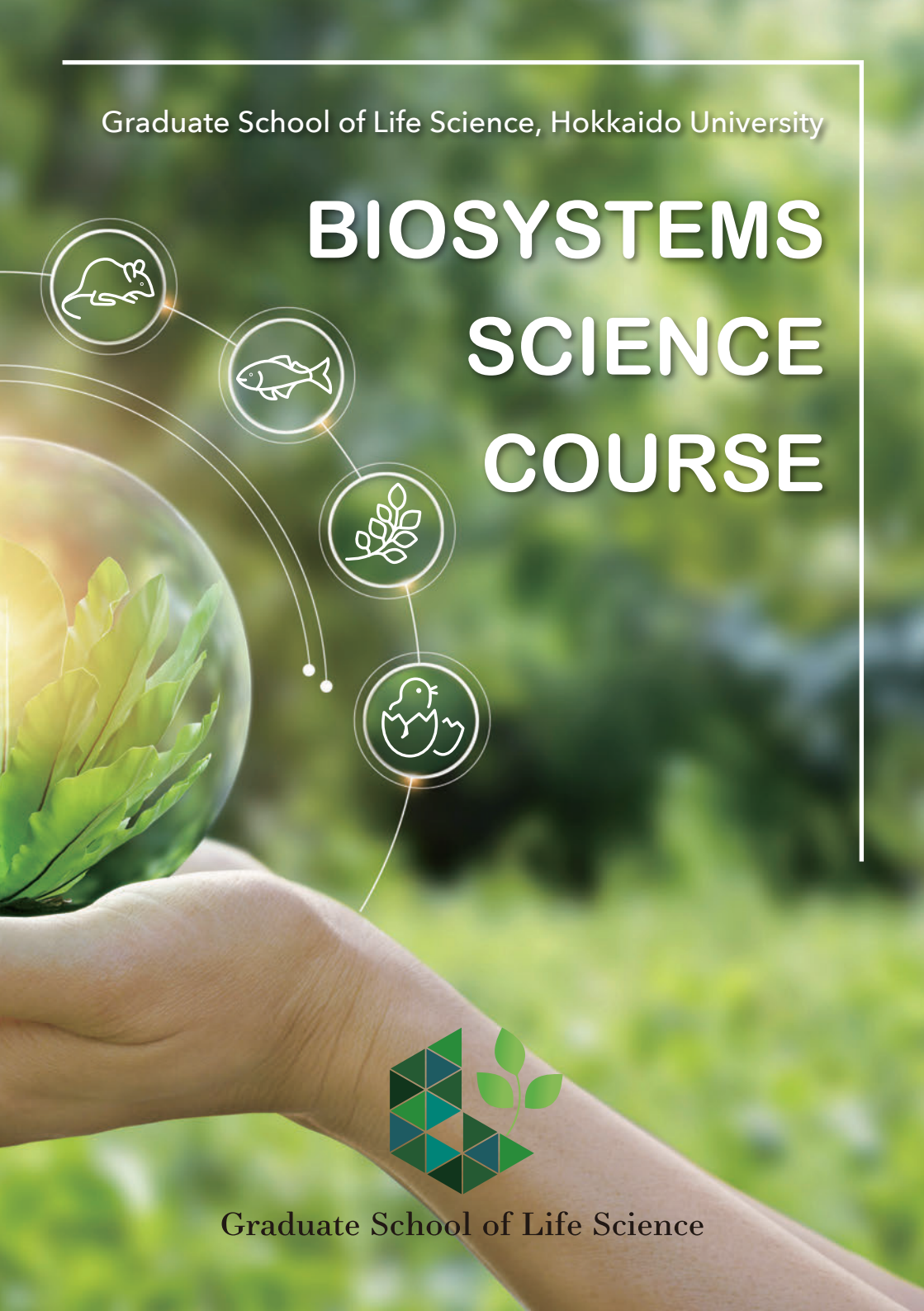
Graduate School of Life Science, Hokkaido University

BIOSYSTEMS SCIENCE COURSE



Graduate School of Life Science

Laboratory Introduction

Laboratory of Molecular Interaction

http://www.igm.hokudai.ac.jp/molint/english.html

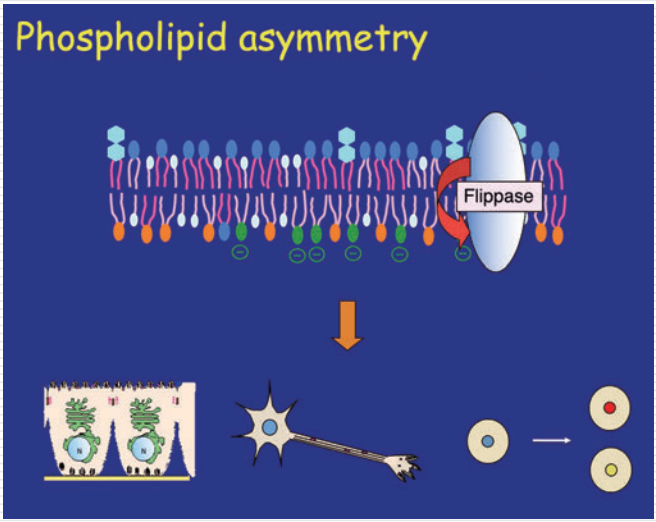
Professor
Kazuma Tanaka
https://researchmap.jp/read0006783

Assistant Professor
Takuma Kishimoto
https://researchmap.jp/kishitaku-76

Assistant Professor
Tetsuo Mioka
https://researchmap.jp/t-mioka?lang=en

Study abstract

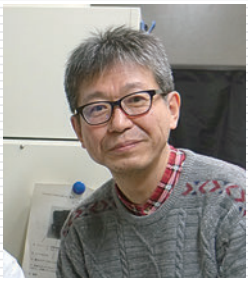
Biomembranes are essential for multiple cellular activities including cell shape, cell polarity, vesicle transport, and organelle functions. In the plasma membrane, phospholipids are asymmetrically distributed across bilayer leaflets. This phospholipid asymmetry is conserved from yeast to mammalian cells. Flippases are type 4 P-type ATPases that play an essential role in generating phospholipid asymmetry. The aim of our laboratory is to elucidate the physiological significance of phospholipid asymmetry by using yeast as a model organism.



Keywords lipid asymmetry, flippase, cell polarity, vesicle transport, molecular cellular biology, molecular genetics, yeast

Laboratory of Plant Evolutionary and Developmental Biology

http://www.sci.hokudai.ac.jp/PlantSUGOIne_en/



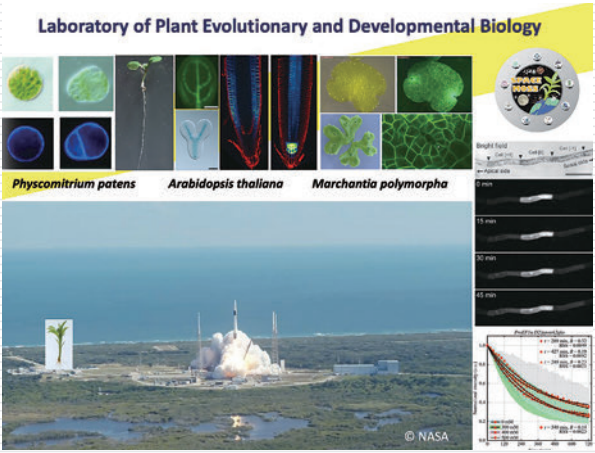
Professor
Tomomichi Fujita
https://researchmap.jp/read0096750?lang=en

Assistant Professor
Teh Ooi Kock
https://researchmap.jp/okteh?lang=en

Assistant Professor
Satoshi Naramoto
https://researchmap.jp/7000017796/?lang=en

Study abstract

We use plants to investigate molecular mechanisms of their development, environmental resistance and evolution. We aim to unlock the secrets of plant cells and to understand how plants control their growth, differentiation and adaptation from an evolutionary view point. To this end, we use basal land plants such as Physcomitrium patens (a moss), Marchantia polymorpha (a liverwort), and Arabidopsis thaliana (a flowering plant) as our model plants. Our research topics are as follows: 1) To unveil molecular mechanisms of cell proliferation, differentiation, regeneration and totipotency in plant cells. 2) To uncover the crosstalk between environmental responses and developmental programs – then, aiming to develop plants that grow well even in extreme environments. 3) To understand the evolutionary road map of multicellulalization in land plants. 4) To understand how plants can grow or adapt even under extrem environmental conditions such as in the outerspace.



