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Lecture, Symposium & Meeting

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Award Lectures

Award Lecture for the Mammalogical Society of Japan 2011

The Big Hall, Sep 22 (Sat) 13:00 ~ 13:40

Dr. Yoshikazu Hasegawa

Award Lectures for Young Mammalogists

The Big Hall, Sept 22 (Sat) 13:40 ~ 15:00

Dr. Daisuke Koyabu

Dr. Jun Sato

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Symposium

“Studying Intensively the Life of Mammals: What We Can See through Observation of Behavior”

The Big Hall, Sept 22 (Sat) 15:15 ~ 18:15

Dr. Yusuke Eguchi

Dr. Noriko Tamura

Dr. Hideki Sugiura

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A Meeting for Youth

“Invitation to Mammalogy: What We Can Find by Long-term Researches”

Rm 101 of Bld L, Sept 21 (Fri) 18:00 ~ 20:00

Organizers: Shinsuke Koike, Takashi Ikeda and Yui Nemoto

(Tokyo University of Agriculture and Technology)

Takashi Ikeda: The long-term research of sika deer population
in Nakanoshima Islands

Yui Nemoto: The long-term research of Japanese black bear in Ashio-Nikko
mountains

Tetsuji Ito: Genetic analysis of brown bear population in the Urahoro region
of eastern Hokkaido

Yutaka Osada: Statistical model for predicting the spread of large wildlife
under heterogeneous environments

Workshop

20 September (Thurs) 18:15~20:00

Room A, Building L 101

W1 Large-scale management for Sika deer in Kanto mountains

Chair: Tadanobu Okumura , Toshihiro Hazumi (Wildlife Management Office)

- 1) Akiko Takii (Shinshu University) : Seasonal migration of Sika deer in the Kanto Mountains, central Japan.
- 2) Yasuto Chiba (Ministry of Environment) : Collaborative activities on the large-scale management guidelines for Sika deer in Kanto mountains
- 3) Haruka Ohashi (Tokyo University of Agriculture and Technology) : Impact of Sika deer overabundance on vegetation in the Kanto Mountains
- 4) Hayato Iijima (Yamanashi Forest Research Institute) : Estimation of Sika deer population dynamics in Kanto Mountains

Room B, Building L 105/106

W2 The recent status of wild boar management and research II

Chair: Shigeki Hirata (Nagasaki Pref.) and Yuuji Kodera (Satoyama Science Research Center Utsunomiya University)

- 1) Shigeki Hirata (Nagasaki Pref.) and Kenichi Amitani (Nagasaki Pref.) : The recent status of wild boar management to agricultural damage.
- 2) Yuuji Kodera (Satoyama Science Research Center Utsunomiya University) : (I) The detailed aging of wild boar as the potential monitoring method of its population. (II) The present status of the radio-caesium contamination of wild boar in Tochigi prefecture.
- 3) Tomoka Tsuji (The United Graduate School of Veterinary Sciences, Gifu University) : Monitoring of reproduction related to population dynamics of wild boar.
- 4) Hiroshi Sakata (Institute of Natural and Environmental Sciences University of Hyogo) : The recent status and forecast of population management and management indicator of wild boar.

Room C, Building L 201

W3 A key to a interpretation of foraging behavior of Asian black bear –What can clarify by diversity of approach –

Chair: Shinsuke Koike (Tokyo Univ. Agri. and Tech.) and Koji Yamazaki (Ibaraki Nature Museum)

- 1) Isao Arimoto (Hakusan Nature Conservation Center) : Foraging ecology of Japanese black bear living in Satoyama
- 2) Sana Fujiwara (Tokyo Univ. Agri. and Tech.) : Relationship between bear's feeding behavior and ant phenology
- 3) Aki Sugita (Tokyo Univ. Agri and Tech.) : Clarifying Feeding strategies of Japanese black bears in two seasons using bears under captive condition
- 4) Ami Nakajima (Tokyo Univ. Agri. and Tech.) : Foraging behavior of Asian Black Bear in relation with digestive physiology

Room D, Building L 204

W4 Examination of the management method of the Japanese monkey of the endangered local population. "Damage reduction and Prevention of extinction"

Chair: Yoshiki Morimitsu, Katsuya Suzuki (University of Hyogo / Wildlife Management Research Center, Hyogo)

- 1) Okano Misao (Wildlife Management Office): The present situation of endangered population in Kangawa Seisho area
- 2) Mai Yasutomi (Natural Environment Conservation Division Water and Greenery Department Environment and Agriculture Bureau, Kanagawa Prefectural Government): Management for an endangered population of Japanese monkeys in western parts of Kanagawa Prefecture.
- 3) Mami Saeki (Wildlife Management Office): Effect measurement of aversive conditioning in a group of Wild Japanese macaques
- 4) Yoshiki Morimitsu (University of Hyogo / Wildlife Management Research Center, Hyogo): Damage Management of Extinct Japanese Monkey Population in Hyogo Prefecture
- Effect verification of damage control when malignant monkey is captured -
- 5) Katsuya Suzuki (University of Hyogo / Wildlife Management Research Center, Hyogo): Damage Management of Extinct Japanese Monkey Population in Hyogo Prefecture
- Promotion of Damage Management Practices by Local Farmer -
- 6) Oi Toru (Forestry and Forest Products Research Institute) Comment

Room E, Building L 205

W5 Movement, foraging and nesting in gliding mammals

Chair: Yushin Asari (Chodai Co., Ltd.)

- 1) Hiroyuki Okazaki (Chuo University Junior and Senior High School): Point of the giant flying squirrel observation
- 2) Yuji Aoki (Kanagawa Prefecture Nanasawa Forest Park): Step-up of an observation
- Participatory Investigation
- 3) Yushin Asari (Chodai Co., Ltd.): Observation of Siberian flying squirrels using a video camera
- 4) Mayu Sagawa¹, Kei Suzuki^{1, 2} and Hisashi Yanagawa^{1, 2} (¹Obihiro University of Agriculture and Veterinary Medicine, ²Iwate University): Predator awareness by Siberian flying squirrels: vision or audition?

Room F, Building 9 9201

W6 Linking landscape ecology and wildlife conservation.

Chair: Takumi Akasaka (Hokkaido univ.), Misako Kuroe (Akita Pref. Univ. Forest Science)

- 1) Misako Kuroe (Akita Pref. Univ. Forest Science): Mosaic vegetation maintained landscape supplementation for harvest mice
- 2) Masayuki SAITO (Univ. Tokyo), Takuya FURUKAWA (Yokohama Nat. Univ.), Tomoyo KOYANAGI (Waseda Univ.): The past influences the present: response of the distribution pattern of Japanese hare to the landscape change with urbanization
- 3) Takumi Akasaka (Hokkaido univ.): Investigate influence of various habitat loss patterns on potential foraging habitats of bats: using three scenarios.

Workshop

21 September (Fri) 18:00~19:45

Room B, Building L 105/106

W7 Recent research on Tokudaia III: the next generation for conservation of small mammals in Ryukyu islands

Chair: Takamichi JOGAHARA (Okayama University of Science) , Fumio YAMADA (Forestry and Forest Products Research Institute), Chihiro KOSHIMOTO (Miyazaki University) and Asato KUROIWA (Hokkaido University)

- 1) Takamichi JOGAHARA (Okayama University of Science): Research for habitat state and population estimation of Tokudaia
- 2) Ayaka KIDO (Graduate School of Life Science, Hokkaido University): Study on genetic diversity in genus Tokudaia
- 3) Haruka MOCHIZUKI (Okayama University of Science): Daily activity of the Amami spiny rat in captivity
- 4) Masataka NAKAYA (Kinki University): Interspecies somatic cell nuclear transfer in Tokudaia for cloning and establishment ES cells.

Room C, Building L 201

W8 What will be needed for safe, sure and efficient deer population control

Chair: Toru Koizumi (Forestry and Forest Products Research Institute)

- 1) Masami Yamanaka¹, Tsuyoshi Ishinazaka² and Yasushi Masuda² (1 Shiretoko Museum, 2 Shiretoko Nature Foundation): Sika deer culling with sharpshooting method on the public roads in the Shiretoko World Natural Heritage Site
- 2) Mayumi Ueno (Eastern Hokkaido Wildlife Station, Nature conservation department, Institute of Environmental Sciences, Hokkaido Research Organization): Sika deer culling in Hamanaka town, Hokkaido, Japan - developing a population control method of wide application
- 3) Masataka Ohashi (Shizuoka Forestry and Forest Products Research Center): New programs for sika deer reduction in the southwestern foot of Mt. Fuji
- 4) Masatsugu Suzuki (Department of Veterinary Medicine, Faculty of Applied Biological Sciences, Gifu University): Comments for further understanding

Room D, Building L 204

W9 Now of mammal specimen preparation and management

Chair: Motoki Sasaki (Obihiro University of Agriculture and Veterinary Medicine)

- 1) Motoki Sasaki (Obihiro University of Agriculture and Veterinary Medicine): Permanent policy for the specimen
- 2) Hideki Endo (The University Museum, The University of Tokyo): The soul of the unrestricted collection without purpose
- 3) Tadasu K. Yamada and Yuko Tajima (National Museum of Nature and Science): Marine mammal specimens in the National Museum of Nature and Science

Room E, Building L 205

W10 'Basic biology on the mammal' - How much do you know them?

