

Program in English

## Free Meetings

26 August (Fri.) 14:50-16:50 Room D

F1

Workshop "Diversity of Carnivora in East Europe and Japan"

○RYUICHI MASUDA

26 August (Fri.) 14:50-16:50 Room E

F2

History and future perspective for science and management of sika deer

○HAYATO IJIMA, Maki Suzuki, Hiroyuki Uno, Koichi Kaji

26 August (Fri.) 14:50-16:50 Room F

F3

How to grasp the spread of swine fever (CSF) infection and population density trend in wild boars?

○MAYUMI YOKOYAMA, Masatsugu Suzuki

26 August (Fri.) 17:00-19:00 Room D

F4

Diverse approaches to marine mammalogy

○YOKO MITANI, Tadamichi Morisaka

26 August (Fri.) 17:00-19:00 Room E

F5

Creating an open database for camera trapping data in Japan: future challenges and opportunities

○YOSHIHIRO NAKASHIMA, Hayato Iijima, Keita Fukasawa, Masaki Ando, Hiroaki Aizawa

26 August (Fri.) 17:00-19:00 Room F

F6

How to submit requests and opinions to administrative bodies for wildlife management

○KUNIIHIKO TOKIDA, Nobuo Ishii, Makoto Asano

27 August (Sat.) 13:00-15:00 Room D

F7

The aftermath of deer halving population program: What's next?

○YASUTAKA KISHIMOTO, Chizuru Yayota, Takahiro Ohba

27 August (Sat.) 13:00-15:00 Room E

F8

The diversity and progress in recent mammalian genomic studies

○YUKI MATSUMOTO, Gohta Kinoshita

27 August (Sat.) 13:00-15:00 Room F

F9

Research topics for urban carnivores 6 : Balance between conflict and co-existence

○YAYOI KANEKO, Yosuke Amaike, Shigeki Watanabe

27 August (Sat.) 13:00-15:00 Room G

F10

Trend of researches and recent findings on the Japanese serow (2022).

○KONOKA AIBA, Hayato Takada, Tetsuji Ito, Yoshi Kawamoto, Natsuki Tezuka

27 August (Sat.) 15:10-17:10 Room D

F11

Mammal study at regional universities: an invitation to fieldwork in northern and snowy areas

○MASAYUKI SAITO, Hiroto Enari

27 August (Sat.) 15:10-17:10 Room E

F12

"Human resources development for wildlife management required in the field"  
-Achievements and issues promoted by human resources development organizations-

○YOSHIKI MORIMITSU, Shota Mochizuki, Hiromasa Igota, Katsuya Suzuki, Hiroyuki Uno

27 August (Sat.) 15:10-17:10 Room F

F13

How to study invasive cat problem?

○MIKUNI TOKUYOSHI, Yuya Watari

29 August (Mon.) 11:30-13:30 Room D

F14

The threat of tick-borne disease expanding with wildlife and One Health approach

○KAORI MORISHIMA, Kandai Doi, Kango Tatemoto, Eiichiro Sando, Makoto Asano, Yuya Watari

29 August (Mon.) 11:30-13:30 Room E

F15

How should the MSJ tackle the problem of unintentional capture in the future: focusing on "information gathering to understand the actual situation" and "technological development to prevent."

○CHINATSU KOZAKAI, Chizuru Yayota, Ryota Araki, Sakugohokaku WG

29 August (Mon.) 11:30-13:30 Room F

F16

Conservation ecology of coastal dolphins off Japan: challenges and implications for managing fishery-targeted dolphin populations

○YU KANAJI, Hikari Maeda, Noriko Funasaka, Hiroto Murase

29 August (Mon.) 14:00-16:00 Room D

F17

How to make new findings of animal ecology with camera traps II

○GOTA YAJMA

29 August (Mon.) 14:00-16:00 Room E

F18

Evolutionary morphology in mammalian teeth: a synthesis of recent findings and traditional theories

○MASAKAZU ASAHARA, Tomohiro Harano, Shinya Okabe, Atsushi Yamanaka

29 August (Mon.) 14:00-16:00 Room F

F19

The Action Plans of the Committee of Conservation and Management and the Specialist Working Groups, The Mammal Society of Japan.

○MAKOTO ASANO, Koji Yamazaki, Chizuru Yayota, Toru Ikeda

## Oral Session

26 August (Fri.) 09:15-11:15 Room A OA1-01 - OA1-08

OA1-01 9:15-9:30

Development of decision support systems aiming to break away from symptomatic treatment measures against invasive alien raccoons

○TOHRU IKEDA, Takaaki Suzuki

OA1-02 9:30-9:45

A lesson from a case study of culling program for raccoons led by municipality

○SAYA YAMAGUCHI, Mayumi Ueno

OA1-03 9:45-10:00

Immune response of female raccoons to candidate contraceptive vaccine antigens derived from raccoon *zona pellucida 3*

