The Graduate University for Advanced Studies, SOKENDAI

Cultural and Social Studies
- Regional Studies
- Comparative Studies
- Japanese Studies
- Japanese History
- Japanese Literature

Physical Sciences
- Structural Molecular Science
- Functional Molecular Science
- Astronomical Science
- Fusion Science
- Space and Astronautical Science

High Energy Accelerator Sciences
- Accelerator Science
- Materials Structure Science
- Particle and Nuclear Physics

Multidisciplinary Sciences
- Statistical Science
- Polar Science
- Informatics

Life Sciences
- Genetics
- Basic Biology
- Physiological Science

Advanced Sciences
- Evolutionary Studies of Biosystems
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Message from the President

The Graduate University for Advanced Studies, SOKENDAI is a graduate university with no undergraduate programs that consists of departments housed in affiliated Inter-University Research Institutes and the School of Advanced Sciences attached directly to SOKENDAI. The Inter-University Research Institutes are research centers for joint use by universities throughout Japan in their various research fields. As such, these institutes serve as centers of advanced research in their respective research fields and as nodes of scholarly communication that support international joint research. The School of Advanced Sciences, which is located in Hayama and has no such parent institute, conducts advanced research into the evolution of life and the relationship between science and society.

SOKENDAI was founded in October 1988 on the internationally unprecedented idea of educating graduate students at outstanding centers of research to cultivate future generations of scholars. We are very happy to announce that we were able to successfully cerebrate SOKENDAI's 30th anniversary, in 2018.

At SOKENDAI, students are educated at Japan’s leading centers of research. Their lives are very different from those of students in graduate programs attached to ordinary undergraduate faculties, especially for students who enroll in our five-year programs straight from their undergraduate studies and pursue their graduate studies and research surrounded by professional researchers and scholars. Faculty outnumber students by more than two-to-one. Students have access not only to equipment and materials unavailable elsewhere but also to a community of top-ranked scholars. While this environment provides amazing opportunities for doctoral dissertation research, it may also be more stressful in some ways than an ordinary university.

This is why every department, with the full support of SOKENDAI, looks after its students and takes steps to ensure that time spent in the department is productive and enjoyable. All our students are encouraged to take full advantage of this distinctive research environment as they pursue their doctoral dissertation research.

“Advanced specialty and expertise”, “broad perspective” and “international competitiveness” have been the educational goals of SOKENDAI since its founding. As mentioned above, students are educated at centers of research, so “advanced specialties and expertise” and “international competitiveness” are perhaps something they naturally learn. But what of a “broad perspective”? A “broad perspective” entails the ability to explain one’s object of research in the broader terms of human intellectual activity in general and to envision new horizons that transcend current disciplinary boundaries. Although it may be difficult to acquire these while writing a doctoral dissertation, we hope that students will always keep them in mind as they work on their research.

Now, besides a “broad perspective” in that sense, there are new possibilities across multiple disciplines. If we do not limit our thoughts to a single field, but expand our horizons and combine the knowledge of several fields, we may find discover new things through novel approaches. We want to support those who are willing to take on such challenges. Therefore, from 2023, we are considering removing the current walls of the schools and reorganizing them so that there will be 20 courses under the Graduate Institute for Advanced Studies.

Taking advantage of the unique features of our university, which has fields covering a wide range of areas such as energy, materials, space, biology, information, history, and culture, we connect them and lead you to the possibility of opening new academic disciplines. Universities and basic research in Japan today face challenging circumstances. However, whatever difficult challenges may lie ahead in this uncertain age, we will face them each and every day as first-class researchers and scholars dedicated to working in cooperation with everyone concerned to produce future generations of global professionals.

April 1, 2022

Hasegawa, Mariko, Ph. D.
President
The Graduate University for Advanced Studies, SOKENDAI

Profile

Dr. Hasegawa joined The Graduate University for Advanced Studies, SOKENDAI as a professor in 2006. She went on to serve as a dean of Department of Evolutionary Studies of Biosystems in 2007, as a dean of School of Advanced Sciences in 2011, and then as an executive director in 2014. Dr. Hasegawa became President of SOKENDAI on April 1, 2017.

She earned her Ph.D. degree in Anthropology from Graduate School of Science, University of Tokyo. Before joining SOKENDAI, she worked at the Tanzania Wildlife Service, as an assistant at the Laboratory of Anthropology, Department of Biological Science, Graduate School of Science, University of Tokyo. She also taught as an associate professor and professor at Senshu University, as an associate professor at the Department of Anthropology at Yale University and as a professor at the School of Political Science and Economics, Waseda University.

Her research expertise includes Behavioral Ecology and Physical Anthropology, and she conducted research on wild chimpanzee, fallow deer and wild sheep in Great Britain, peafowl in Sri Lanka. Recently she is conducting research on human evolution and adaptation. In 2012 she received the Hidaoka Award from the Japan Ethnological Society.
Graduate Institute for Advanced Studies
Scheduled for transition in April 2023

SOKENDAI is a graduate university based on world class research institutions such as inter-university research institutes.

We have been fostering highly specialized Ph.D.s by using the world’s most cutting-edge research centers as sites for education.