Keywords

abiotic stress, abscisic acid, Arabidopsis thaliana, asymmetric cell division, auxin, bryophytes, cell-cell communication, cell cycle regulation, cell fate determination, cell polarity, cell proliferation, chloroplast division, differentiation, eco-evo-devo, hypergravity, JAXA, marchantia polymorpha, membrane trafficking, mirogravity, molecular & cell biology, multicellularity, organelle size determination, photosynthesis, physcomitrium patens, plant stem cell, plasmodesmata, polar auxin transport, polarotropic response, signaling, space biology, "Space Moss", stress adaptation, symmetry breaking

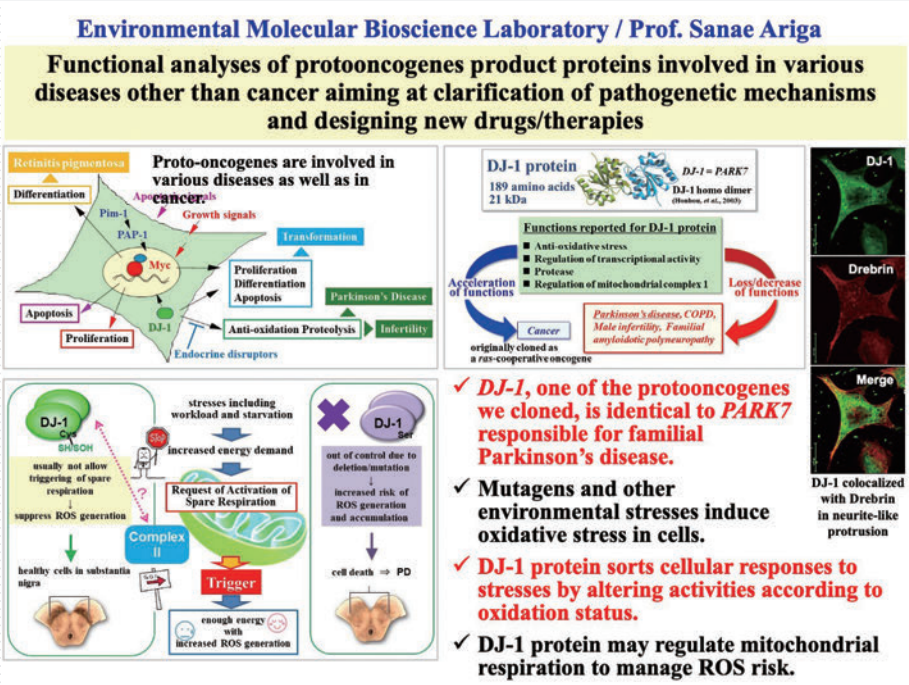
Laboratory of Environmental Molecular Bioscience

https://www.agr.hokudai.ac.jp/en/r/lab/environmental-molecular-bioscience

Study abstract

The systems controling the switching of cellular states among proliferation, differentiation and regulated death can be affected by various environmental stress factors including carcinogens as well as reactive oxygen species induced by stress factors. We focus on the functional analyses of protooncogen products that are also involved in diseases other than cancer.

Professor
Sanae Ariga
https://researchmap.jp/SanaeAriga_Hokudai?lang=en



Keywords cell proliferation/differentiation/transformation/regulated death, biochemistry, molecular biology, cell biology, higher animals, protooncogenes, oxidative stress, neurodegenerative diseases, signal response

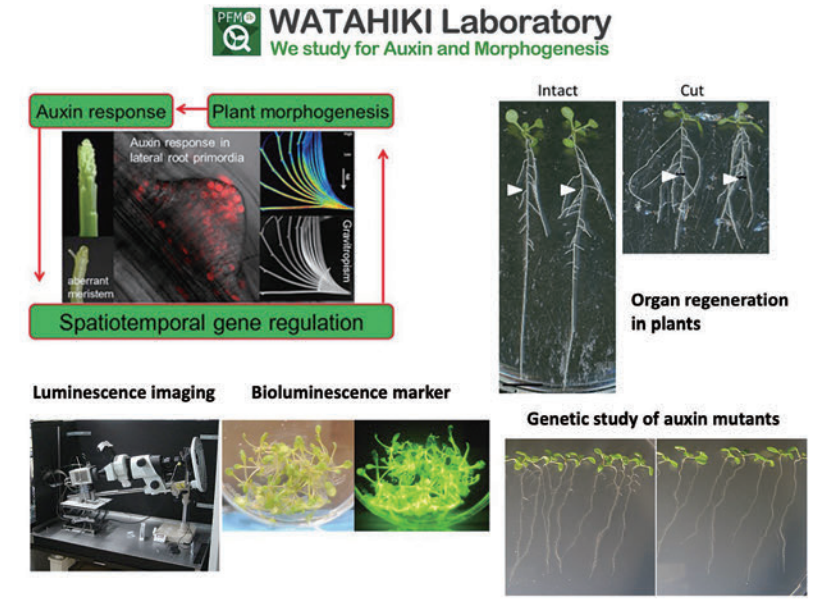
Laboratory of Plant Morphology and Gene Function

http://www.sci.hokudai.ac.jp/watahiki/mkwhp/index.html

Associate Professor
Masaaki K. Watahiki
https://researchmap.jp/watahiki

Study abstract

Plants are commonly considered as inanimate and “still life” objects, however, we are simply limited in our abilities to directly sense their movement in our temporal sense. Upon close inspection with time-lapsed photography, it becomes evident that plants are very animated as revealed by their dynamic movements and developments. The plant hormone “Auxin” has a central functional role in plant morphogenesis. The main focus of this laboratory pertains to the study of “Early-Auxin Inducible Genes” and to investigate the functional roles of auxin in the synthesis of new organs (Organogenesis). We primarily utilize Arabidopsis as a functional model system for both forward and reverse genetics. In addition, we also use both potato and carrot as additional models.



Keywords Auxin, feedback regulation, gene expression, molecular biology, plant physiology, genetics, plants, Arabidopsis, carrot, potato

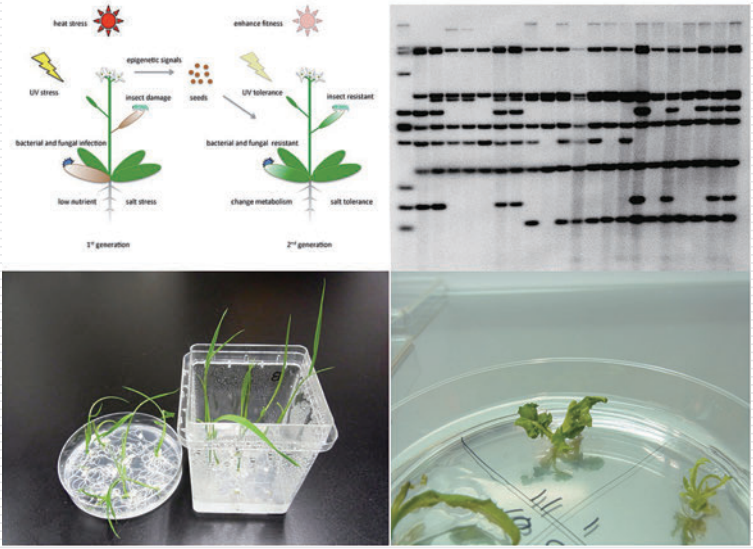
Laboratory of Cell function and Structure III

http://www.sci.hokudai.ac.jp/Cellfunction_Structure3/english/index/

Study abstract

Gene expressions and transposon activations are affected by environmental stress. In nature, high copy numbers of transposons are conserved in many species. This may imply that transposons have been activated by environmental stress and changed the genome structure of a host genome. Sometimes the mutation promotes genome evolution and gene diversity that can adapt in a new environment. We study the effects of environmental stress in plants. We focus on the regulatory mechanisms of stress-activated transposons and analyze the relationships between the transposons and the host genome. Most of the transposons are silenced because of their methylated DNA and histone modifications. However, under specific conditions, transposons can be activated and transposed. Our interest is to understand how environment affects transposon activation in nature.