○MAKOTO ASANO, Koudai Sato, Satoshi Kimura

OA1-04 10:00-10:15

The behavior of 15 thousand domestic cats observed by Catlog

○SHINICHI WATANABE, Sho Nitta, Keisuke Mashima, Takuma Urata, Tomoyuki Nohara

OA1-05 10:15-10:30

Colonization process of urban fox in Sapporo

○KOHJI URAGUCHI

OA1-06 10:30-10:45

Investigating the ecology of wild Japanese black bears (*Ursus thibetanus*) using animal-borne video systems

○YOSHIKI MORIMITSU



OA1-07 10:45-11:00

Estimation of population densities of Asiatic black bear by the hair-trapping method in Iwate Prefecture

○SHIGEKAZU KURAKAKE, Kiyoshi Yamauchi

OA1-08 11:00-11:15

The estimation of population density of the invasive mongoose in Okinawa using by detection dogs and fecal DNA analysis

○TAKUMA SATO, Keita Fukasawa, Katsushi Nakata, Ryoji Fukuhara, Takamichi Jogahara

26 August (Fri.) 09:15-11:15 Room B OB1-01 - OB1-08
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OB1-01 9:15-9:30

Molecular Phylogenetics of Japanese Otter lived in Fukuoka pref. and Tsushima-city

○DASISUKE WAKU, Hiroshi Sasaki

OB1-02 9:30-9:45

Genetic differentiations of the large Japanese wood mice among the Seto Inland Sea islands were caused by ancient rivers

○JUN SATO, Kouki Yasuda

OB1-03 9:45-10:00

Seasonal changes in *Apodemus speciosus* in semi-natural grassland with field burning, Hiruzen, Okayama prefecture

○ATSUSHI NAKAMOTO, Risa Shibayama, Haruka Ban

OB1-04 10:00-10:15

Relationship between rodent population and fruit availability

○TOMOHIITO ITO, Yamato Tsuji

OB1-05 10:15-10:30

Morphology of the vocal mechanism in Coypus, *Myocastor coypus*

○MICHIHIRO YAGAMI, Risako Yukawa, Takane Otsuki, Hiroki Konno, Ken Takumi, Koichi Kawamura, Taeko Miyazaki, Shuji Kobayashi

OB1-06 10:30-10:45

Turbinate evolution of eulipotyphlans

○KAI ITO, Ryo Kodera, Kazuhiro Koyasu, Quentin Martinez, Mugino Kubo

OB1-07 10:45-11:00

Earthworm-eating speed and cranial morphometrics of the two species of moles -especially on the examination of immobilization methods of earthworms

Yudai Ishikawa, Nao Takagi, ○YASUSHI YOKOHATA

OB1-08 11:00-11:15

A case study of birth in a shrew *Sorex gracillimus*

○KONOMI KOBAYASHI, Naoya Honda, Natsumi Iijima, Satoshi Ohdachi, Kuniko Kawai

26 August (Fri.) 09:15-11:15 Room C OC1-01 - OC1-08
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OC1-01 9:15-9:30

Behavioral survey of Pacific white-sided dolphins visiting Volcano Bay, Muroran

○YUKI F. KITA, Riho Tsushima, Kotoe Sasamori

OC1-02 9:30-9:45

Effects of drag reduction during formation locomotion in adult captive dolphins

○TAIGA NISIMURA, Tomoko Mori, Masaki Sakakibara, Mai Sakai

OC1-03 9:45-10:00

Group composition and call type frequency of killer whales (*Orcinus orca*) in Nemuro Strait, Hokkaido, Japan

○AIMI KITAURA, Chihiro Ogawa, Hiroshi Ohizumi, Yuki F. Kita, Shigeo Saino, Fumio Nakahara, Yoko Mitani, Motoi Yoshioka

OC1-04 10:00-10:15

Development of social behavior between mother and daughter in captive killer whales

○YOSHIHIRO MOTOMURA, Koji Kanda, Mahiro Ryono, Seiki Konno, Mai Sakai

OC1-05 10:15-10:30

Distances between young male sperm whales in a feeding area.

○MITSUKI MOMOSE, Hayao Kobayashi, Masao Amano

OC1-06 10:30-10:45

Ecological survey of Pacific white-sided dolphin visiting the Volcano Bay using marine environmental data

○NATSUMI KUROSAKI, Kotoe Sasamori, Yuki F. Kita

OC1-07 10:45-11:00

Diet of bottlenose dolphins (*Tursiops truncatus*) stranded in Nagasaki Prefecture, Japan

○FUMIKA NOTO, Masao Amano

OC1-08 11:00-11:15

Intraspecific variations in the food habits of *Peponocephala electra* off Kii Peninsula

○MISA TAKAHASHI, Hiroshi Ohizumi

27 August (Sat.) 09:00-10:30 Room A OA2-01 - OA2-06

OA2-01 9:00-9:15

Acoustic monitoring of bats around an irrigation pond

○TATSUYA NORO

OA2-02 9:15-9:30

Heterochrony of limb development with implications for the evolution of flight and grasp capability in bats

○TARO NOJIRI, Ingmar Werneburg, Vuong Tan Tu, Dai Fukui, Toshiko Furutera, Masaki Takechi, Daisuke Koyabu

