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Field of interest

Research experience on malaria using animal model to investigate drug treatment, pathological change by malaria infection, molecular characterization of malaria parasite, susceptibility of malaria to mosquitoes, and drugs to inhibit the transmission of malaria parasite to mosquito vector.

Memberships

1. Parasitology and Tropical Medicine Association of Thailand
2. Veterinary Parasitology Research Group, The Veterinary Parasitology Unit, Department of Pathology, Faculty of Veterinary Science, Chulalongkorn University, Bangkok, 10330 Thailand
3. Animal Vector-Borne Disease Research Group, The Veterinary Parasitology Unit, Department of Veterinary Pathology, Faculty of Veterinary Science, Chulalongkorn University, Bangkok, 10330 Thailand

Awards/Honors

Grant for Development of New Faculty Staff (2003-2005)

Peer-Reviewed Publications

1. Napamon Supornpun, Paisal Rummaneethorn, Thamthiwat Nararatwanchai, Srintip Chaichalotornkul, Tawee Saiwichai. An updating protocol for for the treatment of trapezius contouring with Incobotulinum Toxin A. *J Cutan Aesthet Surg.* 2021 (In Press)
2. Huynh Luu Cam Tu, Yudhi Ratna Nugraheni, Sonthaya Tiawsirisup, Tawee Saiwichai, Anyarat Thiptara, Morakot Kaewthamasorn. Development of a novel multiplex PCR assay for the detection and differentiation of *Plasmodium caprae* from *Theileria luwenshuni* and *Babesia* spp. in goats. *Acta Tropica.* 2021. DOI: 10.1016/j.actatropica.2021.105957
3. Mai Nguyen Thi Xuan, Winai Kaewlamun, Tawee Saiwichai, Suchansa Thaneer, Juthathip Poofery, Sonthaya Tiawsirisup, Manun Channumsin, Morakot Kaewthamasorn. Development and application of a novel multiplex PCR assay for the differentiation of four haemosporidian parasites in the chicken *Gallus gallus domesticus*. *Veterinary Parasitology.* 2021(293); 109431
4. Piyavatin P, Chaichalotornkul S, Nararatwanchai T, Bumrungpert A, **Saiwichai T.** Synbiotics supplement is effective for Melasma improvement. *J Cosmet Dermatol.* 2021; 00: 1– 10.
5. Kungching S, Kurotschka W, Nararatwanchai T, Onnom E, **Saiwichai T.** The effects of continuous aerobic training versus weight training with highintensity intermittent exercise on physical performance, hormonal responses, and psychological fitness in Thai military. *Songklanakarin J Sci Technol* 2018; 40 (5): 1144-51.
6. Morakot Kaewthamasorn, Mika Takeda, **Tawee Saiwichai**, Jesse N. Gitaka, Sonthaya Tiawsirisup, Yuhei Imasato, Ehab Mossaad, Ali Sarani, Winai Kaewlamun, Manun Channumsin, Suchart Chaiworakul, Wichit Katepongpun, Surapong Teeveerapunya, Jarus Panthorng, Dominic K. Mureithi, Saw Bawm, Lat Lat Htun, Mar Mar Win, Ahmed Ali Ismail, Abdalla Mohamed Ibrahim, Keisuke Suganuma, Hassan Hakimi, Ryo Nakao, Ken Katakura, Masahito Asada, and Osamu Kaneko. Genetic homogeneity of goat malaria parasites in Asia and Africa suggests their expansion with domestic goat host. *Scientific Reports*, 2018; 8: 5827. doi:10.1038/s41598-018-24048-0

7. Tasai S, **Saiwichai T**, Kaewthamasorn M, Tiawsirisup S, Buddhirakkul P, Chaichalotornkul S, Pattaradilokrat S. Artesunate-tafenoquine combination therapy promotes clearance and abrogates transmission of the avian malaria parasite *Plasmodium gallinaceum*. *Veterinary Parasitology*. 2017 15;233:97-106.
8. Pattaradilokrat S, Tiyananee W, Simpallipan P, Kaewthamasorn M, **Saiwichai T**, Li J, Harnyuttanakorn P. Molecular detection of the avian malaria parasite *Plasmodium gallinaceum* in Thailand. *Veterinary Parasitology*. 2015 30;210(1-2):1-9.
9. Pruck-Ngern M, Pattaradilokrat S, Chumpolbanchon K, Pimnon S, Narkpinit S, Harnyuttanakorn P, Buddirakkul P, **Saiwichai T**. Short communication: Effects of artesunate treatment on *Plasmodium gallinaceum* transmission in the vectors *Aedes aegypti* and *Culex quinquefasciatus*. *Veterinary Parasitology*. 2015;207:161-5.
10. Pruck-Ngern M, Pattaradilokrat S, Chumpolbanchon K, Pimnon S, Harnyuttanakorn P, Buddirakkul P, **Saiwichai T**. Refractoriness of the natural malaria vector *Culex quinquefasciatus* to *Plasmodium gallinaceum*. *Journal of Tropical Medicine and Parasitology*. 2014;37:60-8.
11. Kumnuan R, Pattaradilokrat S, Chumpolbanchorn K, Pimnon S, Narkpinit S, Harnyuttanakorn P, **Saiwichai T**. *In vivo* transmission blocking activities of artesunate on the avian malaria parasite *Plasmodium gallinaceum*. *Veterinary Parasitology*. 2013 ;197(3-4):447-54.
12. Chaichalotornkul S, Suvitayavat W, Sangalangarn V, Nawa Y, Kikuchi K, Kawahara K, **Saiwichai T**, Narkpinit S, Singhasivanon P, Maruyama I, Tancharoen S. Inhibition of HMGB1 translocation by green tea extract in rats exposed to environmental tobacco smoke. *EnvironmentAsia*. 2012 ;5(1):70-6.
13. **Saiwichai T**, Sangalangarn V, Kawahara KI, Oyama Y, Chaichalotornkul S, Narkpinit S, Harnyuttanakorn P, Singhasivanon P, Maruyama I, Tancharoen S. Green tea extract supplement inhibition of HMGB1 release in rats exposed to cigarette smoke. *Southeast Asian Journal of Tropical Medicine and Public Health*. 2010 ;41(1):250-8.
14. **Tawee Saiwichai**, Montree Maneepak, Pucharee Songprakhon, Pongchai Harnyuttanakorn and Suwannee Nithiuthai. Nested PCR Detecting *Plasmodium gallinaceum* in Chicken Fresh Blood. *The Journal of Tropical Medicine and Parasitology*. 2009;32(2):75-81.

