



Program

Tuesday 25 Oct 2022

Pre-conference Workshops

Venue: Faculty of Veterinary Medicine, CMU

- 08.30 – 09.00 Registration
- 09.00 – 09.15 Workshop opening remarks
- 09.15 – 12.00 Workshop 1: Reptile Clinical Pathology Workshop- Keys to success disease diagnosis
 Asst. Prof. Dr. Nithidol Buranapim, Chiang Mai University, Thailand
 Dr. Piyaporn Kongmakee, The Zoological Park Organization of Thailand
 Dr. Chia-Da Hsu, Mandai Wildlife Group, Singapore
 Dr. Watcharin Hin-On, Pak Chong Animal Hospital, Thailand
- Workshop 2: Elephant Endotheliotropic Herpesviruses (EEHV): Clinical hematology and blood cross-matching
 Assoc. Prof. Dr. Preeyanat Vongchan, Chiang Mai University, Thailand
 Asst. Prof. Dr. Supaphen Sripiboon, Kasetsart University, Thailand
 Dr. Warangkhana Langkaphin, National Elephant Institute, Thailand
 (Tea break provided)
- 12.00 – 13.00 Lunch Break and Networking
- 13.00 – 16.30 Workshop 1: Reptile Clinical Pathology Workshop- Keys to success disease diagnosis (Continued)
 Workshop 2: Elephant Endotheliotropic Herpesviruses (EEHV): Clinical hematology and blood cross-matching (Continued)
 (Tea break provided)





Wednesday 26 Oct 2022

Main Conference Day 1

Venue: Information Technology Service Center, CMU

08.00 – 09.00	Registration	
09.00 – 09.30	ASCM 2022 opening ceremony	
09.30 – 10.30	Open session: Global effects on wildlife conservation: What can we do to recover? (On-Site) Keynote: Dr. Boripat Siriaroonrat, Mahidol University, Thailand	Chaired by Dr. Pakkanut Bansiddhi
10.30 – 10.45	Break and Networking	
10.45 – 12.15	Oral session: Room 1: Environment/Diversity	Chaired by Assoc. Prof. Dr. Parntep Ratanakorn
	Room 2: Megaherbivores	Chaired by Asst. Prof. Dr. Supaphen Sripiboon
12.15 – 13.15	Break and Networking	
13.15 – 14.45	Oral session: Room 1: One Health	Chaired by Dr. Lesa Thompson
	Room 2: Primates 1	Chaired by Dr. Tulyawat Sutthipat
14.45 – 15.00	Break and Networking	
15.00 – 16.30	Plenary Session 1: Welfare and ethics in wildlife conservation programs: one welfare for one health 1. Challenges to animal welfare during wildlife conservation translocation (On-Line) Dr. Friederike Pohlin, University of Veterinary Medicine, Vienna 2. How can we improve welfare for captive wildlife, and why does it matter? (On-Line) Assoc. Prof. Dr. Lisa Yon, University of Nottingham, England	Chaired by Assoc. Prof. Dr. Chatchote Thitaram
16.30 – 16.45	Break and Networking	
16.45 – 17.45	Oral session: Room 1: Wildlife Management/Conservation	Chaired by Dr. Taweepoke Angkawanish
	Room 2: Primates 2	Chaired by Dr. Fransiska Sulistyono