OA2-03 9:30-9:45

Skull morphological variation in *Rhinolophus nippon* using 3-dimensional geometric morphometrics

○YUGO IKEDA, Kim Yoo-kyung, Oh Hongshik, Masaharu Motokawa

OA2-04 9:45-10:00

The driver of altitudinal home range shift of a Japanese macaque troop in Ishikawa, examined by NDVI

○TORU OI, Yoichi Fujihara

OA2-05 10:00-10:15

Current distribution of Japanese macaques (*Macaca fusucata*) in Mount Goyo areas, Iwate prefecture

○TAKEHARU UNO, Kentaro Seki, Taiji Onoda, Shunpei Tasaki, Yuudai Takaoka, Hayate Tsutsui, Fumiharu Konno, Takuya Kinota

OA2-06 10:15-10:30

A genetic study on the Japanese macaque population in Mt. Goyo area

○YOSHI KAWAMOTO, Takeharu Uno, Toru Oi

27 August (Sat.) 09:00-10:30 Room B OB2-01 - OB2-06

OB2-01 9:00-9:15

Effect of crop guardian dogs on prevention of wildlife intrusion in agricultural fields

○MIYABI NAKABAYASHI, Rin Nagira

OB2-02 9:15-9:30

Machine learning based individual re-identification of sika deer using spotting coat

○ RYO AKASHI, Junya Sunagawa, Hikaru Miura, Shinji Nakaoka, Takashi Hayakawa

OB2-03 9:30-9:45

Comparison of survey techniques between spotlight and thermal imaging camera to count sika deer population

○SHINGO YOSHIDA, Masahiro Ohnishi, Riku Tomita, Tadanobu Okumura

OB2-04 9:45-10:00

Accuracy of estimating the reproductive rate of sika deer by camera trapping

○RYUTA NISHI, Naoko Higuchi, Hideharu Tsukada, Masato Minami

OB2-05 10:00-10:15

Regional differences in the conception date of female wild boars estimated from the first observation date of piglets in camera traps and the related factors

○AKITAKA OMORI, Tomoya Shichijo, Takashi Ikeda, Daishi Higashide, Takaaki Suzuki

OB2-06 10:15-10:30

Irruptive dynamics of sika deer: Search for the mechanism

○KOICHI KAJI, Kazutaka Takeshita

27 August (Sat.) 09:00-10:30 Room C OC2-01 - OC2-06

OC2-01 9:00-9:15

Contribution of harbor seals to kelp overgrowth in Erimo

○MARI KOBAYASHI, Shouta Taguchi, Takanori Kuribayashi, Noriko Azuma, Shun Ikuta

OC2-02 9:15-9:30

Hairs from spotted seal change shape with water content

○YUKARI NISHITA, Shinobu Nagase, Shinichi Saga, Gen Bandou

OC2-03 9:30-9:45

The analysis of the otariids' hind limb movements and the comparison with terrestrial plantigrades

○FUMIHIRO MIZUNO, Noki Khono

OC2-04 9:45-10:00

The automatic hooking mechanism of manual claws in *Choloepus didactylus* (Pilosa, Mammalia)

○KENTA KATO, Shin-Ichi Fujiwara

OC2-05 10:00-10:15

Development of species identification method using images of animal guard hair cuticles with machine learning

○KEI NISHIWAKI, Junji Moribe

OC2-06 10:15-10:30

A preliminary population genetic analysis of humpback whales off Hachijo Island, Japan

○MARIN MIYAGI, Naohisa Kanda, Gen Nakamura, Hiroto Murase, Mioko Taguchi, Taiki Katsumata, Mutsuo Goto, Shingo Tamura, Tadashi Yamakoshi

29 August (Mon.) 09:00-10:45 Room A OA4-01 - OA4-07

OA4-01 9:00-9:15

Factors affecting feeding rates of oral swine fever vaccine in wild boar populations

○TAKASHI IKEDA, Daishi Higashide, Takaaki Suzuki, Makoto Asano

OA4-02 9:15-9:30

The mitigation effect of capturing nuisance wildlife with community-based guard fence maintenance on the damage caused by wild boars and deer

- Quantitative / Qualitative Evaluation of Improving Damage and Awareness Using Action Research

○NAOTO YAMABATA

OA4-03 9:30-9:45

Development of deer harvesting strategies in high-altitude farming region: application of step selection functions

○MASAHIRO OHNISHI, Tadanobu Okumura, Shingo Yoshida, Riku Tomita

OA4-04 9:45-10:00

Seasonal home range and habitat selection patterns of sika deer *Cervus nippon* in southern Hokkaido, Japan

○LAURETTA ANDREW LANENG, Yasuyuki Tachiki, Rika Akamatsu, Kohei Kobayashi, Chihiro Takahata, Futoshi Nakamura

OA4-05 10:00-10:15

Locality of population density and hunting intensity for sika deer *Cervus nippon* in Kushiro, Hokkaido of Japan

