

September, 8(Friday)

				9	10	11	12	13	14	15	16	17	18	19	20	21	
General Education Building	A	First Floor	Entrance		Reception desk and information 9:45~19:00												
			Learning Commons		Cloakroom 9:45~19:00												
				Headquarter 9:00~21:00													
	C	First Floor	C11							F-01 15:00~17:00			F-04 17:30~19:30				
			C12							F-02 15:00~17:00		F-05 17:00~19:00					
			C13							Symposium-1 15:30~18:30							
	E	First Floor	E11		Business meeting 1 11:00~12:00			Business meeting 2 12:30~13:30			Business meeting 3 14:00~15:00					Business meeting 4 19:00~21:00	
			E12					Business meeting 5 12:00~13:00			Business meeting 6 13:30~14:30						
		Second Floor	E21		Business meeting 7 10:00~12:00			Business meeting 8 12:30~14:30			F-03 15:00~17:00			F-06 17:30~19:30			
			E22		Business meeting 9 10:00~12:00			Business meeting 10 12:30~14:30									
			E23					Business meeting 11 12:30~14:30									
			Refresh Room							Lounge 13:00~19:00							
		First Floor	E32		Business meeting 12 10:00~11:30			Business meeting 13 12:00~14:00			Business meeting 14 15:00~18:00						
			E34					Business meeting 15 12:00~13:30			Business meeting 16 14:00~16:00						
			9	10	11	12	13	14	15	16	17	18	19	20	21		

Business meetings

- 1, 7~13: Working groups of Committee of Conservation and Management
2. Committee of Public Information
3. Editorial board of a Japanese journal "Honyurui Kagaku [Mammalian Science]"
4. Meeting of Directors
5. Committee of Reviewing Taxon Names and Specimen Collections
6. Committee of the History of The Mammal Society of Japan
14. Committee of Conservation and Management
15. Committee of International Exchange
16. Editorial board of an international journal "Mammal Study"

Free meetings

- F-01: Effective use of Photogrammetry in Natural Museum
- F-02: What can we find via a genetic analysis? : Let's try DNA analysis!
- F-03: Invitation to the gross comparative anatomy -Insights into the evolution of the locomotor system in mammals-
- F-04: How to make new findings of animal ecology with camera traps
- F-05: Recent trends of international scientific journals and the characteristics of Mammal Study
- F-06: Searching for the roots of the Mammal Society of Japan (1)

Symposium

- Symposium-1: Abundance estimation methodologies for marine mammals: the current status and issues

September, 9 (Saturday)

			9	10	11	12	13	14	15	16	17	18	19	20	21	
Kuroda Hall	First Floor	Entrance Hall	Exhibition Booths 9:00~18:00													
		Congress Room	Symposium-2 9:00~12:00								F-07 17:00~19:00		F-11 19:00~21:00			
	Second Floor	Lobby	Exhibition Booths, etc. 9:00~18:00													
		Hall	Symposium-3 9:00~12:00		General Meeting 13:00~		Lectures for Prizes 14:30~17:00									
General Education Building	A	First Floor	Entrance	Reception desk and information 9:00~18:30												
			Learning Commons	Cloakroom 9:00~18:30												
					Headquarter 9:00~18:30											
		Second Floor	A21~23	Poster Session P1~60 (Core time for odd numbers 12:00~13:00) 9:00~18:00												
		Third Floor	A31~34	Poster Session P61~143 (Core time for odd numbers 12:00~13:00) 9:00~18:30												
	B	Second Floor	B21	Lounge 9:00~18:00												
	C	First Floor	C11	Oral Session OA1-12 9:00~12:00								F-08 17:00~19:00		F-12 19:00~21:00		
			C12	Oral Session OB1-12 9:00~12:00								F-09 17:00~19:00		F-13 19:00~21:00		
			C13								F-10 17:00~19:00		F-14 19:00~21:00			
			9	10	11	12	13	14	15	16	17	18	19	20	21	

#### Free meetings

F-07: How we organize culling options for sika deer management

F-08: Carnivore studies in urban areas, part 2

F-09: Assignment and outlook of the ecological studies on the Japanese serow (*Capricornis crispus*)

F-10: The Bear Management Plan by zoning and an evaluation of Japanese black bear density  
using camera trap in the Western Chugoku Area, Japan

F-11: Recent research on Tokudaia IV –A bridge between conservation and life science study–

F-12: Ethical issues concerning wildlife research in Japan and its perspective.

F-13: Issues surrounding Japanese serow management.

F-14: Persons or Technology? What is the leading part of wildlife management?

#### Symposia

Symposium-2: Where should next generation youth researchers and students head  
for –discussion with senior mammalogist–

Symposium-3: Application of chemical control for Mammals and its problems to be solved  
–Case study of Mongoose, Small rodent and sika deer–

September, 10 (Sunday)

			9	10	11	12	13	14	15	16	17	18	19	20
Kuroda Hall	First Floor	Entrance Hall	Exhibition Booths 9:00~18:00											
		Congress Room	Oral Session OB13-21 9:00~11:30		Special meeting 12:00~13:00									
	Second Floor	Lobby	Exhibition Booths, etc. 9:00~18:00											
		Hall	Oral Session OA13-26 9:00~13:00						Public Symposium 14:00~17:30					
General Education Building	A	First Floor	Entrance	Reception desk and information 9:00~18:30										
			Learning Commons	Cloakroom 9:00~18:30										
		Headquarter 9:00~18:30												
	Second Floor	A21~23	Poster Session P1~60(Core time for even numbers 13:00~14:00) 9:00~18:00											
	Third Floor	A31~34	Poster Session P61~143(Core time for even numbers 13:00~14:00) 9:00~18:30											
	B	Second Floor	B21	Lounge 9:00~18:00										
	C	First Floor	C11	F-15 9:00~11:00	F-17 11:00~13:00									
			C12	F-16 9:00~11:00	F-18 11:00~13:00									
	Restrant													Banquet 18:00~20:00
			9	10	11	12	13	14	15	16	17	18	19	20

Free meetings

F-15: Conducting cooperative research with "ZOOs". - Let's consider how to work together -

F-16: Direct / Indirect effects on wild mammals caused by radioactive contamination

F-17: Progress and challenges after the petition on "implementation of immediate management against feral cats on Amami Ohshima and Tokunoshima Islands" issued by the Mammal Society of Japan in 2015

F-18: The present issues of incidental capture of non-target animal in leg-binding traps

Public Symopjium: On the "Going up north" of wildboars and sika deer

September, 11 (Monday)

		910111213				
Kuroda Hall	First Floor	Entrance Hall	Reception desk and information・Exhibition Booths 9:00～13:00			
		Congress Room	Cloakroom and Headquarter 9:00～13:30			
	Second Floor	Lobby	Exhibition Booths, etc. 9:00～13:00			
		Hall		Oral Session OA27-42 9:30～13:30		
General Education Building	A	Second Floor	A21～23	Poster Session P1～60 9:00～13:00		
		Third Floor	A31～34	Poster Session P61～143 9:00～13:30		
	B	Second Floor	B21	Lounge 9:00～13:00		
	C	First Floor	C11		F-19 9:30～11:30	F-22 11:30～13:30
			C12		F-20 9:30～11:30	F-23 11:30～13:30
			C13		F-21 9:30～11:30	F-24 11:30～13:30
			910111213			

#### Free meetings

F-19: Genetic, developmental, and adaptational background of biodiversity:

investigation using morphological and genetic data extracted from biodiversity

F-20: Ecology of Rodents: A novel field is generated with deep insight

F-21: New attempts of macaque management: rethinking the relationship between science and society

F-22: How do you know the mammalian names?

