inordinatus*) that have not been reported in Thailand before. This ectoparasite feeds on bats and might be involved in the circulation and further transmission of zoonoses. She has a special interest in the molecular identification of insect vectors and genetic engineering of mosquito vectors. She has experience in virus isolation and propagation using mosquito vectors such as *Aedes aegypti*, *Ae. albopictus*, *Ae. scutellaris* and *Toxorhynchites splendens*. She has applied this know-how for testing the Chimeric vaccination of dengue virus serotype 1 to 4 in collaboration with the Center for Vaccine Development (CVD) and vaccine industry.

Research areas

- ▼ Dengue
- ▼ Chikungunya
- ▼ Japanese encephalitis virus
- ▼ Vaccine testing in mosquito, bat bugs or bat ectoparasitic insects

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Research expertise

Dr. Saengduen's area of expertise covers molecular biology and immunology, protein science, monoclonal production, and antibody protein characterization. Her research focuses on the development of improved diagnostic tools for pathogens. She has a special interest in molecular and cellular studies on the pathogenesis of human infected with bacteria or protozoa.

Research areas

- ▼ Amoebiasis
- ▼ Malaria
- ▼ Leptospirosis
- ▼ Biological control of mosquito larvae

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Assistant Professor Dr. Santi Maneewatcharangsri is a member of the Department of Molecular Tropical Medicine and Genetics, Faculty of Tropical Medicine, Mahidol University, Thailand. He received his B.Sc. in Medical Technology (honors) from Chiang Mai University in 2000 and his Ph.D. (Biomedical Sciences) at the Faculty of Allied Health Sciences, Thammasat University, Thailand in 2007. He teaches M.Sc., and Ph.D. students in Tropical Medicine international programs at the Faculty of Tropical Medicine, Mahidol University. He has memberships of national professional academic organizations including the Thai Academy of Science and Technology Foundation (TAST), Leptospirosis Club of Thailand, and Genetic Society of Thailand.

Research expertise

His expertise includes leptospirosis research: basic sciences, serodiagnosis, vaccine development; drug discovery for drug resistant bacteria especially for MDR *E. coli*; antibody engineering technology, and immunotherapy for infectious diseases and immune-bioinformatics. He has demonstrated excellence in his research career in over 25 original publications from the Pubmed database. He is the principal investigator of more than six ongoing research projects funded by Faculty of Tropical Medicine, Mahidol University, and non-profit organizations including the Thailand Research Fund and Center of Excellence in Medical Biotechnology, and the Newton Fund, UK. He received an outstanding research award from the Thailand Research Fund in 2013. He has previously

received international funding, including the Professional Development Programme for Mid-Career Researchers from the Newton Fund, the Researcher Links Programme 2015/16 from the Newton-UK-Thailand Research and Innovation Partnership Fund, and Leader in Innovation Fellowships 2018, Newton UK-Thailand Research and Innovation Partnership Fund (2015-2018).

His creative innovation focuses on diagnostic test kits for leptospirosis and antimicrobial-drug discovery for drug-resistant bacteria, especially MDR *E. coli*. In addition to improving health and well-being and improving the quality of life of patients, this translational research will also strengthen R&D capability to take the country out of the 'middle-income trap', and will result in wealth creation, economic prosperity, and regeneration of public, private and third sector organizations, and enhancing the effectiveness and sustainability of organizations.

Research areas

- ▼ Leptospirosis
- ▼ *E. coli* and MDR *E. coli* infection

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Research expertise

Dr. Saranath is an expert in malaria epidemiology and public-health informatics. Her research focuses on malaria elimination, particularly in low transmission settings. She conducts malaria surveillance and population movement tracking along the Thai-Myanmar border, providing important information that influences the malaria-elimination policy and strategies in Thailand and neighboring countries. She also has broad experience in clinical and epidemiological studies of tropical diseases.

Research areas

- ▼ Malaria
- ▼ Dengue
- ▼ Tuberculosis
- ▼ Health informatics

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Dr. Suchada Sumruayphol is an Assistant Professor in the Department of Medical Entomology. She has a B.Sc. in Agriculture from Kasetsart University. She received her M.Sc. in Appropriate Technology for Resources and Environmental Development and Ph.D. in Tropical Medicine from Mahidol University. She teaches students in the Diploma, M.Sc. and Ph.D. programs the Bangkok School of Tropical Medicine in the topics related to medical entomology.

Research expertise

Dr. Suchada's research expertise include taxonomy, geometric morphometrics, vector ecology, vector biology, and molecular biology. She has extensive experience in the application of geometric morphometrics and molecular biology to identify insect vectors in Thailand.

Research areas

- ▼ Malaria
- ▼ Dengue
- ▼ Leishmaniasis
- ▼ Scrub typhus

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Dr. Sumate Ampawong is an Assistant Professor in the Department of Pathology. He is involved in research in the Department and teaching at the Bangkok School of Tropical Medicine. He has a Ph.D. and M.Sc. in Tropical Medicine, both from the Faculty of Tropical Medicine, Mahidol University.

Research Expertise

Dr. Sumate is an expert in toxicological and tropical pathology, and the pathogenesis of scedosporiosis and severe *falciparum* malaria. In addition, he is experienced in evaluating the efficacy of Thai traditional medicine for non-communicable diseases *in vivo*. He is also adept in utilizing electron microscopy focusing on mitochondrial architecture, which is one of the academic services offered by the Department of Tropical Pathology.

Research areas

- ▼ Malaria
- ▼ Scedosporiosis
- ▼ Non-communicable diseases

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Research expertise

Dr. Supaluk's expertise includes the diagnosis of pathogenic protozoa, zoonotic protozoa, and *Blastocystis spp.* Her primary research area is the molecular genetics of intestinal protozoa as well as the antiprotozoal activity of herbs against *Giardia duodenalis*. She is especially interested in the development of intestinal protozoa diagnostics.

Research area

- ▼ Parasitology; development, diagnosis and drug testing, especially of pathogenic protozoa.

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Dr. Supawat Chatchen is an Assistant Professor in the Department of Tropical Pediatrics. He obtained his B.Sc. in Medical Science and Ph.D. in Molecular Genetics and Genetic Engineering from Mahidol University, where he was awarded his M.D. degree. He is actively involved in research in the Department and teaches at the Bangkok School of Tropical Medicine.

Research expertise

Molecular biology, immunological response of dengue infection, vector-borne infectious diseases, and tropical pediatric diseases applies to Dr. Supawat's areas of expertise.