○MAYUMI UENO, Hayato Iijima, Yoshihiro Inatomi, Hiroyuki Uno, Saya Yamaguchi

OA4-06 10:15-10:30

A drone-based monitoring method for sika deer and Japanese serows in alpine grasslands

○TAKEHIKO ITO, Yuko Fukue, Masato Minami

OA4-07 10:30-10:45

The negative effects on Japanese serows by unintentional captures using snare traps

○AKO NAGASAKI, Risa Otsuka, Chizuru Suda, Hiroaki Chikakiyo, Takahiro Inoue, Tsuyoshii Takeshita, Hideharu Tsukada, Masato Minami

29 August (Mon.) 09:00-11:00 Room B OB4-01 - OB4-08
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OB4-01 9:00-9:15

Comparison of diet of the Iriomote cat between growth stages based on stomach contents analysis

○NOZOMI NAKANISHI, Masako Izawa

OB4-02 9:15-9:30

Food habits of Japanese badger: relationship with food availability

Yuuki Shikama, ○YAMATO TSUJI

OB4-03 9:30-9:45

Seasonal change of small Japanese badger setts usage among sympatric carnivores

○YUSUKE TAKADA, Hiroshi Tsunoda, Yayoi Kaneko

OB4-04 9:45-10:00

Local spatial use of Asiatic black bears around human settlements: considering spatio-temporal factors

○TOMOKI MORI, Shigeyuki Izumiyama



OB4-05 10:00-10:15

Dietary status and protein intakes of Asiatic black bears depending on soybean fields

○SOUTA WATANABE, Sigekazu Kurakake, Kiyoshi Yamauchi

OB4-06 10:15-10:30

Seasonal habitat change of four carnivores in a Tama river bank in spring and summer

○ZHOU HAoyu, Emi Kuboshima, Yayoi Kaneko

OB4-07 10:30-10:45

Dietary changes in raccoon dogs and Japanese martens on a small island immediately after and a few years after the invasion of sika deer

○TSUKASA TANIGUCHI, Runa Doi, Mizuki Aoki, Emina Horichi, Koutaro Kubo, Eiji Inoue, Masato Minami, Hideharu Tsukada

OB4-08 10:45-11:00

Current status of alien mammals and birds on the oceanic Kitadaito-jima Island, the Ryukyu Archipelago

○SHUN KOBAYASHI, Masako Izawa, Sayaka Horie, Takeshi Sasaki, Tetsuo Denda

29 August (Mon.) 09:00-10:45 Room C OC4-01 - OC4-07
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OC4-01 9:00-9:15

Economic cost of biological invasions in Japan

○YUYA WATARI, Hirotaka Komine, Elena Angulo, Christophe Diagne, Liliana Ballesteros-Mejia, Franck Courchamp

OC4-02 9:15-9:30

Changes of bare land area in Uotsuri-Jima Island in Senkaku Islands from 2000 to 2019, based on high-resolitional artificial satellite images

Yoshimura Kazumichi, Masami Kaneko, Buho Hoshino, ○YASUSHI YOKOHATA

OC4-03 9:30-9:45

Evaluating diurnal activity of sympatric mammals by camera traps to enhance opportunities for observation

○MASAFUMI SHIGEMATSU, Koji Hijikata, Tomomi Harada, Ikuya Sinohara, Masato Minami, Hideharu Tsukada

OC4-04 9:45-10:00

Fencing for CSF in Gifu: construction, maintenance, and animal crossing

○TAKAAKI SUZUKI, Takashi Ikeda, Daishi Higashide, Tsugumi Nose, Tomoya Shichijo, Masatsugu Suzuki

OC4-05 10:00-10:15

Attempts to spatially monitor the relative abundance of wildlife by camera trapping

○ DAISHI HIGASHIDE, Takashi Ikeda, Takaaki Suzuki, Tomoya Shichijo, Tomokazu Kusakabe

OC4-06 10:15-10:30

Transfer of radioactive cesium from mothers to embryos through placenta in wild rodents and effect on their population inhabiting contaminated area by the Fukushima Daiichi Nuclear Power Plant Accident

○FUMIO YAMADA, Morihiko Tomozawa, Kei Okuda, Fumikazu Kikuchi, Toru Koizumi, Toru Oi, Shin-ichi Horino, Yuya Watari, Takuya Shimada

OC4-07 10:30-10:45

Revealing feeding strategy of two Japanese field mouse species (*Apodemus argenteus* and *Apodemus speciosus*) on damaged understory vegetation by sika deer (*Cervus nippon*) using DNA metabarcoding

○FAJRIN SHIDIQ, Yuji Isagi, Atsushi Takayanagi

## Poster Session

### Poster Award Candidates (★)

Speed Talk: 26 August (Fri.) 11:30-12:10 (Poster Exhibition 1 P01-P10, Poster Exhibition 2 P20-P29, Poster Exhibition 3 P39-P48), 12 : 40-13 : 20 (Poster Exhibition 1 P11-P19, Poster Exhibition 2 P30-P38, Poster Exhibition 3 P49-P57)  
Core Time: 26 August (Fri.) 13 : 30-14 : 30 (P01-P57)

