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ACADEMIC POSITION:

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RESEARCH INTERESTS:

- ZOO AND WILD ANIMAL MEDICINE
- ANIMAL REPRODUCTION
- REPRODUCTIVE ENDOCRINOLOGY

EDUCATION

**Diplomate Thai Board of Theriogenology (DTBT),
Veterinary Council of Thailand**

Utrecht University, Utrecht, The Netherlands

PH.D.

Chulalongkorn University, Bangkok, Thailand

D.V.M.

MOST RECENT PUBLICATIONS :

1. Khammesri S, Mathura Y, Boonprasert K, Ampasavate C, Hongwiset D, Brown JL, **Thitaram C**. Successful treatment of elephant endotheliotropic herpesvirus infection in an Asian elephant (*Elephas maximus*) calf by oral acyclovir medication: Case report. *J Vet Med Sci.* 2021;83(1):125-129.
2. Photichai K, Guntawang T, Sittisak T, Kochagul V, Chuammitri P, **Thitaram C**, Thananchai H, Chewonarin T, Sringarm K, Pringproa K. 2020. Attempt to isolate elephant endotheliotropic herpesvirus (EEHV) using a continuous cell culture system. *Animals.*10(12):2328. doi: 10.3390/ani10122328.
3. Kosaruk W, Brown JL, Plangsangmas T, Towiboon P, Punyapornwithaya V, Silva-Fletcher A, **Thitaram C**, Khonmee J, Edwards KL, Somgird C. 2020. Effect of Tourist Activities on Fecal and Salivary Glucocorticoids and Immunoglobulin A in Female Captive Asian Elephants in Thailand. *Animals,* 10(10): 1928; <https://doi.org/10.3390/ani10101928>.
4. Toin P, Brown JL, Punyapornwithaya V, Bansiddhi P, Somgird C, **Thitaram C**. Reproductive performance of captive Asian elephants (*Elephas maximus*) in large tourist camps in Thailand. *Anim Reprod Sci.* 2020; 222: 106606.
5. Kriangwanich W, Nganvongpanit K, Buddhachat K, Siengdee P, Chomdej S, Ponsuksili S, **Thitaram C**. 2020. Genetic variations and dog breed identification using inter-simple sequence repeat markers coupled with high resolution melting analysis *PeerJ* 8:e10215 <https://doi.org/10.7717/peerj.10215>.
6. **Thitaram C**, de Silva S, Soorae P, Daim S. Pérez ABL. 2020. Guidelines for the Rehabilitation of Captive Elephants as a Possible Restocking Option for Wild Populations. *Gajah* 52: 56-59.
7. Guntawang, T., Sittisak, T., Srivorakul, S., Kochagul, V., Photichai, K., **Thitaram, C.**, Sthitmatee, N., Hsu, W.L., Pringproa, K. 2020. In vivo characterization of target cells for acute elephant endotheliotropic herpesvirus (EEHV) infection in Asian elephants (*Elephas maximus*). *Scientific Report* 10, 11402. <https://doi.org/10.1038/s41598-020-68413-4>.
8. Bansiddhi P, Brown JL, **Thitaram C**. 2020. Welfare Assessment and Activities of Captive Elephants in Thailand. *Animals.*10(6): 919. <https://doi.org/10.3390/ani10060919>.
9. Brown, J., Bansiddhi, P., Khonmee, J., **Thitaram, C.**, 2020. Commonalities in management and husbandry factors important for health and welfare of captive elephants in North America and Thailand. *Animals* 10, 737. <https://doi:10.3390/ani10040737>
10. Khumsap, S., **Thitaram, C.**, Somgird, C., 2020. GnRH vaccine could suppress serum progesterone level in Thai pony mares; A preliminary study. *Veterinary Integrative Science* 18, 43-51.