Associate Professor
Hidetaka Ito
https://researchmap.jp/read0150035?lang=en



Keywords environmental adaptation, transposon, plant molecular genetics, epigenetics, plant breeding, environmental stress, evolution

Laboratory of Cell Structure and Function – (Sato and Takagi Lab)

https://www.sci.hokudai.ac.jp/CSF2-web/

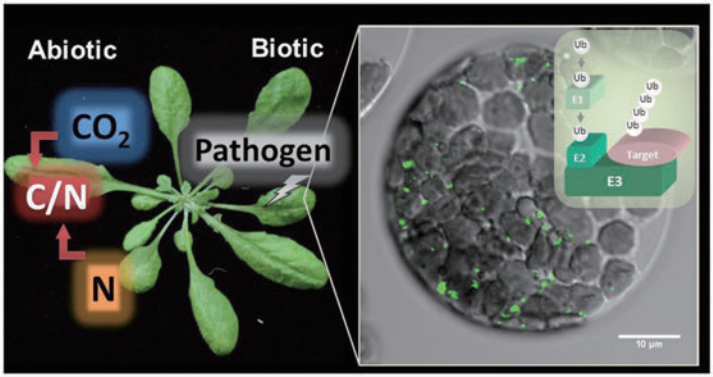
Associate Professor
Takeo Sato
https://researchmap.jp/takeohp

Assistant Professor
Junpei Takagi
https://researchmap.jp/7000009908?lang=en

Study abstract

The ability to sense and respond to environmental stimuli is critical for the growth of all living organisms. Plants have developed sophisticated mechanisms to robustly monitor and appropriately respond to the dynamic changes of environment stresses due to their immobility. The main focus of our laboratory is to reveal the molecular mechanism of excellent environmental adaptation of plants. We are especially focusing on adaptation strategies against “nutrient stress” and “pathogen attack (plant immunity)”, which have a great impact on plant growth and productivity. In addition to physiological analyses, we also perform genetics, cell biology and biochemical analyses to elucidate the function of key signaling proteins and metabolic enzymes.

Molecular mechanisms regulating plant adaptation to environmental stresses



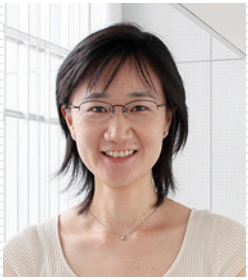
Keywords environmental adaptation, nutrient stress responses, molecular biology, plant science, membrane trafficking, ubiquitin signals, kinase, metabolism, plant immunity, organelle, proteomics, live cell imaging

Laboratory of Cell Structure and Function – (Chiba Lab)

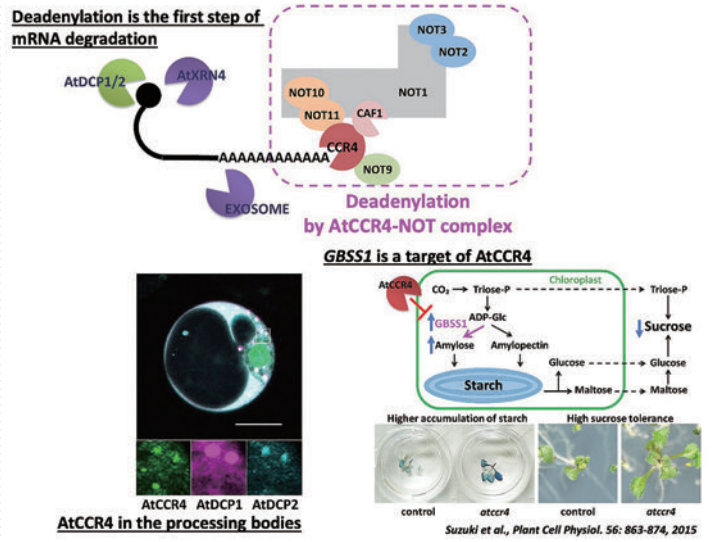
https://www.sci.hokudai.ac.jp/~yukako/en/index.html

Study abstract

Research in gene expression control has been conducted using various species. Initially studies in the field are on the aspects of transcriptional control but in recent decades, focus has now expanded to post-transcriptional control such as discovery of functional RNA molecules which include ribozymes, riboswitches, and small RNAs. In addition, researches on gene expression control has now changed from analyzing individual control step to clarify how the control of each step is coordinated. Due to their sessile lifestyle, plants must respond quickly when being challenged by various environmental stresses in order to survive in unfavorable environments. We want to clarify how gene expression control, particularly post-transcriptional control, is related to the environmental responses in plants, and how multiple control steps are coordinated at the molecular level.



Associate Professor
Yukako Chiba
https://researchmap.jp/ykiki?lang=en



Keywords stress response, regulation of gene expression, mRNA degradation, translational regulation , AtCCR4-NOT complex, Arabidopsis, molecular biology

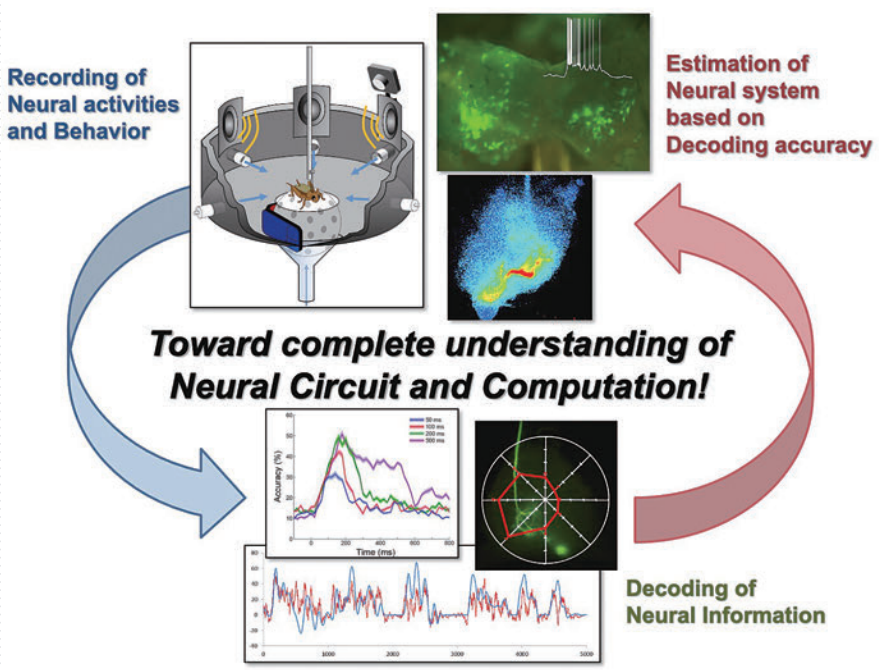
Laboratory of System Neurobiology

https://www.sci.hokudai.ac.jp/~hogawa/English/index.html

Professor
Hiroto Ogawa
https://researchmap.jp/hogawa?lang=en

Study abstract

When animals receive sensory stimuli from environment, they perform appropriate behaviors via sensory perception and motor planning that is mediated by their central nervous system. By using a combination of behavioral analyses, electrophysiology, optical imaging and mathematical approaches, we study the neural basis underlying wind-elicited behavior in the cricket model system. The ultimate goal of our research is to generate a complete understanding of whole neural circuits and information processing from sensory inputs to motor output in specific behaviors.



