

**Dr. Poom Adisakwattana**

Professor

Mahidol University, Thailand

---

**A. Personal Statement**

I have more than ten years' experience in the fields of molecular helminthology and immunology. I earned my PhD in Biomedical Sciences with a thesis focused on "Molecular identification and characterization of asparaginyl endopeptidase encoding genes from *Fasciola gigantica*". After graduation, I was a Postdoc researcher in the Inflammation and Immunity group, Trinity College Dublin, Republic of Ireland. At that time, I worked on "Identification and characterization of active biomolecules secreted from *S. mansoni* that can modulate host immune responses". Since starting my career as lecturer at the Department of Helminthology, Faculty of Tropical Medicine, Mahidol University, I have been PI, Co-investigator and supervisor on several projects associated with molecular helminthology with more interest in proteases and protease inhibitors.

**B. Positions and Honors**

- |            |   |
|------------|---|
| Since 2017 | Associate Professor, Department of Helminthology, Faculty of Tropical Medicine, Mahidol University, Thailand  |
| 2013-2017  | Assistant Professor, Department of Helminthology, Faculty of Tropical Medicine, Mahidol University, Thailand  |
| 2010-2013  | Lecturer, Department of Helminthology, Faculty of Tropical, Medicine, Mahidol University, Thailand  |
| 2012       | Short-term research fellow, Comprehensive Pneumology Center (CPC), Helmholtz Center Munich, Munich, Germany (Deutscher Akademischer Austausch Dienst: DAAD) |
| 2008-2009  | Postdoctoral Fellow, Trinity College Dublin, Republic of Ireland  |
| 2003-2004  | Postgraduate Associate Scholarship in Institut fuer Genetik, Freie Universitaet, Berlin, Germany (Deutscher Akademischer Austausch Dienst: DAAD)            |

### **C. Publications**

#### Selected Books and Book Chapters

1. Adisakwattana P, Saunders S, Nel HJ, Fallon PG. Helminth-derived immunomodulatory molecules; In Pathogen-derived immunomodulatory molecules; Padraic G. Fallon (ed.), 95-104. New York: Landes Bioscience; 2009.

#### Selected Original Articles

1. Yoonuan T et al. Molecular and immunological characterization of cathepsin L-like cysteine protease of *Paragonimus pseudoheterotremus*. Parasitol Res. 2016 Aug 26. [Epub ahead of print] PubMed PMID: 27562899.
2. Greiman SE et al. Real-time PCR detection and phylogenetic relationships of *Neorickettsia* spp. in digeneans from Egypt, Philippines, Thailand, Vietnam and the United States. Parasitol Int. 2016;pii: S1383-5769(16):30167-2.
3. Pakchotanon P et al. Molecular characterization of serine protease inhibitor isoform 3, SmSPI, from *Schistosoma mansoni*. Parasitol Res. 2016;115(8):2981-94.
4. Sagnuankiat S et al. Health status of immigrant children and environmental survey of child daycare centers in Samut Sakhon province, Thailand. J Immigr Minor Health. 2016;18(1):21-7.
5. Kosoltanapiwat N et al. Genetic variations in regions of bovine and bovine-like enteroviral 5'UTR from cattle, Indian bison and goat feces. Virol J. 2016;13(1):13.
6. Molee P et al. Up-regulation of AKAP13 and MAGT1 on cytoplasmic membrane in progressive hepatocellular carcinoma: a novel target for prognosis. Int J Clin Exp Pathol. 2015;8(9):9796-811.
7. Phuphisut O et al. Molecular identification of the strongyloid nematode *Oesophagostomum aculeatum* in the Asian wild elephant *Elephas maximus*. J Helminthol. 2015;27:1-7.
8. Adisakwattana P et al. ALCAM is a novel cytoplasmic membrane protein in TNF- $\alpha$  stimulated invasive cholangiocarcinoma cells. Asian Pac J Cancer Prev. 2015;16(9):3849-56.
9. Kobylinski KC et al. Rationale for the coadministration of albendazole and ivermectin to humans for malaria parasite transmission control. Am J Trop Med Hyg. 2014;91(4):655-62.
10. Phuphisut O et al. Triplex polymerase chain reaction assay for detection of major soil-transmitted helminths, *Ascaris lumbricoides*, *Trichuris trichiura*, *Necator americanus*, in fecal samples. Southeast Asian J Trop Med Public Health. 2014;45(2):267-75.
11. Dusitsittipon S et al. Genetic differences in the rat lungworm, *Angiostrongylus*

- cantonensis* (Nematoda: Angiostrongylidae), in Thailand. J Helminthol. 2015;89(5):545-51.
12. Maneewatch S et al. Therapeutic epitopes of *Leptospira* LipL32 protein and their characteristics. Protein Eng Des Sel. 2014;27(5):135-44.
  13. Adisakwattana P et al. Non-encapsulated *Trichinella* spp., *T. papuae*, diminishes severity of DSS-induced colitis in mice. Asian Pac J Allergy Immunol. 2013;31(2):106-14.
  14. Adisakwattana P et al. Degradation of human matrix metalloprotease-9 by secretory metalloproteases of *Angiostrongylus cantonensis* infective stage. Southeast Asian J Trop Med Public Health. 2012;43(5):1105-13.
  15. Nuamtanong S et al. Evaluation of recombinant serine protease inhibitor from *Trichinella spiralis* for immunodiagnosis of swine trichinosis. Southeast Asian J Trop Med Public Health. 2012;43(5):1094-104.
  16. Aunpad R et al. The effect of mimicking febrile temperature and drug stress on malarial development. Ann Clin Microbiol Antimicrob. 2009;8:19.
  17. Adisakwattana P et al. Comparative molecular analysis of two asparaginyl endopeptidases and encoding genes from *Fasciola gigantica*. Mol Biochem Parasitol. 2007;156(2):102-16.
  18. Grams R et al. The saposin-like proteins 1, 2, and 3 of *Fasciola gigantica*. Mol Biochem Parasitol. 2006;148(2):133-43.

#### **D. Research Support (selected)**

- Short-Term Fellowship from the “Deutcher Akademischer Austausch Dienst: DAAD” (Germany) in 2012
- Fellowship from the “Science Foundation Ireland” (Ireland) in 2008
- Ph.D. sandwich scholarship from the “Deutcher Akademischer Austausch Dienst: DAAD” (Germany) in 2003
- Royal Golden Jubilee Ph.D. scholarship from the “Thailand Research Fund” (Thailand) in 2001