- 2. Grasp Functional morphological knowledge using by Gross anatomy.

Chair: Yuko TAJIMA (Dept. of Zoology, National Museum of Nature and Science)

- 1) Norihisa Inuzuka (Postgraduate School of Medicine, University of Tokyo): Morphological reconstruction and ecological restoration and their evolution of the Order Desmostylia based on ecomorphological method
- 2) Kazuhiko Satoh (Department of Oral anatomy, Asahi University School of Dentistry)
: Various factors determining anatomical characteristics of masticatory muscles in rodents

Room F, Building 9 9201

W11 Correalation, co-evolution, and host-switching between mammals and parasites

Chair: S. D. Ohdachi (Hokkaido Univ.), S. Arai (NIID)

- 1) A. Kawakita (Kyoto Univ.): History of interspecific interaction inferring from two phylogenetic trees: a case study of plant-insect relationships
- 2) S. Arai (NIID): Host-switching of viruses and co-evolution of viruses and mammals
- 3) K. Yoshizawa (Hokkaido Univ.): Non co-speciation between sika deer and the chewing lice (*Damalinia sika*)
- 4) T. Kuramochi (NMNS): Host-parasite relationships between helminths and whales
- 5) Y. Yokohata (Univ. of Toyama): Comments on the presentations

Workshop

23 September (Sun) 10:00~11:45

Room A, Building L 101

W12 Current status of and perspectives on Specified Wildlife Conservation and Management Plans for sika deer.

Chair: Shin'ichiro Hamasaki (Wildlife Management Office) , Kiyoshi Yamauchi (Research Institute for Environmental Science and Public Health of Iwate Prefecture) and Ryota Araki (Japan Wildlife Research Center)

- 1) Shin'ichiro Hamasaki (Wildlife Management Office): The goals of population management of sika deer and the status of population control.
- 2) Kiyoshi Yamauchi (Research Institute for Environmental Science and Public Health of Iwate Prefecture): Problems of the capture planning based on the population monitoring and future prospects in sika deer.
- 3) Ryota Araki (Japan Wildlife Research Center): Current status and issues of biodiversity conservation in Specified Wildlife Conservation and Management Plans.

Room B, Building L 105/106

W13 The status of Nippo-Nutria: past, present and future 2, - Adaptation and dispersal of Nutria (Myocastor coypus)-

Chair: Shuji KOBAYASHI (Department of Zoology, Faculty of Science, OKAYAMA University of Science) , Koichi KAWAMURA (Faculty of Bioresources, MIE University)

- 1) Toru TAKAHASHI (Department of Nutrition and Health Science, Faculty of Human Environment Science, Fukuoka Women's University): Digestion Strategy of Nutria (Myocastor coypus).
- 2) Shuji KOBAYASHI (Department of Zoology, Faculty of Science, OKAYAMA University of Science): Morphological Similarity and Geographic Variation of Nutria (Myocastor coypus) in OKAYAMA Prefecture.

Room C, Building L 201

W14 Radionuclide contamination in mammals – Current Status and Future–

Chair: Jun NAKATANI (National Agricultural Research Center) and Fumio YAMADA (Forestry and Forest Products Research Institute)

- 1) Hideki OGAWA (Fukushima Prefectural Forestry Research Centre): What is happening after the release of radionuclide in plants as diets of mammals ?
- 2) Toshio MIZOGUTI (Fukushima Wildlife Rehabilitation Center): Nuclear accidents and impact on wildlife
- 3) Fumio YANADA and Motohiro HASEGAWA (Forestry and Forest Products Research Institute): What is happening after the release of radionuclide in small and medium sized mammals ?
- 4) Shin-Ichi HORINO (Forestry and Forest Products Research Institute, Tohoku Research Center) and Jun NAKATANI (National Agricultural Research Center): What is happening after the release of radionuclide in large sized mammals ? From the viewpoint of population control
- 5) Sada ANDO (National Livestock Breeding Center): Behavioral and physiological changes of domestic animals without human management

Room D, Building L 204

W15 What is habitat analysis? Latest methods for estimating geographic distribution based on habitat model

Chair: Tomoko Doko (Yokohama National University & JSPS Research Fellow) and Yu Kanaji (National Research Institute of Far Seas Fisheries)

- 1) Hiroto Murase (National Research Institute of Far Seas Fisheries): Overview of methods of habitat modeling for mammals
- 2) Hiroko Sasaki (Laboratory of Marine Bioresource and Environment Sensing Graduate School of Fisheries Sciences, Hokkaido University): GLM for analyzing “Habitat partitioning” of sei whale and Bryde’s whale
- 3) Yu Kanaji (National Research Institute of Far Seas Fisheries): Predicting distributions of small odontocetes based on ecological niche factor analysis (ENFA)
- 4) Tomoko Doko (Yokohama National University & JSPS Research Fellow): Habitat model of Asiatic black bear based on MaxEnt and its gap analysis
- 5) Shota Mochizuki (Niigata University & JSPS Research Fellow): Habitat selection by crop-raiding Japanese macaques using Random Forest algorithm

Room E, Building L 205

W16 Colloquium on the evolutionary developmental biology in mammals (Prologue): Approaches from ontogeny, phylogeny and comparative ecology

Chair: Koyasu Kazuhiro (Department of Anatomy, School of Dentistry, Aichi-Gakuin University, Japan), Koyabu Daisuke (Kyoto University Museum, Japan), Son Nguyen Truong (Vietnamese Academy of Science and Technology, Vietnam), Sone Keiko (Dental Science Museum, School of Dentistry, Aichi-Gakuin University, Japan), Asahara Masakazu (Department of Zoology, Graduate School of Science, Kyoto University, Japan) and Wilson Laura A.B. (University of New South Wales, Australia)

- 1) Koyasu Kazuhiro (Department of Anatomy, School of Dentistry, Aichi-Gakuin University, Japan): Homeotic and meristic variations in bat-eared fox (*Otocyon megalotis*): As a prologue for the colloquium on the evolutionary developmental biology in mammals
- 2) Koyabu Daisuke (Kyoto University Museum, Japan) and Son Nguyen Truong (Vietnamese Academy of Science and Technology, Vietnam): Prenatal developmental pattern of the hindlimb in bats: its uniqueness and possible adaptive significance
- 3) Sone Keiko (Dental Science Museum, School of Dentistry, Aichi-Gakuin University, Japan): Fetal growth and development in coypu (*Myocastor coypus*): How prenatal growth, tooth eruption and cranial ossification have been modified concerning about its diet and water habitat.
- 4) Asahara Masakazu (Department of Zoology, Graduate School of Science, Kyoto University, Japan): Specimen-based study on dental anomalies: implications for the evolutionary processes of dental formulae in mammals: Focusing on canid-species and the Japanese mole
- 5) Wilson Laura A.B. (University of New South Wales, Australia): Testing a developmental model in the fossil record: Molar proportions in South American ungulates

Room G, Building V 119/120

W17 Let’s submit your research to ‘Mammal Study’!: You could demonstrate your research in the world

Chair: Tatsuo Oshida (Laboratory of Wildlife Biology, Obihiro University of Veterinary Medicine), Yayoi Kaneko (Wildlife Conservation Laboratory, Department of Agriculture, Tokyo University of Agriculture and Technology), Masaharu Motokawa (The Kyoto University Museum, Kyoto University)

- 1) Masaharu Motokawa (The Kyoto University Museum, Kyoto University): Demonstrate your research in the world with “Mammal Study”

Workshop

23 September (Sun) 12:45~14:30

Room A, Building L 101

W18 Toward effective and efficient countermeasures against invasive alien mammals.

Chair: Tohru Ikeda (Hokkaido University), Nobuo Ishii (Tokyo Woman's Christian University) and Fumio Yamada (Forestry and Forest Products Research Institute)

- 1) Kunihiro Tokida (Japan Wildlife Research Center): Process and result of a review of invasive alien species campaign
- 2) Keita Fukasawa (National Institute for Environmental Studies): Evaluating mongoose eradication success in Amami Island: can ecological models support policy-making of IAS management in Japan?
- 3) Tohru Ikeda (Hokkaido University) and Go Abe (University of Hyogo/Wildlife Management Research Center): Challenges for raccoon control campaign
- 4) Nobuo Ishii (Tokyo Woman's Christian University), Fumio Yamada (Forestry and Forest Products Research Institute): On the request submitted to the government, regarding effective measures against alien mammals
- 5) Okimasa Murakami (Kyoto Seika University): Comment

Room B, Building L 105/106

W19 The present issues and perspectives of venison as natural resources in the spot of sika deer management

Chair: Mayumi Yokoyama (University of Hyogo) and Yukiko Matsuura (Forestry and forest products research institute)

- 1) Mayumi Yokoyama (University of Hyogo): Current status of capture and utilization of sika deer in Japan.
- 2) Hiroyuki Ida (Yezo Deer association): Current status of hygiene management of the venison in Japan.
- 3) Yukiko Matsuura (Forestry and forest products research institute): HACCP model of venison and hunters qualification system in U.K.
- 4) Kenichi Takeda (University of Shinsyu): Capture stress and resources utilization of sika deer.
- 5) Youhei Sasaki (Japan Hunters association): The establishment of 'Japan Natural meat development association'.