Keywords insects, brain, nervous system, neuron, neurophysiology, imaging

Laboratory of Behavior and Neurobiology - (Mizunami Lab)

https://www.sci.hokudai.ac.jp/~mizunami/MICROB~2/e-index.html

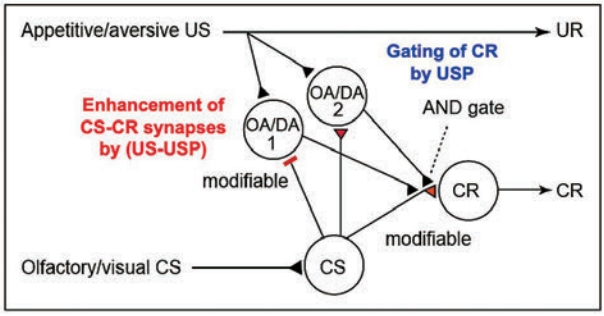
Study abstract

We study the functional organizations of insect “microbrains” to clarify common principles and diversities of brain mechanisms among insects and mammals. By studying their molecular, neural, and systems mechanisms, our research has demonstrated that crickets and cockroaches possess excellent learning capabilities.

Professor
Makoto Mizunami
https://researchmap.jp/mizunami?lang=en

Our research topic

We are investigating the roles of the octopaminergic (OA) neurons and dopaminergic (DA) neurons in Pavlovian conditioning of crickets, as a model to clarify general principles, diversity and evolution of associative learning systems in animals.



A neural circuit model of Pavlovian conditioning, assuming the circuits of the mushroom body of the brain. Two types of OA/DA neurons are assumed: Type 1 conveys reward/punishment prediction error signals for conditioning and Type 2 conveys prediction signals (USP) for execution of conditioned responses. This arrangement is comparable to that of midbrain DA systems in mammals.
See Mizunami *et al.*, *Proc. R. Soc. B.* 286: 20182132 (2019) and related papers.

Keywords brain, learning, olfaction, crickets, cockroaches, fruit flies, Drosophila

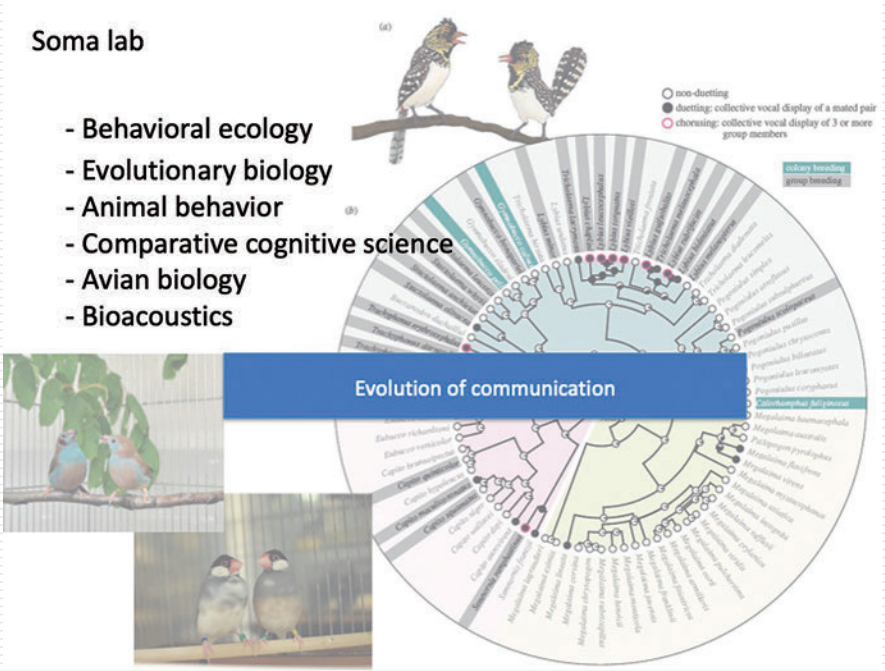
Laboratory of Behavior and Neurobiology - (Soma Lab)

https://www2.sci.hokudai.ac.jp/dept/bio/en/teacher/soma-masayo

Associate Professor
Masayo Soma
https://researchmap.jp/soma?lang=en

Study abstract

Our research incorporates both mechanistic and functional approaches to address the question why living things show such a great diversity in behaviors and their underlying cognitive functions. We focus primarily on the functional aspects of these behaviors by investigating the behavioral ecology of passerine birds (mainly Estrildid finches) with a particular interest in social communication; including courtships and parent-offspring interactions, reproduction, development and life history.



Keywords songbird, social behavior, development, learning, courtship, cognition, ethology, behavioral ecology

Laboratory of Molecular Neuroethology Laboratory (Wada & Patzke Lab)

(Wada group)https://www.wada-lab.org/english-version/ (Patzke group) https://patzkelab.org/

Associate Professor

Kazuhiro Wada

https://researchmap.jp/kazuhirowada?lang=en

Assistant Professor

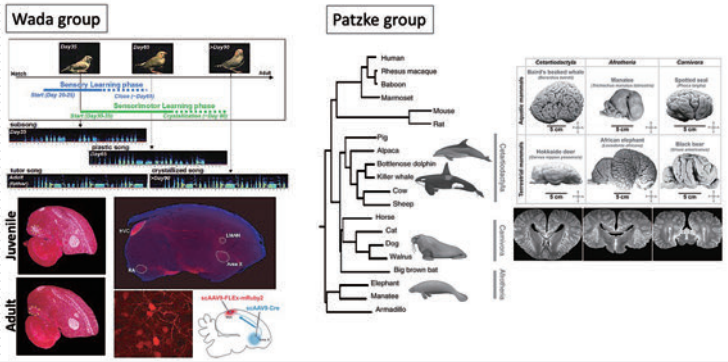
Nina Patzke

https://researchmap.jp/ninapatzke?lang=en

Study abstract

(Wada group) Animal behavior is influenced by both environmental and genetic factors. However, much remains to be learned regarding how and when the environmental and genetic factors act and how developing behavior itself affects the molecular basis in the neuronal substitute. The primary focus of our laboratory is to elucidate these questions by using songbirds as an animal model for vocal learning and to identify its critical period at molecular and genetic levels.

(Patzke group) The main research question of our laboratory is: How did the mammalian brain evolve? Explicitly we want to determine the strength of environmental influence on the evolution of the mammalian brain, by investigating aquatic mammals, (whale and pinnipeds), in comparison to the closes land living relatives (even toed ungulates and carnivores). Especially we are interested in, if and how an aquatic lifestyle leads to predictable changes in the morphology of the mammalian brain.



Keywords

(Wada group) animal behavior, gene expression, learning and memory, individual difference, songbird, communication, epigenetics

(Patzke group) Brain, evolution, comparative neuroanatomy, marine mammals, whales, seals, MRI, immunohistochemistry.