On the other hand, in order to develop human resources for researchers who can tackle complex and interdisciplinary issues based on the ever-changing trends in academic fields and the demands of society, it is necessary to build a system that can flexibly utilize highly specialized educational resources across disciplines.

Therefore, we have started to review our existing education system and consider transitioning to a 20-program system.

In addition, the Research Institute for Humanity and Nature and the National Institute for Japanese Language and Linguistics are also scheduled to join SOKENDAI as part of this restructuring.

We aim to foster the next generation of researchers who will create new horizons beyond their fields of expertise.

https://next20.soken.ac.jp/en/home

We have been considering the transition from a system of six schools to a system of twenty programs under the Graduate Institute for Advanced Studies. This will enable us to establish a system that allows us to flexibly build educational resources from highly specialized inter-university research institutes (parent institutes) to foster the next generation of researchers who can tackle complex and interdisciplinary issues.

※The figure above is the plan as of April 1, 2022. The information on this page is tentative and subject to change.
Main features of SOKENDAI

- Interdepartmental education programs
- International research collaborations coordinated by School of Advanced Sciences
- University-wide “Science and Society” education program

- “SOKENDAI Freshman Course”, an intensive course for all first-year students
- Joint education among departments and schools
- Cross-disciplinary education through distance learning systems
- “Joint School Seminars” for interdisciplinary research exchanges among departments

- Education at the hub of international research collaborations
- International Joint Diploma Programs
- SOKENDAI Student Dispatch Program
- Courses focused on academic communication

Creating advanced research fields

5 Essential Features

- Broadening perspective
- Unique doctoral programs
- Fostering advanced specialties and expertise

- Education programs carried out at cutting-edge research institutes
- Tailor-made education programs
- Flexible education programs for working professionals and foreign students

- Specialized education programs in diverse fields
- Supervision by leading researchers from each field
Purpose of Establishment

In recent years, there has been a strong demand for the promotion of original and international research and the opening up of advanced scientific fields that transcend the boundaries of existing scientific disciplines. The Graduate University for Advanced Studies, SOKENDAI, the first of its kind in Japan, was established to cultivate researchers capable of responding to such demands. It offers the advantage of enabling students to carry out research in the most advanced research environment of Inter-University Research Institutes, which operate under the auspices of the Ministry of Education, Culture, Sports, Science and Technology (MEXT). These institutes conduct advanced research in a variety of fields and play a central role in the promotion of joint research.

SOKENDAI was established to foster creative international researchers with wide-ranging vision who are capable of leading the latest trends in research. The University will promote original and international research and open up new scientific fields that transcend the boundaries of existing scientific disciplines.

Inter-University Research Institutes

Inter-University Research Institutes house large scale, high-technical facilities, high-level laboratories, or various academic data and archives. They are accessible for any university researchers who would collaboratively interact each other, using these facilities.

Have you ever heard, either on TV or in a newspaper, of the Subaru telescope on the island of Hawaii, or of the observation vessel SHIPAHAN heading to the South Pole? Both of them are related to Inter-University Research Institutes, affiliated with SOKENDAI; the Subaru telescope was established by the National Astronomical Observatory, and the polar observation is carried out by the National Institute of Polar Research.

Most of the research activities involve fundamental scientific studies which demand large-scale facilities and a large budget. Inter-University Research Institutes have a great number of researchers and a large amount of research grants are made available to carry out original and advanced scientific research.

Advanced Specialist Education in Research Facilities and General Education Cultivating Broad Views

Ph. D. programs at SOKENDAI provide an ideal education and research environment, offering direct access to large-scale or special experiment/observation facilities, as well as academic materials and data at world-class research institutes in Japan. In our Ph. D. programs, students can be in daily communication with cutting-edge researchers in Japan and abroad as one of the leading international research centers. Having 2-3 faculty members per student, SOKENDAI offers, in a custom-made manner, both advanced specialist education and general education cultivating broad views.
Inter-University Research Institutes participating in SOKENDAI

National Institutes of Natural Sciences
National Institute for Basic Biology
Department of Basic Biology (School of Life Science)
URL: https://www.nibb.ac.jp/en/
38 Nishigahonaka, Myodaiji, Okazaki, 444-8585 Japan
TEL: 81-564-55-7000

National Institutes of Natural Sciences
National Institute for Physiological Sciences
Department of Physiological Sciences (School of Life Science)
URL: https://www.nips.ac.jp/en/
38 Nishigahonaka, Myodaiji, Okazaki, 444-8585 Japan
TEL: 81-564-55-7000

National Institutes of Natural Sciences
National Astronomical Observatory (Mizusawa)
2-12 Hoshigaoka, Mizusawa, Oshu, Iwate, 023-0861 Japan
TEL: 81-197-22-7111

National Astronomical Observatory (Hawaii)
462-2 Nobeyama, Minamimakimura, Minamisaku, Nagano, 384-1305 Japan
TEL: 81-267-98-4300

National Astronomical Observatory (Chile)
Alonso de Cordova 3788, Office 618 Vitacura, Santiago, Chile
TEL: 56-2-2656-9253

National Institutes of Natural Sciences
National Institute for Fusion Science
Department of Fusion Science (School of Physical Sciences)
325-4, Oroshi-cho, Toki, Gifu, 509-5292 Japan
TEL: 81-572-58-2222 or 2042
URL: https://www.nifs.ac.jp/en/