*Poster session: E-Poster on the website





Thursday 27 Oct 2022

Main Conference Day 2

Venue: Information Technology Service Center, CMU

- 08.00 – 09.00 Registration
- 09.00 – 10.30 Keynote session 2: Wildlife Health
1. Achieving transformative change in wildlife and ecosystem health (On-Line)
Dr. Jonathan Sleeman, National Wildlife Health Center, USA
 2. Wildlife disease surveillance and management: What can university do to fulfill? (On-Site)
Assoc. Prof. Dr. Parntep Ratanakorn, Chulabhorn Royal Academy, Thailand
Chaired by Dr. Joost Philippa
- 10.30 – 10.45 Break and Networking
- 10.45 – 12.15 Oral session:
- Room 1: Welfare
Chaired by Dr. Janine L. Brown
- Room 2: Reptiles
Chaired by Dr. Siew Shean Choong
- 12.15 – 13.15 Break and Networking
- 13.15 – 14.45 Plenary Session 2: Wildlife Reproduction Management Strategies
1. Managing and Monitoring Reproduction in Wildlife Species (On-Site)
Dr. Janine L Brown, Smithsonian Conservation Biology Institute, USA
 2. Reproductive Health and Conservation Breeding in Wild Animals: Challenge for Sustainable Conservation (On-Site)
Dr. Ampika Thongphakdee, The Zoological Park Organization of Thailand
Chaired by Dr. Yojiro Yanagawa
- 14.45 – 15.00 Break and Networking
- 15.00 – 16.15 Oral session:
- Room 1: Epidemiology
Chaired by Dr. Manabu Onuma
- Room 2: Pathology 1
Chaired by Dr. Chia-Da Hsu
- 16.15 – 16.30 Break and Networking
- 16.30 – 17.45 Oral session:
- Room 1: Reproduction Biology
Chaired by Dr. Ampika Thongphakdee
- Room 2: Pathology 2
Chaired by Dr. Weng Yan Ng
- 17.45 – 18.45 ASCM board member meeting

*Poster session: E-Poster on the website





Friday 28 Oct 2022

Main Conference Day 3

Venue: Information Technology Service Center, CMU

- 08.00 – 09.00 Registration
- 09.00 – 12.00 Plenary Session 3: Human Wildlife Interface
1. Human-Bear Interface in Japan (On-Line)
Assoc. Prof. Michito Shimozuru, Hokkaido University, Japan
 2. Human-Otter Interface in Singapore (On-Line)
Mr. Sivasothi N, National University of Singapore, Singapore
 3. Human-Macaque Interface in Thailand (On-Site)
Asst. Prof. Dr. Pornchai Sanyathitserree, Kasetsart University, Thailand
 4. Human-Elephant Interface in Sri Lanka (On-Line)
Dr. Vijitha Perera, Sri Lanka Department of Wildlife Conservation, Sri Lanka
Chaired by Dr. Eo Kyung Yeon and Dr. Serena Oh
- 12.00 – 13.00 Break and Networking
- 13.00 – 14.45 Oral session:
- Room 1: Marine Mammals
Chaired by Dr. Yuko Tajima
- Room 2: Clinical Medicine/Others
Chaired by Professor Jae-Ik Han
- 14.45 – 15.00 Break and Networking
- 15.00 – 16.00 Oral presentation and poster awards
Next year's program announcement
Conference wrap-up

*Poster session: E-Poster on the website





Oral Presentation Schedule

Wednesday 26 Oct 2022

(Parallel session: Room 1 and Room 2)

Environment/Diversity

10.45 – 12.00

Room 1

- 10.45-11.00 The possibility of presence of airborne microplastics in the lungs of wild birds
Yurika Tokunaga (Nippon Veterinary and Life Science University)
OR1-01
- 11.00-11.15 Algal bloom toxicity in seven sambar deer (*Rusa unicolor*) at Wildlife Breeding Park, Jallo-Zoo, Lahore, Pakistan
Muhammad Abdullah Bin Saleem (University of Veterinary and Animal Sciences, Pakistan)
OR1-02
- 11.15-11.30 Phylogenetic analysis of elephant cytochrome P450 (CYP) gene family
Kanami Watanabe (Hokkaido University)
OR1-03
- 11.30-11.45 Genome-wide runs of homozygosity analysis in six captive Malayan tapirs in Japan
Qi Luan Lim (Kyoto University)
OR1-04
- 11.45-12.00 Area-specific mitogenome variation infers evolutionary history, population connectivity and potential illegal trade hotspots of otter species in Thailand
Worata Klinsawat (King Mongkut's University of Technology Thonburi)
OR1-05