Research areas

- ▼ Dengue
- ▼ Zika

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Dr. Teera Kusolsuk is an Assistant Professor in the Department of Helminthology. He obtained his M.D. degree from Rangsit University and M.Sc. in Community Medicine from Chulalongkorn University. He holds a Diploma in Tropical Medicine and Hygiene from Mahidol University, Thailand and Diploma in Applied Parasitology and Entomology from Institute for Medical Research (IMR), Malaysia. He is involved in research in the Department and teaching at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Teera's expertise include soil-transmitted helminth and community medicine.

Research area

- ▼ Helminths

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Assistant Professor Thanat Chookajorn is Head of the Genomics and Evolutionary Medicine Unit. He obtained his B.Sc. in Medical Sciences from Mahidol University. He received his Ph.D. in Biochemistry, Molecular and Cell Biology from Cornell University and continued his research career as a postdoctoral fellow at Harvard University. His research is shedding light on the malaria drug-resistance situation in Thailand and neighboring regions.

Research expertise

Dr. Thanat is an expert in genomics and evolutionary biology with emphasis on malaria. He has a special interest in discovering anti-malarial drug-resistance mechanisms, leading to development of chemical compounds that target those mechanisms.

Research areas

- ▼ Malaria
- ▼ Antimalarial drug development
- ▼ Drug resistance
- ▼ Genomic surveillance

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Research expertise

Dr. Udomsak is a medical doctor specializing in tropical pulmonary diseases including pulmonary tuberculosis. His research expertise covers tropical medicine and pulmonary medicine.

Research area

- ▼ Tuberculosis

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Dr. Urai Chaisri is an Assistant Professor in the Department of Tropical Pathology. She has a Ph.D. and M.Sc. in Tropical Medicine, both from Mahidol University, Thailand.

Research expertise

Dr. Urai is a renowned expert in electron microscopy, immunology, and pathology in Thailand. She has a special interest in ultrastructural studies of tropical diseases.

Research areas

- ▼ Tropical diseases
- ▼ Allergy
- ▼ Non-infectious diseases

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Dr. Viravarn Luvira is an Assistant Professor in the Department of Clinical Tropical Medicine. She received her Doctor of Medicine degree, Diploma in Tropical Medicine and Hygiene, and a Diploma from the Thai Board of Travel Medicine, all from Mahidol University. She also holds a Diploma of the Thai Board of Internal Medicine and a Diploma of the Thai Board of Infectious Diseases from Phramongkutklao Hospital, including a Certificate in Travel Health (CTH®) from the International Society of Travel Medicine.

Research expertise

Dr. Viravarn's expertise includes general infectious diseases, with emphasis on tropical infections and travelers health. She also has a broad background in proteomics and vaccinology.

Research areas

- ▼ Tropical diseases
- ▼ Dengue
- ▼ Tuberculosis
- ▼ Adult Immunization

Wang Nguitragool, Ph.D.



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Dr. Wang Nguitragool is an Assistant Professor in the Department of Molecular Tropical Medicine and Genetics. He obtained his B.Sc. in Biophysics from Brown University, USA and Ph.D. in Biophysics from Brandeis University, USA. He leads a team of researchers and students investigating *Plasmodium vivax* biology and transmission.

Research expertise

Dr. Wang is an authority in *Plasmodium vivax* biology and epidemiology in Thailand. His research aims to understand malaria parasite biology and mosquito infectivity, with an emphasis on developing novel vaccines for malaria. Dr. Wang also leads a molecular diagnostics team for malaria epidemiological studies. His research supports malaria-elimination efforts in Thailand and neighboring countries.

Research areas

- ▼ Malaria
- ▼ Scrub Typhus

Watcharapong Piyaphanee, M.D., MFTM, RCSPG



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Dr. Watcharapong Piyaphanee is an Assistant Professor in the Department of Clinical Tropical Medicine. He obtained his Doctor of Medicine degree and Graduate Diploma in Clinical Science from Mahidol University. He has a Diploma of the Thai Board of Internal Medicine and Diploma of the Thai Board of Travel Medicine from the Thai Medical Council and a Certificate in Travel Health (CTH®) from the International Society of Travel Medicine. He also holds a Diploma in Travel Medicine from The Royal College of Physicians and Surgeons of Glasgow, United Kingdom.

He is the co-founder of the only Residency Training Program in Travel Medicine, one of its kind in the world. He is also a Site Director of GeoSentinel Surveillance Network based in Bangkok, Thailand. He has done many research works on tropical/travel medicine. He has also attended a Gorgas Course on Tropical Medicine in Peru. He actively participates in all academic activities of D.T.M. &H. and M.C.T.M. programs as well as the Residency training program. He also takes care of patients/ travelers in the Travel Clinic and in the Hospital for Tropical diseases.

Research expertise

Dr. Watcharapong is a medical doctor specializing in travel medicine and tropical medicine. His expertise include treatment and risk assessment of tropical infectious diseases including malaria, rabies, and dengue, particularly among foreign travelers in Thailand and Southeast Asia.

Research areas

- ▼ Travel medicine
- ▼ Tropical infectious diseases
- ▼ Travel related diseases

Watcharee Arunsodsai, M.D., Ph.D.

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Dr. Watcharee Arunsodsai is an Assistant Professor in the Department of Tropical Pediatrics. She is involved in research at the Department and teaching at the Bangkok School of Tropical Medicine. She received her M.D. and Board of Pediatrics from Ramathibodi Hospital, Faculty of Medicine, Mahidol University. She then she received her Ph.D. in Infectious and Tropical Diseases from the London School of Hygiene & Tropical Medicine, London, United Kingdom.

Research expertise

Dr. Watcharee's expertise ranges from malarial molecular biology, oral rehydration therapy, parasitic infections, bacteria, virus, to antibiotic resistance. She is highly experienced in conducting antimalarial clinical trials and other vaccine trials for pediatric infectious diseases.

Research areas

- ▼ Malaria
- ▼ Dengue
- ▼ Pediatric infectious diseases

Weerapong Phumratanaprapin, M.D.



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Dr. Weerapong Phumratanaprapin is an Assistant Professor in the Department of Clinical Tropical Medicine. He received his Doctor of Medicine degree from Chulalongkorn University. He completed his Internal Medicine Residency at Rajavithi Hospital, Ministry of Public Health, Bangkok, Thailand. He has Diplomas from the Thai Board of Internal Medicine, the Thai Board of Nephrology, the Thai Board in the Specialty of Family Medicine, and the Thai Board of Preventive Medicine (Travel Medicine) all received from the Thai Medical Council. He actively teaches graduate students and supervises several Masters and Ph.D. students at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Weerapong's medical specialty is nephrology, with emphasis on acute kidney injury and renal diseases associated with dengue, malaria and other tropical diseases. He has broad experience with acute kidney injury management and medical research in acute kidney injury among dengue and malaria patients.