F-23: Hot topics of conservation and management for small-medium sized carnivores in Japan:

Proposal for founding specialized working group in the Mammal Society of Japan

F-24: The current situations and the prospects of the issue of Exotic macaques

in Kii Peninsula and Boso Peninsula, Japan.

## Symposia

Sep 10(Sun) 14:00~17:30 Kuroda hall

### Public Symposium

On the “Going up north” of wild boars and sika deer

Yuji Yamazaki, Hidetoshi Tamate, Hiroto Enari, Kaoru Murase, Sakie Kido,  
Toshiyuki Sato, Jun Nakatani

Sep 8(Fri) 15:30~18:30 Room C13

### S-1

Abundance estimation methodologies for marine mammals: The current status and issues

Yu Kanaji, Hidehiro Kato, Takashi Hakamada, Kaoru Hattori, Mari Kobayashi,  
Toshihide Kitakado

Sep 9(Sat) 9:00~12:00 Kuroda hall conference room

### S-2

Where should next generation youth researchers and students head for

–Discussion with senior mammalogist–

Takashi Ikeda, Kenta Uchida, Yuki Matsumoto, Shun Kobayashi, Mio Shibuya,  
Daisuke Mizuguchi, Yoshinori Tojo

Sep 9(Sat) 9:00~12:00 Kuroda hall

### S-3

Application of chemical control for mammals and its problems to be solved

–Case study of mongoose, small rodent and sika deer–

Takamichi Jogahara, Takuma Hashimoto, Koichi Goka, Mitsuhiko Toda, Takahiro Ohba

## Free meetings

Sep 8 (Fri) 15:00~17:00 ROOM C11

F-01

Effective use of photogrammetry in natural museum

○KENT MORI, Tatsuya Shinmura, Masanori Yoshida, Akio Sasaki

Sep 8 (Fri) 15:00~17:00 ROOM C12

F-02

What can we find via a genetic analysis? : Let's try DNA analysis!

○YUKI MATSUMOTO, Naoki Ohnishi

Sep 8 (Fri) 15:00~17:00 ROOM E21

F-03

Invitation to the gross comparative anatomy

-Insights into the evolution of the locomotor system in mammals-

○MASAHIRO KOIZUMI

Sep 8 (Fri) 17:30~19:30 ROOM C11

F-04

How to make new findings of animal ecology with camera traps

○YOSHIHIRO NAKASHIMA, Hongo Shun, Nagano Hidemi, Nobuko Nakazawa,

Gota Yajima

Sep 8 (Fri) 17:00~19:00 ROOM C12

F-05

Recent trends of international scientific journals and the characteristics of Mammal Study

○HAYATO IJIMA

Sep 8 (Fri) 17:30~19:30 ROOM E21

F-06

Searching for the roots of the Mammal Society of Japan (1)  
Kazuhiro Koyasu, Shintaro Abe, ○KEIKO SONE, Sen-ichi Oda

Sep 9 (Sat) 17:00~19:00 Kuroda hall conference room

F-07

How we organize culling options for sika deer management  
○TAKAHIRO OHBA, Toru Koizumi, Mayumi Ueno, Koji Nagata, Yasutaka Kishimoto,  
Hiroyuki Uno

Sep 9 (Sat) 17:00~19:00 ROOM C11

F-08

Carnivore studies in urban areas, part 2  
○MASAYUKI SAITO, Yayoi Kaneko

Sep 9 (Sat) 17:00~19:00 ROOM C12

F-09

Assignment and outlook of the ecological studies on the Japanese serow (*Capricornis crispus*)  
○HAYATO TAKADA, Haruko Watanabe, Konoka Aiba, Mitsuko Hiruma,  
Ryosuke Kishimoto

Sep 9 (Sat) 17:00~19:00 ROOM C13

F-10

The Bear Management Plan by zoning and an evaluation of Japanese black bear density  
using camera trap in the Western Chugoku Area, Japan  
○SEIGO SAWADA, Hiroyuki Tado, Takeshi Fujii, Yoshihiko Sawabe, Seigo Kaji,  
Masahiro Komiya, Hiroki Kanamori

**Sep 9 (Sat) 19:00~21:00 Kuroda hall conference room**

F-11

Recent research on Tokudaia IV -A bridge between conservation and life science study-  
○TAKAMICHI JOGAHARA, Chihiro Koshimoto, Masatoshi Yasuda, Nobuhiko Kodaka,  
Asato Kuroiwa

**Sep 9 (Sat) 19:00~21:00 ROOM C11**

F-12

Ethical issues concerning wildlife research in Japan and its perspective.  
○YOSHIKI MORIMITSU, Koichi Kaji

**Sep 9 (Sat) 19:00~21:00 ROOM C12**

F-13

Issues surrounding Japanese serow management.  
○YUSAKU YAMADA, Yoshikazu Seki

**Sep 9 (Sat) 19:00~21:00 ROOM C13**

F-14

Persons or technology? What is the leading part of wildlife management?  
○SHIGEKI HIRATA, Naoto Yamabata, Takeshi Honda, Yuuji Kodera, Tsutomu Takeda,  
Masahiko Takeuchi, Chizuru Yayota

**Sep 10 (Sun) 9:00~11:00 ROOM C11**

F-15

Conducting cooperative research with "ZOOs". -Let's consider how to work together -  
○JUN HATASE, Shuji Kobayashi, Megu Gunji, Kaoru Kiyasu, Hitoshi Murai



**Sep 10(Sun) 9:00~11:00 ROOM C12**

F-16

Direct / indirect effects on wild mammals caused by radioactive contamination

○KEI OKUDA, Manabu Onuma, Toru Oi, Fumio Yamada, Hiroko Ishiniwa, Yusuke Urushihara, Ryusuke Fujimoto, Shingo Kaneko

**Sep 10(Sun) 11:00~13:00 ROOM C11**

F-17

Progress and challenges after the petition on “implementation of immediate management against feral cats on Amami Ohshima and Tokunoshima Islands” issued by the Mammal Society of Japan in 2015

○FUMIO YAMADA, Kazumi Shionosaki, Yuya Watari, Rumiko Nakashita, Satoshi Morosaka, Hidenori Kusakari, Nobuo Ishii

**Sep 10(Sun) 11:00~13:00 ROOM C12**

F-18

The present issues of incidental capture of non-target animal in leg-binding traps

○YUKO FUKUE, Tsuyoshi Takeshita, Masato Minami

**Sep 10(Sun) 12:00~13:00 Kuroda hall conference room**

SP1

Set out to “Research Life Balance” -The 1st lunch meeting-

○CHINATSU KOZAKAI, Noko Kuze, Mugino Kubo

**Sep 11(Mon) 9:30~11:30 ROOM C11**

F-19

Genetic, developmental, and adaptational background of biodiversity: investigation using morphological and genetic data extracted from biodiversity

○MASAKAZU ASAHARA, Hitoshi Suzuki, Takushi Kishida, Yoshihito Niimura

**Sep 11 (Mon) 9:30~11:30 ROOM C12**

F-20

Ecology of Rodents: A novel field is generated with deep insight

○SHINSUKE H. SAKAMOTO, Takashi Saitoh, Yoshinobu Okubo

**Sep 11 (Mon) 9:30~11:30 ROOM C13**

F-21

New attempts of macaque management: Rethinking the relationship between science and society

○HIROTO ENARI, Yamato Tsuji, Yosuke Otani, Masaaki Takiguchi, Katsuya Suzuki

**Sep 11 (Mon) 11:30~13:30 ROOM C11**

F-22

How do you know the mammalian names?