Japan Aerospace Exploration Agency
Institute of Space and Astronautical Science
Department of Space and Astronautical Science
(School of Physical Sciences)
3-1-1, Yoshinodai, Chuo-ku, Sagamihara, Kanagawa, 252-5210 Japan
TEL: 81-42-759-8012
URL: https://www.isas.jaxa.jp/en/

High Energy Accelerator Research Organization
Tsukuba Campus
Accelerator Laboratory · Applied Research Laboratory
Department of Accelerator Science (School of High Energy Accelerator Science)
Institute of Materials Structure Science
Department of Materials Structure Science (School of High Energy Accelerator Science)
Institute of Particle and Nuclear Studies
Department of Particle and Nuclear Physics (School of High Energy Accelerator Science)
1-1 Oho, Tsukuba, Ibaraki, 305-0801 Japan
TEL: 81-42-512-0608
URL: http://www.kek.jp/

Tokai Campus
203-1 Oaza-Shirakata, Tokai-Mura, Naka-gun, Ibaraki, 319-1106 Japan

The Research Organization of Information and Systems
The Institute of Statistical Mathematics
Department of Statistical Science (School of Multidisciplinary Sciences)
1-3 Midori-cho, Tachikawa, Tokyo, 190-8562 Japan
TEL: 81-50-5533-8500
URL: https://www.ism.ac.jp/index_e.html

National Institutes of Natural Sciences
National Institute of Polar Research
Department of Polar Science (School of Multidisciplinary Sciences)
10-3 Midori-cho, Tachikawa, Tokyo, 190-8518 Japan
TEL: 81-42-512-0608
URL: https://www.npr.ac.jp/

Syowa Station (Antarctica)
Department of Polar Science (School of Multidisciplinary Sciences)

National Institutes of Natural Sciences
National Institute of Informatics
Department of Informatics (School of Multidisciplinary Sciences)
2-12 Hitotsubashi, Chiyoda-ku, Tokyo, 101-8430 Japan
TEL: 81-3-4212-2110
URL: https://www.nii.ac.jp/en/

National Institutes of Natural Sciences
National Institute of Genetics
Department of Genetics (School of Life Science)
1111 Yata, Mishima, Shizuoka, 411-8540 Japan
TEL: 81-55-981-6720
URL: https://www.nig.ac.jp/
The Graduate University for Advanced Studies, SOKENDAI
History

June 1987
- An informal committee of the directors general of international university research institutes issues an appeal for the introduction of postgraduate courses in the institutes.

March 1987
- The Committee for the Investigation of the Establishment of a Postgraduate School for Advanced Studies produces a summary of the basic concepts of a postgraduate school for advanced studies.

May 1987
- An Office and Committee for Preparation of the Establishment of a Postgraduate School for Advanced Studies are established at Okazaki National Research Institute.

July 1987
- The Committee for Preparation of the Establishment of a Postgraduate School for Advanced Studies produces an interim summary on the preparation of the establishment of a tentatively named Graduate University for Advanced Studies.

April 1988
- An Office and Committee for Preparation of the Establishment of the Graduate University for Advanced Studies are established at Okazaki National Research Institute.

May 1988
- The "Law to amend part of the National School Establishment Law" (Law No. 63, 1988), which stipulates the establishment of the Graduate University for Advanced Studies, is announced and enacted.

September 1988
- The Committee for Preparation of the Establishment of the Graduate University for Advanced Studies produces a summary of the preparation of the establishment of the Graduate University for Advanced Studies.

October 1988
- The Graduate University for Advanced Studies is inaugurated. The central administration office is established at the Tokyo Institute of Technology (Nagatsugawa Campus).

April 1989
- The School of Mathematical and Physical Science is established; matriculation begins.

March 1990
- The Department of Statistical Science, the Department of Accelerator Science, the Department of Atomic Radiation Science, the Department of Structural Molecular Science, and the Department of Functional Molecular Science are established; matriculation begins.

February 1994
- Land in Hayama, Kanagawa (27,000m²), is donated by Mitsui Fudosan Ltd. to allow the construction of the University’s central administration office, as a result of the mediation services of the Kanagawa prefectural government.

March 1994
- Construction of the central administration office (4,205m²) begins at the Hayama Campus.

June 1994
- The Information Center for Research and Education is established.

February 1995
- Administrative functions are transferred from Nagatsugawa Campus to Hayama; construction is completed on the central administration building.

April 1995
- Dr. Eizi Hinta is appointed as the second President. Dr. Kazuo Moriwaki is appointed as the second Vice President.

September 1995
- The School of Advanced Sciences, with the Department of Biosystems Science, is established at the Hayama Campus (matriculation begins in April 1996).

April 1996
- The Department of Photonscience (School of Advanced Sciences) is established; matriculation begins in April 1996. The Department of Synchrotron Radiation Science changes its name to "The Department of Materials Structure Science".

September 1996
- Construction of the School of Advanced Sciences building for research (3,060m²) begins at the Hayama Campus.