Research areas

- ▼ Malaria
- ▼ Dengue
- ▼ Acute kidney injury
- ▼ Tropical renal diseases

Weerawan Hattasingh, M.D.



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Dr. Weerawan Hattasingh is an Assistant Professor in the Department of Tropical Pediatrics. She works in the Hospital for Tropical Diseases and is also involved in teaching and research. She has an M.D. degree from Mahidol University, and Diploma of the Thai Board of Pediatrics from Queen Sirikit National Institute of Child Health, Thailand. She also has an ISTM Certificate in Travel Health™ and Diploma of the Thai Board of Preventive Medicine (Travel Medicine).

Research expertise

Dr. Weerawan is widely experienced in pediatric infectious diseases, travel medicine, and vaccines.

Research areas

- ▼ Infectious diseases
- ▼ Infectious disease-related vaccine

Wirichada Pan-Ngum, Ph.D.



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Dr. Wirichada Pan-Ngum is an Assistant Professor in the Department of Tropical Hygiene and an honorary visiting research fellow at Nuffield Department of Medicine, University of Oxford, UK. She received her B.Sc. in MORSE (Mathematics, Operational Research, Statistics, and Economics) from the University of Warwick, United Kingdom. She has an M.Sc. in Applied Statistics from the University of Oxford and a Ph.D. in Infectious Diseases from the University of Liverpool, United Kingdom. She teaches graduate students and supervises several Masters and Ph.D. students from both Tropical Medicine and Biomedical and Health Informatics programs at Mahidol University, as well as Master's degree students in International Health and Tropical Medicine at the University of Oxford.

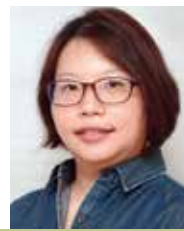
Research expertise

Dr. Wirichada's expertise include biostatistics, mathematical modeling, data management, and data mining. Her primary research focuses on the mathematical modelling of neglected diseases, with zoonotic diseases being a particular interest. She is very interested in combining field surveys with mathematical modelling to gain insights into specific health issues and to find practical and sustainable solutions for community health by engaging health-policy decision-makers and considering the health economic aspect in those recommendations.

Research areas

- ▼ Dengue
- ▼ Leptospirosis
- ▼ Neglected tropical diseases

Yanin Limpanont, D.V.M., D.Sc.



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Dr. Yanin Limpanont is an Assistant Professor in the Department of Social and Environmental Medicine. She holds a Doctor of Veterinary Medicine degree and M.Sc. degree in Aquatic Animal Diseases, both from Chulalongkorn University, Thailand. She obtained her Doctor of Science degree in Marine Life Science from Jeju National University, South Korea. She is involved in research in the Department and teaching at the Bangkok School of Tropical Medicine. She heads the Applied Malacology Unit and is Curator of the Mollusk Museum at the Department of Social and Environmental Medicine. She is the Head of the Laboratory Animal Science Unit, as well.

Research expertise

Dr. Yanin is expert in medical malacology. Her research includes reproductive study in mollusks, disease and parasite in fish and shellfish, and histopathology of shellfish diseases. She is also a specialist in environmental health impact assessment, where she evaluates the health impact of developmental projects (e.g. water reservoir) on a particular community. She is very interested in studies involving nail-mediated parasitic diseases such as schistosomiasis, and is especially interested in snail control and mollusk biodiversity.

Research area

- ▼ Schistosomiasis

Yuvadee Mahakunkijcharoen, Ph.D.



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Dr. Yuvadee Mahakunkijcharoen is an Assistant Professor in the Department of Microbiology and Immunology. She received her B.Sc. in Medical Technology and M.Sc. in Tropical Medicine from Mahidol University. She completed her Ph.D. in Pathology, Immunology and Microbiology at the University of Tokyo, Japan.

Research expertise

Dr. Yuvadee is expert in immunology and microbiology. She has a special interest in immunity and immunodiagnosis of infectious diseases. She is also adept in utilizing hybridoma technology, a method for producing large numbers of identical antibodies.

Research areas

- ▼ Enteric diseases
- ▼ Malaria

Akanitt Jittmittraphap, M.Sc.



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Ms. Akanitt Jittmittraphap is a Lecturer in the Department of Microbiology and Immunology. She obtained her B.Sc. in Biology from Srinakharinwirot University, Thailand and completed her M.Sc. in Tropical Medicine in Mahidol University, Thailand. She actively teaches at the Bangkok School of Tropical Medicine. Moreover, she conducts research in the field of virology and is also responsible for laboratory services.

Research expertise

Ms. Akaniit's research specialization includes virology, diagnosis of viral diseases, and molecular biology of viruses. She has published a number of publications in peer-reviewed journals, which concentrate on virus diagnosis, viral pathogenesis, immunity to viral infection and molecular virology. Her research focuses on the emergence and re-emergence of viral zoonoses, especially dengue viruses as they have the potential to cause serious human health and economic impacts with their current upward trends likely to continue.

Research areas

- ▼ Dengue
- ▼ Zika
- ▼ Influenza
- ▼ Rabies
- ▼ Viral diseases

Amornrat Aroonnuat, Ph.D.



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Dr. Amornrat Aroonnuat is a Lecturer in the Department of Tropical Nutrition and Food Science. She received her Ph.D. in Biotechnology from Mahidol University, Thailand. She is among researchers within the Faculty whose research targets probiotic bacteria and food-borne pathogens.

Research expertise

Dr. Amornrat is expert in food microbiology, molecular biology, food safety and biotechnology. Her research activities include studies on screening and identification of antimicrobial compounds from bacteria. She is highly proficient in the study of probiotic bacteria including their inhibitory effects against food-borne pathogens.

Research areas

- ▼ Food safety
- ▼ Biotechnology
- ▼ Bacteriology

Athit Phetrak, Ph.D.



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Dr. Athit Phetrak is a faculty member in the Department of Social and Environmental Medicine. He obtained his B.Sc. in Public Health from Mahidol University, M.Sc. in Environmental Technology and Management from the Asian Institute of Technology, Thailand, and his Ph.D. in Environmental Engineering from the University of Tokyo, Japan. He was a postdoctoral research fellow in the Urban Water Systems Laboratory, University of Tokyo, Japan. Dr. Athit teaches students in the Diploma, M.Sc. and Ph.D. programs of the Bangkok School of Tropical Medicine.

