CURRICULUM VITAE

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EDUCATION

Bachelor of Science (Medical Technology) (1987), Chiang Mai University

Master of Science (Biochemistry) (1997), Mahidol University

Doctor of Philosophy (Biochemistry) (2003), Mahidol University

RESEARCH INTERESTS

- The mechanism of antimalarial drugs
- Heme toxicity

AWARD

- Graduate student fellowship from Haugland Foundation, USA, 2000-2001.
- Graduate Thesis Publication Award from Mahidol University 2003

RESEARCH GRANT

- Principal Investigator, The Thailand Fund New Researcher Grant, 2004-2006.
- Principal Investigator, Mahidol University Research Grant, 2007-2008.

TRAVEL GRANT

- The International Association of Forensic Toxicologists (TIAFT) Travel Grant to attend the 43rd Annual Scientific Meeting of The International Association of Forensic Toxicologists (TIAFT), Seoul, South Korea, August 29 to September 2, 2005.

- Medicines for Malaria Venture (MMV) Travel Grant to attend the 55th Annual Meeting of

The American Society of Tropical Medicine and Hygiene, Atlanta, Georgia, USA, 12-16 November 2006.

RESEARCH PUBLICATIONS (เรียงจากปัจจุบัน – อดีต)

1. Sriwilaijaroen N, Kondo S, Nanthasri P, **Auparakkitanon S**, Suzuki Y, Wilairat P. Antiplasmodial effects of *Brucea javanica* (L.) Merr. and *Eurycoma longifolia* Jack extracts and their combination with chloroquine and quinine on *Plasmodium falciparum* in culture. *Tropical Medicine and Health 2010;38(2):61-68.*
2. **Auparakkitanon S**, Pooncharoen K, Sopitthummakhun K, Wilairat P. Interactions between antiplasmodial 3,6-diamino-1'-dimethyl-9-anilinoacridine and hematin and concamycin A. Southeast Asian J Trop Med Public Health. 2007; 38(6): 979-82.
3. **Auparakkitanon S**, Wilairat P. Antimalarial activity of concanamycin A alone and in combination with pyronaridine. Southeast Asian J Trop Med Publ Hlth 2006; 37: 37(4): 619-21.
4. **Auparakkitanon S**, Chapoomram S, Kuaha K, Chirachariyavej T, Wilairat P. Targeting of hematin by the antimalarial pyronaridine. Antimicrob Agents Chemother 2006; 50: 2197-2200.
5. Dascombe MJ, Drew MG, Morris H, Wilairat P, **Auparakkitanon S**, Moule WA, Alizadeh-Shekalgourabi S, Evans PG, Lloyd M, Dyas AM, Carr P, Ismail FM. Mapping antimalarial pharmacophores as a useful tool for the rapid discovery of drugs effective in vivo: design, construction, characterization, and pharmacology of metaquine. J Med Chem 2005; 48: 5423-5436.
6. **Auparakkitanon S**, Noonpakdee W, Ralph RK, Denny WA, Wilairat P. Development of antimalarial 9-anilinoacridine compounds directed at hematin. Antimicrob Agents Chemother 2003; 47: 3708-12.

7. Chavalitshewinkoon-Petmitr P, Pongvilairat G, **Auparakkitanon S**, Wilairat P. Gametocytocidal activity of pyronaridine and DNA topoisomerase II inhibitors against mutidrug-resistant *Plasmodium falciparum* in vitro. Parasitol Intern 2000; 48: 275-80.
8. **Auparakkitanon S**, Wilairat P. Cleavage of DNA induced by 9-anilinoacridine inhibitors of topoisomerase II in the malaria parasite *Plasmodium falciparum*. Biochem Biophys Res Commun 2000; 269: 406-9.

PRESENTATIONS (เรียงจากปัจจุบัน – อดีต)