April 1997
- The School of Cultural Studies changes its name to "The School of Cultural and Social Studies". The Department of Japanese History is established in the School of Cultural and Social Studies, and The Department of Particle and Nuclear Physics is established in the School of Mathematical and Physical Sciences; matriculation begins in both new departments. The School of Advanced Sciences commences matriculation.

June 1997
- Construction completed on the research building for the School of Advanced Sciences.

April 1998
- Dr. Keichi Kodaira is appointed as the third President. Dr. Naoyuki Takahata is appointed as the third Vice President. The Department of Cyber Society and Culture (School of Cultural and Social Studies) is established; matriculation begins.

July 2001
- Construction begins on the Hayama Campus Library (1,427m²).

February 2002
- Library construction completed.

2002
- The Department of Informatics established in the School of Mathematical and Physical Sciences; matriculation begins.

2003
- The Department of Japanese Literature (School of Cultural and Social Studies), and the Department of Space and Astronautical Science (School of Mathematical and Physical Science) are established; matriculation begins.

October 2003
- "The National University Corporation Law (Law No. 112 of 2003)" is promulgated and enforced.

April 2004
- Reformation into the National University Corporation, Graduate University for Advanced Studies Dr. Keichi Kodaira is reappointed as the President of the University. The School of Mathematical and Physical Sciences is reformed into three schools: the School of Physical Science (including the departments of Structural Molecular Science, Functional Molecular Science, Astronomical Science, Fusion Science and Space and Astronautical Science), the School of High-Energy Accelerator Science (including the departments of Accelerator Science, Materials Structure Science, Particle and Nuclear Physics), and the School of Multidisciplinary Science (including the departments of Statistical Science, Polar Science and Informatics). The School of Life Science has reformed a three-year doctoral program into a five-year doctoral program.

April 2005
- The name of the Department of Molecular Biomechanics at the School of Life Science has changed to the Department of Basic Biology.

April 2006
- The School of Physical Sciences, the School of High Energy Accelerator Science, and the School of Multidisciplinary Sciences have implemented the five-year doctoral program system. The Schools have begun to accept students.

April 2007
- The School of Advanced Sciences is reorganized to establish the Department of Evolutionary Studies of Biosystems (providing a five-year doctoral program), in stead of its two existing departments, the Department of Biosystems Science and the Department of Photo Science (providing three-year doctoral programs), matriculation begins.

April 2008
- Dr. Naoyuki Takahata has been appointed as the fourth President.

April 2009
- The Department of Cyber Society and Culture has stopped accepting new students.

March 2010
- Construction of the Center for the Promotion of Integrated Sciences (1,033m²) begins at the Hayama Campus.

April 2010
- The name of Hayama Center for Advanced Studies has changed to the Center for the Promotion of Integrated Sciences.

January 2011
- Construction of the Center for the Promotion of Integrated Sciences is completed.

March 2015
- Information Services and Technology Center is established.

April 2013
- Dr. Yasunobu Okada has been appointed as the fifth President.

January 2015
- The Center for Academic Information Services is established by unification of the University Library and the Information Services and Technology Center.

March 2017
- Department of Cyber Society and Culture abolished. (Dept. operation period from 2001.4.1 to 2017.3.31)

April 2017
- Dr. Mariko Hasegawa has been appointed as the sixth President.

March 2018
- The Center for Educational Development is established.

April 2018
- The Center for the Promotion of Integrated Sciences is abolished. SOKENDAI Tokyo Branch is established at Tokyo Institute of Technology, Campus Innovation Center (Minato-ku, Tokyo)

March 2022
- Tokyo branch abolished.

April 2022
- Research Center for Integrative Evolutionary Science is established.
Organization

Administrative Board

President: Hasegawa, Mariko
Executive Director: Arikawa, Kentaro
Vice President: Nagata, Takashi

School of Cultural and Social Studies
Dean: Ito, Takayuki
Chair, Department of Regional Studies: Nobuta, Toshihiro
Chair, Department of Comparative Studies: Minami, Makito
Chair, Department of Japanese Studies: Isoda, Michifumi
Chair, Department of Japanese History: Matsugi, Takehiko
Chair, Department of Japanese Literature: Saito, Maori

School of Physical Sciences
Dean: Aono, Shigetoshi
Deputy Dean: Sakakibara, Satoru
Chair, Department of Structural Molecular Science: Yokoyama, Toshihiro
Chair, Department of Functional Molecular Science: Watanabe, Yoshihito
Chair, Department of Astronomical Science: Tsuneta, Saku
Chair, Department of Fusion Science: Yoshida, Zenyo
Chair, Department of Space and Astronomical Science: Dotani, Tadayasu

School of High Energy Accelerator Science
Dean: Honda, Tohru
Deputy Dean: Hashimoto, Shoji
Chair, Department of Accelerator Science: Kamitani, Takuya
Chair, Department of Materials Structure Science: Shimizu, Nobutaka
Chair, Department of Particle and Nuclear Physics: Nishimura, Jun

School of Multidisciplinary Sciences
Dean: Kadokura, Akira
Deputy Dean: Echizen, Isao
Chair, Department of Statistical Science: Fujisawa, Hironori
Chair, Department of Polar Science: Hirakawa, Toru
Chair, Department of Informatics: Yamada, Seiji

