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EDUCATION

2011

MAHIDOL UNIVERSITY

Dr.P.H. (Parasitology)

2004

MAHIDOL UNIVERSITY

M.Sc. (Public Health Infectious
Diseases and Epidemiology)

2003

**SRINAKARINWIROT
UNIVERSITY**

B.Sc. (Biology)

EXPERTISE

- Intestinal protozoa
- Vivax malaria and Non-human primate malaria
- Environmental parasitology
- Epidemiology of parasitic diseases

Publications

1. Neamhom, T., Yakam, P., Bathbumrung, C., Tachavarong, W., **Kosaisavee, V.**, & Pinatha, Y. (2025). Pilot-scale phosphorus recovery from mobile toilet wastewater in Bangkok, Thailand. *Scientific Reports*, 15(1), Article 3477. <https://doi.org/10.1038/s41598-025-87520-8>
2. Phong, Z. Y., Chin, J. Y., Ng, Y. L., Zakaria, N. I., Athirah-Azman, S. N., **Kosaisavee, V.**, Rénia, L., & Lee, W. C. (2025). The role of periostin (OSF-2) in the cytoadherence phenomena mediated by malaria parasites. *Frontiers in Cellular and Infection Microbiology*, 15, Article 1599872. <https://doi.org/10.3389/fcimb.2025.1599872>
3. Lee, W. C., Cheng, Y., **Kosaisavee, V.**, & Renia, L. (2023). Editorial: Zoonoses-a rising threat to healthcare system. *Frontiers in Microbiology*, 14, Article 1232183 <https://doi.org/10.3389/fmicb.2023.1232183>
4. Chaorattanakawee, S., **Kosaisavee, V.**, Bunsermyos, W., Aonsri, C., Imaram, W., Suwannasin, K., Kunasol, C., Thamnurak, C., Boonyalai, N., Saunders, D., Dondorp, A. M., Mungthin, M., & Imwong, M. (2023). In vitro activity of rhinacanthin analogues against drug resistant Plasmodium falciparum isolates from Northeast Thailand. *Malaria Journal*, 22(1), Article 105. <https://doi.org/10.1186/s12936-023-04532-3>
5. Malleret, B., El Sahili, A., Tay, M. Z., Carissimo, G., Ong, A. S. M., Novera, W., Lin, J., Suwanarusk, R., **Kosaisavee, V.**, Chu, T. T. T., Sinha, A., Howland, S. W., Fan, Y., Gruszczyk, J., Tham, W. H., Colin, Y., Maurer-Stroh, S., Snounou, G., Ng, L. F. P., ... Rénia, L. (2021). Plasmodium vivax binds host CD98hc (SLC3A2) to enter immature red blood cells. *Nature Microbiology*, 6(8), 991-999. <https://doi.org/10.1038/s41564-021-00939-3>
6. Chua, A. C. Y., Ong, J. J. Y., Malleret, B., Suwanarusk, R., **Kosaisavee, V.**, Zeeman, A. M., Cooper, C. A., Tan, K. S. W., Zhang, R., Tan, B. H., Abas, S. N., Yip, A., Elliot, A., Joyner, C. J., Cho, J. S., Breyer, K., Baran, S., Lange, A., Maher, S. P., Bifani, P. (2019). Robust continuous in vitro culture of the Plasmodium cynomolgi erythrocytic stages. *Nature Communications*, 10(1), Article 3635. <https://doi.org/10.1038/s41467-019-11332-4>



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Publications

7. Rawlinson, T. A., Barber, N. M., Mohring, F., Cho, J. S., **Kosaisavee, V.**, Gérard, S. F., Alanine, D. G. W., Labbé, G. M., Elias, S. C., Silk, S. E., Quinkert, D., Jin, J., Marshall, J. M., Payne, R. O., Minassian, A. M., Russell, B., Rénia, L., Nosten, F. H., Moon, R. W., ... Draper, S. J. (2019). Structural basis for inhibition of *Plasmodium vivax* invasion by a broadly neutralizing vaccine-induced human antibody. *Nature Microbiology*, 4(9), 1497-1507. <https://doi.org/10.1038/s41564-019-0462-1>
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9. **Kosaisavee, V.**, Lek-Uthai, U., Suwanarusk, R., Grüner, A. C., Russell, B., Nosten, F., Rénia, L., & Snounou, G. (2012). Genetic diversity in new members of the reticulocyte binding protein family in Thai *Plasmodium vivax* isolates. *PLoS ONE*, 7(3), Article e32105. <https://doi.org/10.1371/journal.pone.0032105>
10. **Kosaisavee, V.**, Hastings, I., Craig, A., & Lek-Uthai, U. (2012). The geographical distribution of allele polymorphisms of *Plasmodium vivax* in different regions of Thailand. *Journal of the Medical Association of Thailand*, 95(SUPPL 6), S135-S140.
11. **Kosaisavee, V.**, Hastings, I., Craig, A., & Lek-Uthai, U. (2011). The genetic polymorphism of *Plasmodium vivax* genes in endemic regions of Thailand. *Asian Pacific Journal of Tropical Medicine*, 4(12), 931-936. [https://doi.org/10.1016/S1995-7645\(11\)60221-6](https://doi.org/10.1016/S1995-7645(11)60221-6)
12. Sharrock, W. W., Suwanarusk, R., Lek-Uthai, U., Edstein, M. D., **Kosaisavee, V.**, Travers, T., Jaidee, A., Sriprawat, K., Price, R. N., Nosten, F., & Russell, B. (2008). *Plasmodium vivax* trophozoites insensitive to chloroquine. *Malaria Journal*, 7, Article 94. <https://doi.org/10.1186/1475-2875-7-94>



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13. Suwanarusk, R., Russell, B., Chavchich, M., Chalfein, F., Kenangalem, E., Kosaisavee, V., Prasetyorini, B., Piera, K. A., Barrends, M., Brockman, A., Lek-Uthai, U., Anstey, N. M., Tjitra, E., Nosten, F., Cheng, Q., & Price, R. N. (2007). Chloroquine resistant *Plasmodium vivax*: In vitro characterisation and association with molecular polymorphisms. PLoS ONE, 2(10), Article e1089. <https://doi.org/10.1371/journal.pone.0001089>
14. **Kosaisavee, V.**, Suwanarusk, R., Nosten, F., Kyle, D. E., Barrends, M., Jones, J., Price, R., Russell, B., & Lek-Uthai, U. (2006). *Plasmodium vivax*: Isotopic, PicoGreen, and microscopic assays for measuring chloroquine sensitivity in fresh and cryopreserved isolates. Experimental Parasitology, 114(1), 34-39. <https://doi.org/10.1016/j.exppara.2006.02.006>