11. Plangsangmas, T., Brown, J.L., **Thitaram, C.**, Silva-Fletcher, A., Edwards, K.L., Punyapornwithaya, V., Towiboon, P., Somgird, C., 2020. Circadian Rhythm of Salivary Immunoglobulin A and Associations with Cortisol as A Stress Biomarker in Captive Asian Elephants (*Elephas maximus*). *Animals* 10, 157. <https://doi.org/10.3390/ani10010157>.
12. Sripiboon S, Ditcham W, Vaughan-Higgins R, Jackson B, Robertson I, **Thitaram C**, Angkawanish T, Phatthanakunanan S, Lertwatcharasarakul P, Warren K. 2019. Subclinical infection of captive Asian elephants (*Elephas maximus*) in Thailand with elephant endotheliotropic herpesvirus. *Archives of Virology*. <https://doi.org/10.1007/s00705-019-04469-6>.
13. Sirikaew N, Chomdej S, Tangyuenyong S, Tangjitjaroen W, Somgird S, **Thitaram C**, Ongchai S. 2019. Proinflammatory cytokines and lipopolysaccharides up regulate MMP-3 and MMP-13 production in Asian elephant (*Elephas maximus*) chondrocytes: attenuation by anti-arthritis agents. *BMC Veterinary Research*. 15:419 <https://doi.org/10.1186/s12917-019-2170-8>.
14. Bansiddhi P, Brown JL, Khonmee J, Norkaew T, Nganvongpanit K, Punyapornwithaya V, Angkawanish T, Somgird S, **Thitaram C**. Management factors affecting adrenal glucocorticoid activity of tourist camp elephants in Thailand and implications for elephant welfare. *PLoS ONE*. <https://doi.org/10.1371/journal.pone.0221537>.
15. Srivorakul S, Guntawang T, Kochagul V, Photichai K, Sittisak T, Janyamethakul T, Boonprasert K, Khammesri S, Langkaphin W, Punyapornwithaya V, Chuammitri P, **Thitaram C**, I Pringproa K. 2019. Possible roles of monocytes/macrophages in response to elephant Endotheliotropic herpesvirus (EEHV) infections in Asian elephants (*Elephas maximus*). *PLoS ONE* 14(9): e0222158. <https://doi.org/10.1371/journal.pone.0222158>.
16. Klinhom S, Siengdee P, Nganvongpanit K, Boonyawan D, Silva-Fletcher A, **Thitaram C**. Effect of culture medium treated with non-thermal plasma energy on the growth and viability in-vitro of fibroblast cells from Asian elephants (*Elephas maximus*). *Kafkas Univ Vet Fak Derg*, 2019. DOI: 10.9775/kvfd.2019.21951.
17. Boonprasert K, Punyapornwithaya V, Tankaew P, Angkawanish T, Sripiboon S, **Thitaram C**, Brown JL, Somgird C. 2019. Survival analysis of confirmed elephant endotheliotropic herpes virus cases in Thailand from 2006 - 2018. *PLoS ONE* 14(7): e0219288. <https://doi.org/10.1371/journal.pone.0219288>.
18. Khonmee J, Brown JL, Li M-Y, Somgird C, Boonprasert K, Norkaew T, Punyapornwithaya V, Lee W-M, **Thitaram C**. 2019. Effect of time and temperature on stability of progestagens, testosterone and cortisol in Asian elephant blood stored with and without anticoagulant. *Conservation Physiology* 7(1): coz031; doi:10.1093/conphys/coz031.
19. Norkaew T, Brown JL, **Thitaram C**, Bansiddhi P, Somgird C, Punyapornwithaya V, Punturee K, Vongchan P, Somboon N, Khonmee J. 2019. Associations among tourist camp management, high and low tourist seasons, and welfare factors in female Asian elephants in Thailand. *PLoS ONE* 14(6):e0218579.<https://doi.org/10.1371/journal.pone.0218579>.
20. Bansiddhi P, Brown JL, **Thitaram C**, Punyapornwithaya V, Nganvongpanit K. 2019. Elephant Tourism in Thailand: A Review of Animal Welfare Practices and Needs, *Journal of Applied Animal Welfare Science*. DOI: 10.1080/10888705.2019.1569522.