Room C, Building L 201

W20 The status of newly developed wildlife telemetry systems

Chair: Toshiki Aoi (Iwate University), Koji Yamazaki (Ibaraki Nature Museum) and Toshio Tsubota (Graduate School of Vet. Med., Hokkaido Univ.)

- 1) Masato Yazawa (Mathematical Assist Design Laboratory): The spec of new system (GPS-TX), and a future view.
- 2) Yuuma Yasue • Toshiki Aoi (Graduate School of Agriculture, Iwate University): The spec of newly developed trap sensor system and its adaptation to capture the wildlife.
- 3) Hirokazu Takahashi (The Unit. Grad. School of Agr. Sci., Iwate Univ.): Tracking animals, using GPS-TX collar.
- 4) Koji Yamazaki (Ibaraki Nature Museum): Challenging of the satellite telemetry system deploying on Japanese wildlife.
- 5) Toshio Tsubota (Graduate School of Vet. Med., Hokkaido Univ.): Radio-tracking of Hokkaido brown bears by real-time telecommunications using mobile phones.
- 6) Sakaniwa Hiroyuki (Forestry Experiment Station, Gunma Prefecture): Development of GPS-collar for shika deer.

Room D, Building L 204

W21 Sampling design and data analysis: introduction to statistical modeling with GLM and AIC

Chair: Masashi Kiyota (National Research Institute of Far Seas Fisheries, Fisheries Research Agency)

- 1) Masashi Kiyota (National Research Institute of Far Seas Fisheries, Fisheries Research Agency): From t-test to GLM: a first step to flexible statistical modeling
- 2) Takayuki Seto (Wildlife Conservation Laboratory, Tokyo University of Agriculture and Technology): Allometry analysis of the body size of sika deer by GLM with consideration for sexual and regional differences
- 3) Kyoko Kobayashi (Wildlife Conservation Laboratory, Tokyo University of Agriculture and Technology): Application of model selection for growth analysis of brown bear: influence of individual variation in food habits on growth
- 4) Masashi Kiyota (National Research Institute of Far Seas Fisheries, Fisheries Research Agency): Understanding the role of maximum likelihood and AIC in GLM and model selection

Room E, Building L 205

W22 Dispersal male and philopatric female

Chair: Shinsuke Sakamoto (Frontier Science Research Center, Univ. of Miyazaki), Naoki Ohnishi (Forestry & Forest Products Research Institute, Tohoku) and Takuya Shimada (Forestry & Forest Products Research Institute, Tohoku)

- 1) Naoki Ohnishi (Forestry & Forest Products Research Institute, Tohoku): Female Asian black bear is remarkably philopatric.
- 2) Akihiro Yamane (Kitakyushu Museum of Natural History & Human History): 'No female, no stay', in feral cat?
- 3) Yamato Tsuji (Primate Research Institute, Kyoto University): Female Japanese macaques occasionally disperse.
- 4) Shinsuke Sakamoto (Frontier Science Research Center, Univ. of Miyazaki): Female large Japanese field mouse sometimes disperse.

Room G, Building V 119/120

W23 Reconsideration of Japanese Canine Breeds as a Bioresources

Chair: Takefumi Kikusui (Azabu University), Miho Murayama (The Wildlife Research Center of Kyoto University)

- 1) Naotaka Ishiguro (Gifu University): Genetic lineage of two extinct Japanese wolves.
- 2) Miho Murayama (The Wildlife Research Center of Kyoto University): Genetic background of behavior trait in Japanese dogs.
- 3) Miho Nagasawa (Azabu University): The social cognitive ability in Shiba-inu.
- 4) Gaku Kumagai (Tama Zoological Park): Study of the formation of a wolf pack in captive wolves and a wolf being abandoned from the pack

Oral Session

21 September (Fri)
Room A, Building L 101 9:00 ~ 16:00

- 9:00 A-1 **Resolving the homology and dual embryonic origin of a mammalian skull bone, the interparietal**
 ○Daisuke Koyabu^{1,2} (¹Kyoto University Musuem, ²Japan Society for the Promotion of Science)
- 9:15 A-2 **A relationship between people and wildlife during the Edo Era in Tohoku District, based on an analysis of the historical archives “Morioka-Han Zassho”**
 ○Haruka Matsumura and Shingo Miura (Graduate School of Human Sciences, Waseda University)
- 9:30 A-3 **Symmetry of Body design on Evolution – Cepaholo-Pelvic Symmetry etc.**
 ○Yukishige Kozawa (Visiting laboratory on ‘Bone and Tooth’)
- 9:45 A-4 **The alternative explosive openers of *Mucuna macrocarpa* (Leguminosae) in Oita**
 ○Shun Kobayashi¹, Tetsuo Denda², Shigehiko Mashiba³, Toshitaka Iwamoto⁴, Masako Izawa²
 (¹Graduate School of Engineering and Science, Univ. Ryukyus., ²Faculty of Science, Univ. Ryukyus., ³Saiki City, Oita Prefecture, ⁴Faculty of Education and Culture, Univ. Miyazaki)
- 10:00 A-5 **Communication Behaviour of Dholes (*Cuon alpinus*): Especially the Function of the Whistle Call**
 ○Shuta Sawaguri¹, Aki Kasori², R. Thirumurugan³, R. Nandakumaren⁴, Masato Nakamura⁵, R. Sukumar⁶, Shiro Kohshima⁷
 (¹Division of Biological Science, Graduate School of Science, Kyoto Univ ²Zoorasia, Yokohama Zoological Gardens, ³Arignar Anna Zoological Park, ⁴Night Safari, Singapore, ⁵Department of Parks and Green Zones, Tokyo Metropolitan Government Bureau of Construction, ⁶Centre for Ecological Sciences, Indian Institute of Science, ⁷Wildlife Research Center of Kyoto Univ.)
- 10:15 A-6 **External factors affecting the seasonal changes of fur color in the Japanese marten *Martes melampus***
 ○Kimitake Funakoshi¹, Ayumi Nagasato², Kanji Tamai³, Rhie Kannonji¹, Madoka Kikusui¹
 (¹Faculty of Intercultural Studies, The International University of Kagoshima, ²Kagoshima Environmental Research and Service, ³Kagoshima City Zoological Gardens)

-Intermission-

- 10:45 A-7 **Habitat preferences of otters in peninsular Malaysia and southern Thailand**
 ○HIROSHI SASAKI¹, SHUKOR MD NOR², BURHANUDDIN MOHD NOR³, BUDSABONG KANCHANASAKA⁴, BADRUL MUNIR MD-ZAINNOR², SUCHITRA CHANGTRAGOON⁴, TAKESHI SEKIGUCHI⁵
 (¹Chikushi Jogakuen University Junior College, Japan, ²Faculty of Science and Technology, Universiti Kebangsaan Malaysia, ³Department of Wildlife and National Parks, Malaysia, ⁴National Park, Wildlife and Plant Conservation Department, Thailand, ⁵Department of Molecular Biology, Graduate School of Medical Science, Kyushu University, Japan)

- 11:00 A-8 **Accumulation feature of anthropogenic and natural occurrence halogenated phenols in the blood of pet dogs and cats and their exposure status through pet food**
 ○Hazuki Mizukawa¹, Kei Nomiyama¹, Susumu Nakatsu², Miyuki Yamamoto¹, Hisato Iwata¹, Shinsuke Tanabe¹
 (¹Center for Marine Environmental Studies (CMES), Ehime University, ²Nakatsu Veterinary Surgery)
- 11:15 A-9 **Three dimensional models of Signaling lymphocyte activation molecule (SLAM), a receptor of morbillivirus in carnivores including two Japanese wild cats**
 ○Kazue Ohishi¹, Rintaro Suzuki², Taro Maeda¹, Miwako Tsuda¹, Erika Abe¹, Takao Yoshida¹, Yasuyuki Endo³, Maki Okamura⁴, Takashi Nagamine⁵, Hanae Yamamoto⁶, Miya Ueda⁷, Tadashi Maruyama¹
 (¹Japan Agency for Marine-Earth Science and Technology, ²Institute of Agrobiological Science, ³University of Kagoshima, ⁴Iriomote Wildlife Conservation Center, ⁵Conservation & Animal Welfare Trust Okinawa, ⁶Tsushima Wildlife Conservation Center, ⁷Yokohama greenery foundation, Yokohama Zoological gardens)
- 11:30 A-10 **The repellent effect to give to grazers of chemical component in feces of felines**
 ○Chiaki Nishi¹, Shingo Ohashi¹, Masao Miyazaki¹, Tetsuro Yamashita¹, Noriya Saito², Mamoru Komori³, Tunenori Tujimoto⁴, Yoshitaka Deguchi¹, Hisayoshi Kofujita¹, Kazuei Matsubara¹
 (¹Faculty of Agriculture, Iwate Univ., ²Zoorasia Yokohama Zoological Gardens, ³Akita Omoriyama Zoo, ⁴Morioka Zoological Park)
- 11:45 A-11 **Comparative anatomy of double innervated muscles of hindlimb in *Herpestes auropunctatus* and musculus iliofemoralis of *Uromastix aegyptia*.**
 ○Tomo Inoue, Mami Sumida (Graduate School of Informatics, Okayama Univ. of Science)
- Intermission-**
- 13:00 A-12 **Estimating population size of Japanese black bears in hard debarking coniferous plantations area by using microsatellite DNA markers**
 ○Atsuyuki Katahira (Gunma Pref. For. Lab.)
- 13:15 A-13 **Estimating population size of Japanese black bear (*Ursus thibetanus japonicus*) using hair-trap technique in North Kitakami Mountains, Iwate**
 ○Kiyoshi YAMAUCHI¹, Shigekazu KURAKAKE¹, Keita FUKASAWA², Takahiro MOROSAWA², Masaaki YONEDA³
 (¹Research Institute for Environmental Science and Public Health of Iwate Prefecture, ²National Institute for Environmental Studies, ³Japan Wildlife Research Center)
- 13:30 A-14 **Does the existence number of 'feeding sign' by Asiatic black bear indicate he population density?**
 ○Akari Hamaguchi¹, Noriyoshi Mimura², Akio Ichikawa¹, Takahiro Mizukami¹, Kenji Yagi¹, Junichi Mima¹
 (¹Environmental Assessment center, ²Nagano prefecture)
- 13:45 A-15 **A density estimate and ecological investigations in Asiatic black bear using the camera trap method**
 ○Daishi Higashide¹, Shingo Miura¹, Hideo Miguchi²
 (¹Faculty of Human Sciences, Waseda Univ., ²Faculty of Agriculture, Niigata Univ.)