Research expertise

Dr. Athit is a specialist in research evaluating water quality and drinking water systems. His research focuses on controlling the contaminants and chemicals in drinking water, which can reduce the potential cause of cancers and other diseases. His expertise also includes water treatment technologies, health risk assessment of chemical contaminants in water, and environmental management.

Research areas

- ▼ Drinking water
- ▼ Defluoridation
- ▼ Diarrhea
- ▼ Water treatment

Borimas Hanboonkunupakarn, Ph.D., M.D., D.T.M. &H.



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Research expertise

Dr. Borimas is an expert in clinical trials, and the pharmacokinetics of anti-malarial drugs. She has a broad background in vector-borne infectious diseases, such as dengue, in which she studies the factors affecting clinical manifestations of the disease.

Research areas

- ▼ Malaria
- ▼ Dengue
- ▼ Other tropical diseases such as scrub typhus

Charin Thawornkuno, Ph.D.

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Dr. Charin Thawornkuno is a Lecturer in the Department of Molecular Tropical Medicine and Genetics. He received his B.Sc. and M.Sc. degrees in Biotechnology from Mahidol University, Thailand and completed his Ph.D. in Applied Bioscience at Hokkaido University Japan. He is actively involved in research in the Department and teaches at the Bangkok School of Tropical Medicine.

Research of Interest

Dr. Charin's research expertise is the molecular biology of cancer. His specialization includes the study of useful compounds for food additives. He is especially interested in investigating the growth effect of cholangiocarcinoma cell lines treated with isoflavones and its derivatives.

Research of area

- ▼ Cancer

Chawarat Rotejanaprasert, Ph.D.



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Dr. Chawarat Rotejanaprasert is a Lecturer in the Department of Tropical Hygiene. He received his Ph.D. in Biostatistics from the Medical University of South Carolina, USA, with a focus on spatial epidemiology. He is involved in research in the Department and teaching at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Chawarat is an expert in Bayesian biostatistics modeling and spatial epidemiology. His research interests include statistical developments in epidemiological applications, especially in spatial epidemiology and surveillance.

Research areas

- ▼ Malaria
- ▼ Dengue

Chayasin Mansanguan, M.D.



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Dr. Chayasin Mansanguan is a Lecturer in the Department of Clinical Tropical Medicine. She holds a diploma from the Thai Board of Internal Medicine, Chulalongkorn University and diploma from the Thai Board of Cardiology Medicine, Phramongkutklao Hospital, Thailand. She works in the Hospital for Tropical Diseases as a cardiologist and is actively involved in teaching and research.

Research expertise

Dr. Chayasin's expertise includes tropical cardiology, dengue, and general cardiology. She is the Head of Cardiovascular Research Unit, Faculty of Tropical Medicine, Mahidol University.

Research areas

- ▼ Cardiology diseases
- ▼ Travel medicine
- ▼ Tropical diseases especially dengue fever

Janjira Thaipadungpanit, Ph.D.



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Dr. Janjira Thaipadungpanit is a Lecturer in the Department of Clinical Tropical Medicine. She graduated with a B.Sc. in Biotechnology from King Mongkut's Institute of Technology Ladkrabang and an M.Sc. in Molecular Genetics and Genetic Engineering from Mahidol University. She received her Ph.D. in Life and Biomolecular Sciences from The Open University, Milton Keynes, United Kingdom. She is involved in the Department and teaching at the Bangkok School of Tropical Medicine.

Research expertise

Dr Janjira is an expert in the molecular epidemiology and diagnosis of infectious diseases. She has developed multi-locus sequence typing (MLST) scheme #1 of pathogenic *Leptospira* species. Currently, she curates the MLST database (<https://pubmlst.org/leptospira/>). She studies the etiology of community acquired sepsis and acute fever patients in Thailand and Southeast Asia using qPCR. She also studies the epidemiology of tropical infectious disease including leptospirosis and melioidosis in Thailand. Her new project focuses on developing and evaluating a rapid molecular tool to identify drug-resistant TB using next generation sequencing in provincial and rural hospitals in Thailand.

Research areas

- ▼ Tropical infectious disease such as leptospirosis, scrub typhus, murine typhus & melioidosis
- ▼ Tuberculosis

Khuanchai Koompapong, M.D., Ph.D.



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Dr. Khuanchai Koompapong is a Lecturer in the Department of Protozoology. He obtained his B.Sc. in Public Health from Khon Kaen University. He has a Ph.D. in Tropical Medicine from Mahidol University, and a Medical Doctor degree from the Faculty of Medicine Ramathibodi Hospital, Mahidol University. He teaches Diploma, M.Sc., and Ph.D. students at the Bangkok School of Tropical Medicine. He is involved in research in his Department.

Research expertise

Dr. Khuanchai is an expert in the life sciences, particularly the molecular epidemiology of *Cryptosporidium spp.* He is experienced in utilizing molecular techniques for the diagnosis of intestinal protozoa and opportunistic protozoa. He is especially interested in understanding the zoonotic and environmental transmission of intestinal protozoa and the clinical aspects of parasitic infection.

Research area

- ▼ Parasitology
- ▼ Clinical research

Kittipong Chaisiri, Ph.D.



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Dr. Kittipong Chaisiri is a Lecturer in the Department of Helminthology. Although not working solely with helminths, Dr. Kittipong sees helminths playing an important role in answering his main research question on diversity: from ecological parasitism in a changing environment, diversity of host and parasite, habitat, as well as cultural diversity and local perception in the human community. He wants to find out how biodiversity links to people's health, particularly on a local scale.

He has a Ph.D. in Infection and Global Health from the University of Liverpool, United Kingdom.

Research expertise

Dr. Kittipong is an expert in rodent-borne diseases, helminth systematic and taxonomy, parasite diversity and ecology, and microbiome analysis. His research focuses on rodent-borne diseases, including microparasites (e.g., bacterial and viral diseases) and macroparasites (e.g., helminths and ectoparasites) carried by wild rodents in Southeast Asia.

Research areas

- ▼ Helminthiases
- ▼ Scrub typhus
- ▼ Leptospirosis

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Dr. Lapakorn Chatapat is a Lecturer in the Department of Clinical Tropical Medicine and a physician at the Thai Travel Clinic in the Hospital for Tropical Diseases. She was awarded her M.D. degree from Srinakharinwirot University, Thailand. She holds a Diploma in Tropical Medicine and Hygiene, Master of Clinical Tropical Medicine, and a Diploma of Thai Board of Preventive Medicine (Travel Medicine) from Mahidol University.

Research expertise

Dr. Lapakorn is an expert in travel medicine.

Research area

- ▼ Tropical medicine

Matthew Phanchana, Ph.D.