○SHIN-ICHIRO KAWADA

**Sep 11 (Mon) 11:30~13:30 ROOM C12**

F-23

Hot topics of conservation and management for small-medium sized carnivores in Japan:

Proposal for founding specialized working group in the Mammal Society of Japan

○YAYOI KANEKO, Satoshi Suzuki, Shigeki Watanabe

**Sep 11 (Mon) 11:30~13:30 ROOM C13**

F-24

The current situations and the prospects of the issue of exotic macaques in Kii Peninsula and Boso Peninsula, Japan.

○KEI SHIRAI, Yoshi Kawamoto

## Oral Session

Sep 9 (Sat)9:00~12:00 Room C11

OA-01 9:00~9:15

Characterization of male reproductive organs and sexual behavior in long-clawed shrew

○YUICHI KAMEYAMA, Yui Murata, Gaku Shimoi

OA-02 9:15~9:30

Fold-and-eat behavior of moles for earthworms, and its relevant factors

○KOICHI HIMI, Shigenobu Suzuki, Tomohiro Shimizu, Kazumichi Yoshimura,  
Yasushi Yokohata

OA-03 9:30~9:45

Taxonomic position of the Japanese mountain mole

○SHIN-ICHIRO KAWADA

OA-04 9:45~10:00

Comparison of frequency in use of wire-mesh tunnels with different diameters between  
two species of Japanese moles

○KAZUMICHI YOSHIMURA, Tomohiro Shimizu, Shigenobu Suzuki, Kouichi Himi,  
Yasushi Yokohata

OA-05 10:00~10:15

Mass mortality of Malayan flying lemur (*Galeopterus variegatus*) and its causal factors

○YAMATO TSUJI, Widayati Arum Kanthi, Suryobroto Bambang

OA-06 10:15~10:30

Decoding the message behind touch-baby-genital behavior in stump-tailed macaques  
(*Macaca arctoides*)

○CHEDHAWAT CHOKECHAIPASARN, Suchinda Malaivijitnond

OA-07 10:30~10:45

Verification of damage management by wild Japanese macaque troop with analysis of  
Brownian Bridge kernel method

○KENJI IMAI, Yutaka Yoshida

OA-08 10:45~11:00

Did continuous countermeasures and population control against macaques effect the  
agricultural damage and macaques behavior?

○NAOTO YAMABATA

**OA-09 11:00~11:15**

Melanin synthetic ability of Japanese macaque with white hair in Azuma mountain range (Yamagata area)

○AYAKA ONO, Hidetoshi Tamate, Takaharu Kozakai

**OA-10 11:15~11:30**

Genetic monitoring of hybridization with alien species: Development of multiplex SNP analysis and its application to hybrid evaluation with rhesus macaques in Boso Peninsula

○YOSHI KAWAMOTO, Sakie Kawamoto, Yuzuru Hamada,

Hisashi Yamakawa, Youji Naoi, Ko Hagihara, Daisuke Shiratori, Kei Shirai,

Yoshifumi Sugiura, Yasuhiro Go, Shoji Tatsumoto, Hironaga Kakoi, Shin-Ichi Hayama,

Tamaki Maruhashi

**OA-11 11:30~11:45**

A statistical model for detecting the change of haplotype frequency

○KAORI MURASE

**OA-12 11:45~12:00**

The population size using fecal DNA genotyping in Amami rabbit (*Pentalagus furnessi*).

○OSAMU MASUKO, Masatoshi Nakamura, Keita Nakamura, Naoko Yoshizato,

Takamasa Kanno, Kazumi Tago

**Sep 9 (Sat)9:00~12:00 Room C12**

**OB-01 9:00~9:15**

First record of the dense colony consisting of pregnant females of the Hilgendorf's tube-nosed bat (*Murina hilgendorfi*), with special reference to their ecology in the Kyushu District, Japan

○KIMITAKE FUNAKOSHI, Hirofumi Watanabe

**OB-02 9:15~9:30**

Change of bat population during ten years at the Okubo-mabu tunnel in Iwami Ginzan Silver Mine World Heritage.

○SEIYA ANDO, Junji Oohata

**OB-03 9:30~9:45**

A sex determination by machine learning methods based on cranial measurements of the killer whales off the pacific coast of Japan.

○MEGUMI TAKAHASHI, Hidehiro Kato, Toshihide Kitakado

**OB-04 9:45~10:00**

Comparative Study of Masticatory Muscles among Species of Carnivora

○KAI ITO, Hideki Endo

- OB-05 10:00~10:15**  
 Identification of spotted seals (*Phoca largha*) using platform Labellio deep learning AI  
 ○MIO SHIBUYA, Mari Kobayashi, Hidenori Takai
- OB-06 10:15~10:30**  
 Consideration for records of the otter in Kyushu, Japan  
 ○NOZOMI NAKANISHI, Masako Izawa
- OB-07 10:30~10:45**  
 The distribution and genetic survey of the sable (*Martes zibellina*) on the border “Maoi hilly area”, Hokkaido, Japan  
 ○GOHTA KINOSHITA, Takuma Sato, Shota Murakami, Hirofumi Hirakawa, Hitoshi Suzuki, Yuji Isagi
- OB-08 10:45~11:00**  
 Molecular evolution of MHC class II *DRB* gene in the Eurasian badger genus *Meles*  
 ○ABDURIYIM SHAMSHIDIN, Yoshinori Nishita, Pavel A. Kosintsev, Evgeniy Raichev, Rsito Väinölä, Alexey P. Kryukov, Alexei V. Abramov, Yayoi Kaneko, Ryuichi Masuda
- OB-09 11:00~11:15**  
 Internal structure and contents of Japanese badger setts in breeding  
 ○HIROSHI TANAKA, Etuko Yuuki, Yukihiro Fukuda
- OB-10 11:15~11:30**  
 The diet and the habitat use of Japanese badgers (*Meles anakuma*) in a pastureland: Focusing on their relationships with temporal and spatial changes of food resources  
 ○KOUJI HIJIKATA, Hideharu Tsukada, Masato Minami, Yuka Kawaguti
- OB-11 11:30~11:45**  
 Estimation of foraging efficiency of discarded fruit in medium-sized mammals. How good is it for them?  
 ○CHINATSU KOZAKAI, Ayaka Hata, Midori Saeki, Masahiko Takeuchi
- OB-12 11:45~12:00**  
 Historical review of the introduction of the small Asian mongoose to Okinawa by Shyozaburo Watase (Part 2)  
 ○YUKIBUMI KANEKO

Sep 10 (Sun)9:00~12:30 Kuroda hall

OA-13 9:00~9:15

Decadal alternation in population abundance of *Myodes rex* and *M. rufocanus* in a cool-temperate habitat.