- 14:00 A-16 **The trial of the ecological study of the Japanese black bear using a collar with a video camera**
 ○Yusuke Goto (Tateyama Caldera Sabo Museum)
- 14:15 A-17 **Do the individual variations in food habits link to the fitness?: from the test of relations between food habits and growth of brown bear**
 ○Kyoko Kobayashi¹, Masao Minagawa², Masashi Kiyota³, Tsutomu Mano⁴, Koichi Kaji¹ (¹Tokyo Univ. of Agriculture and Technology, ²Graduate School of Environmental Earth Science, Hokkaido Univ., ³National Research Institute of Far Seas Fisheries, ⁴Hokkaido Research Organization)
- Intermission-
- 14:45 A-18 **Assessment of genotyping accuracy in a non-invasive DNA-based population survey of Asiatic black bears (*Ursus thibetanus*): lessons from a large-scale pilot study in Iwate prefecture, northern Japan**
 ○Reina Uno¹, Mami Kondo², Takashi Yuasa³, Kiyoshi Yamauchi⁴, Hifumi Tsuruga², Hidetoshi B. Tamate⁵, Masaaki Yoneda⁶ (¹Institute for Advanced Biosciences, Keio, ²Hokkaido Institute of Environmental Sciences, ³Wildlife Management Office, Inc., ⁴Research Institute for Environmental Science and Public health of Iwate prefecture, ⁵Department of Biology, Yamagata Univ., ⁶Japan Wildlife Research Center)
- 15:00 A-19 **The interspecific relationship between *Vulpes ferrilata* and *V. vulpes*: a preliminary study of the distribution and food habits**
 ○Hideharu Tsukada¹, Wei Li², Hong Duo², Zhihong Guo^{2,3}, Yong Fu², Mao Peng², Xiu ying Shen², Jian wu Jing⁴, Ai shanYuan⁴, Ma Ni⁵, Sheng de He⁵, Fu qiang Huang², Kai Feng², Keisuke Ishikawa^{1,6}, Nariaki Nonaka³
 (¹NARO institute of Livestock and Grassland Science, ²Qinghai University, ³Miyazaki Univ., ⁴He Ka sheep farm of Qinghai Province, ⁵Animal Husbandry and Veterinary Station of Qinghai Province, ⁶Azabu Univ.)
- 15:15 A-20 **How does the Japanese badger perform maintenance of a set?**
 ○Hiroshi Tanaka (Yamaguchi prefectural Yamaguchi Museum)
- 15:30 A-21 **Changes of raccoon dog home range after raccoon invasion in Hinode-town, Tokyo**
 ○Yayoi Kaneko¹, Eiji Kanda², Yasusi Ueno¹, Shigeru Yodogawa¹, Go Miyamoto¹
 (¹Tokyo University of Agriculture and Technology, ²Tokyo Wildlife Research Centre)
- 15:45 A-22 **Revised population dynamics of red foxes by re-searching for dens**
 ○Kohji Uruguchi (Hokkaido Institute of Public Health)

Room C, Building L 201 9:00 ~ 15:30

- 9:00 C-1 **Phylogenetic analysis of extant leporid genera based on morphology of the skull, jaw, and dentition: preliminary study**
 ○Yukimitsu Tomida¹, Tomoyuki Ohashi²
 (¹National Museum of Nature and Science, Japan; ²Kitakyushu Museum of Natural History and Human History, Japan)
- 9:15 C-2 **Seasonal and geographic variation in Guard hair of the Japanese hare (*Lepus brachyurus*)**
 ○Mitsuo Nunome (Nagoya University)
- 9:30 C-3 **Strategic and tactical differences of mounting patterns in Japanese macaques (*Macaca fuscata*)**
 ○Naofumi Nakagawa¹, Hideki Sugiura², Miki Matsubara³, Sachiko Hayakawa⁴, Shiho Fujita⁵, Shigeru Suzuki⁶, Yukiko Shimooka⁷, Mari Nishikawa¹, Mariko Suzuki
 (¹Graduate School of Science, Kyoto Univ., ²Wildlife Research Center, Kyoto Univ., ³School of International Liberal Studies, Chukyo Univ., ⁴Primate Research Institute, Kyoto Univ., ⁵Faculty of Veterinary Medicine, Kagoshima Univ., ⁶Faculty of Intercultural Communication, Ryukoku Univ., ⁷Faculty of Life and Environment Sciences, Teikyo Univ. of Science)
- 9:45 C-4 **To which extent we should protect crop fields by fences in villages from feeding by monkeys for effective damage management**
 ○Katsuya Suzuki¹, Naoto Yamabata², Yoshiki Morimitsu², Yasuyuki Muroyama² (¹University of Hyogo / Wildlife Management Research Center, Hyogo, ²Mie Prefecture Agricultural Research Institute)
- 10:00 C-5 **To which extent we should chase crop-feeding monkeys away from villages for effective damage management**
 ○Naoto Yamabata¹, Katsuya Suzuki², Yoshiki Morimitsu, Yasuyuki Muroyama
 (¹Mie Prefecture Agricultural Research Institute, ²University of Hyogo / Wildlife Management Center, Hyogo)
- 10:15 C-6 **Individual identification of wild Javan lutung (*Trachypithecus auratus*) using specific spot patterns on their crotch skins**
 ○Yamato Tsuji¹, Kanthi Arum Widayati², Islamul Hadi^{2,3}, Bambang Suryobroto², and Kunio Watanabe¹
 (¹Department of Ecology and Behavior, Primate Research Institute, Kyoto University, 41-2, Kanrin, Inuyama, Aichi, 484-8506, Japan, ²Department of Biology, Faculty of Mathematics and Natural Sciences, Bogor Agricultural University, Darmaga Campus, Bogor, West Java, 16680, Indonesia, ³Biology Study Program, Faculty of Mathematics and Natural Sciences, Mataram University, 62 Mataram, Lombok, 83125, Indonesia)
- Intermission-
- 10:45 C-7 **Examination of the repellent control measures of larger Japanese mole (*Mogera wogura*) in farms**
 ○Yasushi Yokohata¹, Mika Kawabata², Ryosuke Nakatake^{2,3}, Akira Yasuda¹
 (¹Graduate School of Science and Engineering, Univ. Toyama, ²Faculty of Science, Univ. Toyama, ³Present address: The Board of Education in Himi City)
- 11:00 C-8 **Molecular phylogenetic analyses of the moles from Hainan Island, China**
 ○Akio Shinohara¹, Yuchun Li², Masaharu Motokawa³, Yi Wu⁴, Nguyen Truong Son⁵, Masashi Harada⁶, Zhong Chen⁷, Chihiro Koshimoto¹ (¹FSRC, Univ. of Miyazaki, ²Marine College, Shandong Univ. at Weihai, ³Kyoto University Museum, ⁴College of Life Science, Guangzhou Univ., ⁵IEBR, Vietnam Academy of Science and Technology, ⁶Graduate School of Medicine, Osaka City Univ., ⁷Department of Biology, Hainan Normal Univ.)

