

REPRODUCTIVE SCIENCE AND TECHNOLOGIES FOR ENHANCING WILDLIFE CONSERVATION: THAI EXPERIENCES

Ampika Thongphakdee

Wildlife Reproductive Innovation Center, Bureau of Conservation and Research, Zoological Park Organization under the Royal Patronage H.M. the King, 71, Rama 5 Road, Dusit, Bangkok, 10300, Thailand

Degradation and fragmentation of habitats, illegal hunting and climate change directly affect natural wildlife populations. Many attempts including captive breeding and reintroduction have been done actively for their long-term survival. Zoological Park Organization (ZPO) contributes modern zoo strategies to wildlife conservation by maximizing opportunities to engage in conservation-relevant research, especially reproductive science to enhance captive breeding programs. The prioritized research species are Thai native and globally important species i.e. Eld's deer (*Rucervus eldi*), Asian elephant (*Elephas maximus*), Eastern Sarus crane (*Grus antigone sharpii*), Malayan tapir (*Tapirus indicus*), goral (*Naemorhedus griseus*) and wild felids. In the forum, the presentation will give the information of fundamental reproductive science knowledge and some efforts of applying basic to advanced assisted reproductive technologies (ARTs) i.e. artificial insemination (AI), in vitro fertilization (IVF), and embryo transfer (ET), somatic cell nuclear transfer (cloning) and induced pluripotent stem cell (iPSC) for saving endangered species from extinction.

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