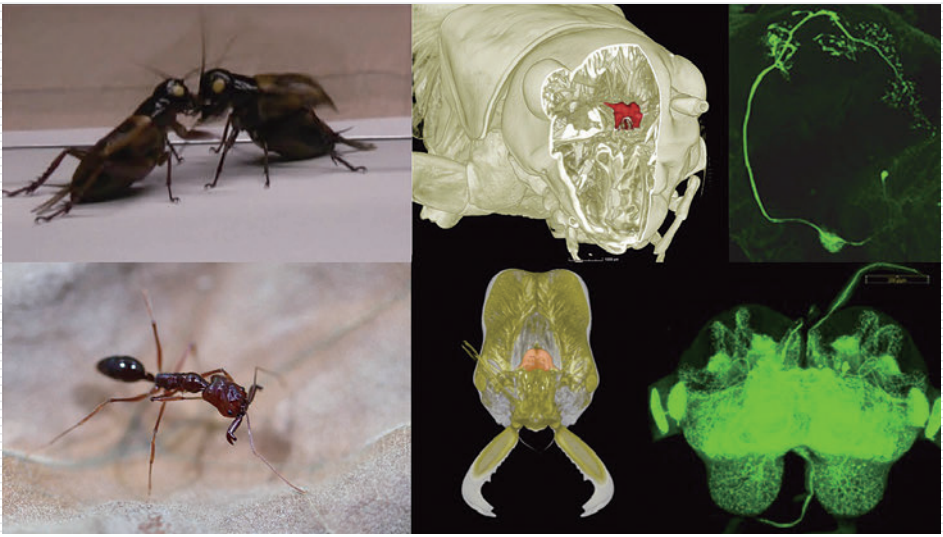
Laboratory of Neurocybernetics

http://ncmac2.es.hokudai.ac.jp/english/

Associate Professor
Hitoshi Aonuma
https://researchmap.jp/read0073962?lang=en

Study abstract

The aim of our research is to elucidate the neuronal mechanism underlying real-time adaptability in animal behavior. To gain a better understanding of the mechanisms, we have focused on aggressive behavior and locomotion behavior in invertebrate animals in particular insects. Aggression and locomotion are common behaviors in virtual animals and can be the experimental models to investigate the neuronal mechanisms underlying adaptive behaviors. Since insects possess rather simple and identical nervous systems, they provide us with an ideal model system to effectively investigate the neuronal mechanisms of adaptive behavior.



Keywords neuroethology, mobiligence, neurogenetics, modelling, simulation, robotics

Laboratory of Neurobiology (Tanaka & Nishino Lab)

https://www.sci.hokudai.ac.jp/grp/tanaka/lab/index.html

http://www.es.hokudai.ac.jp/labo/nishino/research_english.html

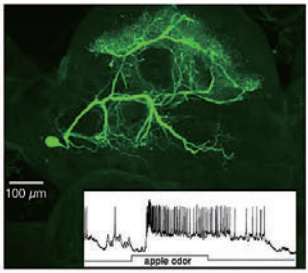
Associate Professor
Nobuaki Tanaka
https://researchmap.jp/nktanaka?lang=en

Assistant Professor
Hiroshi Nishino
https://researchmap.jp/read0118403

Study abstract

(Tanaka group) Our goal is to reveal how neuronal circuits work as a system to process sensory inputs, and how this processing is modulated by a specific environment or by the mental state or the condition of the body. The answers to these questions would reveal how an animal displays adaptive behavior in response to a given situation that changes every moment, or even develops intelligent behavior to cope with a difficult situation. To study these problems in our laboratory, we are utilizing two invertebrate animals, the fly and the cephalopod.

(Nishino group) The aim of our research is to elucidate neuronal mechanisms underlying sensory processing of five senses in pest insects with the use of fine neuroanatomy and physiologies. We also promote implementation of species-specific sensory processing to environment-friendly pest control. The primary model organisms are cockroaches in the genus Periplaneta, though various insects such as termites, crickets, tree weta, beetles, stink bugs, cicadas, honey bees, moths, ants have been used.



Keywords

(Tanaka group) Drosophila melanogaster, cephalopod, pygmy squid, sensory processing, neurophysiology, neuroanatomy, genetics, behavioral studies

(Nishino group) pest insects, IPM, biomimetics, pheromone and odor processing, neurophysiology (intracellular and extracellular recording), neuroanatomy (vital neuronal staining), behavioral analysis, TEM

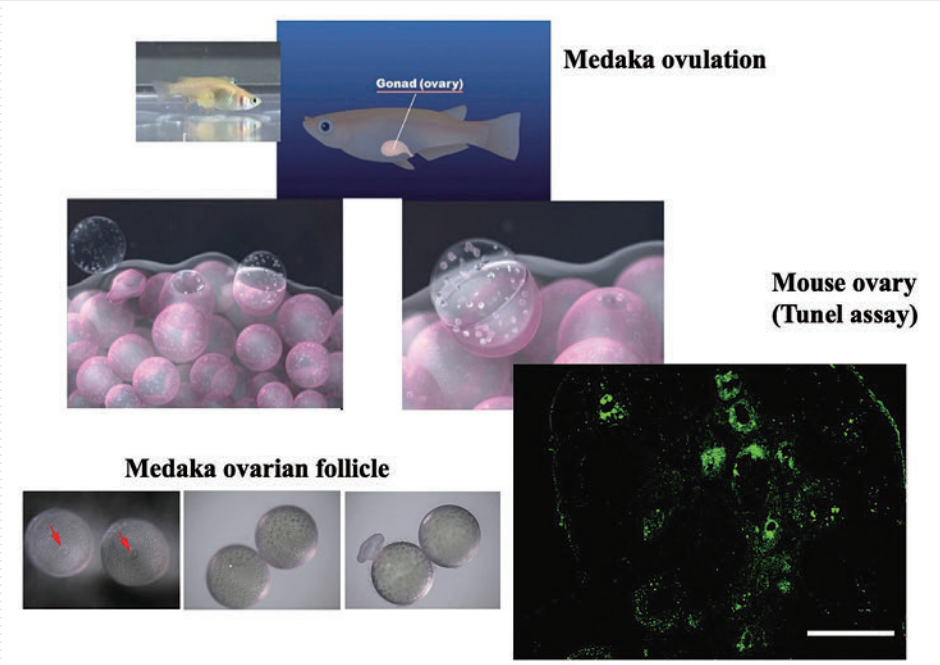
Laboratory of Reproductive and Developmental Biology - (Ogiwara Lab)

https://www.sci.hokudai.ac.jp/~kogi/Reproductive2/Welcome.html

Associate Professor
Katsueki Ogiwara
https://researchmap.jp/kogi?lang=en

Study abstract

Our laboratory is primarily interested in understanding the functional roles of vertebrate reproductive organs, especially ovary at molecular levels. Our research particularly focuses on the following themes by using mice and medaka fish: (1) Identification of ovulatory enzymes in mammals. (2) Studies on the mechanism of tissue repair after medaka ovulation. (3) Does follicle cells communicate with oocytes during ovulatory period? (4) Studies on the regulatory mechanism in medaka ovulation. (5) Study on the molecular mechanisms of mouse follicle selection.



Keywords follicle selection, ovulation, tissue repair

Laboratory of Reproductive and Developmental Biology - (Katsu Lab)

https://www.repdev-katsu.jp/index.html

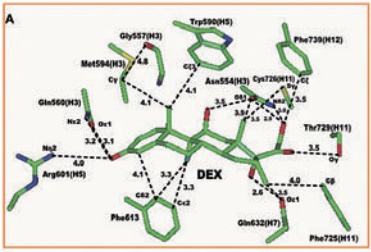
Study abstract

Steroid hormones regulate physiological responses in vertebrates by binding to the nuclear receptors (NR), a ligand-activated transcription factor. We study the evolution of vertebrate NRs, especially sterpid hormone receptors and investigate how steroid hormones act in many vertebrates.