15. Pucharee Songprakhon, **Tawee Saiwichai**, Pongchai Harnyuttanakorn, Suwannee Nithiuthai. *Plasmodium gallinaceum*: Specifically Recognized Antigens by Infected Sera. The Journal of Tropical Medicine and Parasitology. 2009;32(1):17-22.
16. **Tawee Saiwichai**, Sirintip Chaichalotornkul. Dog Heart Worm: Silent Epidemic for Urban Population. Journal of Public Health. 2008;38(1):92-107.
17. **Tawee Saiwichai**, Pongchai Harnyuttanakorn, Suwannee Nithiuthai. A simple method for isolation of *Plasmodium gallinaceum* from infected chicken red blood cells. The Journal of Tropical Medicine and Parasitology 2007;30(1):24-28.
18. **Tawee Saiwichai**, Pongchai Harnyuttanakorn, Woraporn Sukhumavasi, Prayute Buddhirakkul, Adisak Bhumiratana, Jirasak Rojanapremsuk, Suwannee Nithiuthai. Diagnosis of *Plasmodium gallinaceum* in infected mosquitoes by multiplex PCR. The Journal of Tropical Medicine and Parasitology. 2007;30(2):76-80.

Presentations

1. Pruck-Ngern M, Pattaradilokrat S, Chumpolbanchon K, **Saiwichai T**. Susceptibility and refractoriness of the natural malaria vector *Culex quinquefasciatus* to avian malaria (*Plasmodium gallinaceum*). The 6th ASIAHORCs Joint Symposium "The Impact of Climate Change to Food and Health" November 27, 2014. Rama Gardens Hotel, Bangkok Thailand.
2. **Tawee Saiwichai**, Rapeeporn Khamnuan, Sittiporn Pattaradilokrat, Kamlang Chumpolbanchorn. The efficacy of artesunate on moderate malaria infection in animal model with *Plasmodium gallinaceum*. 46th Asia Pacific Academic Consortium for Public Health (APACPH) 2014, Hilton Kuala Lumpur, Malaysia. 16th-19th October 2014.
3. Naphat Liaowpairoj, **Tawee Saiwichai**, Sittiporn Pattaradilokrat, Sonthaya Tiawsirisup, Morakot Kaewthamason. Life-saving from lethal malaria by primaquine treatment in avian model. 46th Asia Pacific Academic Consortium for Public Health (APACPH) 2014, Hilton Kuala Lumpur, Malaysia. 16th-19th October 2014.

4. Natchaya Noiya, **Tawee Saiwichai**, Sittiporn Pattaradilokrat, Sonthaya Tiawsirisup, Morakot Kaewthamason. The severity levels of blood stage malaria and vitamin C supplements in avian. 46th Asia Pacific Academic Consortium for Public Health (APACPH) 2014, Hilton Kuala Lumpur, Malaysia. 16th-19th October 2014.
5. Suchada Tasai, **Tawee Saiwichai**, Sittiporn Pattaradilokrat, Sonthaya Tiawsirisup, Morakot Kaewthamason. The efficacy of 1 mg/kg tafenoquine on severity levels of malaria in avian model. 46th Asia Pacific Academic Consortium for Public Health (APACPH) 2014, Hilton Kuala Lumpur, Malaysia. 16th-19th October 2014.
6. Anuchai Niwetpathomwat, Pongsak Mapaisarnsub, Rangsak Jongjam, **Tawee Saiwichai**, Pongchai Harnyuttanakorn, Manop Muangyai, and Suwannee Nithiuthai. Vaccine efficacy of *Plasmodium gallinaceum* blood stages in chicken. Proceeding. Joint International Tropical Medicine. 2004;212.
7. **Tawee Saiwichai**, Montree Maneepak, Woraporn Sukumavasi, Pongchai Harnyuttanakorn, Prayute Buddhirakkul, Adisak Bhumiratana, Jirasak Rojanapremsuk, and Suwannee Nithiuthai. Diagnosis of avian malaria parasite in infected mosquito by Multiplex PCR. Proceeding. Joint International Tropical Medicine. 2004;209.
8. **Tawee Saiwichai**, Nuwannee Nithiuthai, Pongchai Harnyuttanakorn, and Kosum Charnsiri. Identification of avian malarial parasite in Thailand based on small subunit ribosomal RNA(ssurRNA). Proceeding. The 38th Kasetsart University Annual Conference. 2000;140.
9. **Tawee Saiwichai**, Nuwannee Nithiuthai, and Pongchai Harnyuttanakorn. Separation of malaria parasite from chicken infected red blood cells by differential centrifugation. Proceeding. The 38th Kasetsart University Annual Conference. 2000;141.