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Dr. Matthew Phanchana is a Lecturer in the Department of Molecular Tropical Medicine and Genetics. He obtained his B.Sc. in Biology from Mahidol University, Thailand and Ph.D. in Tropical Medicine from the Liverpool School of Tropical Medicine, United Kingdom. He teaches Diploma, M.Sc. and Ph.D. students at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Matthew is an expert in proteomics, biology and biochemistry of malaria parasites, and antimalarial mechanism of action and resistance. His research focuses are drug discovery and mechanism for multidrug resistant anaerobic bacteria, and target identification and mechanism of action and resistance of artemisinin drug in *Plasmodium* parasites. He is also working on the development of new tools for tuberculosis diagnosis.

Research areas

- ▼ Malaria
- ▼ *Clostridium difficile* infection

Pannamas Maneekan, Ph.D.



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Dr. Pannamas Maneekan is a Lecturer in the Department of Tropical Hygiene. She has a B.Sc. in Nursing, an M.Sc. degree in Community Medicine from Chulalongkorn University and a Ph.D. degree in Tropical Medicine from Mahidol University. She teaches students in M.Sc. and Ph.D. courses at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Pannamas is teaching and researching based mainly on community-based approaches and interdisciplinary perspectives in public health and school health research, education, and training. In particular, the focus is radically on field training and practices that employ quantitative and qualitative methods, as well as triangulation, used in collections of data, information, and samples.

Research areas

- ▼ Dengue
- ▼ Malaria
- ▼ School health

Pimphen Charoen, Ph.D.



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Dr. Pimphen Charoen is a Lecturer in the Department of Tropical Hygiene. She was awarded a Ph.D. in Statistical Genetics by Imperial College London for research into the role of genetic variation of complex diseases in human as well as different approaches to improve related analyses. After her Ph.D, she took up positions as a research fellow at the London School of Hygiene and Tropical Medicine (LSHTM) and a research associate at the University College London (UCL), where she investigated the underlying genetics of the metabolome, and examining the causal effect of various modifiable exposures, including kidney-function and metabolic measures on cardiovascular related diseases using genetics as an instrument. In 2017, she took up a lectureship at the Faculty of Tropical Medicine, Mahidol University, Thailand. She has continued her work to investigate the causal effect of modifiable exposures on coronary heart disease under Mahidol research funding, and recently broadened her research to investigate the causal effect of modifiable exposures on heart failure with the support of the Thailand Research Fund.

Research interest

Dr. Pimphen's research interests include the genetic epidemiology of complex diseases, analysis of genome-wide association scans, combining genome-wide association studies by meta-analysis, and causal inference by Mendelian randomization. She has published a number of studies in international peer-reviewed journals, many of which aim to further understanding of genetic-related diseases in humans.

Research areas

- ▼ Genetic epidemiology
- ▼ Analysis of genome-wide association scans
- ▼ Causal inference by Mendelian randomization

Pornrutsami Jintaridhi, Ph.D.



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Dr. Pornrutsami Jintaridhi is a Lecturer in the Department of Tropical Nutrition and Food Science. She received her M.Sc. in Nutrition and Ph.D. in Biochemistry from Mahidol University, Thailand. She teaches students in the Diploma, M.Sc. and Ph.D. programs of the Bangkok School of Tropical Medicine in topics related to tropical nutrition and food science.

Research expertise

Dr. Pornrutsami is a biochemistry and nutrition specialist. She has special interests in nutritional biochemistry, nutritional epidemiology, community nutrition, clinical nutrition, and molecular biosciences.

Research areas

- ▼ Aging
- ▼ Metabolic syndrome
- ▼ Degenerative diseases

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Dr. Prakaykaew Charunwatthana is a Lecturer in the Department of Clinical Tropical Medicine. She is involved in research in the Department and teaching at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Prakaykaew is expert in clinical trials, malaria, and scrub typhus.

Research areas

- ▼ Malaria
- ▼ Rickettsial infections
- ▼ Parasitic infections
- ▼ Other tropical diseases

Rachatawan Chiabchalard, M.Sc.



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Ms. Rachatawan Chiabchalard is a Lecturer in the Department of Protozoology. She received her M.Sc. in Biology from Oregon State University, USA. She teaches students enrolled in M.Sc. and Ph.D. courses at the Bangkok School of Tropical Medicine on topics related to Medical Protozoology. She is also actively involved in Department research.

Research expertise

Ms. Rachatawan is an expert in intestinal protozoa, free-living amoeba in the environment, and protozoa contamination in fruits and vegetables.

Research area

- ▼ Diarrhea

Salin Sirinam, M.D.



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Dr. Salin Sirinam is a Lecturer in the Department of Tropical Pediatrics. She was awarded her Doctor of Medicine degree by Mahidol University. She holds a Diploma of the Thai Board of Pediatrics and Diploma of Thai Subspecialty Board of Pediatric Nephrology. She works at the Hospital for Tropical Diseases and is involved in teaching and research.

Research expertise

Dr. Salin is an expert in pediatrics and nephrology, with a special interest in tropical kidney and infectious diseases. She has extensive training experience in both government and academic hospitals. She completed her pediatrics residency at Chonburi Hospital, Ministry of Public Health, Thailand and was trained at the Pediatric Nephrology Division, King Chulalongkorn Memorial Hospital, Chulalongkorn University where her work and research focused on acute kidney injury. In 2018 she received a grant to be a visitor at the Nephrology Department, Children's Medical Center Dallas, USA and gained more experience in kidney dialysis. Currently, she is involved in drug and vaccine trials in the Department of Tropical Pediatrics and working on projects studying dengue in children. With other Faculty researchers, she is also expanding her research areas into the clinical utility of novel markers in melioidosis.

Research areas

- ▼ Tropical kidney diseases
- ▼ Tropical infectious diseases

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Dr. Sant Muangnoicharoen is a Lecturer in the Department of Clinical Tropical Medicine. He has a Doctor of Medicine degree and Thai Board of Internal Medicine Diploma from Chiang Mai University. He also holds a Diploma in Tropical Medicine and Hygiene from Mahidol University. He received his Ph.D. in Clinical Pharmacology from the Liverpool School of Tropical Medicine, United Kingdom. He works in the Hospital for Tropical Diseases and is involved in teaching and research.

Research expertise

Dr. Sant is a medical doctor working in general medicine and infectious diseases. His expertise includes internal medicine, pharmacology, pharmacokinetics and pharmacodynamics of antimalarial drugs, and vaccinology.

Research areas

- ▼ Malaria
- ▼ Dengue
- ▼ HIV
- ▼ Influenza

Sarunya Kaewprasert, Ph.D.