21. Buranapim N, **Thitaram C**, Angkawanish T, Sombutputorn P, Langkaphin W, Thongtip N, Janyamethakul T, Boontong P, Siriaroonrat P, Tipkantha W. 2019. General anesthesia in two Asian elephants (*Elephas maximus*) using combination of medetomidine hydrochloride and etorphine hydrochloride. *Veterinary Integrative Sciences*, 17(2), 101-114. <https://www.tci-haijo.org/index.php/vis/article/view/151446>.
22. Bansiddhi P, Nganvongpanit K, Brown JL, Punyapornwithaya V, Pongsopawijit P, **Thitaram C**. 2019. Management factors affecting physical health and welfare of tourist camp elephants in Thailand. *PeerJ* 7:e6756 <https://doi.org/10.7717/peerj.6756>
23. Norkaew T, Brown JL, Bansiddhi P, Somgird C, **Thitaram C**, Punyapornwithaya V, Punturee K, Vongchan P, Somboon N, Khonmee J. Influence of season, tourist activities and camp management on body condition, testicular and adrenal steroids, lipid profiles, and metabolic status in captive bull elephants in Thailand. *PLoS ONE* 2019; 14(3): e0210537. doi.org/10.1371/journal.pone.0210537.
24. Kriangwanich W, Nganvongpanit K, Buddhachat K, Brown JL, Siengdee P, Chomdej S, Bansiddhi P **Thitaram C**. Genetic Diversity and Variation in Captive Asian Elephants (*Elephas maximus*) in Thailand. *Tropical Conservation Science*. 2018;11: 1-10. DOI: 10.1177/1940082918816871
25. Bansiddhi P, Brown JL, **Thitaram C**, Punyapornwithaya V, Somgird C, Edwards KL, Nganvongpanit K. 2018. Changing trends in elephant camp management in northern Thailand and implications for welfare. *PeerJ* 6:e5996 DOI 10.7717/peerj.5996
26. Norkaew T, Brown JL, Bansiddhi P, Somgird C, **Thitaram C**, Punyapornwithaya V, Punturee K, Vongchan P, Somboon N, Khonmee J. Body condition and adrenal glucocorticoid activity affects metabolic markers and lipid profiles in captive female elephants in Thailand. *PLoS ONE* 13(10): e0204965. <https://doi.org/10.1371/journal.pone.0204965>.
27. **Thitaram C**, Matchimakul P, Pongkan W, Tangphokhanon W, Makrirat R, Khonmee J, Sathanawongs A, Kongtueng P, Nganvongpanit K. Histology of 24 organs from Asian elephant calves (*Elephas maximus*). 2018: *PeerJ* 6:e4947 <https://doi.org/10.7717/peerj.4947>.
28. Kochakul V, Boonsri K, Tiwananthagorn S, Somgird C, **Thitaram C**, Pringproa K. Development of in situ hybridization for detection of elephant endotheliotropic herpesvirus in Asian elephants. *Journal of Veterinary Diagnostic Investigation*. 2018: 1-5.
29. Kochagul V, Srivorakul S, Boonsri K, Somgird C, Sthitmatee N, **Thitaram C**, Pringproa K. Production of antibody against elephant endotheliotropic herpesvirus (EEHV) unveils tissue tropisms and routes of viral transmission in EEHV-infected Asian elephants. *Scientific Reports*. 2018: 8: 4675 doi:10.1038/s41598-018-22968-5.
30. Boonsri K, Somgird C, Noinafai P, Pringproa K, Janyamethakul T, Angkawanish T, Brown JL, Tankaew P, Srivorakul S, **Thitaram C**. Elephant Endotheliotropic Herpesvirus associated with Clostridium perfringens infection in two Asian elephant (*Elephas maximus*) calves. *Journal of Zoo and Wildlife Medicine*. 2018: 49(1):178-182. <https://doi.org/10.1638/2017-0001R1.1>.
31. Siengdee P, Klinhom S, **Thitaram C**, Nganvongpanit K. Isolation and culture of primary adult skin fibroblasts from the Asian elephant (*Elephas maximus*). *PeerJ* 2018: 6:e4302; DOI 10.7717/peerj.4302.
32. **Thitaram C**, Brown JL. Monitoring and controlling ovarian activity in elephants. *Theriogenology* 2018. <https://doi.org/10.1016/j.theriogenology.2017.12.009>.