Oral Session

11:15 C-9 **Regional difference of annual home range size of Mongolian gazelles and vegetation conditions**

○Imai S¹, Ito TY², Kinugasa T¹, Tsunekawa A², Shinoda M², Lhagvasuren B³
(¹Department of Agriculture, Tottori University, ²Arid Land Research Center, Tottori University, ³WWF Mongolia)

11:30 C-10 **Asymmetric occurrences of 180° rotation of mandibular second premolars in *Capricornis crispus* from Aichi Prefecture, Central Japan.**

○Kazuhiro Koyasu¹, Keiko Sone¹, Asuka Natsume-Takano², Sen-ichi Oda³
(¹School of Dentistry, Aichi-Gakuin Univ., ²Inuyama Institute for Satoyama Sciences, ³Faculty of Science, Okayama Univ. of Science)

-Intermission-

13:00 C-11 **A review of *Murina* (Chiroptera: Vespertilionidae) in Vietnam**

○Nguyen Truong Son¹, Hideki Endo², Masaharu Motokawa³
(¹Institute of Ecology and Biological Resources, Vietnam Academy of Sciences and Technology, 18 Hoang Quoc Viet St., Cau Giay, Hanoi, VIETNAM, ²The University Museum, The University of Tokyo, JAPAN, ³Kyoto University of Museum, Kyoto University, JAPAN)

13:15 C-12 **A species of genus *Eptesicus* was found newly in Japan**

○Masahiko Satō¹, Kuniko Kawai², Kishio Maeda³
(¹Rishiri Town Museum, ²Field Science Center for Northern Biosphere Hokkaido Univ., ³Asian Bat Research Institute)

13:30 C-13 **Seasonal changes in structure of germinal layers in earplugs from common minke whales**

○Hikari Maeda¹, Toshiya Kishiro², Yoshihiro Fujise³, Hidehiro Kato¹
(¹Tokyo Univ. of Marine Science and Technology, ²National Research Institute of Far Seas Fisheries, ³The Institute of Cetacean Research)

13:45 C-14 **The first stranding record of Longman's beaked whale (*Indopacetus pacificus*) in Okinawa, JAPAN**

○Kouji Tokutake¹, Haruna Okabe², Hideyoshi Yoshida³, Isao kawazu², Hirokazu Miyahara⁴, Keiichi Ueda^{2,4}, Haruka Ito⁵, Senzou Uchida⁴
(¹Ocean Expo. Commemorative Park Management Foundation ²Ocean Expo Research Center, ³National Research Institute of Far Seas Fisheries ⁴Okinawa Churaumi Aquarium, ⁵Laboratory of Cetacean Biology Tokyo University of Marine Science and Technology)

-Intermission-

14:45 C-15 **Evaluating Environmental and Movement Influences on GPS Collar Performance**

○Fumihiro Kaneko¹, Zhao-Wen Jiang¹, Hirohide Fujimori², Yuusaku Yamada¹, Misao Okano¹ (¹Wildlife Management Office Inc., ²Kanagawa Prefecture Natural Environment Conservation Center)

15:00 C-16 **Development of a terrestrial animal-borne video system for wildlife research**

○Yoshiki morimitsu (University of Hyogo / Wildlife Management Research Center, Hyogo)

15:15 C-17 **Evaluation of capturing efficiency of corral trap with AI-Gate**

○Go Abe, Hiroshi Sakata (Institute of Natural and Environmental Science, Univ. of Hyogo / Wildlife Management Research Center)

Room D, Building L 204 9:00 ~ 16:00

- 9:00 D-1 **Reproductive characteristics of female sika deer at the southwestern foot of Mt. Fuji**
 ○Toru Koizumi¹, Masataka Ohashi², Ryota Araki³, Kunio Sakamoto⁴, Hideshi Iwazaki⁵, Itsuo Hayakawa⁵, Masayoshi Ohtake², Chizuru Yayota¹ (¹Forestry and Forest Products Research Institute, ²Shizuoka Forestry and Forest Products Research Center, ³Japan Wildlife Research Center, ⁴Shizuoka District Forest Office, ⁵Non-Prifit Organization, Wakaba)
- 9:15 D-2 **Intraspecific comparisons of sika deer by mesowear analysis**
 ○Eisuke Yamada¹, Mugino O. Kubo²
 (¹Kagoshima Univ., ²The Univ. Museum, The Univ. of Tokyo)
- 9:30 D-3 **Impacts of deer browsing on stand dynamics of secondary hardwood forests.**
 ○Nobuhiro Akashi, Akira Unno (Forestry Research Institute, Hokkaido Research Organization)
- 9:45 D-4 **The relationship between bark-stripping damage caused by SikaDeer (*Cervus nippon*) and thinning of forest**
 ○Hiroyuki Tado¹, Takuo Hironaga², Noboru Koeda², Eiji Hosoi³ (¹Yamaguchi prefecture Agriculture and Forestry General Engineerring Center, ²Yamaguchi Agriculture and Forestry Office, ³Faculty of Agriculture Yamaguchi University)
- 10:00 D-5 **Discussion of countermeasure way for urban deer from the GPS collar tracking data at Sapporo city.**
 ○Yasuyuki Tachiki¹, Tsuyoshi Yoshida², Yukiko Matsuura³, Rika Akamatsu¹
 (¹EnVision Conservation Office, ²Rakuno Gakuen Univ., ³Forest and Forest Products Res. Inst.,)
- 10:15 D-6 **Capturing sika deer with a drop net in forests**
 ○Hiroshi Takahashi¹, Yonezo Sakai², Iwao Inoue³, Atsushi Shibahara³, Toru Koizumi¹ (¹Kansai Research Center, Forestry and Forest Products Research Institute, ²Kyoto Prefectural Agriculture, Forestry and Fisheries Technology Center, ³Kyoto Prefecture, ⁴Forestry and Forest Products Research Institute)
- Intermission-
- 10:45 D-7 **Damage to natural deciduous forest caused by Sika deer bark-stripping in the southwestern part of Shikoku Is., Japan.**
 ○Hideo Okumura¹, Atsushi Sakai¹, Shiro Okuda²
 (¹Shikoku Research Center, FFPRI, ²Kansai Research Center, FFPRI)
- 11:00 D-8 **Activity of female sika deer on baits**
 ○Tsuneaki Yabe (Kyushu Research Center, Forestry and Forest Products Research Institute)
- 11:15 D-9 **Elucidation of behavioral characteristics of sika deer in Mt.Fuji using GPS collar**
 ○Takahiro Ohba, Masataka Ohashi, Masayoshi Ohtake, Shinya Yamada
 (For. and Forest Prod. Res. Cen., Shizuoka Pref. Res. Inst. of Agri. and For.)
- 11:30 D-10 **Metabolism of methemoglobinemia after administration of nitrates in sika deer (*Cervus nippon*)**
 ○Masayoshi Ohtake, Masataka Ohashi, Takahiro Ohba, Shinya Yamada (For. and Forest Prod. Res. Cen., Shizuoka Pref. Res. Inst. of Agri. and For.)

Oral Session

- 11:45 D-11 **Cranial morphological homogeneity in two subspecies of water deer in China and Korea**
 ○Y. K. Kim^{1,2}, D. Koyabu³, Y. J. Kim¹, H. Lee¹ & J. Kimura²
 (1Conservation GenomeResource Bank for Korean Wildlife, College of Veterinary Medicine, Seoul National University, 2Department of Veterinary Anatomy and Cell Biology, College of Veterinary Medicine, Seoul National University, 3Kyoto University Museum, Yoshida-Honmachi, 606-8501 Kyoto, Japan)

-Intermission-

- 13:00 D-12 **Pleistocene remains of the grass voles (*Microtus*) from Shikoku, Japan: Scenarios on the extinction of the voles in Shikoku and perspective to further research**
 ○Yuichiro Nishioka¹, Yoshinari Kawamura² (¹Primate Research Institute, Kyoto Univ., ²Aichi Univ. of Education)
- 13:15 D-13 **Body and cranial size variations of *Apodemus peninsulae* and *Myodes rufocanus* in Hokkaido and Sakhalin: can character displacement explain their variations?**
 ○Yukibumi Kaneko¹, Keisuke Nakata²
 (¹502-4, Takayacho, Sakaide, Kagawa, 762-0017, Japan, ²Forestry Research Institute, Hokkaido Research Organization, Bibai, Hokkaido 079-0198, Japan)
- 13:30 D-14 **Ontogenetic allometry shifts in rodent evolution**
 ○Laura A. B. Wilson
 (School of Biology University of New South Wales)
- 13:45 D-15 **On the genetic diversity of isolated populations of *Apodemus speciosus***
 ○Jun J. Sato, Tsukasa Kawakami, Masaya Tamenishi, Yurina Tasaka, Yasunori Yamaguchi (Department of Biotechnology, Fukuyama Univ.)
- 14:00 D-16 **Variations of coat colors and coat color related gene *Mclr* in black rats occurring in Ootouto-jima, Ogasawara Islands, Japan**
 ○Hitoshi Suzuki¹, Shoichi Sasamori¹, Takashi Kirihara², Takuma Hashimoto²
 (¹Graduate School of Environmental Earth Science, Hokkaido University, ²Japan Wildlife Research Center)
- 14:15 D-17 **Morphological shifts of body and skull in a cyclic population of *Myodes rufocanus bedfordiae***
 ○Keisuke Nakata (Forestry Research Institute, Hokkaido Research Organization)

-Intermission-

- 14:45 D-18 **Phylogenetic positions of *Rattus rattus* and *Bandicota bengalensis* from Sri Lanka**
 ○Shumpei P. Yasuda^{1,2}, Chandika D. Gamage¹, Nobuo Koizumi³, Sanae Nishio¹, Rie Isozumi¹, Kenta Shimizu¹, Takaaki Koma¹, Takako Amada¹, Hitoshi Suzuki⁴, Kumiko Yoshimatsu¹, Jiro Arikawa¹
 (¹Hokkaido University Graduate School of Medicine, ²Tokyo Metropolitan Institute of Medical Science, ³National Institute of Infectious Diseases, ⁴Graduate School of Environmental Earth Science, Hokkaido University)
- 15:00 D-19 **Is the tannin tolerance of the Japanese wood mouse genetically controlled?**
 ○Takuya Shimada¹, Kayoko Izumi², Takashi Saitoh³ (¹FFPRI, Tohoku, ²Graduate School of Environmental Science University of Hokkaido, ³Field Science Center, University of Hokkaido)