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Dr. Sarunya Kaewprasert is a Lecturer in the Department of Tropical Nutrition and Food Science. She is involved in research in the Department and teaching at the Bangkok School of Tropical Medicine. She obtained her M.Agr. and Ph.D. degrees in Nutritional Biochemistry from Hokkaido University, Japan.

Research expertise

Dr. Sarunya is a nutrition specialist with research focusing on Thai elderly health and role for body acupuncture and auricular acupressure in the treatment of obesity. She has special interest in community nutrition, biochemical nutrition, food science and biotechnology.

Research areas

- ▼ Non-communicable diseases
- ▼ Nutrition

Suangsuda Supasai, Ph.D.



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Research expertise

Dr. Suangsuda specializes in the molecular basis of neurological diseases during development and neurodegeneration caused by toxic chemicals. She has a broad background in pathophysiology of the central nervous system in a rodent model, as well as experience in cell culture model.

Research area

- ▼ Neurobiology

Sungsit Sungvornyothin, Ph.D.



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Dr. Sungsit Sungvornyothin is a Lecturer in the Department of Medical Entomology. He has a B.Sc. in Biology and an M.Sc. in Environmental Biology from Mahidol University. He pursued his Ph.D. in Entomology at Kasetsart University. He is actively involved in research in the Department and also teaches at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Sungsit's research expertise is medical entomology, with special focus on vector control and insecticide resistance management. He is very interested in mosquito ecology and the molecular identification of medical insects.

Research areas

- ▼ Dengue
- ▼ Malaria
- ▼ Scrub typhus
- ▼ Arbovirus
- ▼ Vector-borne disease

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Dr. Supachai Topanurak is a Lecturer in the Department of Tropical Medicine and Genetics. He obtained his B.Sc. in Biochemical Technology and Ph.D. in Proteomics and Protein Chemistry from Chiang Mai University, Thailand. He completed his postdoctoral fellowship at the National Heart, Lung and Blood Institute, National Institutes of Health, Bethesda, Maryland, USA. He is involved in research in the Department and teaching at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Supachai's research expertise is protein chemistry and proteomics. He has extensive experience in the proteomics of bacteria and mammalian cell line, with special training on cellular and molecular biology combined with proteomic approaches. His specializations include bioinformatics for protein, systems biology, and mass spectrometry for proteomics. He is also interested in antimicrobial resistance and infectious disease-related cancers.

Research areas

- ▼ Viral infections
- ▼ Mosquito-borne diseases
- ▼ Antimicrobial resistance
- ▼ Infectious disease-related cancers

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Dr. Suparat Phuanukoonnon is a Lecturer in the Department of Social and Environmental Medicine. She received her B.Sc. in Nursing from Boromarajonani College of Nursing Lampang, Thailand. She has a Master of Health Science in Environmental Health degree from the Queensland University of Technology, Australia, and a Ph.D. in Tropical Health Program from the University of Queensland, Australia. She pursued her postdoctoral research fellowship at the Papua New Guinea Institute of Medical Research, Walter and Eliza Hall Institute of Medical Research, Australia, Australian Institute of Tropical Health and Medicine and Mahidol Vivax Research Unit, Mahidol University, Thailand.

Research expertise

Dr. Suparat has extensive experience in conducting medical research in Papua New Guinea, Australia, and Thailand. Her expertise include social epidemiology, mixed-methods research, and health intervention evaluation. She has a strong background in conducting community infectious diseases evaluation projects in rural communities in Thailand. These include evaluation of intestinal infection among pre-school children, weaning practices and nutrition survey, dengue larval control practices in households, and school health promotion including dental health and water, sanitation and hygiene (WASH). Another focus of her research is the evaluation of community and health-system readiness for malaria elimination projects in Thailand and bordering countries.

Research areas

- ▼ Dengue
- ▼ Malaria
- ▼ Pneumonia
- ▼ TB
- ▼ Nutrition and child health

Supitcha Kamolratanakul, M.D.



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Dr. Supitcha Kamolratanakul is a Lecturer in the Department of Clinical Tropical Medicine. She works in the Hospital for Tropical Diseases and involved in teaching and research. She received her M.D. degree (honors) from the Faculty of Medicine Chulalongkorn University, Bangkok, Thailand.

Research expertise

Dr. Supitcha is a Board-certified dermatologist with expertise on all skin diseases, especially skin infection and infestations, sexually transmitted diseases, and common skin diseases.

Research area

- ▼ Scabies
- ▼ Pediculosis
- ▼ Insect bites
- ▼ Syphilis
- ▼ Gonorrhea
- ▼ HPV infection
- ▼ Dermatophytosis

Thipruethai Phanitchat, Ph.D.



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Dr. Thipruethai Phanitchat is a Lecturer in the Department of Medical Entomology. She is involved in research and teaching. She teaches M.Sc. and Ph.D. students at the Bangkok School of Tropical Medicine. She earned her B.Sc. in Medical Technology (first class honors, gold medal) from Huachiew Chalermprakiet University, Thailand and Ph.D. in Tropical Medicine (first class honors, gold medal) from Mahidol University. She was a post-doctoral researcher and project leader of DENGUE-INDEX, Department of Microbiology, Faculty of Medicine, Khon Kaen University, Khon Kaen, Thailand.

Research expertise

Dr. Thipruethai's research expertise include vector control, epidemiology, and disease surveillance. She has a special interest in vector-borne diseases such as dengue. Examples of her research works comprise spatio-temporal analysis of dengue and seasonal variation and prediction model of dengue in Thailand. She has a broad background in principles and applications of Real-time PCR (Mastercycler® ep realplex, Eppendorf) and primer design, and is experienced in population genetic analysis.

Research areas

- ▼ Dengue
- ▼ Vector-borne diseases
- ▼ Arthropod-borne virus (arbovirus)

Thundon Ngamprasertchai, M.D., Ph.D.



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Dr. Thundon Ngamprasertchai is a Lecturer in the Department of Clinical Tropical Medicine. He obtained his Doctor of Medicine First-class honors degree and Thai Board of Infectious Diseases Diploma from Mahidol University. He holds a Higher Graduate Diploma in Clinical Medical Sciences and Thai Board of Internal Medicine Diploma from Khon Kaen University, Thailand. He also completed his Certificate of Knowledge in Clinical Tropical Medicine and Travelers' Health by ASTMH and certificate of Introduction to Clinical Research Training (ICRT) from Harvard Medical School. He is now studying for a Ph.D. in Clinical Epidemiology at Mahidol University. He works in the Hospital for Tropical Diseases and is involved in teaching, infectious disease consultation and research.