Megaherbivores

10.45 – 12.15

Room 2

- 10.45-11.00 Antimicrobial resistance of *Escherichia coli* from an elephant rehabilitation center in Sri Lanka
Diani Udarika Nanayakkara (University of Peradeniya)
OR2-41
- 11.00-11.15 Potential oxidative status markers for diagnosis the elephant endotheliotropic herpesvirus-hemorrhagic disease
Worapong Kosaruk (Chiang Mai University)
OR2-42





- 11.15-11.30 Evaluation of plasma cardiac troponin I in Asian elephants (*Elephas maximus*) using two clinical analyzers
Peter M. DiGeronimo (Philadelphia Zoological Garden)
OR2-43
- 11.30-11.45 Treatment of a coronary band abscess in a greater one-horned rhinoceros (*Rhinoceros unicornis*)
Kaori Ota (Tama Zoological Park)
OR2-44
- 11.45-12.00 First report of pinworm infection (Oxyuridae) in Sumatran rhinoceros (*Dicerorhinus sumatrensis harrissoni*) of Kelian Rhino Sanctuary, East Kalimantan, Indonesia
Dedy Surya Pahlawan (Aliansi Lestari Rimba Terpadu, Indonesia)
OR2-45
- 12.00-12.15 The use of doramectin for the treatment of squamous papillomas in four captive South African giraffes (*Giraffa camelopardalis giraffa*)
Watcharin Hin-on (Pak Chong Animal Hospital, Thailand)
OR2-46

One Health

13.15 – 14.45

Room 1

- 13.15-13.30 World Organisation for Animal Health (WOAH) Wildlife Health Programme in Asia and the Pacific
Lesa Thompson (World Organisation for Animal Health)
OR1-06
- 13.30-13.45 One Health perspective on the ongoing sea turtle consumption and the health risks related to human health in Indonesia
Awaluddin (Universitas Syiah Kuala)
OR1-07
- 13.45-14.00 Improving mental health resilience of One Health practitioners is vital to creating a sustainable cadre of professionals in South East Asian conservation medicine
Fransiska Sulisty (Orangutan Veterinary Advisory Group, Indonesia)
OR1-08
- 14.00-14.15 Developing a standard for field biosafety at the human-animal interface
Marc Valitutto (EcoHealth Alliance, New York)
OR1-09
- 14.15-14.30 Human dimensions of wildlife: A case study of online wildlife crimes in Pakistan
Rehan Ul Haq (University of Veterinary and Animal Sciences, Pakistan)
OR1-10





- 14.30-14.45 Study on mean values of human atrial natriuretic peptide in 7 bottlenose dolphins
Rie Kinoshita (Nihon University)
OR1-11 (Marine Mammals Session)

Primates 1

13.15 – 14.30

Room 2

- 13.15-13.30 Finding of leiomyosarcoma in a greater slow loris (*Nycticebus coucang*): A case report
Indri Saptorini (International Animal Rescue Indonesia)
OR2-47
- 13.30-13.45 Successful treatment of melioidosis in *Macaca mulatta* in Lao PDR
Melody Bomon (Lao Conservation Trust for Wildlife)
OR2-48
- 13.45-14.00 Case report: Fatal neurological disease in a juvenile Roloway monkey (*Cercopithecus roloway*) – diagnostic challenges
Joost David Philippa (Ouwehands Zoo)
OR2-49
- 14.00-14.15 Diagnosis and treatment of a femoral fracture in a captive grey-shanked douc langur (*Pygathrix cinerea*)
Khanh Ngoc-Phuong Ho (Endangered Primate Rescue Center, Vietnam)
OR2-50
- 14.15-14.30 Multilocus analysis of *Giardia* parasites from captive nonhuman primates at Seoul Zoo, South Korea
Mohammed Mebarek Bia (Chungbuk National University)
OR2-51