School of Life Science
Dean: Iwasato, Takuji
Deputy Dean: Hirata, Tatsunori
Chair, Department of Genetics: Hanaoka, Fumin
Chair, Department of Basic Biology: Agata, Kiyokazu
Chair, Department of Physiological Sciences: Nabekura, Junichi

School of Advanced Sciences
Dean: Kutsukake, Nobuyuki
Deputy Dean: Innan, Hideki
Chair, Department of Evolutionary Studies of Biosystems: Sasaki, Akira

University Library
Director: Arikawa, Kentaro
Deputy Director: Yagyu, Shuji

Research Center for Integrative Evolutionary Science
Director: Innan, Hideki

The Center for Educational Development
Director: Nagata, Takashi

The Center for Academic Information Services
Director: Arikawa, Kentaro

Future Planning Division
Manager: Nagata, Takashi

Administration Bureau
Secretary-General: Kamazuka, Satoshi
Manager, General Planning Division: Okada, Maki
Manager, General Affairs Division: Horii, Shinya
Manager, Financial Affairs Division: Iizuka, Yasushi
Manager, Academic and Students Affairs Division: Umeno, Kenichi

As of April 1, 2022
Future Planning Division

In order to support management of the university by the leadership of the President, Future Planning Division was established as the core function which carries out planning and proposals relating to education/research activities and organizational management of the entire university. We are conducting IR activities and collecting information to support formulating the future vision toward the period for the 4th Mid-term Objectives as the “SOKENDAI Future Vision Project”.

- Planning and proposals relating to management of the University
- IR activities to support planning, proposals and decision making
- International cooperation activities relating to the entire University
- Public relation activities relating to the entire University
- Formulation of the policies relating to management and operations of the headquarters of the University

Education and Research Council

As of April 1, 2022

- President
  Hasegawa, Mariko

- Executive Director
  Arikawa, Kentaro

- Executive Director (Executive Vice President)
  Nagata, Takashi

- Executive Director
  Ogawa, Yujiro

- Dean, School of Cultural and Social Studies
  Ito, Takayuki

- Dean, School of Physical Sciences
  Aono, Shigetoshi

- Dean, School of High Energy Accelerator Science
  Honda, Toru

- Dean, School of Multidisciplinary Sciences
  Kadokura, Akira

- Dean, School of Life Science
  Iwasato, Takuju

- Dean, School of Advanced Sciences
  Kutsukake, Nobuyuki

- Chair, Department of Regional Studies
  Minami, Makito

- Chair, Department of Japanese Studies
  Isoda, Michifumi

- Chair, Department of Japanese History
  Matsugi, Takehiko

- Chair, Department of literature
  Saito, Maori

- Chair, Department of Functional Molecular Science
  Watanabe, Yoshihito

- Chair, Department of Astronomical Science
  Tsuneta, Saku

- Chair, Department of Space and Astronautical Science
  Yoshida, Zensho

- Chair, Department of Acceleration Science
  Dotani, Tadayasu

- Vice Chair, Department of Acceleration Science
  Chair, Department of Materials Structure Science
  Michizono, Shinichiro

- Professor, Department of Materials Structure Science
  Shimizu, Nobutaka

- Chair, Department of Statistical Science
  Saito, Naohito

- Chair, Department of Polar Science
  Fujisawa, Hironori

- Chair, Department of Informatics
  Hirawake, Toru

- Chair, Department of Genetics
  Yamada, Seiji

- Chair, Department of Basic Biology
  Hanaoka, Fumio

- Chair, Department of Physiological Sciences
  Agata, Kiyokazu

- Chair, Department of Evolutionary Studies of Biosystems
  Nabekura, Junichi

- Professor, Department of Comparative Studies
  Sasaki, Akira

- Professor, Department of Japanese History
  President, Akita International University
  Monte Cassim

- Professor, Department of Accelerator Science
  President, Akita International University
  Monte Cassim

- Professor, Department of Accelerator Science
  President, Akita International University
  Monte Cassim