Research expertise

Dr. Thundon's research specializes in general infectious diseases and tropical infections, these include drug-resistant bacteria, tuberculosis and vaccine. He is also a travel medicine expert on traveler's health and immunization.

Research areas

- ▼ Drug resistant bacteria
- ▼ Tuberculosis
- ▼ Adult immunization

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Dr. Wasin Matsee is a Lecturer in the Department of Clinical Tropical Medicine. He obtained his Doctor of Medicine degree from Chiang Mai University. He completed his Master of Clinical Tropical Medicine degree at Mahidol University and holds a Diploma of the Thai Board of Preventive Medicine (Travel Medicine) from the Thai Medical Council. Dr. Wasin works mainly in the Hospital for Tropical Diseases including the travel and fever clinics, and is involved in teaching travel medicine to residents, infectious diseases fellows and international visiting elective doctors. His research interest mostly involve the field of travel medicine.

Research expertise

Dr. Wasin is a travel medicine specialist with research emphasis on travel-related diseases, travel medicine, clinical tropical medicine, and high-altitude medicine.

Research areas

- ▼ Travel medicine
- ▼ Travel related diseases
- ▼ Clinical tropical medicine

Wirongrong Chierakul, M.D., Ph.D.



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Dr. Wirongrong Chierakul is a Lecturer in the Department of Clinical Tropical Medicine and a physician at the Hospital for Tropical Diseases. She has a Doctor of Medicine degree and a Graduate Diploma in Clinical Science, both from Mahidol University, Thailand. She actively teaches and supervises graduate and postgraduate students at the Bangkok School of Tropical Medicine.

Research expertise

Dr. Wirongrong is an expert in infectious diseases, with special interests in melioidosis, leptospirosis, scrub typhus, and tuberculosis. She has broad experience in conducting clinical trials, having led and been involved in a number of clinical trials during her tenure at the Faculty of Tropical Medicine, Mahidol University. Dr. Wirongrong is regarded as one of the top melioidosis authorities within Thailand.

Research areas

- ▼ Melioidosis
- ▼ Leptospirosis
- ▼ Scrub typhus
- ▼ Tuberculosis

Wanlapa Roobsoong, Ph.D.



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Dr. Wanlapa Roobsoong is a researcher in Mahidol Vivax Research Unit (MVRU). She has a Ph.D. in Medical Technology from Mahidol University. She leads a team in MVRU that focuses on G6PD deficiency and cell biology studies. Her research investigates the molecular mechanism of gametocytogenesis and hypnozoite formation of *P. vivax* with an emphasis on discovering new antimalarial drugs and vaccines. She led the invention of a product called *Young Blood*, a ready-to-use reticulocyte-like cell generated from immortalized erythroid progenitor. Young red blood cells are required for *in vitro* culture of *P. vivax*, which is crucial for drug and vaccine development.

Research expertise

Dr. Wanlapa has a broad background in medical technology, malaria biology especially *Plasmodium vivax*, with specific training on proteome analysis, *in vitro* culture of malaria parasites, image analysis of parasites by high resolution fluorescence microscopy, membrane feeding, and flow cytometry analysis. Her research includes the development of an *in vitro* culture system for *P. vivax*, the development of an *in vitro* invasion inhibition assay of *P. vivax* for vaccine screening, characterization of the gametocytogenesis of *P. vivax*, and transcriptomes and proteomes of the erythrocytic stage of *P. vivax* including the gametocyte.

Research area

- ▼ Malaria

Apanchanid Thepouyporn, Ph.D.



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Dr. Apanchanid Thepouyporn is a researcher in the Department of Tropical Nutrition and Food Science. She obtained her B.Sc. in Agriculture from King Mongkut's Institute of Technology Ladkrabang, Thailand. Her M.Sc. in Biopharmaceutical Sciences and a Ph.D. in Phytopharmaceutical Sciences, were awarded by Mahidol University, Thailand.

Research expertise

Dr. Apanchanid's research specialization focuses on evaluating the effects of nutrition on a person's health. She has an extensive experience in molecular biology, protein purification, determination of vitamins B1; B2; B6 and folate in serum and whole blood, and cell culture cytotoxicity assay.

Research area

- ▼ Malnutrition

Jetsumon Prachumsri, Ph.D.



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Dr. Jetsumon Prachumsri is Head of the Mahidol Vivax Research Unit (MVRU). Her primary research area is the biology and transmission of malaria with emphasis on *Plasmodium vivax*. This includes studies of the mosquito vectors, establishing *in vitro/ex vivo* systems and conducting research to support the development of new drugs and vaccines. Dr. Jetsumon is a key opinion leader on malaria elimination.

Research expertise

Dr. Jetsumon Sattabongkot Prachumsri has over 30 years' experience in malaria research, working with endemic populations in Asia (Thailand, Myanmar, China and Korea). She is world-renowned for malaria transmission studies, especially for *P. vivax*, the most prevalent species in the GMS and non-African countries, and which will be more challenging to eliminate. She has led the first field trial on ivermectin for malaria elimination in Asia and is Co-director of the ICEMR Southeast Asian Study in Thailand and Myanmar. Both studies have explored the baseline epidemiology of malaria transmission in >30,000 people in >6 transmission provinces in Thailand and Myanmar. She has collaborated with many researchers and helped build the capacity of those needing to improve their skills in malaria research and to build the capacity of insectary staff to work on malaria transmission in local vector species.

Research area

- ▼ Malaria

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Dr. Panee Chaksangchaichot is a researcher in the Department of Molecular Tropical Medicine and Genetics where she is actively involved in research. She has a Ph.D. in Tropical Medicine from Mahidol University, Thailand.

Research expertise

Molecular biology encompasses Dr. Panee's expertise.

Research area

- ▼ Cancer

Rapatbhorn Patrapuvich, Ph.D.



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Dr. Rapatbhorn Patrapuvich currently heads the Drug Research Unit for Malaria (DRUM) which specializes in new approaches for drug discovery and improved understanding of drug resistance evolution in malaria parasites. Dr. Rapatbhorn obtained her B.Sc. in Biochemistry from Chulalongkorn University and her M.Sc. and Ph.D. in Biochemistry from the Faculty of Science, Mahidol University, Thailand. Dr. Rapatbhorn received advanced training in malaria genetics and malaria pharmacology in two laboratories: The Yuthavong Lab at BIOTEC in Bangkok, Thailand, and the Rathod Lab at the University of Washington, in Seattle, WA, USA.