### Non-Poster Award Candidates

Speed Talk: 27 August (Sat.) 10:40-11:40 (Poster Exhibition 1 P58-P70, Poster Exhibition 2 P71-P83, Poster Exhibition 3 P84-P95)  
Core Time: 27 August 11:50-12 : 50 (P58-P95)

26 August (Fri.) Poster Exhibition 1

Speed Talk 1 11:30-12:10 / Core Time 13:30-14:30

P-01★

Niche partitioning between Reeves's muntjacs and sika deer in habitat utilization and diel activity

○DAISUKE UENO, Toshihide Hirao

P-02★

Bone morphological changes associated with the unguligrade evolution based on three-dimensional data of extremities of limb in sub-unguligrades

○SEI-ICHIRO TAKEDA, Hideki Endo

P-03★

Comparison of hoof morphology between sika deer and Japanese serow

○NOZOMI SUEKI, Kei Nishiwaki, Yui Kobatake, Mami Murakami, Junji Moribe

P-04★

Evaluation of genetic diversity and phylogenetic relationships of wild sika deer populations in Hokkaido and Gifu using microsatellite analysis

○GOU OTANI, Junji Moribe, Masatsugu Suzuki, Ryo Tadano

P-05★

Unique molar agenesis found in wild sika deer: from evolutionary perspectives

○MUGINO KUBO, Daniela Winkler

P-06★

Are Japanese serow more concern with plants than sika deer? Interspecific comparison of foraging behavior between territorial and non-territorial ungulate

○HAYATO TAKADA

P-07★

Why can sika deer occupy forests with heavy snow? -Wintering strategies evaluated by a habitat model-

○MOERI AKAMATSU, Haruka Enari, Junpei Yamashita, Yosuke Sembongi, Hiroto Enari

P-08★

Seasonal changes in interspecific interactions among the omnivorous mammalian scavengers on deer carcasses

○AKINO INAGAKI, Maximilian L. Allen, Kahoko Tochigi, Tetsuya Maruyama, Shinsuke Koike

P-09★

How wild boars affect forest-dwelling amphibians through wallowing behaviors?

○KAEDE SAKYO, Yuui Habe, Yoshihiro Nakasima

P-10★

Effects of local environmental factors on train-deer collisions

○HIDENORI NOZAWA, Masaki Ando

26 August (Fri.) Poster Exhibition 1

Speed Talk 4 12:40-13:20 / Core Time 13:30-14:30

P-11★

Effectiveness of lightweight net-made enclosure traps devised to capture sika deer

○KEIZOU TSUNOKAWA, Mituyoshi Nishimura, Hiroyuki Yamamoto

P-12★

Detailed cranial ontogeny of known age Steller's sea lion *Eumetopias jubatus* individuals

○RYUNOSUKE YUGE, Yumi Kobayashi, Orio Yamamura

P-13★

Dietary analyses on a mass-stranding event of Dall's porpoise (*Phocoenoides dalli*) in Hokkaido, Japan

○AYAKA MATSUDA, Ayano Kuwagaki, Mari Kobayashi, Takashi F. Matsuishi

P-14★

Which alien mammals prey on avian eggs? -an experiment using artificial nests in Kanagawa prefecture, Japan

○AKANE KANDA, Riku Taniguchi, Yoshihiro Nakashima

P-15★

Evolutionary and functional morphology of orbit in kangaroos and koalas

○RIKA NAKAGAWA, Hideki Endo

P-16★

Characteristics of forest roads used by mammals: Effects of pavement and vegetation

○MIO SUZUKI, Masayuki Saito

P-17★

Preprocessing for wildlife GPS data: methods to remove questionable data other than outliers

○HIROFUMI HIRAKAWA, Akiko Takii, Shigeyuki Izumiyama, Daisuke Muramatsu, Marcelo Gordo

P-18★

Infestation of wildlife inside and outside the sanitation control zone of the pig farm

○TOMOYA SHICHIJO, Daishi Higashide, Akitaka Omori, Takashi Ikeda, Takaaki Suzuki, Masatsugu Suzuki

P-19★

Effects of the designation of long-term evacuation orders due to the Fukushima Daiichi Nuclear Power Plant accident on the habitat conditions of medium and large sized mammals

○RIKI YAMANE, Koji Yamazaki

26 August (Fri.) Poster Exhibition 2

Speed Talk 2 11:30-12:10 / Core Time 13:30-14:30

P-20★

Fecal sample analysis of captured free-ranging cats in Natural World Heritage, Tokunoshima Island

○KAHO TAKAHASHI, Kaishi Suzuki, Asahi Izawa, Kazumi Shionosaki, Yuya Watari, Tadashi Miyashita

P-21★

Development of environmental DNA-based method for detecting small Indian mongoose *Urva auropunctata* from water and soil

○TOMOMI ARATANI, Yuka Iguchi, Ryohei Nakao, Takuma Sato, Takamichi Jogahara, Takahiro Morosawa, Tomonori Kawamoto, Masaki Asano, Takuma Hashimoto