- Professor, Department of Materials Structure Science
  Kosugi, Nobuhito

- Professor, Department of Polar Science
  Nakamura, Takui

- Professor, Department of Statistical Science
  Nakamura, Takuji

- Professor, Department of Accelerator Science
  Hanaoka, Fumio

- Professor, Department of Accelerator Science
  Nishitani, Masaru

- Professor, Department of Accelerator Science
  Koseki, Tadashi

- Professor, Department of Materials Structure Science
  Namito, Yoshihito

- Professor, Department of Materials Structure Science
  Kosugi, Nobuhito

- Professor, Department of Materials Structure Science
  Nakamura, Takui

- Professor, Department of Physics
  Inoue, Shioichi

- Professor, Department of Materials Structure Science
  Watanabe, Yasuaki

- Professor, Department of Materials Structure Science
  Tsubaki, Hiroe

Administrative Council

As of April 1, 2022

- President
  Hasegawa, Mariko

- Executive Director
  Arikawa, Kentaro

- Executive Director (Executive Vice President)
  Nagata, Takashi

- Executive Director
  Ogawa, Yujiro

- Dean, School of Cultural and Social Studies
  Ito, Takayuki

- Dean, School of Physical Sciences
  Aono, Shigetoshi

- Dean, School of High Energy Accelerator Science
  Honda, Toru

- Dean, School of Multidisciplinary Sciences
  Kadokura, Akira

- Dean, School of Life Science
  Iwasato, Takuju

- Dean, School of Advanced Sciences
  Kutsukake, Nobuyuki

- Chair, Department of Regional Studies
  Minami, Makito

- Chair, Department of Japanese Studies
  Isoda, Michifumi

- Chair, Department of Japanese History
  Matsugi, Takehiko

- Chair, Department of literature
  Saito, Maori

- Chair, Department of Functional Molecular Science
  Watanabe, Yoshihito

- Chair, Department of Astronomical Science
  Tsuneta, Saku

- Chair, Department of Space and Astronautical Science
  Yoshida, Zensho

- Chair, Department of Acceleration Science
  Dotani, Tadayasu

- Vice Chair, Department of Acceleration Science
  Chair, Department of Materials Structure Science
  Michizono, Shinichiro

- Professor, Department of Materials Structure Science
  Shimizu, Nobutaka

- Chair, Department of Statistical Science
  Saito, Naohito

- Chair, Department of Polar Science
  Fujisawa, Hironori

- Chair, Department of Informatics
  Hirawake, Toru

- Chair, Department of Genetics
  Yamada, Seiji

- Chair, Department of Basic Biology
  Hanaoka, Fumio

- Chair, Department of Physiological Sciences
  Agata, Kiyokazu

- Chair, Department of Evolutionary Studies of Biosystems
  Nabekura, Junichi

- Professor, Department of Comparative Studies
  Sasaki, Akira

- Professor, Department of Japanese History
  President, Akita International University
  Monte Cassim
Research and Education System

SOKENDAI has 6 schools and 20 departments. School of Cultural and Social Studies, School of Physical Sciences, School of High Energy Accelerator Sciences, School of Multidisciplinary Sciences and School of Life Science together hold charge of 19 departments, which are housed in 18 affiliated research institutes and operated by 4 Inter-University Research Institute Corporations and Japan Aerospace Exploration Agency. School of Advanced Sciences, which is attached directly to SOKENDAI Headquarters and does not have a parent institute, has one department to conduct research into the evolution of life and the relationship between science and society. In addition, the University Library, the Research Center for Integrative Evolutionary Science, The Center for Educational Development and The Center for Academic Information Services have been established as university-wide facilities for all 6 schools.

* In April 2023, the current system of 6 schools with 20 departments will be reorganized into the Graduate Institute for Advanced Studies.
School of Cultural and Social Studies

By providing comprehensive research and educational programs on the human cultural activities and the relationship among human, society, technology and nature, the School aims to encourage outstanding researchers who can compete internationally and can offer broad perspectives as well as those who can contribute to the society by using advanced research techniques in which they were trained.

School of Cultural and Social Studies

The School of Cultural and Social Studies is the only humanities school at SOKENDAI. The School is comprised of the following five departments affiliated with 4 research institutes: Department of Regional Studies and Department of Comparative Studies affiliated with National Museum of Ethnology, Department of Japanese Studies affiliated with International Research Center for Japanese Studies, Department of Japanese History affiliated with National Museum of Japanese History and Department of Japanese Literature affiliated with National Institute of Japanese Literature. The School not only conducts study and research at each research institute, but also conducts collaborative activities as an entire school. The School is playing an important role of conducting cultural and social studies at SOKENDAI based on a wide variety of academic expertise, and is disseminating the study achievements through methods such as publishing the academic journal “SOKENDAI Review of Cultural and Social Studies”, holding the interdisciplinary exchange program “SOKENDAI Cultural Forum” hosted by each institute in rotation, and implementing the special education program “Academic Resource Management Course”. In addition, the School only accepts students for the second term of a doctoral course (Doctor) while the other schools at SOKENDAI adopt a five-year system.

Departments under the School

- Department of Regional Studies
- Department of Comparative Studies
- Department of Japanese Studies
- Department of Japanese History
- Department of Japanese Literature

Dean

ITO Takayuki

Special field

History of Chinese thought, Cultural interaction in East Asia, Comparative culture
Department of Regional Studies

The Department, affiliated with the National Museum of Ethnology, Japan, offers opportunities to study individual cultures and societies in the regions of Asia, Europe, Africa, the Americas and Oceania. Students are expected to give an ethnographic description of culture and society, analyze their structure, and understand their dynamics while considering the characteristics and history of each region. The Department nurtures researchers who can examine field data, assess the data theoretically, and produce both academic contributions and practical recommendations.

Department of Comparative Studies

The Department, affiliated with the National Museum of Ethnology, Japan, offers opportunities for comparative studies of social systems, religion, technology, languages, art and cultural resources. Students are expected to explore similarities and differences in time and space and to explore new directions in the study of society and culture. The Department has the advantage of access to extensive collections of artifacts, audio-visual records and documentary materials. The Department nurtures researchers who can develop new research areas by combining anthropological methods with the findings of related fields.