- 15:15 D-20 **Accumulation of radioactive cesium in *Apodemus speciosus* after 7-9 months of the Fukushima nuclear accident**
 ○Fumio Yamada¹, Morihiko Tomosawa², Rumiko Nakashita¹, Toru Koizumi¹, Takuya Shimada¹ (¹Forestry and Forest Products Research Institute (FFPRI), ²Keio Univ.)
- 15:30 D-21 **Habitat preference of the Amur hedgehog (*Erinaceus amurensis*) at Ito and Odawara**
 ○Ryoko Takagi, Azusa Mori, Ayako Iizuka, Motokazu Ando, Hiroshi Ogawa, Takeshi Sasaki (Lab. of wild animals, Tokyo Univ. of Agriculture)
- 15:45 D-22 **Influence of competition species to nest site selections: do flying squirrels influence nest selection by field mice?**
 ○Kei Suzuki^{1,2}, Yutaka Yamane², Hisashi Yanagawa^{1,2} (1The United Graduate School of Agricultural Sciences, Iwate Univ., ²Obihiro Univ.of Agriculture and Veterinary Medicine)

Poster Session

core time: 21 September 16:30 ~ 17:30 (odd number)
22 September 9:00 ~ 10:00 (even number)

- P-1 **Morphological study on burrowing adaptation: Comparison of humerus between semifossorial *Sorex unguiculatus* and terrestrial *S. gracillimus***
○Maki Hashimoto¹, Yuichiro Nojima², Tatsuo Oshida³ (¹Laboratory of Wildlife Biology, Obihiro University of Agriculture and Veterinary Medicine, Laboratory of Wildlife Ecology, ²Obihiro University of Agriculture and Veterinary Medicine, ³Laboratory of Wildlife Biology, Obihiro University of Agriculture and Veterinary Medicine, Laboratory of Wildlife Ecology, Obihiro University of Agriculture and Veterinary Medicine)
- P-2 **Morphological differentiation of island populations of Dsinezumi shrews from the Inland Sea and Kyushu**
○Yasushi Takada¹, Yasushi Uematsu, Eiichi Sakai, Takashi Tateishi (¹Aichi-Gakuin University, ²Aichi-Gakuin Junior College, ³Fujisawa City)
- P-3 **Survey of two species of Soricomorpha in Arimine Area of Toyama Prefecture**
○Hiroaki Ishida, Ken Fujishige, Akitsu Miyamoto, Yasushi Yokohata (Graduate School of Science and Engineering, Univ. Toyama,)
- P-4 **Care and reproduction of the lesser shrew, *Cryptoris parva* in the breeding colony of Okayama University of Science**
○Kenta Goto¹, Atusi Kobayashi¹, Takamichi Jogahara¹, Kazuhiro Koyasu², Orin B. Mock³, Sen-ichi Oda¹ (¹Department of Zoology, Okayama University of Science, ²of Department Anatomy, School of Dentistry, Aichi-Gakuin University, ³Kirkville College of Medicine)
- P-5 **Why do not *Chimarrogale platycephala* and *Microtus montebelli* distribute in Shikoku Island, Japan?**
○Junji Moribe (Research Center for Wildlife Management, Gifu Univ.)
- P-6 **Environmental factors on the capture rate of Japanese Water Shrew *Chimarrogale platycephala***
○Hiroaki Saito, Kentaro Kazama, Teruaki Hino (Laboratory of Environmental Zoology, Faculty of Agriculture, Meijo University)
- P-7 **Daily torpor and overwintering in the house musk shrew, *Suncus murinus***
○Miho Hatanaka¹, Atsushi Kashimura¹, Akio Shinohara², Kimiyuki Tsuchiya³, Toshihiro Takahashi¹, Tetsuo Morita¹ (¹Faculty of Agriculture, Univ. of Miyazaki, ²Frontier Science Research Center, Univ. of Miyazaki, ³Applied Biology, Co., Ltd.)
- P-8 **Effect of sucrose intake in the hybrids between KAT and NAG strain of shrew, *Suncus murinus***
○Chizue Oda¹, Takamichi Jogahara², Sen-ichi Oda² (¹Major in zoology, Graduate School of Science, Okayama University of Science, ²Department of zoology, Faculty of Science, Okayama University of Science)
- P-9 **Enhancement of cold tolerance in the shrew, *Suncus murinus* by low-temperature acclimatization**
○Atsuhiko Kobayashi¹, Takamichi Jogahara², Sen-ichi Oda², Kazuhiro Koyasu³, Orin B. Mock⁴ (¹Major in Zoology, Graduate School of Science, Okayama Univ. of Science, ²Department of Zoology, Faculty of Science, Okayama Univ. of Science, ³Department of Anatomy, School of Dentistry, Aichi-Gakuin University, ⁴Kirkville College of Osteopathic Medicine)
- P-10 **Change of reproductive performance and external features in the laboratory shrew, *Suncus murinus* on the long-term breeding process**
○Masayoshi Nanba, Takamichi Jogahara, Atsuhiko Kobayashi, Chizue Oda, Sen-ichi Oda (Department of Zoology, Faculty of Science, Okayama University, of Science)

- P-11 **Assignment of geographic borders of DNA phylogroups and morphological differentiation in the western Japanese mole *Mogera mogera***
 ○Hiroaki Mikamori¹, Masashi Harada², Takashi Kiriha¹, Kimiyuki Tsuchiya³, Hitoshi Suzuki¹ (¹Graduate School of Environmental Science, Hokkaido University, ²Graduate School of Medicine, Osaka City University, ³Applied Biology Co.Ltd)
- P-12 **On small mammals collected on Goto Islands, Nagasaki Pref., Japan**
 ○Yasushi Uematsu¹, Eiichi Sakai², Yasushi Takada¹, Takashi Tateishi³ (¹Aichi-Gakuin University, ²The Junior college Division of Aichi Gakuin University, ³Fujisawa City)
- P-13 **Survey of three arboreal rodent species with nest box in Arimine Area of Toyama Prefecture**
 ○Akitsu Miyamoto, Ken Fujishige, Hiroaki Ishida, Yasushi Yokohata (Graduate School of Science and Engineering, Univ. Toyama)
- P-14 **Preliminary study on environmental factors to determine use of nest boxes by the Siberian flying squirrel (*Pteromys volans orii*)**
 ○Yuki Yoshimura¹, Yuka Takeichi¹, Shoko Tachibana¹, Hiroyuki Ueda², Asuka Hayashi², Manami Suzuki², Ami Kato^{2,3}, Ayuko Ohkawa⁴, Masaki Matsui⁴, and Tatsuo Oshida¹ (¹Laboratory of Wildlife Biology, Obihiro University of Agriculture and Veterinary Medicine, ²Laboratory of Wildlife Ecology, Obihiro University of Agriculture and Veterinary Medicine, ³Kiyosato Educational Experiment Project (present address), ⁴The University Forest in Hokkaido, The University of Tokyo)
- P-15 **Preliminary study on nest materials of the Siberian flying squirrel (*Pteromys volans orii*) in mountainous natural forest in Hokkaido, Japan**
 ○Minori Shibata¹, Shoko Tachibana¹, Yuka Takeichi¹, Asuka Hayashi², Hiroyuki Ueda², Manami Suzuki², Ami Kato^{2,3}, Ayuko Ohkawa⁴, Masaki Matsui⁴, and Tatsuo Oshida¹ (¹Laboratory of Wildlife Biology, Obihiro University of Agriculture and Veterinary Medicine, ²Laboratory of Wildlife Ecology, Obihiro University of Agriculture and Veterinary Medicine, ³Kiyosato Educational Experiment Project (present address), ⁴The University Forest in Hokkaido, The University of Tokyo)
- P-16 **Preliminary study on nest resource competition in reproduction between two arboreal rodents (*Pteromys volans orii* and *Apodemus argenteus*)**
 ○Daisuke Sato¹, Shoko Tachibana¹, Yuka Takeichi¹, Asuka Hayashi², Hiroyuki Ueda², Manami Suzuki², Ami Kato^{2,3}, Ayuko Ohkawa⁴, Masaki Matsui⁴, and Tatsuo Oshida¹ (¹Laboratory of Wildlife Biology, Obihiro University of Agriculture and Veterinary Medicine, ²Laboratory of Wildlife Ecology, Obihiro University of Agriculture and Veterinary Medicine, ³Kiyosato Educational Experiment Project (present address), ⁴The University Forest in Hokkaido, The University of Tokyo)
- P-17 **Reproductive strategy of the Siberian flying squirrel**
 ○Yushin Asari¹, Hisashi Yanagawa² (¹Chodai Co., Ltd., ²Obihiro Univ. of Agriculture and Veterinary Medicine)
- P-18 **Home range and rest-site characteristic of Japanese dormouse *Glirulus japonicus* in Yamagata prefecture**
 ○Nobuaki Kojo¹, Yumena Nakamura¹, Hidetoshi Tamate² (¹Graduate School of Science and Engineering, Yamagata University, ²Faculty of Science, Yamagata University)
- P-19 **The Situation of observations on Japanese dormouse based on information available on the Web**
 ○Seishi Kadowaki, Masanori Sugiyama
 (Yatsugatake Forest, Agricultural and Forestry Research Center, University of Tsukuba)
- P-20 **Early control of invasive species, *Callosciurus erythraeus*, at Iruma City, Saitama Prefecture**
 Tatsuya Kasai¹, Nozomu Mitarai¹, Masato Kaneda², Fumiaki Yamasaki³, Masateru Morisaki³, Tomoka Nakatake⁴, Susumu Ono⁴, ○Mayumi Shigeta⁵, Yuusuke Shigeta⁵, Nami Hasegawa⁶, Makoto Waguri⁶ & Noriko Tamura⁷. (¹IRUMALIS, ²Zephyrus Co., Ltd., ³Nippon Veterinary and Life Science Univ., ⁴Regional Environmental Planning Inc., ⁵Wildlife Management Inc., ⁶Midori-no-ka of Iruma City, ⁷FFPRI Tama)