P-22★

Seasonal changes in frequently used spots by the masked palm civet (*Paguma larvata*) in urban areas of Morioka City, Iwate Prefecture, Japan

○YOSHIKI FUKUSHIMA, Koji Harashina, Chiaki Nishi

P-23★

Sexual dimorphism of skeletal morphology in the raccoon dog: towards sex determination of roadkill remains

○REIKA TAKEMOTO, Satoshi Suzuki, Yayoi Kaneko

P-24★

Effects of male-biased dispersal on the island population's formation of brown bears *Ursus arctos*, revealed by ddRAD-seq method

○YU ENDO, Naoki Osada, Tsutomu Mano, Atsushi Nagano, Ryuichi Masuda

P-25★

Influence of human presence on behavioral patterns of Japanese marten

○SHU MORIKAWA, Hiroshi Tsunoda, Toshihide Hirao

P-26★

GPS tracking of brown bears captured in crop fields in Shimukappu Village, Hokkaido

○TETSUJI ITOH, Yui Nemoto, Michito Shimosuru, Toshio Tsubota, Tsuyoshi Urata

P-27★

Basic research for the vocal communication of Eurasian otter

○CHIHO NAKAMURA, Mao Morimoto, Hiroshi Ogawa

P-28★

Selection and movement patterns of Asian black bear on the roads

○SEUNGYUN BAEK, Aya Shimazaki, Kahoko Tochigi, Tomoko Naganuma, Akino Inagaki, Koji Yamazaki, Shinsuke Koike

P-29★

Examination of animal traits affecting the interspecific difference in the number of attached epizoochorous seeds

○KANON SATO, Shinsuke Koike, Yusuke Goto

26 August (Fri.) Poster Exhibition 2

Speed Talk 5 12:40-13:20 / Core Time 13:30-14:30

P-30★

Dietary overlap among three sympatric medium-sized carnivores in cool-temperate zone

○TAKAAKI ENOMOTO, Ryoga Watabe, Masayuki Saito



P-31★

Effects of extermination at the range margins on the spatial genetic structure of brown bear populations

○ATSUSHI ODANAKA, Shizuka Kikuti, Natsuki Fukushima, Tetsuzi Ito, Yasuyuki Ishibashi, Yoshikazu Sato

P-32★

Validation of early pregnancy diagnosis in brown bears transcriptome changes in maternal immune system related to delayed implantation

○ASUKA NISHIJIMA, Yojiro Yanagawa, Naoya Matsumoto, Kyogo Hagino, Hideyuki Sakamoto, Takashi Hayakawa

P-33★

Implementation status of fences and electric fences to resolve human-wildlife conflict in the urban and suburban kitchen garden, Sapporo, Hokkaido

○TAIKI ITO, Iwao Ogawa, Tohru Ikeda

P-34★

Genetic structure analysis of brown bear population in Central Hokkaido

○HONAMI SHIBATA, Yoshikazu Sato, Hifumi Tsuruga, Yuri Shirane, Tetsuji Itoh

P-35★

Evaluation of the usefulness of hair progesterone measurement in black bears: Can we infer past reproduction from body hair hormones?

○TOUI TAKI, Ayano Kumaki, Hiroo Tamatani, Junpei Tanaka, Gen Oosima, Toshiaki Yamamoto, Tatuki Shimamoto

P-36★

Histological study on the taste buds of the lesser Japanese mole (*Mogera imaizumi*)

○YUINA SESHUYAMA, Takeshi Sasaki

P-37★

Genitalia morphology of the genus *Mogera* 2

○HIROKI KONNO, Shuji Kobayasi

P-38★

Comparative geographic variation of the cranial morphology of the Japanese shrew moles *Urotrichus talpoides* and *Dymecodon pilirostris*

○SHINYA OKABE, Masaharu Motokawa

26 August (Fri.) Poster Exhibition 3

Speed Talk 3 11:30-12:10 / Core Time 13:30-14:30

P-39★

Factors determining the composition of bat assemblages in the Japanese archipelago

○TAKAHIRO MAKI, Nozomi Sannomiya, Toshihide Hirao, Dai Fukui

P-40★

Home-range area and diet of the Japanese monkey (*Macaca fuscata*) in Muroto, Kochi

○KANA TERAYAMA, Motomi Genkai-Kato

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Occurrence of dormant-endozoochory tardigrades in northern pika feces

○ERIKA YOSHIDA, Tomoki Sakiyama, Hirotaka Katahira

P-42★

How do pathogens introduced into urban ecosystems spread? An empirical study on an exotic threadworm of arboreal squirrels

○YUYA EGUCHI, Akira Chijiwa, Tatsuki Shimamoto, Hirotaka Katahira

P-43★

Changes in the habitat of nutrias in Gifu Prefecture and around Japan

○HARUKA MORI, Junji Moribe

P-44★

Dental anomalies in Ryukyu mouse *Mus caroli* (Rodentia: Muridae) from Okinawajima Island, Japan

○WAI MIN THU, Shinya Okabe, Masaharu Motokawa

P-45★

Functional morphology of atlas of ground-dwelling *Marmotini*

○KANG HYEJI

P-46★

Sex differences in the effects induced by the early-life social separation on the behavioral developments in *Octodon degus*

○RINA UKYO, Chihiro Koshimoto, Akio Shinohara, Goro Nagura, Seiji Ieiri, Shinsuke Sakamoto

P-47★

Why do Siberian flying squirrels communally nest during non-winter seasons?