Professor
Yoshinao Katsu
https://researchmap.jp/read0096782?lang=en

Lungfish

Elephant shark



3D structure of human glucocorticoid receptor

Polypterus

Keywords endocrinology, steroid hormone, nuclear receptor, endocrine disruptor

Laboratory of Reproductive and Developmental Biology - (Kuroiwa, Yoshida & Mizushima Lab)

https://sites.google.com/view/kuroiwalabhp/home

Professor

Asato Kuroiwa

https://researchmap.jp/read0067267/?lang=en

Assistant Professor

Ikuya Yoshida

https://researchmap.jp/ikkXina

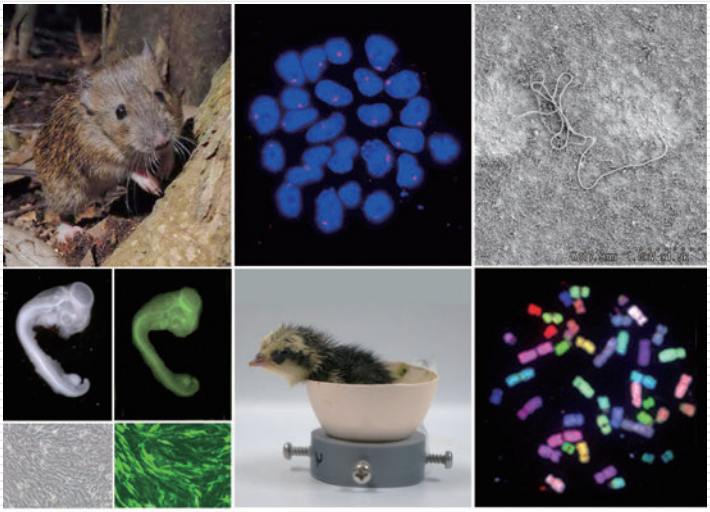
Assistant Professor

Shusei Mizushima

https://researchmap.jp/read0141228

Study abstract

We are interested in the studies of sex determination, regulation of chromatin, fertilization in both birds and mammals. We perform functional analysis of various genes of domestic birds such as chicken, quail and emu by using transgenic, genome editing or biotechnological methods. We also aim to identify novel sex determination genes in order to reveal the process of Y-loss in the Tokudaia genus which lacks Y chromosomes.



Keywords sex determination, heterochromatin, EC cell, gene, Y chromosome, bird, mammal, reproductive developmental biology, molecular biology

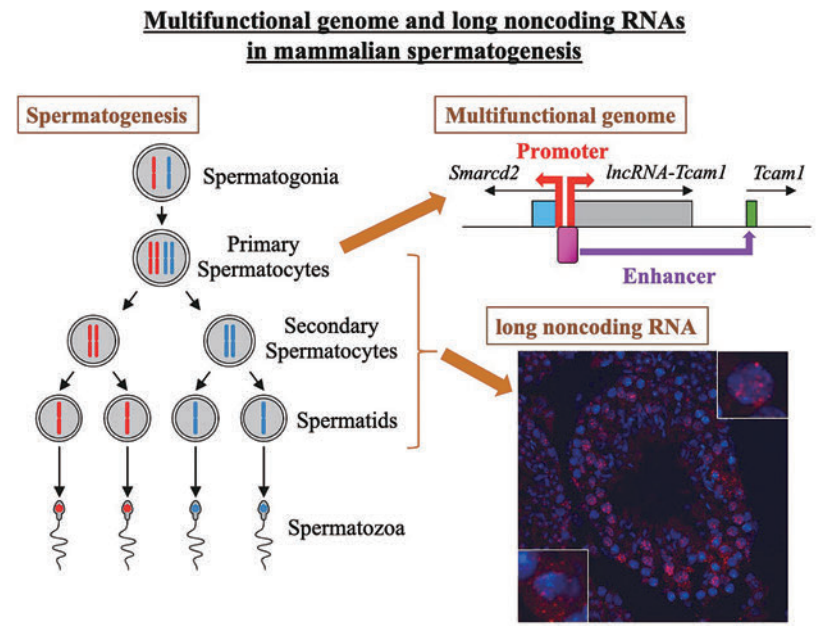
Laboratory of Reproductive and Developmental Biology - (Kimura Lab)

https://www.sci.hokudai.ac.jp/~akimura/Molecular/Welcome.APK.html

Study abstract

The function of genome sequences is not fully understood even though the genome sequences have been decoded in many species. We focus on the function of mammalian genome sequences in spermatogenesis/oogenesis and investigate multifunctional genome elements and long noncoding RNAs in mouse/human testis and ovary. Our goal is to elucidate the physiological significance and molecular mechanism of genome sequences in reproduction by looking at the functions of genes and noncoding RNAs in the mammalian ovary, testis, and placenta. We also focus on elucidating the molecular mechanism in spermatogenesis and placental differentiation.

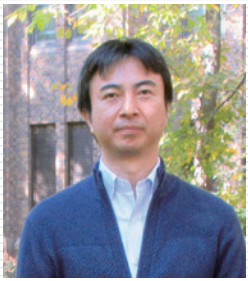
Associate Professor
Atsushi P. Kimura
https://researchmap.jp/apkimura?lang=en



Keywords molecular biology, reproductive biology, gene regulation, transcription, epigenetics, long noncoding RNA, multifunctional genome, dual promoter-enhancer, spermatogenesis, ovary, placenta, protease

Laboratory of Reproductive and Developmental Biology - (Kotani Lab)

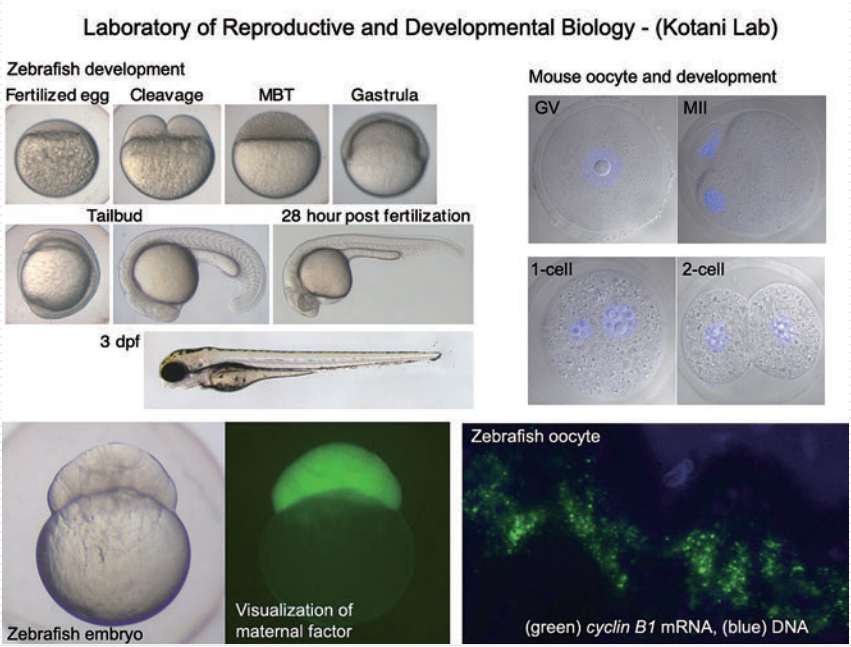
http://rep-dev.s2.weblife.me/index.html



Associate Professor
Tomoya Kotani
https://researchmap.jp/read0074110?lang=en

Study abstract

The fate of a multicellular organism begins with a single cell fertilized egg that subsequently undergoes differentiation and morphogenesis to become an embryo. All cellular functions and patterning decisions that occur prior to the activation of the zygotic genome depend on maternal factors deposited in the egg during oogenesis, which become active after fertilization. By using zebrafish and mouse as model systems, we investigate the deposition of maternal factors in oocytes that promote developmental processes. Our aim is to identify novel mechanisms of oogenesis and developmental processes by isolating and analyzing maternal factors.



Keywords vertebrate, oocyte, egg, early development, maternal factor, cell biology, molecular biology, molecular genetic

Laboratory of Animal Genetics

https://sites.google.com/site/kitadalab/

Study abstract

Completion of the genome sequence project and development of next-generation sequencing technique have dramatically changed the design of research strategy in biomedical science. However, functions of all genes in the whole genome are still not well understood even by now. We are elucidating the functions of disease-related genes by using gene-manipulated rats and mice generated in our laboratory.