Poster Session

- P-21 **The investigation of nesting use of Japanese Squirrels in a suburban forest**
Chiaki Nishi, ○Yoshitaka Deguchi, Toshiki Aoi (Faculty of Agriculture, Iwate Univ.)
- P-22 **Distributional Change of the Japanese squirrel (*Sciurus lis*) for twenty-five years in Chiba prefecture, central Japan (II)**
○Hitoho Yatake (CERES, Inc.)
- P-23 **Phylogenetic background of hibernators in Sciuridae**
○Hiroko Ishiniwa¹, Yasuto Kamata¹, Takashi Ohtsu², Noriaki Kondo³, Tsuneo Sekijima¹
(¹Graduated School of Science and Technology, Niigata Univ., ²Research Institute, Kanagawa Cancer Center, ³Research Institute, Tamagawa Univ.)
- P-24 **Relationship between seed morphology and endozoochore by the rat *Rattus rattus* Complex**
○Tatsuo Yabe (Tropical Rat-Control Committee)
- P-25 **Postpartum estrus and delayed implantation in the large Japanese field mouse *Apodemus speciosus***
○Yusuke Sakai¹ Shinsuke Sakamoto¹ Goro Kato² Tetsuo Morita² Akio Shinohara¹ Chihiro koshimoto¹ (University of Miyazaki, ¹Frontier Science Research Center, ²Faculty of Agriculture)
- P-26 **Age variation in bacula of *Apodemus speciosus***
○Takashi Okumura, Masahiro A. Iwasa (College of Bioresource Sciences, Nihon University)
- P-27 **Evolution of a pair of autosomes fused to the sex chromosomes in *Tokudaia muenniniki***
○Chie Murata¹, Yoko Kuroki², Issei Imoto¹, Fumio Yamada³, Takamichi Jogahara⁴
Katsushi Nakata⁵, Asato Kuroiwa⁶ (¹Inst. Health Biosci., Univ. Tokushima Grad Sch., ²RIKEN, RCAI, ³FFPRI., ⁴Fac. Sci., Okayama Univ. Sci., ⁵Ministry of the Environment, ⁶Fac. Sci., Hokkaido Univ.)
- P-28 **Geographical Variation of the Acclimation Ability to Acorn Tannin in Japanese Wood Mouse (*Apodemus speciosus*) – Did Local Adaptation Occur by the Lack of Acorns? –**
○Ayaka Okamoto¹, Kayoko Izumi¹, Takuya Shimada², Takashi Saitoh³ (¹Graduate School of Environmental Science, Hokkaido Univ., ²Tohoku Research Center, Forestry and Forest Products Research Institute, ³Field Science Center for Northern Biosphere, Hokkaido Univ.)
- P-29 **Sperm competition and male reproductive traits in *Apodemus* species: Using Multiple paternity as the indicator**
○Hiroko Wakabayashi¹, Satoshi Noda, Takashi Saitoh²
(¹Environmental Science, Hokkaido Univ., ²Field Science Center, Hokkaido Univ.)
- P-30 **Genetic structure of three mice species at the *Betula platyphylla* community of the foot in Mt. Norikura, Gifu Prefecture, Japan**
○Tomoyasu Shirako, Yusuke Ishizawa, Kaoru Ueno, Motoyasu Minami
(Graduate school of Bioscience and Biotechnology, Chubu Univ.)
- P-31 **Preliminary notes on identification of Muridae and their food resources using DNA barcoding in Cat Tien National Park, Vietnam**
○Yusuke Ishizawa¹, Tomoyasu Shirako¹, Yui Ajioka², Kaoru Ueno¹, Nguyen Huynh Thuat³, Do Tan Hoa³, Tran Van Thanh³, Masaaki Yamada⁴ and Motoyasu Minami¹ (¹Chubu University, Graduate school of Bioscience and Biotechnology, ²Chubu University, College of Contemporary Education, ³Cat Tien National Park, ⁴Tokyo University of Agriculture and Technology, Institute of Agriculture)