Wildlife Management/Conservation

16.45 – 17.45

Room 1

- 16.45-17.00 Translocation of Bornean elephants in Sabah: A practice of decades
Navaneetha Roopan (Sabah Wildlife Department)
OR1-12
- 17.00-17.15 Reintroduction of Javan warty-pig into Baluran National Park, East Java
Rudiar Anisa (Copenhagen Zoo Indonesia Program)
OR1-13
- 17.15-17.30 Antsy about pangolins – Sunda pangolin (*Manis javanica*) rescue overview and veterinary care in Mandai Wildlife Group
Charlene Yeong (Mandai Wildlife Group)
OR1-14
- 17.30-17.45 Conservation crisis of *Panthera tigris jacksoni* in captive facilities in Malaysia
Zainal Zahari Zainuddin (Bringing Back our Rare Animals, Malaysia)
OR1-15





Primates 2

16.45 – 17.45

Room 2

- 16.45-17.00 A case report on using oxytocin to improve appetite in a black howler monkey (*Alouatta caraya*)
Pao-Jung Wang (Taipei Zoo)
OR2-52
- 17.00-17.15 A suspected case of malaria fatality in a wild infant Bornean orangutan (*Pongo pygmaeus*)
Fina Fadiyah (Yayasan Inisiasi Alam Rehabilitasi Indonesia)
OR2-53
- 17.15-17.30 Management of caries and complicated teeth fractures in a male Bornean orangutan – A case report
Ni Made Ayudita A. L. Wedayanti (Borneo Orangutan Survival Foundation)
OR2-54
- 17.30-17.45 Successful medical intervention of a snakebite envenomation in a reintroduced Bornean orangutan (*Pongo pygmaeus*): A case study
Adisa Prayoga (Yayasan Inisiasi Alam Rehabilitasi Indonesia)
OR2-55





Thursday 27 Oct 2022

(Parallel session: Room 1 and Room 2)

Welfare

10.45 – 12.15

Room 1

- 10.45-11.00 Zoomonitor: Applied digital tools for welfare assessment in slow loris rehabilitation center
Nur Purba Priambada (International Animal Rescue Indonesia)
OR1-16
- 11.00-11.15 Preliminary observations of music medicine intervention to achieve the goals of reducing anxiety and aggression in big cats
Priyasad Ediriwarne (Safari Park, Sri Lanka)
OR1-17
- 11.15-11.30 The politics of research: The use, overuse, misuse and abuse of Myanmar timber elephant data
Khyne U Mar (Zoological Society of London)
OR1-18
- 11.30-11.45 Relationship between malondialdehyde, cortisol, testosterone and semen quality in captive Asian elephant (*Elephas maximus*) bulls
Jarawan Khonmee (Chiang Mai University)
OR1-19
- 11.45-12.00 Effect of the COVID-19 crisis on metabolic markers and elephant welfare in Chiang Mai, Thailand
Jarawee Supanta (Chiang Mai University)
OR1-20
- 12.00-12.15 Introduction of non-related male captive Asian elephants in Lao PDR
Ana Belén López Pérez (Chiang Mai University)
OR1-21

Reptiles

10.45 – 12.15

Room 2

- 10.45-11.00 Radiographic sex determination in the water monitor (*V. salvator*), a species lacking hemipenis spiculae
Paolo Martelli (Ocean Park Corporation, Hong Kong)
OR2-56
- 11.00-11.15 Implementation of virtopsy in sea turtle stranding and salvage programme in Hong Kong
Tabris Yik To Chung (City University of Hong Kong)
OR2-57