○KEISUKE NAKATA, Akira Unno

OA-14 9:15~9:30

A driving force of Taylor's law and determinants of its parameters: a case study of gray-sided voles

○TAKASHI SAITOH

OA-15 9:30~9:45

A morphological analysis of the skull variation in the large Japanese field mouse, *Apodemus speciosus* from Kyoto, Japan

○JADAB KUMAR BISWAS, Masaharu Motokawa

OA-16 9:45~10:00

Feeding habits and hunting field of Ural owl in farming area of Tsugaru region

○BUNTA HIZUME, Chie Murano, Nobuyuki Azuma

OA-17 10:00~10:15

Seasonality of small mammal communities in the Mt. Nishikoma (Nagano), and its potential for understanding ecological network

○KAI HE, Hiroaki Saito, Masaharu Motokawa

OA-18 10:15~10:30

Crown length of maxillary molar row and body size indicated: environmental factors caused small mass in Norway rats (*Rattus norvegicus*) on the Hahajima Islands

○TATSUO YABE, Kazuo Horikoshi, Takuma Hashimoto

OA-19 10:30~10:45

Seasonal switching of daily activity in Okinawa spiny rat

○MASATOSHI YASUDA, Nobuhiko Kotaka

OA-20 10:45~11:00

The Long-tailed Nesokia: Enigmatic rat from the Garden of Eden

○BORIS KRYSTUFEK, Omar F. Al-Sheikly, Mukhtar K. Haba, Danijel Ivajnsic, Rainer Hutterer

OA-21 11:00~11:15

Sound characteristics of mating calls and phylogenetic relationships among six species of *Callosciurus* (Sciuridae)

○NORIKO TAMURA, Phadet Boonkhaw, Kanchanasaka Budsabong, Fumio Hayashi

**OA-22 11:15~11:30**

Taxonomic study of flying squirrels and initial information of tree squirrels in Lao PDR  
○DAOSAVANH SANAMXAY, Bounsavane Douangboubpha, Sara Bumrungsri,  
Chutamas Satasook, Paul J. J. Bates

**OA-23 11:30~11:45**

Decreasing fearfulness due to the urbanization increases the terrestriality of arboreal squirrels  
○KENTA UCHIDA, Tatsuki Shimamoto, Hisashi Yanagawa, Itsuro Koizumi

**OA-24 11:45~12:00**

Metazoan parasites of the alien Eurasian squirrels(*Sciurus vulgaris*) in Sayama Hills, especially on the identification of *Strongyloides* species.  
○MASATO ARAYA, Yasuhiro Kanayama, Shingo Miyabe, Noriko Hayasi, Tatsuya Kasahi, Yasushi Yokohata

**OA-25 12:00~12:15**

Genetic characteristics of nutria *Myocastor coypus* in olfactory receptor genes  
○KOUICHI KAWAMURA, Risako Murakami, Taeko Miyazaki, Keiko Shimizu, Shuji Kobayashi

**OA-26 12:15~12:30**

Real reason of Nutria naturalization in Japan, episode 2. -Expansion process of Nutria farming-  
○SHUJI KOBAYASHI, Taeko Miyazaki, Kouichi Kawamura

**Sep 10 (Sun)9:00~11:15 Kuroda hall conference room**

**OB-13 9:00~9:15**

Anthelmintic baiting of foxes against echinococcosis in Hokkaido, Japan (2)  
○KOHJI URAGUCHI, Takao Irie, Hirokazu Kouguchi, Kinpei Yagi, Mariko Sashika, Toshio Tsubota

**OB-14 9:15~9:30**

Predation on eggs of the loggerhead sea turtle by the red fox at the Matsuzaki Beach, Miyazaki, Japan.  
○SHIN NISHIDA, Taisyo Moriwaki, Takahiro Konaka, Masahiro Yasuda, Toshitaka Iwamoto

**OB-15 9:30~9:45**

Genetic diversity of wolves (*Canis lupus*) in Northwest China  
○HAOTIAN LI, Honghai Zhang, Yuchun Li

- OB-16 9:45~10:00**  
 Observation of Alloparenting Behaviour in the Raccoon Dog  
 ○TAKEHIKO KAMITO, Noriko Kawata
- OB-17 10:00~10:15**  
 The role of vertebrates for sika deer carcass disappearance  
 ○AKINO INAGAKI, Tetsuya Maruyama, Koji Yamazaki, Shinsuke Koike
- OB-18 10:15~10:30**  
 Age structure and distance of reproductive pairs in Asiatic black bears  
 ○TOSHIKI YAMAMOTO, Masahiro Komiya, Hiroo Tamatani, Junpei Tanaka,  
 Gen Oshima
- OB-19 10:30~10:45**  
 Dynamics of population structure of the Japanese black bear in Gunma prefecture from  
 2010 to 2012 as inferred from the partial sequences of mitochondrial DNA  
 ○DAISUKE WAKU, Takahiro Yonezawa, Keita Nakano, Tomoko Anezaki
- OB-20 10:45~11:00**  
 Distribution expansion of local population and change in genetic diversity of Japanese  
 black bear in Hyogo prefecture.  
 ○YOSHIKI MORIMITSU
- OB-21 11:00~11:15**  
 Reproductive parameters of brown bears in the Rusha area of the Shiretoko Peninsula,  
 Hokkaido, Japan  
 ○MICHITO SHIMOZURU, Masami Yamanaka, Masanao Nakanishi, Yuri Shirane,  
 Tsuyoshi Ishinazaka, Shinsuke Kasai, Takane Nose, Yasushi Masuda, Toshio Tsubota

**Sep 11 (Mon)9:30~13:30 Kuroda hall**

- OA-27 9:30~9:45**  
 The study of mammalian domestication: analysis of lactate physiology and taste by pig  
 milk.  
 ○SORA HAYASHIDA, Takako Fujishima, Toru Miyashita, Masahiro Hirata,  
 Tadashi Nakamura, Yuki Muranishi
- OA-28 9:45~10:00**  
 Evaluation of relative abundance indices for assessing wild boar population  
 ○TAKEO KURIYAMA, Daishi Higashide, Mayumi Yokoyama, Shun Takagi



**OA-29 10:00~10:15**

Range expansion of sika deer and wild boar in the postwar period in Japan

○TORU KOIZUMI, Ryota Araki, Teruki Oka, Takuya Aikawa, Masanari Aoki, Akira Ishida, Norikazu Eguchi, Atsushi Kamata, Tomonori Kawamoto, Kyoko Kobayashi, Hiroshi Kondoh, Nami Sato, Takuya Shimada, Hiroshi Takahashi, Rumiko Nakashita, Yasuhiko Nakata, Junco Nagata, Takahiro Nakanishi, Yukiko Matsuura, Takahiro Miura, Takahiro Morosawa, Chizuru Yayota