- P-32 **Identification of Muridae food resources using DNA barcoding in Japan**
 ○Hirokazu Kawamoto¹, Tomoyasu Shirako², Yusuke Ishizawa², Kaoru Ueno², Motoyasu Minami² (¹Chubu University, college of Bioscience and Biotechnology, ²Chubu University, Graduate school of Bioscience and Biotechnology)
- P-33 **Phylogeographic history of the small Japanese field mouse, *Apodemus argenteus*, in Hokkaido inferred from mitochondrial and nuclear DNA sequences**
 ○Yutaro Suzuki¹, Morihiko Tomozawa², Yuki Koizumi³, Kimiyuki Tsuchiya⁴, Hitoshi Suzuki¹ (¹Graduate School of Environmental Earth Science, Hokkaido University, ²Department of Biology, Keio University, ³Graduate School of Science, Kyoto University, ⁴Applied Biology Co. Ltd.)
- P-34 **Detection of introgressive hybridization events in northern Japanese wild mice (*Mus musculus*)**
 ○Takashi Kuwayama¹, Mitsuo Nunome², Kazuo Moriwaki³, Hitoshi Suzuki¹ (¹Graduate School of Environmental Earth Science, Hokkaido University, ²Graduate School of Bioagricultural Sciences, Nagoya University, ³RIKEN Tsukuba Institute, BioResource Center)
- P-35 **Nesting habits of harvest mice in gramineous sward**
 ○Reiko Ishiwaka, Yasuhisa Masuda (Kuju Grassland Ecomuseum)
- P-36 **The relation between the nesting position and the predation risk of the harvest mouse *Micromys minutus***
 ○Sayoko Hata¹, Yoshihiro Natuhara² (¹Center for Spatial Information Science, Univ. of Tokyo, ²Graduate School of Environmental Studies, Nagoya Univ.)
- P-37 **Evolutional history of the genus *Lepus* in northeastern Asia and frequent introgression in nDNA and mitochondrial DNA**
 ○Gohta Kinoshita¹, Mitsuo Nunome², Alexey Krykov³, Sang-Hoon Han⁴, Hitoshi Suzuki¹ (¹Graduate School of Environmental Science, Hokkaido University, ²Graduate School of Bioagricultural Science, Nagoya University, ³Russian Academy of Sciences, ⁴Environmental Research Complex,)
- P-38 **Comparative anatomy of *Musculus uropatagialis* of Ryukyu flying fox *Pteropus dasymallus***
 ○Masayuki Kobayashi (Department of Zoology, Graduate School of Science, Okayama Univ. of Science)
- P-39 **The monthly changes of bat species and individuals in different scale caves in Iwate prefecture**
 ○Ryota Sato, Toshiki Aoi (Graduate school of Agriculture, Iwate University)
- P-40 **A newly discovered maternity colony and the winter population of Asian parti-coloured bat in Fujioka City, Gunma Prefecture**
 ○Tatsuya Kasahi¹, Yushi Osawa¹, Keiko Osawa¹, Koo Mineshita¹, Takayori Shimizu, Mitsuru Mukohyama² (¹Bat Study and Conservation group of Japan, ²Association of Bat Conservation)
- P-41 **Analysis of Forest-Dwelling Bats' Community Based on their Roosting Sites and Foraging Habitat Preferences in a Japanese Cool-Temperate Forest**
 ○Satoko Yoshikura (University of Tsukuba)
- P-42 **The biogeography of the lesser tube-nosed bat *Murina ussuriensis***
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○Masayuki Saito¹, Hiroshi Momose², Hiroyuki Matsuda³ (¹Graduate School of Arts and Sciences, Univ. Tokyo, ²National Agricultural Research Center, ³Faculty of Environmental and Information Sciences, Yokohama Nat. Univ.)
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○Mari Kobayashi^{1,3}, Naoko Ooyama³, Takahito Masubuchi¹, Toshihiro Aoki², Ryosuke Ogiwara² (¹Faculty of Bioindustry, Tokyo Univ. of Agriculture, ²ex-Faculty of Bioindustry, Tokyo Univ. of Agriculture, ³Marine Wildlife Center of Japan)
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○Kazuki Murai¹, Kousuke Katakai¹, Zentaro Tamura², Mari Kobayashi^{1,3} (¹Faculty of Bioindustry, Tokyo Univ. of Agriculture, ²Free Researcher, ³Marine Wildlife Center of Japan)
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○Kousuke Katakai¹, Kazuki Murai¹, Zentaro Tamura², Mari Kobayashi^{1,3} (¹Faculty of Bioindustry, Tokyo Univ. of Agriculture, ²Free Researcher, ³Marine Wildlife Center of Japan)
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○Yuta Sakurai¹, Yuko Okamatsu², Masatoshi Tsunokawa³, Mari Kobayashi^{1,4}, Masayuki Saito⁵, Kazuhiro Kimura² (¹Faculty of Bioindustry, Tokyo Univ. of Agriculture, ²Faculty of Veterinary Medicine, Hokkaido Univ., ³Otaru Aquarium, ⁴Marine Wildlife Center of JAPAN, ⁵School of Nursing and Nutrition, Tenshi College)
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○Yayoi Shitamiti¹, Mio Shibuya¹, Yoshinori azumi², Mari Kobayashi^{1,3} (¹Faculty of Bioindustry, Tokyo Univ. of Agriculture, ²ex-Faculty of Bioindustry, Tokyo Univ. of Agriculture, ³Marine Wildlife Center of JAPAN²)
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○Mio Kato¹, Miyuki Ito², Yasuo Kono³, Mari Kobayashi^{1,4} (¹Faculty of Bioindustry, Tokyo Univ. of Agriculture, ²Bakkai Free Researcher, ³Yagishiri Free Researcher, ⁴Marine Wildlife Center of Japan)
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○Satoko Inoue¹, Yoshihiro Fujise², Takeharu Bando², Genta Yasunaga², Toshiya Kishiro³, Hideyoshi Yoshida³, Hidehiro Kato¹ (¹Tokyo University of Marine Science and Technology, ²The Institute of Cetacean Research, ³National Research Institute of Far Seas Fisheries)
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 ○Nao Takahashi¹, Kaoru Hattori², Yoko Goto³, Keiichiro Ohshima⁴, Kazushi Miyashita⁵, Yoko Mitani⁵ (¹Graduate School of Environmental Science, Hokkaido Univ., ²Hokkaido National Fisheries Research Institute, Fisheries Research Agency, ³Wakkanai Fisheries Research Institute, ⁴Institute of Low Temperature Science, Hokkaido Univ., ⁵Field Science Center for Northern Biosphere, Hokkaido Univ.)
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 ○Kaede Toguchi¹, Katsunori Sunagawa², Manabu Onuma³, Katsushi Nakata⁴, Yoshito Goto⁵, Ryoji Fukuhara⁶ (¹Graduate school of agriculture, University of the Ryukyus, ²Faculty of Agriculture, University of the Ryukyus, ³National Institute for Environmental Studies, ⁴Yambaru Wildlife Conservation Center, Ministry of the Environment, ⁵Japan Wildlife Research Center, ⁶Nansei Environmental Laboratory Co., Ltd)
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 ○Takehiko Kamito¹, Shohei Kobayashi¹, Saya Kobayashi¹, Naoyuki Ohara¹, Yuki Mori¹, Hiroko Sakamoto¹, Ayumi Sugawara¹, Yayoi Kaneko² (¹Department of Life Science, International Christian University, ²Faculty of Agriculture, Tokyo Univ. of Agric. and Tech.)
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 ○Hiroaki Ishii¹, Tadasuke Furuya², Yayoi Kaneko³ (¹Grad Sch. of Tokyo Univ. of Agri. and Tech., ²Tokyo Univ. of Marine Sci. and Tech., ³Tokyo Univ. of Agri. and Tech.)
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 ○Mariko Nakai¹, Kunihiro Yamashita², Yuko Fukue³, Tohru Ikeda¹ (¹Hokkaido University Graduate School Letters, ²Karuizawa Dog Behavior, ³NPO Institute for Biodiversity Research and Education “Earthworm”)
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 ○Ken-Ichiro Shimada¹, Tohru Ikeda¹, Eiji Kotani², Ayako Fujimoto² (Research Group of Regional Sciences, Graduate School of Letters, ¹Hokkaido University, ²FARMAGE Co., Ltd)
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 ○Ayaka Ishida¹, Kenichi Takahashi², Kohji Uruguchi², Tatsuo Oshida¹ (¹Laboratory of Wildlife Biology, Obihiro University of Agriculture and Veterinary Medicine, ²Hokkaido Institute of Public Health)
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 ○Kazumi Shionosaki¹, Fumio Yamada², Shigeki Sasaki³, Shozo Shibata¹ (¹Kyoto University Graduate School of Environmental Studies, ²Forestry and Forest Products Research Institute, ³Graduate School of Environment and Information Sciences, Yokohama National Univ.)
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 ○Tsuyoshi Takeshita¹, Tetsuya Watanabe¹, Harada Noriyuki¹, Haketa Yusaku¹, Teruyuki Koyama¹, Kyoko Takeshita² (¹Agriculture & Forestry Division, Komoro City, ²Ihoku animal hospital)
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 ○Manabu Miyazaki¹, Yoshitaka Deguchi², Kawame Mituaki³, Takashi Iwase³ (¹Graduate school of Agriculture, Iwate Univ., ²Faculty of Agriculture, Iwate Univ., ³Morioka Zoological Park)
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 ○Sang-In Kim^{1,2}, Tatsuo Oshida¹, Young-Jun Kim³, Hang Lee², Mi-Sook Min², and Junpei Kimura² (¹Laboratory of Wildlife Biology, Obihiro University of Agriculture and Veterinary Medicine, ²College of Veterinary Medicine, Seoul National University, ³Chungnam Wild Animal Rescue Center)
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 ○Yukihiro Ota¹, Miki Aimoto², Eiji Hosoi³ (¹Faculty of Agriculture, Yamaguchi Univ., ²Agriculture and Forestry General Engineering Center, ³Faculty of Agriculture, Yamaguchi Univ.)

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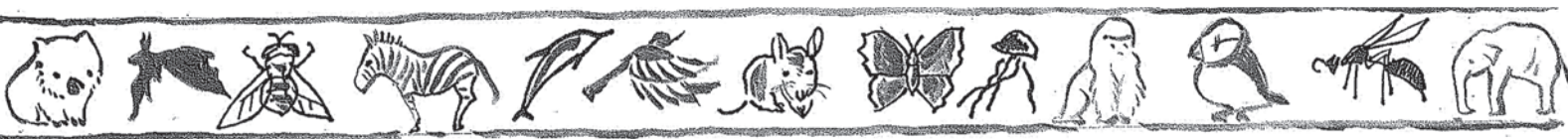
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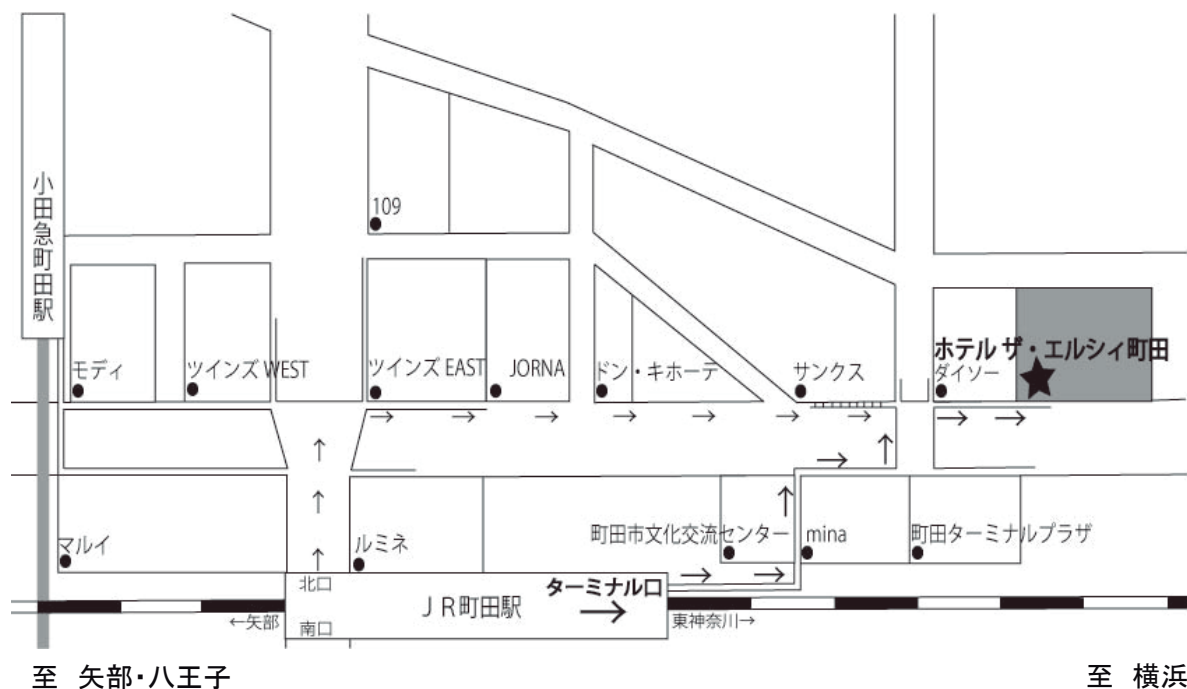
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JR横浜線町田駅下車徒歩5分

(町田駅は矢部駅からJR横浜線で10分)

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