- 11.15-11.30 Successful management of turtles through oesophageal tube feeding in hospital setting
B. G. S. S. Gamage (Elephant Holding Centre, Sri Lanka)
OR2-58
- 11.30-11.45 Sensitivity and toxicity evaluation of anticoagulant rodenticides, warfarin and diphacinone in green sea turtles (*Chelonia mydas*)
Shouta MM Nakayama (Hokkaido University)
OR2-59
- 11.45-12.00 Detection of *Mycoplasma* species in wild-caught Indochinese box turtles (*Cuora bourreti*) in the United States
Peter M. DiGeronimo (Philadelphia Zoological Garden)
OR2-60
- 12.00-12.15 Identification of pathogenic bacteria from eggs of leatherback sea turtle (*Dermochelys coriacea*) at Lampuuk Beach, Aceh Besar based on 16s rRNA gene
Wahyu Eka Sari (Universitas Syiah Kuala)
OR2-61

Epidemiology

15.00 – 16.15

Room 1

- 15.00-15.15 Development of a method to estimate the impact of disease mortality on wild animal populations using animal rescue data
Ryota Matsuyama (Rakuno Gakuen University)
OR1-22
- 15.15-15.30 The relationship between *Haemaphysalis longicornis* and sika deer abundance on Tsushima Islands, Japan
Kandai Doi (Forestry and Forest Products Research Institute, Japan)
OR1-23
- 15.30-15.45 Squirrels (Sciuridae) - neglected reservoirs for emerging zoonotic pathogens
Viola Haring (Friedrich-Loeffler-Institut)
OR1-24
- 15.45-16.00 An outbreak of Testudinid herpesviruses type 3 in *Indotestudo elongata*
Han-Yang Wang (National Taiwan University)
OR1-25
- 16.00-16.15 Epidemiology of rescued free-ranging hedgehogs spp. from Israel
David Eshar (Wildlife Hospital and Rehabilitation Center of Israel)
OR1-26





Pathology 1

15.00 – 16.15

Room 2

- 15.00-15.15 Verminous meningoencephalomyelitis associated with *Angiostrongylus cantonensis* in a red kangaroo (*Osphranter rufus*)
Peter M. DiGeronimo (Philadelphia Zoological Garden)
OR2-62
- 15.15-15.30 Severe hypochromic microcytic anemia and its treatment in a wild raccoon dog
Phyo Wai Win (Jeonbuk National University)
OR2-63
- 15.30-15.45 Case report: Primary renal melanoma in a wood duck (*Aix sponsa*)
Chi-Fen Lee (National Taiwan University)
OR2-64
- 15.45-16.00 A procedure to explore and sampling from lower respiratory tract of Asian elephant (*Elephas maximus*): technical report
Warangkhan Langkaphin (National Elephant Institute, Thailand)
OR2-65
- 16.00-16.15 Transcutaneous ultrasonography of the kidneys, spleen, and liver in captive Asian elephants (*Elephas maximus*)
Pratthana Inthawong (Chiang Mai University, Thailand)
OR2-78

Reproduction Biology

16.30 – 17.45

Room 1

- 16.30-16.45 Improving sperm cryopreservation in chimpanzee (*Pan troglodytes*) and Bornean orangutan (*Pongo pygmaeus*): Proteomic characterization and antioxidant capacity of ejaculates
Laura Orama Méar (National Taiwan University)
OR1-27
- 16.45-17.00 Semen Cryopreservation in Bornean sun bear (*Helarctos malayanus euryspilus*)
Boon Nie Yeoh (Universiti Malaysia Sabah)
OR1-28
- 17.00-17.15 Trial for improvement of semen quality by GnRH administration in a captive male African elephant
Yoshiko Torii (Hokkaido University)
OR1-29
- 17.15-17.30 Breeding behaviour and vulvar score in captive female Malayan tapir (*Tapirus indicus*)
Donny Yawah (Universiti Putra Malaysia)
OR1-30





17.30-17.45 Ultrasound examination of zebra shark (*Stegostoma tigrinum*) eggs in Ocean Park, Hong Kong
Lee Foo Khong (Ocean Park Corporation, Hong Kong)
OR1-31