Department of Japanese Studies

The Department of Japanese Studies is organized as a single administrative unit in order to facilitate the international and interdisciplinary pursuit of Japanese studies encompassing the humanities, social sciences, and natural sciences. A special feature of our graduate study program is that all the faculty take part in teaching and research guidance. The department requires graduate students to take three courses — “Seminar on Theory and Methodology,” “Interdisciplinary Research,” and “Dissertation Writing Guidance” — which set forth the theoretical and methodological basis for conducting Japanese studies from a global perspective. Through these courses and research guidance, we aim to nurture researchers with a creative and highly specialized perspective, broad interdisciplinarity, and the ability to integrate across multiple fields of study.

Library
We acquire basic books and periodicals published both in and outside of Japan.

For inquiries or information:
E-mail: senkou@nichibun.ac.jp

For inquiries or information:
E-mail: souken@minpaku.ac.jp
Department of Japanese History

In the Department of Japanese History, which has the National Museum of Japanese History as its parent institute, researchers specializing in history, archaeology, folklore and allied disciplines including natural science, provide educational and research opportunities, including fieldwork, from interdisciplinary viewpoints. The most distinctive feature of the Department is that the students can use materials that are stored in the Museum, as well as various tangible and intangible information resources and advanced equipment for scientific analysis. The Department aims to foster researchers who are highly capable of comprehensive material-based analysis of Japanese history and culture and individuals who contribute to society with their broad and international perspectives.

COURSES

- **Japanese History**
  - Studies of Historical Materials / Studies of Source Materials and Research on Exhibits / Analytical and Information Sciences / Social History / Technological and Environmental History / Regional Cultures / International Exchange /
  - Intensive Lectures A·B·C·D / Basic Seminar I·II / Instruction for Doctoral Dissertation Making I·II

For inquiries or information:
E-mail: soken@ml.rekihaku.ac.jp

Lecture utilizing museum collection
About 300,000 of historical, folkloric and archaeological artifacts as well as advanced research facilities can be made of.

Department of Japanese Literature

The pillars of education in the Department of Japanese Literature are to attain deep expertise on Japanese literature and related fields as well as investigative techniques and comprehensive analytical skills for related materials, while utilizing the cultural resources of the National Institute of Japanese Literature, a fundamental organization and pioneering inter-university research institute that compiles and researches vast amounts of academic information based on investigation of original materials.

We offer courses from a systematic curriculum with a focus on Japanese literature and an eye to a wide range of fields while also providing research guidance under multiple faculty members in order to develop researchers with advanced expertise and human resources who can contribute to society through their research results.

COURSES

- **Japanese Literature**
  - Shared Lecture / Resource of Literature / Formation of Literature / Environment of Literature

For inquiries or information:
E-mail: edu-mt1@nijl.ac.jp

Lecture utilizing the institute's collection
About 20,000 rare books including important cultural properties, 200,000 microfilms, 520,000 historical documents and other materials related to Japanese literature are stored in the institute's library.
Aiming to nurture world-class researchers with broad perspectives as well as individuals with advanced knowledge and skills who will contribute to society in the field of material-, space- and energy-related physics and chemistry.

School of Physical Sciences

The School of Physical Sciences conducts education and research in physical sciences relating to material, space, energy and life. The five departments that constitute the School have been located at four Inter-University Research Institutes: the Institute for Molecular Science, the National Astronomical Observatory of Japan, the National Institute for Fusion Science and Institute of Space and Astronautical Science. These Institutes house special and large equipment impossible for general universities to accommodate, and they have implemented a great number of large-scale and internationally advanced research projects. The School is open to many foreign researchers, including visiting faculty members, postdoctoral fellows and students, and thus offers a highly international environment. In this excellent research environment, students experience the frontiers of physical science and devote themselves to study and research, striving to create the science of the future by themselves. The School provides a tutoring system in which at least two faculty members are assigned per student, allowing practical research with one-on-one guidance. In addition, a research assistant (RA) system has generously supported students financially and created an environment in which they can concentrate on their study and research. We hope that many motivated students will enroll in the School and grow into researchers who will play major roles in the future of physical science.

Departments under the School

- Department of Structural Molecular Science
- Department of Functional Molecular Science
- Department of Astronomical Science
- Department of Fusion Science
- Department of Space and Astronautical Science
Department of Structural Molecular Science

Education and research are primarily concerned with a systematic unveiling of the static as well as dynamic properties of materials through real images of molecules and molecular assemblies deduced from detailed structural analyses. Advanced training and research are conducted in the field of structural molecular science with the use of new methods for detecting and analyzing dynamic structures, in addition to a variety of traditional spectroscopic and theoretical techniques for structural analysis.

Electronic states studied by photoelectron spectroscopy

Department of Functional Molecular Science

Education and research are primarily directed towards, firstly, unveiling the underlying mechanisms of various functions of materials at the atomic or molecular level, and secondly, the design and generation of new functional properties of molecules and molecular assemblies. Advanced training and research are conducted in the field of functional molecular science with an emphasis on the development of modern techniques for functional analysis and novel theoretical approaches.

Purification of proteins by high-performance liquid chromatography

Department of Astronomical Science

The department carries out advanced education and research through a wide range of observational and theoretical researches using state-of-the-art facilities like Subaru Telescope in Hawai‘i, the ALMA radio telescope in Chile, and supercomputers. According to the interest, students can learn the observational and theoretical astronomies and application of cutting-edge technology as well as the design, fabrication and testing of new observational instruments, development of new methods of data acquisition and analysis, and public outreach.

