HOKKAIDO UNIVERSITY

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INFORMATION

Hokkaido University conferred the degree of Bachelor of Veterinary Medicine to the following 38 graduates of the School of Veterinary Medicine on March 25, 2015. The titles and the authors of their theses are as follows:

Laboratory of Anatomy, Department of Biomedical Sciences

MRL/MpJ-*lpr/lpr* mice manifest the abnormalities in ovarian function and morphology with the progression of autoimmune disease.
Yuki Ohtani

Analysis of tissue repair process in experimental kidney injury—a characteristic of renal pathology in MRL/MpJ mouse carrying wound-healing phenotype.
Daichi Shiozuru

Laboratory of Physiology, Department of Biomedical Sciences

Studies on low UV plumage reflectance in King penguins (*Aptenodytes patagonicus*), Emperor penguins (*Aptenodytes forsteri*) and White pelicans (*Pelecanus onocrotalus*).
Yuya Kunimasa

Expression and cellular localization of heme oxygenase in rat pancreas.
Sotaro BaBa

Laboratory of Biochemistry, Department of Biomedical Sciences

The role of melanin-concentrating hormone neurons in the regulation of sleep.
Takafumi Ueno

Laboratory of Pharmacology, Department of Biomedical Sciences

Mechanisms of extracellular adenosine accumulation by reduction of external Ca^{2+}.
Ryota Eguchi

Laboratory of Microbiology, Department of Disease Control

Molecular mechanism of regulation of type I interferon production by N^{pro} of classical swine fever virus.
Junki Mine

Mechanism of avian influenza viruses in acquiring binding specificity to human-type receptor.
Rizumu Yanagida

Laboratory of Infectious Diseases, Department of Disease Control

Kinetics and functional analysis of regulatory T cells on bovine chronic infections.
Kosuke Ohira

Characterization of a Cathepsin L-like protein identified in poultry red mites, *Dermanyssus gallinae*, and assessment of its potential as a vaccine antigen.
Ayaka Taniguchi

Kinetic and function analysis of NK cells on bovine leukemia virus-infected cattle.
Ayako Nakahara

Laboratory of Parasitology, Department of Disease Control

Isolation and proteomic analysis of exosomes secreted from promastigotes of *Leishmania* species.
Wataru Katahira

Analysis of salivary gland transcripts of the blood-sucking bug, *Panstrongylus chinai*, a vector of Chagas disease.
Shunsuke Tsunekawa

Functional analysis of Kazal-type serine proteinase inhibitor identified from *Panstrongylus chinai* salivary glands.
Kohei Inoue

Laboratory of Laboratory Animal Science and Medicine, Department of Disease Control

Genetic analysis of acetylcholine sensitivity in the mouse.
Takeo Ichinose

Laboratory of Veterinary Internal Medicine, Department of Veterinary Clinical Sciences

Study on the potency of *Babesia gibsoni* Heat shock protein 90 as a therapeutic target.
Moeko Abe

Quantitative contrast-enhanced ultrasonography: assessment of the duodenum in canine chronic gastrointestinal disorders.
Masayoshi Shinohara

Analysis of Cytokine expression in cerebrospinal fluids from dogs with non-infectious idiopathic meningoencephalitis.
Mayumi Kamada

Laboratory of Veterinary Surgery, Department of Veterinary Clinical Sciences

Sequential extensional mechanical stress influences phenotype and metabolism of cultured equine tenocytes.
Kenichiro Tada

Basic study for Immunological therapy of canine malignant tumors with the human MHC non-restricted cyotoxic T-cell line (TALL-104).
Hiroki Mitani

Establishment of histocompatibility test and chimerism analysis for canine hematopoietic stem cell transplantation.
Shoki Murakami

Laboratory of Comparative Pathology, Department of Veterinary Clinical Sciences

Pathological features of chicken perineurioma and pathogenicity of avian leukosis virus isolated from an affected Japanese native fowl.
Koh Takayama

The effect of rabies virus infection on autophagy *in vitro*.
Tomomi Nakao

Analysis of the human TCL1B-like protein expression in canine hemangiosarcomas.
Momoko Furukawa

Laboratory of Theriogenology, Department of Veterinary Clinical Sciences

The effects of postpartum beet pulp feeding on reproductive performance in Holstein cows.
Tomoyuki Masaki

Ovarian and hormonal dynamics during periovulatory period in Japanese macaque (*Macaca fuscata*).
Masako Minami

Semen collection by urethral catheterization and semen cryopreservation in Hokkaido brown bear (*Ursus arctos yesoensis*).
Yutaro Minohara

Laboratory of Molecular Medicine, Department of Veterinary Clinical Sciences

Different and shared mechanisms in intracellular degradation of several mutants of bovine anion exchanger 1.
Hirona Okuda

Analysis of protein 4.1R in alpaca erythrocyte which contribute to elliptic cell shape.
Mariko Kanamori

Identification of promoter regions and transcriptional factors involved in bovine globin switching.
Kengo Hattori

Laboratory of Public Health, Department of Environmental Veterinary Sciences

Construction and characterization of tick-borne encephalitis viruses expressing reporter gene.
Maho Ikehata

Generation and characterization of the reassortant virus between Hokkaido and Puumala viruses.
Rina Iwasaki

Laboratory of Radiation Biology, Department of Environmental Veterinary Sciences

The role of mitochondrial fission protein Drp1 in radiation-induced cell death.
Satoshi Ike

Radiosensitizing effect by mitochondria-targeted nitroxides in tumor cells.
Eri Nishimura

Laboratory of Toxicology, Department of Environmental Veterinary Sciences

Characterization and inter-species difference of UDP-glucuronosyltransferases in Carnivores including Pinnipedia
Mayu Kakehi

Monitoring metal pollution in semi-wild African livestock and evaluating the usefulness of wild rats to identify Pb pollution sources—To assess the impact of environmental pollution on human health—
Hokuto Nakata

Laboratory of Wildlife Biology and Medicine, Department of Environmental Veterinary Sciences

Changes of body temperature and metabolism related with hibernation in captive Japanese black bears (*Ursus thibetanus japonicas*).
Shingo Suzuki

Food habitat and nutritional condition of brown bears (*Ursus arctos*) in Shiretoko peninsula—Evaluating of nutritional condition by using photo images—
Fumihiko Mori