**OA-30 10:15~10:30**

Censuses of large mammals by a drone with a thermal infrared camera in the Tottori Sand Dunes

○TAKEHIKO Y. ITO, Atsushi Miyazaki, Koyama A. Lina, Kisa Kamada, Dai Nagamatsu

**OA-31 10:30~10:45**

Culling Sika deer at the Okuchichibu mountains by plural technique

○SATOBU TAKAHASHI, Rei Katsui

**OA-32 10:45~11:00**

Individual recognition of male sika deer using camera traps

○YOSHIHIRO NAKASHIMA, Hiromitsu Samejima, Shuntaro Aoki, Akane Hashizume

**OA-33 11:00~11:15**

Reproductive characteristics of female Sika deer population on Miyajima Island

○YOH IHARA, Akiko Matsumoto, Kosei Yunoki, Atsushi Sato

**OA-34 11:15~11:30**

Diffusion rate and capture plan of the shika deer by spotlight census

○HIROYUKI SAKANIWA, Atsuyuki Katahira, Akiko Haruyama

**OA-35 11:30~11:45**

The relation between early growth and age of primiparity in the sika deer population on Miyajima Island.

○AKIKO MATSUMOTO, Kohsei Yunoki, Atsushi Satou, Yoh Ihara

**OA-36 11:45~12:00**

To conserve The Last Sasa in Asu forest station

○RINTARO Ikegawa, Yuka Hirata, Shigeru Fukumoto, Daisuke Hayashi, Naoko Tokuchi

**OA-37 12:00~12:15**

Demographic analysis of irruption and sequent dynamics of a sika deer population with a shift in winter food resource

○KAZUTAKA TAKESHITA, Mayumi Ueno, Hiroshi Takahashi, Takashi Ikeda, Ryoko Mitsuya, Tsuyoshi Yoshida, Hiromasa Igota, Kohji Yamamura, Koichi Kaji

**OA-38 12:15~12:30**

Long-term impact of population irruption of sika deer on vegetation and their life history on Cape Shiretoko, Hokkaido

○KOICHI KAJI, Masami Yamanaka, Yasushi Masuda, Tsuyoshi Ishinazaka, Ryoma Murakami

**OA-39 12:30~12:45**

Feeding of sika deer during a non-snowy period

○KAZUHIRO MINAMINO

**OA-40 12:45~13:00**

Population density and habitat selection of sika deer during winter in Kushiro Shitsugen National Park

○HIROYUKI UNO, Yoshihiro Inatomi, Satoru Ono, Yuichi Osa, Mayumi Ueno, Toshikatsu Kamei, Takafumi Hino, Tsuyoshi Yoshida

**OA-41 13:00~13:15**

Time series analysis of relative density indices for sika deer

○SHUN TAKAGI, Takeo Kuriyama, Mayumi Yokoyama

**OA-42 13:15~13:30**

Calculation of “animal speed of movement” of Japanese serow from the direct visual observation data

○MASAAKI KOGANEZAWA, Kei Okuda

## Poster Session

Core Time :      Sep 9 (Sat)      12:00~13:00 (Odd-Number)  
                     Sep 10 (Sun)      13:00~14:00 (Even-Number)

### Room A21~A23

- P-001    Foliar nutritional quality explains patchy browsing damage caused by an invasive mammal  
          ○HANNAH RUTH WINDLEY, Mandy C. Barron, E. Penelope Holland, Danswell Starrs,  
          Wendy A. Ruscoe, William J. Foley
- P-002    “The unknown structure” found on fifth thoracic vertebra of fossorial and semi-fossorial  
          Eulipotyphla species  
          ○ASUMI SUZUKI, Shin-ichiro Kawada, Liang-Kong Lin, Akio Sasaki, Motoki Sasaki,  
          Tatsuo Oshida
- P-003    Distribution of muscle fibers in Eulipotyphla  
          ○TAIKI MATSUO, Hiroshi Ichikawa, Hirofumi Miyata, Naomi Wada
- P-004    Distribution and abundance of the Asian house shrew *Suncus murinus* in the Ryukyu  
          Archipelago, Japan  
          ○ATSUSHI NAKAMOTO, Norihiro Kawauchi
- P-005    The soil disturbance by Japanese mole (*Mogera wogura*)  
          ○ATSUSHI KASHIMURA, Ryusei Uemura, Akio Shinohara, Shuichi Ito, Rajibu Puradan,  
          Chinobu Okamoto
- P-006    Gastrointestinal microbiota of Japanese shrew-mole and large Japanese mole  
          ○AKIO SHINOHARA, Hikari Inoue, Kento Inadome, Atsushi Kashimura, Takeshi Eto,  
          Goro A. Kato, Shinsuke H Sakamoto, Chihiro Koshimoto
- P-007    Habitat status of small mammals in Nishikoma Research Forest at Shinshu University  
          ○HAYATO KIKUCHI, Akiko Takii, Shigeyuki Izumiyama
- P-008    Diversification of craniofacial morphology in bats with special reference to noseleaf of  
          Greater horseshoe bat (*Rhinolophus ferrumequinum*)  
          ○KAORU USUI, Masayoshi Tokita
- P-009    Possible subfossils of insectivorous bat feces from a cave in Minami Daito Island, Okinawa,  
          Japan  
          ○YURI KIMURA, Dai Fukui, Shin-ichiro Kawada, Mizuko Yoshiyuki
- P-010    Rest sites of *Murina ryukyuana* in Amami-Oshima Island  
          ○YUSHIN ASARI, Yuna Kimoto, Kenji Noda

- P-011** Usage of artificial roost conservation for three species cave-dwelling bats (Bangs nose-leaf bat *Hipposideros turpis*, Yaeyama Least Horseshoe bat, *Rhinolophus perditus*, Southeast Asian Long-fingered bat *Miniopterus fuscus*) in Ishigaki Island, Okinawa prefecture. ~Who is a pioneer?~  
○KYOUJI KOYANAGI, Hisao Tamura, Akiko Tsuji, Kazue Okumura, Hajime Hasimoto, Hiroko Nagaoka, Kisio Maeda
- P-012** Species, occurrence records and recent status of Chiroptera in Shikoku region, Japan between 2003 and 2017  
○SHUUJI YACHIMORI, Hitoshi Tanioka, Atushi Minou, Takahito Yamamoto, Daisuke Miyamoto, Akihiro Kaida, Hiroya Kanagawa, Eiji Yamamoto, Kazue Hukuda, Shinji Yano, Youichi Maeda
- P-013** Morphologic characteristics of Japanese macaque in Kochi  
○EMIKO ASHIDA
- P-014** Sexual and species difference of auricular surface of pelvis in great apes  
○NOKO KUZE, Yuriko Igarashi
- P-015** The relationship between fecal testosterone level and the handedness of Japanese macaque (*Macaca fuscata*) in Awaji island monkey center  
○HAYASE YUASA, Keiko Shimizu, Toshikazu Nobuhara
- P-016** Evaluation for habitat estimation of Japanese macaque with time series data  
○YOSUKE UEDA, Shota Mochizuki, Takuhiko Murakami, Keisuke Yamamoto
- P-017** Cave Use by Japanese Macaques (*Macaca fuscata*) along Kurobe Gorge, eastern Toyama Prefecture of Central Japan  
○KENJI KASHIWAGI, Masanaru Takai
- P-018** Habitat use of the Japanese monkey (*Macaca fuscata*) in a Satoyama rural area in evergreen broad-leaved forest zone, Nakatosa Town, Kochi Prefecture  
○KANA TERAYAMA, Yoshinori Kaneshiro, Motomi Genkai Kato
- P-019** Seasonal change in diet and habitat use in wild mandrills  
○SHUN HONGO, Yoshihiro Nakashima, Etienne François Akomo-Okoue, Fred Loïque Mindonga-Nguelet
- P-020** Effects of coprophagy of Sika deer on seed dispersal by wild Japanese macaques in Yakushima.  
○MIKI MATSUBARA
- P-021** Extraction of vegetation affecting troop size of Japanese macaques – For example of Toyokawa City –  
○HIROSHI EBIHARA