○HAYATO KIKUCHI, Tatsuo Oshida

P-48★

Morphological and histological characteristics of penis in hamsters (Cricetida: Cricetinae)

○TAKASHI YATO, Akio Shinohara, Masaharu Motokawa

26 August (Fri.) Poster Exhibition 3

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Distribution and nesting conditions of the Japanese harvest mouse *Micromys minutus* in the Takahashi River basin, Okayama Prefecture, Japan

○TAKANE OTSUKI, Shuji Kobayashi

P-50★

Basic research on the reproductive behavior of *Apodemus argenteus*:  
Relationship between changes in the amount of nesting material and  
reproductive activity

○NORI SASAKI, Yuiha Tanabe, Yukiko Honma, Koharu Yano, Ayumu Teruuti,  
Sumire Murakami, Hayato Kikuchi, Tatuo Oshida

P-51★

Resource utilization of the Siberian flying squirrel *Pteromys volans orii* in natural  
broad-leaved forest in Hokkaido, Japan

○YUKIKO HOMMA, Koharu Yano, Nori Sasaki, Yuiha Tanabe, Ayumu Teruuchi,  
Sumire Murakami, Hayato Kikuchi, Yasuhiro Utumi, Tatuo Oshida

P-52★

Resting site selection by Japanese hares in a heavy snowfall environment

○YUIKA SUZUKI, Mio Suzuki, Ryoga Watabe, Masayuki Saito

P-53★

A record on predation of a juvenile Ryukyu long-furred rat *Diplothrix legata* by  
the jungle crow *Corvus macrorhynchos*

○TEPPEI HIGASHI, Shun Kobayashi

P-54★

Conifer plantation as habitat for Japanese squirrels in a cool temperate zone

○SUZUKA HONDA, Masayuki Saito

P-55★

Do you know the call of Siberian flying squirrels?

○RINA SASAKI, Yushin Asari

P-56★

Partial arousals from hibernation of the Japanese dormouse (*Glirulus japonicus*)  
in an artificial forest in Yamaguchi prefecture

○HARUKA SUEHIRO, Hiroshi Tanaka, Eiji Hosoi

P-57★

Ecological study on the habitat of Flying squirrels (*Pteromys Volans orri*) inhabiting the suburbs of the urban area: Focusing on the interactions with the specific exotic raccoon(*Procyon lotor*)

○JIA WEI, Tohru Ikeda

27 August (Sat.) Poster Exhibition 1

Speed Talk 7 10:40-11:40 / Core Time 11:50-12:50

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The development of SOAP clinical records for wildlife damage management diagnosing

○YUTAKA YOSHIDA

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Effective oral vaccination method using concrete blocks for wild boars

○MITSUYOSHI NISHIMURA, Naoki Ishii, Motohiro Ishihara

P-60

How wide does the hippopotamus's mouth open?

○KENT MORI

P-61

Long-term monitoring of sympatric sika deer and Japanese serow using camera traps

○SATSUKI NAKAMORI, Hidenori Nozawa, Satsuki Funatsu, Masaki Ando

P-62

Feeding habits of Japanese serow in the Ome Hills, central Japan

○SHINSUKE KOIKE, Nami Maeda

P-63

The habitat use of sika deer referring sex, season, and behavior in the Tanzawa Mountains

○ ZHAO-WEN JIANG, Yosuke Mori, Koji Nagata, Takayuki Haneda, Aki Mitsuhashi, Natsuki Mitsui, Koya Nagai

P-64

The relationship between utilization of crop fields and prevalence of infectious disease of cattle in wild deer

○ AYAKA HATA, Yuto Suda, Chinatsu Kozakai, Rumiko Nakashita

P-65

Research on performance evaluation using leg snare with various specifications

○ SHIN KURATO, Maki Yamamoto, Yosinari Kanki

P-66

Survey of crop and ground damage by wild boar in Isari, Morioka, Iwate Prefecture

○ TOMOMI KAMADA, Takahiro Otake, Yoshitaka Deguchi

P-67

Survey of distribution expansion of sika deer in the Chugoku region

○ CHIZURU YAYOTA, Teruki Oka

P-68

Decrease in wild boar population density in Osaka Prefecture due to the spread of classical swine fever

○ RYOSUKE KODA, Yuzuru Ishizuka

P-69

Observations of flipper rubbing in mother-calf pairs of captive bottlenose dolphins (*Tursiops truncatus*) suggest a body-surface care function