1. **Auparakkitanon S**, Chapoomram S, Chirachariyavej T, Denny WA and Wilairat P. Interaction of 3,6-diamino-1'-dimethylamino-9-anilinoacridine with hemetin and antagonism of its antiplasmodial effect by concanamycin A. 5th European Congress on Tropical Medicine and International Health, Amsterdam, the Netherlands, 24-28 May 2007, Poster Abstract No.PB-62.
2. **Saranya Auparakkitanon**, Soebsakul Chapoomran, Kannika Kuaha, Thamrong Chirachariyavej, Prapon Wilairat. Antimalarial pyronaridine targets hematin. 55th Annual Meeting of The American Society of Tropical Medicine and Hygiene, Atlanta Marriott Marquis, Atlanta, Georgia, USA, 12-16 November 2006.
3. Prapon Wilairat, Tanapon Thadtapong, Namphaung Pengpanichpakdee, **Saranya Auparakkitanon**. Oxidative damage to red blood cell membrane Ca^{2+}-ATPase. The 20th IUBMB International Congress of Biochemistry and Molecular Biology and 11th FAOBMB Congress, Kyoto International Conference Hall, Takaragaike, Sakyo-ku, Kyoto, Japan, 18-23 June 2006, Poster Abstract 1P-A-268 p. 55.
4. Thamrong Chirachariyavej, **Saranya Auparakkitanon**. Forensic Toxicology in Thailand: Experience from Central Thailand. The 43rd Annual Scientific Meeting of The International Association of Forensic Toxicologists (TIAFT), Seoul, South Korea, 29 August-2 September 2005.
5. Fyaz M.D. Ismail, Michael J. Dascombe, Michael G. B. Drew, Harry Morris, Prapon Wilairat, **Saranya Auparakkitanon**, Wendy A. Moule, Said Alizadeh-Shekalgourabi, Philip G. Evans, Michael Lloyd, Anthony M. Days, Pamela Carr & Lynsey Suttcliffe. Mapping Functional Antimalarial Pharmacophores as a Useful Tool for the Rapid Discovery of Drugs Effective *In Vivo*: Design, Construction, Characterization, and

Pharmacology of Weakly Basic Azacycles. Gordon Research Conferences, Queen's College, Oxford University, UK, 21-26 August 2005.

6. **Saranya Auparakkitanon**, Wilai Noonpakdee, Soebsakul Chapoomram, Kannika Kuaha, Thamrong Chirachariyavej, Prapon Wilairat. Mechanism of action of the antimalarial pyronaridine. Ramathibodi Hospital 36th Anniversary Conference, Muang Thong Thani Convention Center, Bangkok, 13-15 May 2005, Conference Abstract book, p 144.
7. **S. Auparakkitanon**, K Kuaha, and P. Wilairat. Mechanism of action of the antimalarial pyronaridine *in vitro*. 44th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington Convention Center, Washington DC, USA, 30 October-2 November 2004, Poster Abstract P-127.
8. **Auparakkitanon S** and Wilairat P. *In vitro* activity of concanamycin A in combination with antimalarial drugs against *Plasmodium falciparum*. 10th Asean Conference in Medical Laboratory Technology, Chiang Mai, Thailand, 26-30 April 2004, p 268.
9. **Auparakkitanon S**, Noonpakdee W, Ralph RK, Denny WA, Wilairat P. Development of antimalarial 9-anilinoacridine compounds directed at hematin. 29th Congress on Science and Technology of Thailand, 20-22 October 2003, p 43.
10. **Saranya Auparakkitanon**, Wilai Noonpakdee , Raymond K. Ralph, William A. Denny, Prapon Wilairat. 9-anilinoacridine antimalarials targeted against heme. International Conference on “Malaria: Current Status and Future Trends”, Chulabhorn Research Institute, Bangkok, Thailand. 16-19 February 2003, p 86.
11. **S. Auparakkitanon**, W. Noonpakdee, S. Chapoomram, and P. Wilairat. Mechanism of action of pyronaridine. Molecular Approaches to Malaria Conference 2004, Erskine on the Beach, Lorne, Australia, 1-5 February 2004, MAM 2004 Poster Abstracts in Experimental Parasitology; 2003: 105, p 28.
12. **Auparakkitanon S**, Noonpakdee W, Denny WA, Wilairat P. Effects of 9-anilinoacridine compounds on heme binding, heme polymerization and heme-drug induced cell lysis. 27th Congress on Science and Technology of Thailand, 16-18 October 2001, p 578.
13. MJ Dascombe, FMD Ismail, P Wilairat, P Carr, LJ Sutcliffe, **S Auparakkitanon**, SA Shekalghorabi, WA Moule and PG Evans. Synthesis, pharmacology and molecular modelling of bisquinolines. Gordon Research Conferences, Queen's College, Oxford University, UK, 5-10 August 2001.

14. Poonchaleon K, **Auparakkitanon S**, Wilairat P. Study on the effect of 3,6-diamino-anilinoacridines on heme polymerization. 25nd Congress on Science and Technology of Thailand, 20-22 October 1999, p 803.
15. **Auparakkitanon S**, Wilairat P. Cleavage of DNA induced by 9-anilinoacridine inhibitors of topoisomerase II in malaria parasite *Plasmodium falciparum*. 8th FAOBMB Congress on Biochemistry and Molecular Biology in the era of Biotechnology, Kuala lumpur, Malaysia, 22-26 November 1998, p 408.
16. **Auparakkitanon S**, Uthaida S, Wilairat P. Study on the mechanism of action of *Plasmodium falciparum* DNA topoisomerase II inhibitors. 22nd Congress on Science and Technology of Thailand, 16-18 October 1996, p 408.