- P-022** Evaluation of hair sampling method in a Japanese dormouse  
○KANA SAKAMOTO, Chihiro Kase
- P-023** Hibernation and Reproduction of the Japanese Dormouse in Yamaguchi Prefecture  
○KANAKO NOUNO, Kanako Higashi, Hiroshi Tanaka, Eiji Hosoi
- P-024** Activity patterns and nest site utilization of *Eothenomys smithii*  
○MUTSUMI ITO, Ryota Matsuyama, Fumio Hayashi
- P-025** Architecture of masseter deep layer and its evolutionary advantage in murine murids  
○KAZUHIKO SATOH, Wataru Yano, Ryuta Watanabe, Takahiro Sonomura, Sadakazu Ejiri
- P-026** Selectivity of nesting plants of the harvest mouse  
○KUMIKO SAWABE
- P-027** The effect of low protein diet during perinatal period for gestation/birth and maternal behavior in mouse  
○TAKAKO FUJISHIMA, Nastumi Hyogo, Yukimi Yokoyama, Yuki Muranishi
- P-028** Geographical variation of the abdominal coat color and coat-color-controlling gene *Asip* of Eurasian house mouse  
○TOKI TAKEISHI, Yuki Sakuma, Kimiyuki Tsuchiya, Akihiko Mita, Toshihiko Shiroishi, Toyoyuki Takada, Hitoshi Suzuki
- P-029** Re-characterization of skin and skull morphology of mice from Nepal  
○MAKOTO KISHIMOTO, Hitoshi Suzuki, Masaru Kato
- P-030** Evolutionary implications of sequence variations of the *Asip* and *Mc1r* genes in *Rattus exulans* from Myanmar  
○MOTOKO KOBAYASHI, San Maung Maung, Thida Thwe Lay, Ken Katakura, Hitoshi Suzuki
- P-031** A historical view on spatial structuring of genetic structuring of the mitochondrial sequence variation in the large Japanese wood mouse (*Apodemus speciosus*) from Hokkaido  
○YUTA INOUE, Kaori Hanazaki, Yutaro Suzuki, Gota Kinoshita, Kimiyuki Tsuchiya, Hitoshi Suzuki
- P-032** Preliminary study on repetitive use of nest boxes for reproduction by female small Japanese field mice  
○NONOKA SUZUKI, Sakura Jokaji, Tatsuo Oshida

- P-033** Annual change of radiocesium concentration in large Japanese field mouse *Apodemus speciosus* and its habitat in Fukushima for 6 years after the Fukushima Daiichi nuclear power plant accident  
○FUMIO YAMADA, Takuya Shimada, Yuya Watari, Rumiko Nakashita, Fumikazu Kikuchi, Kei Okuda, Shin-ichi Horino
- P-034** Hoarders inferred from caches collected in natural broadleaved forest in Hokkaido, Japan  
○HINA SUKEGAWA, Taishi Tosa, Tatsuo Oshida
- P-035** Are two sympatric rodent species (Siberian flying squirrel and small Japanese field mouse) different in nest box use between different vegetations?  
○TAISHI TOSA, Tatsuo Oshida
- P-036** Do *Pteromys volans orii* change their reproductive pattern between different breeding seasons? Conclusive results of a 11-year long-term observation in mountainous natural forest in Hokkaido, Japan  
○REINA HASHIMOTO, Asuka Hayashi, Yuka Takeichi, Tatsuo Oshida
- P-037** Preliminary study on natal philopatry of Siberian flying squirrel (*Pteromys volans orii*) in natural forests of Hokkaido, Japan  
○MIDORI YAMAGUCHI, Tatsuo Oshida
- P-038** By using telemetry survey, detection of nesting range of Siberian flying squirrel in natural forest of Hokkaido, Japan  
○HARUKI SUZUKI, Tatsuo Oshida
- P-039** Wildfire effect on population densities of three squirrels in the dry dipterocarp forest in Northeastern Thailand  
○SHUN KOBAYASHI, Placksanoi Jumlong, Artchawakom Taksin, Chittima Aryuthaka, Masako Izawa
- P-040** Do two arboreal squirrel species occurring in the subarctic region exhibit a similar pattern of seasonal pelage color change?  
○WAKANA MITSUZUKA, Tatsuo Oshida
- P-041** Determination of the osteological maturity from cranial sutures in *Callosciurus erythraeus*  
○YUICHI NITTA, Nozomi Kurihara, Masato Aoyama, Shoei Sugita
- P-042** Anatomical study of the visual function in nutria *Myocastor coypus*  
○YUKAKO NARITSUKA, Taeko Miyazaki, Kouichi Kawamura, Keiko Shimizu, Keiko Sone, Syuuji Kobayashi
- P-043** Nutria's food preference preliminary test -aiming to clarify why pure herbivorous animals eat meat-  
○IZUMI MATSUMOTO, Koichi Kawamura, Taeko Miyazaki, Syuuji Kobayashi