Research expertise

Dr. Rapatbhorn's early research focused on applying functional genomic tools such as spotted DNA microarrays, comparative genomic hybridization, and next-generation sequencing to understand gene regulation and mechanisms of drug resistance in malaria parasites. After joining Mahidol University in 2012 as a lead scientist of a liver-stage lab at Mahidol Vivax Research Unit, she successfully developed a novel in vitro *P. vivax* liver-stage model, which is utilized for screening anti-liver stage compounds provided by the Medicines for Malaria Venture (MMV).

In 2017, Dr. Rapatbhorn was appointed as the Head and Principle Investigator of the newly established "Drug Research Unit for Malaria (DRUM)" at Mahidol University. Her research focuses on the discovery and development of new antimalarial drugs. She recently received a NIH-USJCMSP Award used to establish a new system that will enrich *P. vivax* hypnozoites in vitro for anti-relapse assays. In addition, Dr. Rapatbhorn also supports the NIH International Center of Excellence for Malaria Research (ICEMR) for South Asia by establishing methods for the study of sporozoite production in Indian mosquitoes, liver-stage infections with Indian sporozoites and production of merozoites from liver cells. She has established drug assays to study multiple stages of malaria parasite development used to evaluate susceptibility and resistance to antimalarial control measures.

Research areas

- ▼ Malaria gene regulation
- ▼ Malaria genetics
- ▼ Malaria pharmacology
- ▼ Drug resistance

Sadudee Chotirat, Ph.D.



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Dr. Sadudee Chotirat is a researcher in Mahidol Vivax Research Unit (MVRU). She obtained her Ph.D. in Immunology from the Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand.

Research expertise

Dr. Sadudee's research expertise is immunology and biology, with particular interest in *Plasmodium vivax* malaria. Her current research focuses on understanding the human immune response to malaria by using novel surveillance tools and serological markers to identify malaria transmission.

Research areas

- ▼ Malaria (*Plasmodium vivax*)
- ▼ Leukemia

Sarunporn Tandhavanant, Ph.D.



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Dr. Sarunporn Tandhavanant is a researcher in the Department of Microbiology and Immunology. She has a B.Sc. in Medical Technology and M.Sc. in Immunology, both from Mahidol University. She obtained her Ph.D. in Medical Science from the Graduate School of Medicine, Osaka University, Osaka, Japan.

Research expertise

Dr. Sarunporn has a special interest in the molecular biology of bacteria, particularly the *Burkholderia pseudomallei* and *Vibrio parahaemolyticus*. She is involved in research activities in the Department of Microbiology and Immunology related to melioidosis and *V. parahaemolyticus*.

Research areas

- ▼ Melioidosis
- ▼ *Burkholderia pseudomallei*
- ▼ *Vibrio parahaemolyticus*
- ▼ Type 3 secretion system

Surapon Yimsamran, Ph.D.



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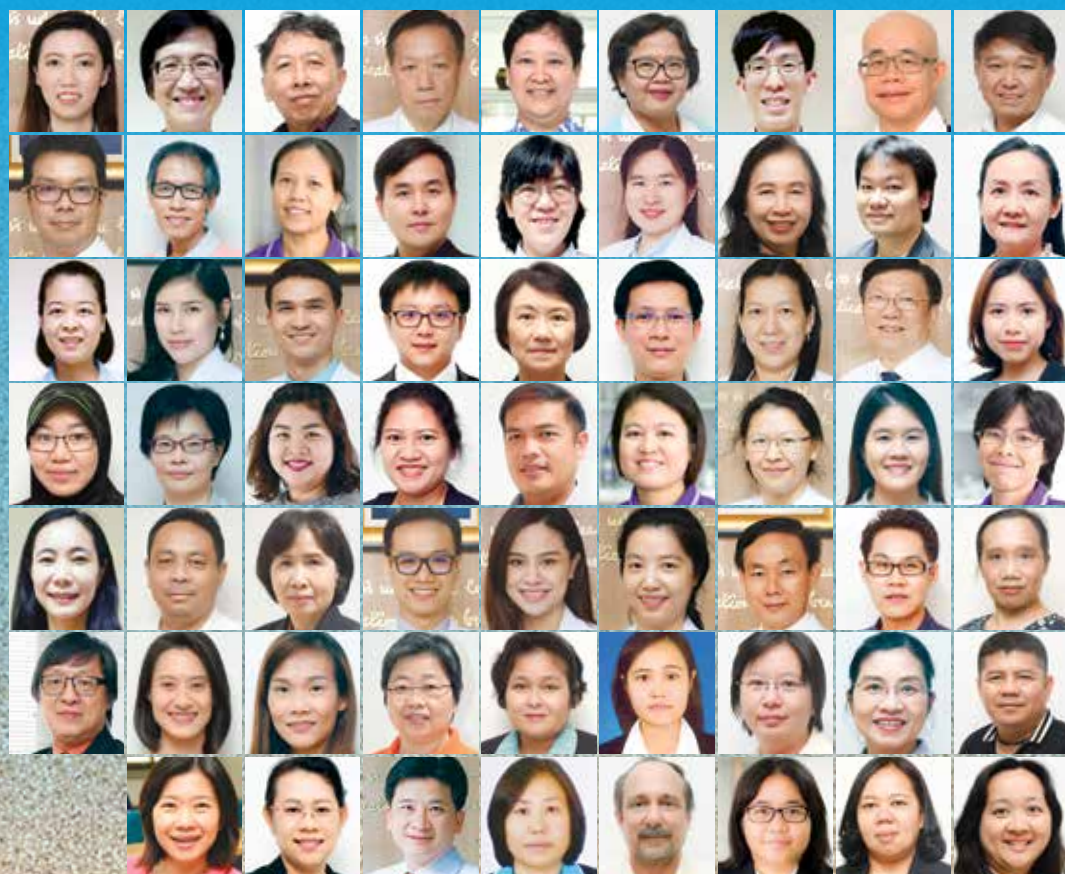
Dr. Surapon Yimsamran is a researcher in the Department of Tropical Hygiene. He received his B.Ed. in Biology from Srinakharinwirot University, M.Sc. in Epidemiology from Mahidol University, and Ph.D. in Geoinformatics from Suranaree University of Technology, Thailand. Dr. Surapon also holds a B.Ag. Degree in Agricultural Extension from Sukhothai Thammathirat Open University.

Research expertise

Dr. Surapon specializes in GIS and remote sensing for epidemiology studies of tropical diseases, with emphasis on malaria, helminthiasis, and ectoparasitic infestation. He is actively involved in several epidemiological studies conducted by colleagues at the Faculty of Tropical Medicine, Mahidol University.

Research areas

- ▼ Malaria
- ▼ Helminthiasis
- ▼ Ectoparasitic infestation



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