○ MAI SAKAI, Hiroshi Katsumata, Shiro Kohshima

P-70

Cetacean forelimb fossils from the Mandano Formation (Chibanian) in the Boso Peninsula

○SATOSHI MARUYAMA, Masayuki Ichiwara, Yuichi Sugita, Yoshihiko Matsuura, Shinji Isaji, Hisayoshi Kato

27 August (Sat.) Poster Exhibition 2

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Biosecurity to prevent invasion of alien mammals: A case study of Amami Oshima Island after eradication of mongoose

○TAKUMA HASHIMOTO, Yoshihito Goto, Takahiro Morosawa, Tomonori Kawamoto, Yuka Iguchi, Tomomi Aratani, Masaki Asano

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Morphogenic process of the bony cerebellar tentorium in the postnatal masked palm civet (*Paguma larvata*) cranium

○KAZUHIRO KOYASU, Yayoi Ikeda

P-73

Behavioral changes in Asian black bears using agricultural crops

○AKIKO TAKII, Jo Hayashi, Hiromitsu Oosawa, Shigeyuki Izumiyama

P-74

Habitat use patterns of raccoon dogs in urban area

○AYAKA HASEGAWA, Yuki Hanawa, Sohei Watari, Koji Yamazaki

P-75

A case report on scavenging on a deer carcass by mammals in Yakushima

○YOSUKE KURIHARA

P-76

Behavior of Japanese badger around their setts in Teshiromori, Morioka, Iwate prefecture

○KAZUTO HISAMICHI, Maho Mikami, Yoshitaka Deguchi

P-77

Effects of construction work on medium-sized mammals in urban green areas

Rika Yasui, ○Takehiko Kamito

P-78

Analysis of individual factors associated with plasma testosterone levels in male Japanese black bears (*Ursus thibetanus*)

○JUMPEI TOMIYASU, Mitsunori Kayano, Ken Hazano, Motozumi Matsui, Yui Nemoto, Tomoko Naganuma, Koike Shinsuke, Koji Yamazaki

P-79

Characterization of raccoon behavior in specified reconstruction and revitalization base

○DAISUKE NAKAMURA, Masataka Yoshida, Chinatsu Kozakai, Ryusuke Fujimoto, Norihiro Hoshi, Masahiko Takeuchi

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Climbing ability of vertical bar in the Japanese marten and its change with aging

○HIRONORI UEDA, Soichiro Doyama, Keisuke Ishikawa

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Carbon and nitrogen stable isotope ratios of Asiatic black bears by unintentional capture around Ina City, Nagano

○RUMIKO NAKASHITA, Akiko Takii, Shigeyuki Izumiyama

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The difference of response to novel objects for middle-sized mammals

○RYOKO KOIZUMI, Toru Koizumi



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Rechecking fences: Damage management for wildlife

○TAKESHI HONDA

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Density estimation of random encounter model (REM) for grouping animal population

○KOHTA HAYASHI, Hayato Iijima

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Long-term acoustic monitoring of bats at the Sapporo Maruyama Zoo

○KUNIKO KAWAI, Shumpei Kamiyama, Eiru Ito, Saaya Someki, Yuuki Ohba

P-86

Social calls of the genus *Vespertilio* confirmed in autumn and early winter in Shimane Prefecture, Japan

○SEIYA ANDO, Mari Ishida, Jun Hatase, Yoshio Ueno, Hitomi Onuma

P-87

Development of Japanese macaque (*Macaca fuscata*) troop-based management strategies using mt-DNA phylogenetic relationship in Kyoto, Japan

○KESUKE KATO, Hiroshi Ebihara, Tetsuji Itoh, Yoshi Kawamoto

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Cave use by some mammalian species along Kurobe Gorge in eastern Toyama Prefecture of central Japan during 2021 winter

○KENJI KASHIWAGI

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Changes in the use of home range of Japanese macaques whose troop size decreased due to capture

○HIROSHI EBIHARA, Musashi Kuramoto

P-90

Complete capture of a harmfulness Japanese macaque troop by tranquilizer gun and box trap

○HIRONORI SEINO, Mitsuaki Goto

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Iridium GPS collar wearing demonstration test of Japanese macaques (*Macaca fuscata*)

○KIYOMASA MIKI, Yukari Naito, Hironori Seino, Musashi Kuramoto

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Chemical control of Pallas's squirrel *Callosciurus erythraeus* in a desert island of Japan

○MASATOSHI YASUDA

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Maintenance of the hybrid zone between the chromosomal races of *Apodemus speciosus*

○HIKARI MYOSHU, Masashi Harada, Masahiro A. Iwasa

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Temperature changes in the overwintering nest of harvest mouse and issues with measurement methods

○KUMIKO NAKAMURA

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Impacts of over-abundant Sika deer, *Cervus nippon*, on the winter habitat use of the mountain hare, *Lepus timidus*, on the Shireoko Peninsula, Hokkaido

○TAKAHIRO MURAKAMI, Masami Yamanaka, Tsuyoshi Ishinazaka, Takuya Murakami, Hideaki Okada