- P-044 The numerical variation of upper molars in the Amami rabbit (*Pentalagus furnessi*)  
○MEGUMI MORIYA, Shin-ichiro Kawada, Fumio Yamada, Yayoi Kaneko
- P-045 Phylogeography of Amami rabbit from Amami Island and Tokunoshima Island  
○KYOKO SUDA, Gota Kinoshita, Shinitiro Fukumoto, Naoki Ohnishi, Fumio Yamada, Hitoshi Suzuki
- P-046 Genetic structure analysis of Amami rabbit based on Y chromosome and autosome microsatellite makers  
○RYO ASHIDATE, Takeshi Kuraishi, Yasushi Mizoguchi
- P-047 Maternal behavior in Amami rabbits: case report in the orchard on Amami Oshima Island  
○MARIKO SUZUKI, Shohei Ooumi
- P-048 The nuchal ligaments in Carnivora  
Satoshi Suzuki, Hajime Taru, Kenya Imaimatsu, Masamichi Kurohmaru, Daisuke Koyabu, Kyung-Yeon Eo, ○JUNPEI KIMURA
- P-049 Spatio-temporal niche separation between golden jackal and three sympatric carnivores in an agricultural landscape in central Bulgaria  
○HIROSHI TSUNODA, Kairi Ito, Raichev G. Evgeniy, Peeva Stanislava, Yayoi Kaneko
- P-050 Lifestyle of Raccoon dogs in paddy field area —What makes Raccoon dogs go across a national road?—  
○YUKA SHINODA, Midori Saeki, Masahiko Takeuchi, Tsuguki Kinoshita
- P-051 Home Range Differences by the Habitat Type of Raccoon Dogs *Nyctereutes procyonoides*  
○TEHAN KANG, Si-Wan Lee
- P-052 Winter diet of the raccoon dog in urban parks, Tokyo  
○TAKAAKI ENOMOTO, Masayuki Saito, Masato Yoshikawa, Yayoi Kaneko
- P-053 What do raccoon dogs feed in environment far from human dwellings?—Food habits of raccoon dogs in forest area  
○YOSHIKAZU SEKI
- P-054 The interspecific difference of food habits depending on the environmental differences between two sympatric species, the red fox (*Vulpes vulpes*) and the Japanese marten (*Martes melampus*) in the southern foot of Yatsugatake  
○TEPPEI SUDOH, Hideharu Tsukada, Masato Minami
- P-055 Vertical jumping ability in Japanese marten(*Martes melampus*)  
○HIRONORI UEDA, Soichiro Doyama, Yusuke Eguchi
- P-056 An ecological genetics study of the Japanese marten ( *Martes melampus* ) using non-invasive fecal samples around the Nishioka Pond, Sapporo  
○TAKUMA SATO, Ryuichi Masuda

- P-057** Altitudinal distribution and variation in the food items of Japanese sable *Martes zibellina brachyura* in Mt. Syari  
○AKINORI MURAKAMI, Takahiro Murakami, Saiko Siraki
- P-058** Genetic variation of MHC class II DRB genes in the continental and Japanese populations of the sable, *Martes zibellina*.  
○YOSHINORI NISHITA, Alexei V. Abramov, Takahiro Murakami, Ryuichi Masuda
- P-059** Genetic analysis on hybridization between the European and Asian badgers around the Volga-Kama Rivers  
○EMI KINOSHITA, Alexei V. Abramov, Alexander P. Saveljev, Vyacheslav Solovyev, Pavel A. Kosintsev, Yayoi Kaneko, Yoshinori Nishita, Ryuichi Masuda
- P-060** Use of burrow by Japanese badger in the urban green area  
○ERI IJIMA, Sara Hasegawa, Hisashi Matsubayashi

#### **Room A31~A34**

- P-061** Can the otter *Lutra lutra* inhabit Hokkaido now ?  
○TAKAHIRO MURAKAMI, Yasuto Furukawa
- P-062** Behavioral characteristic of raccoon (*Procyon lotor*) in Shimane Prefecture  
○MASAHIRO KOMIYA, Yuki Ishibashi, Hiroki Kanamori, Seigo Sawada
- P-063** Efficiency and effectiveness of nest box-type trap applying cavity-nesting habit of raccoon in raccoon low-density area.  
○TOHRU IKEDA, Ken-ichiro Shimada, Kazunori Tanaka, Takaaki Suzuki, Akari Kobayashi, Kazufumi Tsukita, Takanori Suda, Hideki Nemoto
- P-064** Case study of diet of the masked palm civets which invaded house in urban area of Tokyo.  
○TOMOHIKO HARADA, Masakazu Harunari, Masato Yoshikawa, Yayoi Kaneko
- P-065** Living condition in urban Kinki area of four carnivora species, Siberian weasel Japanese marten, Raccoon, and masked palm civet.  
○SIGEKI WATANABE, Kenji Fukunaga
- P-066** Den abandonment of Asiatic black bears in central Japan  
○AKIKO TAKII, Chihiro Takahata, Shigeyuki Izumiyama
- P-067** Relationship between bark stripping and foraging behavior of Asiatic black bear  
○TOMOKI MORI, Rina Sugiura, Makoto Kato, Ryota Hayashi, Kensuke Miura, Haruki Kato, Shigeyuki Izumiyama, Yasuaki Niizuma
- P-068** The factors in creating bear shelves by the Asiatic black bear to feed on the hard mast  
○KAHOKO TOCHIGI, Takashi Masaki, Ami Nakajima, Koji Yamazaki, Shinsuke Koike
- P-069** Nitrogen and carbon stable isotope analysis of Asiatic black bears in Kazuno city, Akita  
○RUMIKO NAKASHITA, Koji Yamazaki, Yoshiaki Izumiyama, Hifumi Tsuruga



- P-070** Revising the historical distribution of the Asiatic black bear (*Ursus thibetanus*) in Shikoku Island based on historical records  
○KYOHEI ANDO, Kouki Yamada, Shuji Yachimori, Yoshinori Kaneshiro
- P-071** Temporal and spatial patterns of seed production in Fagaceae relate to food resources of Asiatic black bear  
○ATSUSHI MOTOHASHI, Hitomi Onuma, Toshiaki Yamamoto, Hiroo Tamatani, Junpei Tanaka, Gen Oshima
- P-072** Effects of beech nut production on spatiotemporal variations in mammal assemblages in cool-temperate forests of eastern Japan  
○HARUKA ENARI, Hiroto Enari
- P-073** Movement patterns of Asiatic black bears in fluctuating environment varies with environmental and individual factors  
○SHINSUKE KOIKE, Kyohei Ando, Chinatsu Kozakai, Koji Yamazaki, Tetsuro Yoshikawa
- P-074** Gap analysis of food resource affecting black bear(*Ursus thibetanus*) encroach in Hyogo  
○YUUKI NOSE, Mayumi Yokoyama
- P-075** The effects of population change of sika deer (*Cervus nippon*) for the foraging variation of Asiatic black bear (*Ursus thibetanus*)  
○TOMOKO NAGANUMA, Shinsuke Koike, Rumiko Nakashita, Chinatsu Kozakai, Koji Yamazaki
- P-076** Analysis of factors influencing autumn home-range size in Asiatic black bears  
○HITOMI ONUMA, Atsushi Motohashi, Toshiaki Yamamoto, Hiroo Tamatani, Junpei Tanaka, Gen Oshima
- P-077** The appearance of Asiatic black bear (*Ursus thibetanus*) and bear attacks in Toyama  
○KAZUYORI MAMIYA, Hisaaki Akaza
- P-078** Change of the spatio-temporal distribution pattern of Asiatic black bear population in Toyama, Japan  
○DAISHI HIGASHIDE, Keita Fukasawa
- P-079** Records of feeding plants of Japanese black bear in Toyama prefecture using seven methods  
○YUSUKE GOTO
- P-080** Monitoring of mammals in the Tateyama area of the Northern Alps  
○HISAAKI AKAZA, Kazuyori Mamiya