Pathology 2

16.30 – 17.30

Room 2

16.30-16.45 The amplification of HA gene sequence from wild bird fecal samples without egg inoculation
Manabu ONUMA (National Institute for Environmental Studies, Japan)
OR2-66

16.45-17.00 Screening of lactic acid bacteria (LAB) producing antibacterial from the feces of Sumatran orangutan (*Pongo abelii*) in Taman Hewan Pematangsiantar (THPS) North Sumatra
Nurliana Nurliana (Universitas Syiah Kuala)
OR2-67

17.00-17.15 Hematological values of adult Philippine hawk-eagle (*Nisaetus philippensis*) kept in Ninoy Aquino Parks and Wildlife Center, Quezon City, Philippines
Athaliah Jan N. Lagon (Benguet State University)
OR2-68

17.15-17.30 Point-of-care and standard laboratory reference intervals for coagulation values in Asian elephants (*Elephas maximus*)
Peter M. DiGeronimo (Philadelphia Zoological Garden)
OR2-70





Friday 28 Oct 2022

(Parallel session: Room 1 and Room 2)

Marine Mammals

13.00 – 14.15

Room 1

- 13.00-13.15 Multiple feeding styles of Bryde's whales (*Balaenoptera edeni*) in the upper Gulf of Thailand
Takashi Iwata (Kobe University)
OR1-32
- 13.15-13.30 Balaenopterid whale specimens preserved in various facilities of Thailand
Tadasu K. Yamada (National Museum of Nature and Science, Japan)
OR1-33
- 13.30-13.45 The role of THNHM's marine mammals collection for research and public engagement
Cholawit Thongcharoenchaikit (Thailand Natural History Museum)
OR1-34
- 13.45-14.00 Causes of cetacean stranding and death on Thai coasts, 2016-2021
Watchara Sakornwimon (Marine and Coastal Resources Research Center, Central Gulf of Thailand)
OR1-35
- 14.00-14.15 Review of anaesthetic protocols and outcomes in largha seals (*Phoca largha*), harbor seals (*Phoca vitulina*) and California sea lions (*Zalophus californianus*) at Ocean Park Hong Kong
Jessica Pui Yin Li (Ocean Park Corporation, Hong Kong)
OR1-36

Clinical Medicine/Others

13.00 – 14.45

Room 2

- 13.00-13.15 *Ligamentum humerocarpale* synthetic reconstruction in a bearded screech owl (*Megascops barbarus*)
Flor Barraeta (La Jungla Zoo, Guatemala)
OR2-71
- 13.15-13.30 Comparison of 3D-printed titanium alloy and polyether ether ketone prosthetic beaks for an injured red-crowned crane (*Grus japonensis*)
Chen Rong (Nanjing Hongshan Forest Zoo)
OR2-72
- 13.30-13.45 Mydriatic efficacy and side effects of topical rocuronium bromide application in three raptor species
Haerin Rhim (Jeonbuk National University)
OR2-73





- 13.45-14.00 Surgical treatment in a case of post-ovulatory egg stasis syndrome in a reticulated python (*Malayopython reticulatus*)
Flor Barrueta (La Jungla Zoo, Guatemala)
OR2-74
- 14.00-14.15 Successful fixation of carapace fracture in a female *Geochelone elegans* (Indian star tortoise)
H.D.S.Hewapathirana (University of Peradeniya)
OR2-75
- 14.15-14.30 Evaluation of chemical restraint using alfaxalone- dexmedetomidine-ketamine combination in rescued eastern fox squirrels (*Sciurus niger rufiventer*)
David Eshar (Kansas State University)
OR2-76
- 14.30-14.45 Body and scale morphometry of preserved Philippine pangolin (*Manis culionensis*)
Michael Conrad Borillo (Benguet State University)
OR2-77