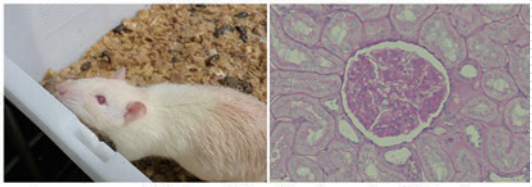
Associate Professor

Kazuhiro Kitada

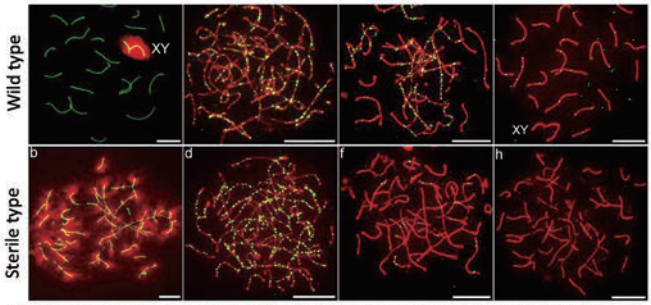
https://researchmap.jp/read0200146?lang=en

Kitada Lab

Generation of genetically modified mice by microinjection.



A spontaneous diabetic rat (left) and its glomerulus of kidney that developed nephropathy (right).



Chromosome pairing in spermatocytes of wild rats (upper) and sterile mutant rats (lower) during meiosis.

Keywords animal models for human diseases, gene manipulation, rat, mouse

TUITION FEES

	Undergraduate Students	Postgraduate Students	Research Students	Auditing Students
Tuition Fee	¥535,800 (per year)	¥535,800 (per year)	¥29,700 (per month)	¥14,800 (1 credit)
Entrance Fee	¥282,000	¥282,000	¥84,600	¥28,200
Examination Fee	¥17,000	¥30,000	¥9,800	¥9,800

① At Hokkaido University, tuition is paid in two installments : May and November.

② Should tuition fees be revised during a student's period of enrollment, the new amount will become effective from that point on.

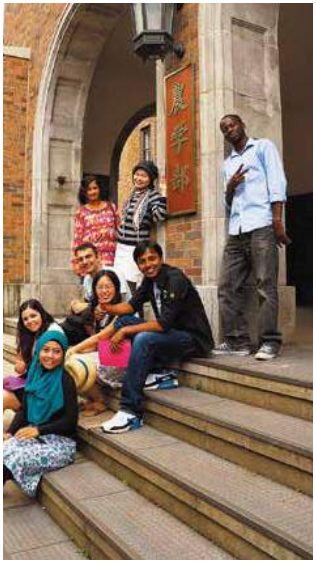
③ Students who fail to pay tuition fees for one term will not be allowed to continue.

④ Students enrolled in regular (degree-seeking) undergraduate and graduate courses who experience financial difficulty while maintaining excellent academic records may apply to receive a 100%, 50% or 25% tuition fee reduction.

⑤ Tuition Fees must be paid in yen.

Q **How easy is it to obtain a tuition fee waiver if I'm having financial difficulties?**

A **In 2019, 97.4% of first semester applicants and 97.1% of second semester were successful in obtaining a tuition fee waiver of either 100%, 50% or 25%.**



COST OF LIVING

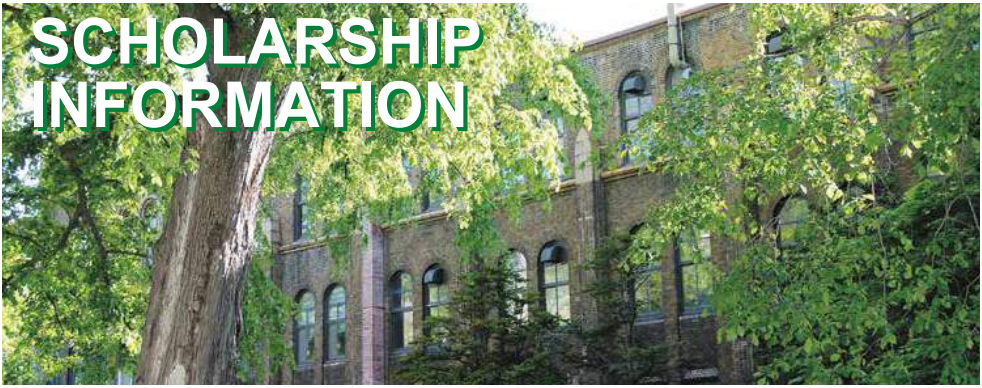
How much money will I need?

Sapporo provides an excellent quality of life and a cost of living more reasonable compared with other major cities in Japan. Your budget will depend on the lifestyle you choose to lead (eating in restaurants or cooking at home, living in private accommodation or in University dormitories). Generally with tuition costs included, you should budget for ¥1,500,000 per year ($13,514 USD).

Budget For ¥80,000~115,000 per month

Housing ¥35,000~45,000	**Food** ¥20,000~35,000
Books ¥10,000~15,000	**Misc** ¥15,000~20,000

*The above are estimated costs and should be used as a guide only.



SCHOLARSHIP INFORMATION

Japanese Government

Japanese Government (Monbukagakusho) Scholarship

There are three methods to secure a "Monbukagakusho Scholarship":

① One method to apply for a scholarship is to receive a recommendation to MEXT from the Japanese Embassy or Consular Office in your country To receive a recommendation, you need to pass a primary screening conducted by the local embassy with cooperation from your country's government. For more details, enquire at your local Japanese Embassy or Consular Office.

② Students coming to Hokkaido University can also apply through our University. Application is made through your prospective advisor. For details, visit our website.

③ Domestic Selection* : This category targets self-supported students currently studying in Japan.
*Japanese Goverment will not offer scholarships in this category in 2020.

Hokkaido University (pre-enrollment application)

Hokkaido University President's Fellowship

This scholarship is for prospective international students seeking master's or doctoral degrees and targeted toward those students who have excellent academic record as well as a strong interest in Hokkaido University and Japanese culture. Students must be current or alumni students of universities that have concluded Inter-University Exchange Agreements and a Memorandum of Understanding on Student Exchange with Hokkaido University.

Special Grant Program for Self-Supported International Students

This program is for prospective international students seeking doctoral degrees or the international students selected for the "Program for Leading Graduate Schools". To obtain this special grant, applicants must have excellent academic records and be able to prove how their research can contribute internationally in their chosen field. International students selected for this program are hired as Research Assistants or receive a stipend and tuition fees are waived.

Hokkaido University Frontier Fund Clark Scholarship

This scholarship is financed by donation, and for self-supported international students seeking doctoral degrees who have excellent academic record and need financial assistance. Please refer to the English website (https://www.global.hokudai.ac.jp) for more detailed information.

Private

Although highly competitive, there are a variety of scholarships that students can apply for after arriving in Japan.
Please refer to the English website (https://www.global.hokudai.ac.jp)

Others

JASSO (Japan Student Service Organization)

This scholarship is open to undergraduate students (¥48,000 monthly) taking the Examination for Japanese University Admission for International Students (EJU) or graduate students (¥48,000 monthly) who intend to enrol in a school that offers pre-arrival admission.

For a full list of private scholarship available, please visit: 💻https://www.jasso.go.jp/ryugaku/study_j/scholarships/shoureihi/yoyakuseido/

JICA

There are a veriety JICA projects that students can apply.
Please refer to the Website of JICA (https://www.jica.go.jp/)

STUDENT LIFE

At Hokkaido University, there is more to student life than just lectures and tutorials. An abundance of opportunities await international students to become part of the many activities available on campus. There are approximately 50 cultural clubs and approximately 60 athletic clubs at Hokkaido University. If you wish to know Japan and get better acquainted with Japanese students, participation in club activities will prove to be extremely rewarding. The Student Support Division offers many kinds of cross-cultural events and cultural exchange opportunities which are open to international students, international researchers, their families, Japanese students, and University staff. Come by the Student Communication Station to find upcoming events on the message board or in the HU International Student Newsletter.