- P-081** Challenges in study on inter-specific competition between Asiatic black bear and brown bear in Far-East Russia  
 ○KOJI YAMAZAKI, Shigeyuki Izumiyama, Hifumi Tsuruga, Shinsuke Koike, Yusuke Goto, Ivan Seryodkin, Dmitry Gorshkov, Dale Miquelle
- P-082** Habitat use analysis of travel routes to the agricultural fields and neighboring areas used by agriculture-damaging Hokkaido brown bears  
 ○HIFUMI TSURUGA, Akiko Nagasaka, Hayato Iijima, Hirokazu Kon, Fumiko Terada, Tsutomu Mano
- P-083** Trends of brown bear kills and bear caused corn feeding damages on the Oshima Peninsula, Hokkaido  
 ○TSUTOMU MANO
- P-084** Estimating population trends of problematic brown bears in Oshima Peninsula, Hokkaido  
 ○MAMI KONDO, Hifumi Tsuruga, Tsutomu Mano
- P-085** Trial for sex identification of brown bears by photo image taken from camera traps  
 Hikaru Suzuki, ○YOSHIKAZU SATO
- P-086** Does brown bears discriminate individual bears by their smell? : Experiments of chemical communication using an oily secretion from their back skin  
 ○HISAAKI TOYOSHIMA, Taihei Naruse, Naoya Matsumoto, Junpei Tomiyasu, Michito Shimozuru, Yoshikazu Sato
- P-087** Trial for evaluation of brown bear predation on sika deer in the Shiretoko Peninsula.  
 ○MASAMI YAMANAKA
- P-088** Changes in spatial structure of Brown bear populations affected by intensive control as seen from mtDNA haplotypes  
 ○AYUMI KATO, Tetsuji Itoh, Tsutomu Mano, Yoshikazu Sato
- P-089** Breeding behavior of Tsushima leopard cat in artificial structure.  
 ○SHIZUKA KAGEURA, Hiroki Sato
- P-090** Distribution of Steller sea lions around Benten Island, Cape Soya, Hokkaido in 2016-2017  
 ○YOKO GOTO, Shun Ikuta, Mari Kobayashi, Takanori Horimoto, Kaoru Hattori
- P-091** Application of UAV to aerial count of swimming Steller sea lions, rapid identification of branded individuals and mark-recapture abundance estimation of wintering sea lion population in the Nemuro Strait, Hokkaido.  
 ○TSUYOSHI ISHINAZAKA, Seiichiro Tsuchiya, Mizuna Sato, Tsuyoshi Yoshida, Yasushi Masuda
- P-092** Changes in behavioral characteristics of spotted seals in breeding season.  
 ○RISA SASAKI, Mai Suzuki, Mari Kobayashi, Masatoshi Tsunokawa, Youziru Yanagawa

- P-093** Divergence time estimation using mitochondrial DNA and Y chromosome gene polymorphisms between two sub-species of wild boars in Japan  
○SAKA YOSHIKAWA, Yohtaro Sato, Yasushi Mizoguchi
- P-094** Consideration of using the traces dug by wild boar as a new density index  
○ZENYA GOTO, Fumito Koike
- P-095** Feeding environment of wild boar in winter  
○HARUKA KOINUMA
- P-096** Food habit analysis of wild boar inhabiting heavy snow fall region  
○RYOHEI MARUYAMA, Takuma Shimamoto, Maki Yamamoto
- P-097** Relation of wildboar and acorn in West Yamaguchi Prefecture.  
○AKITAKA OOMORI, Eiji Hosoi
- P-098** Who are male sika deer close to ?  
○KENTO SUZUKI, Nobumasa Oonishi, Naoko Higuchi, Ayumi Okada, Hideharu Tsukada, Masato Minami
- P-099** Influence of topography on bark stripping by sika deer –A case of Oshika Peninsula in Miyagi–  
○MASAKI OHORI
- P-100** The wetland use pattern of sika deer in Oze Area  
○ZHAO-WEN JIANG, Yuusaku Yamada, Yoshifumi Sugiura, Yukiko Nanba
- P-101** Seasonal migration of Sika deer in the Oze and Nikko National Park.  
○YUSAKU YAMADA, Zhao Wen Jiang, Yoshifumi Sugiura, Yukiko Namba
- P-102** Factors affecting utilization of sown grassland by sika deer (*Cervus nippon*) in mountainous area  
○AYAKA HATA, Hideharu Tsukada, Akane Washida, Takayuki Mitsunaga, Mayura B. Takada, Tetsuo Suyama, Masahiko Takeuchi
- P-103** Usability of GPS-Iridium collar for sika deer tracking in Japan  
○NORIKAZU EGUCHI, Atsushi Kamata, Akira Ishida, Satoru Kurita, Takahiro Nakanishi, Ryosuke Sato
- P-104** Development of map system for sika deer with open source GIS software  
○YOSHIHIRO INATOMI, Kazuhiro Hamahara, Yoichiro Fukuda, Satoru Ono, Hiroyuki Uno, Norio Watanabe
- P-105** Anthropogenic disturbances can alter the intensity of deer impact on forest vegetation through the functional response  
○RYOSUKE KODA, Tomoyuki Tsujino

- P-106 Relationship between buried depths of captured sika deer and appearance frequency of animal species  
○CHIZURU YAYOTA, Hitomi Furusawa
- P-107 Long term monitoring of pregnancy rate of sika deer (*Cervus nippon*) in Hyogo prefecture under the high density.  
○MAYUMI YOKOYAMA, Tomoka Matsukane-Tsuji
- P-108 The present status of the sika deer in Shimane Prefecture  
○HIROKI KANAMORI, Masahiro Komiya, Seigo Sawada
- P-109 The population characteristics of sika deer in Nishiokoppe special hunting area, Hokkaido  
○YUKIKO MATSUURA, Hiromasa Igota, Junpei Igota
- P-110 Feeding preference of bait to attract sika deer in Wakayama prefecture  
○KAYO ETO, Mitsuyoshi Nishimura, Toshiyuki Hougen, Kazuaki Naka
- P-111 Possibility of capture support system using LPWA network system  
○JUNJI MORIBE, Akifumi Fujimoto, Yoshiaki Tokita
- P-112 The capture using Information and Communication Technology by the village organization and establish a system of capture  
○SEIGO SAWADA, Masahiro Komiya, Tomoko Shizuno, Hiroki Kanamori
- P-113 Appropriate crop protection in countermeasures against wildlife: discrepancy between material penetration and proper method for using  
○KEISUKE ISHIKAWA, Soichiro Doyama, Hironori Ueda, Yusuke Eguchi
- P-114 Ambush-style capture for seasonal migratory deer by hunters chosen from the public.  
○TETSUYA MARUYAMA, Motohiro Komatsu
- P-115 A survey for establishment of appropriate and efficient disposal system for captured wildlife  
○HARUKA FUKUDA, Kazunari Kinoshita, Takahiro Suzuki, Tomonori Ishigaki, Masato Yamada, Masahiro Osako
- P-116 Management units based on genetic analysis of sika deer: For wide-area management  
○JUNCO NAGATA, Masashi Harada
- P-117 Habitat use of Sika deer and Japanese serow in Kuraiyama research forest, Gifu, Japan  
○SATSUKI NAKAMORI, Mio Shiraishi, Masaki Ando
- P-118 The comparison of habitat use between the sympatric sika deer and the Japanese serow by camera trapping  
○TOMOYA KANNO, Hayato Takada, Hideharu Tsukada, Masato Minami

- P-119 Morphological traits of the skull and the mandible between the three sika deer (*Cervus nippon*) populations of Honshu, Japan  
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