● art ● jazz ● judo ● rugby ● skate ● dance ● chorus ● boating ● jogging ● archery ● curling ● boxing ● rakugo ● cycling ● yachting ● handball ● canoeing ● volleyball ● basketball ● swimming ● gymnastics ● field hockey ● orienteering ● cheerleading ● film making ● photography ● horseback riding ● mountaineering ● ski and snowboard

CLIMATE IN SAPPORO CITY

*average daily temperatures

April	May	June	July	August	September
(7℃/45℉)	(12℃/54℉)	(17℃/63℉)	(21℃/70℉)	(22℃/72℉)	(18℃/65℉)

SPRING Pleasant temperatures with an abundance of colors

SUMMER Warm days full of sunshine with temperate mornings and evenings

ABOUT HOKKAIDO

Hokkaido is the northernmost region of Japan, consisting of one large island and 509 surrounding islands. Dotting the center of the main island are mountain ranges and impressive volcanoes surrounded by sweeping coastal plains. The islands' total land mass is 83,000km² which makes up 22% of the total land mass of Japan. Sapporo is known for its amazing food, unique history, natural beauty, and cosmopolitan character. With its fashionable restaurants, cafe culture, and relaxed atmosphere, it's often rated as one of the most desirable places to live in Japan. Sapporo offers a high quality lifestyle with its perfect blend of bustling city life and the natural peace of the great outdoors.

October	November	December	January	February	March
(12℃/54℉)	(5℃/41℉)	(-1℃/30℉)	(-4℃/25℉)	(-3℃/27℉)	(1℃/34℉)

AUTUMN All the beautiful colors of Autumn

WINTER Refreshing and invigorating days with sun and powdery snow

12 Research and Education Center for Brain Science
13 Institute for Genetic Medicine
14 Central Institute of Isotope Science
15 Frontier Research in Applied Sciences Bldg.
16 Environmental Preservation Center
17 Center for Language Learning
18 Center for Advanced Tourism Studies
19 The Open University of Japan; Hokkaido Study Center
20 Health Care Center

Research Institutes / Centers (North Campus Area)

1 Creative Research Institution (CRIS)
2 Center for Innovation and Business Promotion, Institute for the Promotion of Business-Regional Collaboration
3 Hokkaido Collaboration Center
4 Center for Food & Medical Innovataion, Institute for the Promotion of Business-Regional Collaboration
5 Shionogi Innovation Center for Drug Discovery
6 Platform for Research on Biofunctional Molecules (PRBM)
7 Frontier Research Center for Post-Genome Science and Technology
8 Arctic Research Center
9 Catalysis Research Center
10 Research Institute for Electronic Science
11 Green Nanotechnology Research Center
12 Research Center for Zoonosis Control
13 Institute of Low Temperature Science
14 Veterinary Teaching Hospital

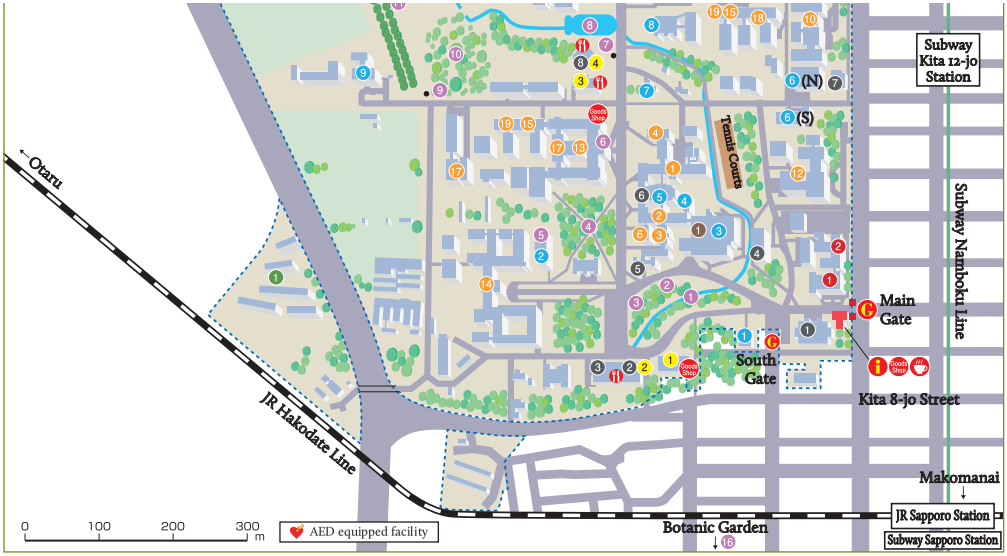
Facilities

1 Conference Hall
2 Clark Memorial Student Center
3 Career Center
4 Centennial Hall
5 Furukawa Hall
6 Humanities and Social Sciences Classroom Building
7 Kodomonosono Nursery
8 Faculty House Trillium
9 Experimental Farms
10 Student Services
11 Multimedia Education Building
12 Gym
13 Enyu Gakusha Community Hall
14 Sports Training Center

Libraries

1 University Library
2 North Library

Dorms



1 Hokkaido University International House Kita 8 (Kita 8 Nishi 11)
2 Keiteki-Ryo Student Dormitory (Kita 18 Nishi 13)
3 Hokkaido University International House Kita 23 (Kita 23 Nishi 13)
4 Foreign Scholars' Accommodation (Kita 24 Nishi 12)

Tourist Spots

1 Sakushukotoni River
2 Central Lawn
3 Bust of Dr. William S. Clark
4 Elm Grove
5 Former School of Agriculture Library
6 The Hokkaido University Museum (Closed until July 2016)
7 Monument to First Artificial Snow Crystal
8 Ono Pond
9 Monument in Honor of Dr. Inazo Nitobe
10 Flowering Tree Garden
11 Poplar Avenue
12 Gingko Avenue
13 Heisei Poplar Avenue
14 Site of Old Village
15 Model Barn
16 Botanic Garden

Cafeterias / Restaurants / Stores

i Information Center & Elm Forest Shop
1 Hokkaido University Co-op
2 Clark Cafeteria
3 Chuo Cafeteria, HU Co-op
4 Elm Restaurant
5 Restaurant Royal
6 Hokubu Cafeteria, HU Co-op
7 Restaurant Popular

University Organization

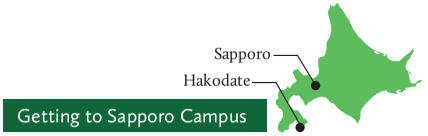
1 Administration Bureau
2 Front Office for Human Resource Education and Development
3 Hokkaido University Hospital
4 Dental Clinical Division of Hokkaido University Hospital
5 International Student Center
6 Office of International Affairs
7 Admission Center
8 Institute for the Advancement of Higher Education

Graduate Schools, Faculties and Schools

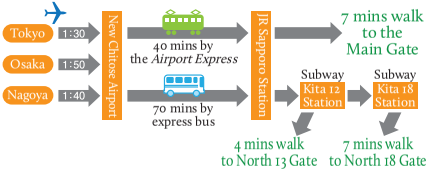
1 Graduate School of Letters
2 Graduate School of Law
3 Graduate School of Economics and Business Administration
4 Graduate School of Education
5 Graduate School of International Media, Communication and Tourism Studies
6 Graduate School of Public Policy
7 Graduate School of Medicine
8 Graduate School of Dental Medicine
9 Graduate School of Veterinary Medicine
10 Graduate School of Health Sciences
11 Graduate School of Information Science and Technology
12 Graduate School of Environmental Science
13 Graduate School of Science
14 Graduate School of Agriculture
15 Graduate School of Life Science
16 Graduate School of Engineering
17 Graduate School of Chemical Sciences and Engineering
18 Faculty of Pharmaceutical Sciences
19 Faculty of Advanced Life Science
* The Graduate School of Fisheries Sciences is located on the Hakodate Campus

Research Institutes & Centers

1 Center for Ainu & Indigenous Studies
2 Center for Sustainability Science
3 Hokkaido University Archives
4 Slavic-Eurasian Research Center
5 Center for Experimental Research in Social Sciences
6 Information Initiative Center North / South Bldgs.
7 Archaeological Research Center
8 Center for Environmental and Health Sciences
9 Field Science Center for Northern Biosphere
10 Research Center for Integrated Quantum Electronics
11 Proton Beam Therapy Center



Getting to Sapporo Campus



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