Subaru Telescope is located on the summit of Mauna Kea, a dormant volcano on the Big Island of Hawai‘i.
### Department of Fusion Science

To develop fusion power for a future energy source, it is necessary to research plasma physics through a complementary approach of both experimental and theoretical studies.

In this department, students learn the experimental methodology as well as engineering requirements for investigating high temperature plasma, and also learn computer simulation techniques for revealing the nature of complicated fusion plasmas.

![Large Helical Device(LHD)Vacuum Vessel](image1)

![Microscopic instability simulation in core plasma of Large Helical Device by gyrokinetic particle code](image2)

### COURSES

<table>
<thead>
<tr>
<th>Fusion System</th>
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<tbody>
<tr>
<td>Device system / Research operation / Plasma heating / Diagnostics</td>
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<table>
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<tr>
<th>Fusion Simulation</th>
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<tbody>
<tr>
<td>Plasma simulation / Particle simulation / Magneto hydrodynamic simulation</td>
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</tbody>
</table>

For inquiries or information:

E-mail: daigakuin@nifs.ac.jp

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### Department of Space and Astronautical Science

The Department of Space and Astronautical Science provides an opportunity for high-level education and advanced research through theoretical studies, analysis of acquired data, and practice of advanced R&D in Astrophysics, Solar System Sciences and Space Engineering. The main feature of each major is as follows.

- **Astrophysics** is to elucidate the origin, structure and evolution of the universe based on the observations from space.
- **Solar System Sciences** is to understand the origin and evolution of a variety of environments, including the prebiotic materials, by examining the present status and samples of past days.
- **Space Engineering** is to lead the future space development by providing innovative space technology. New space technology enables challenging missions in the above two scientific activities.

In addition, it is expected to cultivate not only depth of knowledge in Space Science but also the planning skills for space projects by touching on the most advanced and complex space projects.

![Hayabusa 2 capsule separation.(artistic impression)](image3)

### COURSES

<table>
<thead>
<tr>
<th>Space Exploration Science and Engineering</th>
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<tr>
<td>Space System / Space Exploration / Space Environment Science</td>
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<tr>
<th>Space Observation Science</th>
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<tr>
<td>Space Astronomy / Solar System Exploration</td>
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<tr>
<th>Space Technology</th>
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<tbody>
<tr>
<td>Electronic Device and telecommunication / Space Transportation Technology</td>
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For inquiries or information:

E-mail: sokendai@ml.jaxa.jp
School of High Energy Accelerator Science

The School of High Energy Accelerator Science provides opportunities for graduate students to carry out experimental and theoretical research on elementary particles and on materials structure and functions. The School also encourages them to engage in the research and development of novel and high performance accelerators. In addition, the School aims to foster the creative researchers who will push the frontiers of science and contribute to the good of society.

School of High Energy Accelerator Science

The School of High Energy Accelerator Science consists of three departments: the Department of Accelerator Science, the Department of Materials Structure Science, and the Department of Particle and Nuclear Physics. These departments are affiliated with the Accelerator Laboratory/ the Applied Research Laboratory, the Institute of Materials Structure Science, and the Institute of Particle and Nuclear Studies in the High Energy Accelerator Research Organization (KEK).

In the Department of Particle and Nuclear Physics, accelerator based high energy physics experiments through international collaborative projects as well as advanced theoretical research are performed in order to study and understand the origin of the cosmos and the ultimate structure of matter. In the Department of Materials Structure Science, structures of hard to soft materials and their functions are studied not only from a fundamental interest but also from an application point of view. KEK develops and operates high-energy accelerators which provide various particle beams such as protons, electrons, positrons, neutrinos, X-rays, neutrons and muons. In the Department of Accelerator Science, principles and components of the accelerator complexes are studied. The education programs are based on variety of research activities pursued by KEK, which provide wide range of graduate education for students.

Departments under the School

- Department of Accelerator Science
- Department of Materials Structure Science
- Department of Particle and Nuclear Physics

Dean

HONDA Tohru

Special field

Accelerator Science, Vacuum Science
Department of Accelerator Science

High-energy particle accelerators are extremely powerful tools for exploring a wide range of building blocks and structures found in nature, from elementary particles and atomic nuclei to atoms, molecules and even complex living organisms. In addition, beyond the field of natural science, applications of particle accelerators are being actively pursued in the fields of industry and medical science.

In the Department of Accelerator Science, students can conduct both theoretical and experimental research on the principles of accelerators and their related leading edge technologies, and thereby endeavor to further advance natural science through the development of particle accelerators. Closely related subjects, such as radiation science, computer science, superconductivity engineering, and mechanical engineering can also be studied.

Department of Materials Structure Science

In the Department of Materials Structure Science, leading edge researches on structures, functions and characteristics of hard to soft materials are pursued. The research studies concerning physics, chemistry, biology, engineering, agriculture and medical science are performed by the use of advanced beams such as synchrotron radiation, neutrons, muons and slow positron, which are provided by state-of-the-art particle accelerators. Developing novel technologies for beam production and its utilization to make major contributions to materials science are also included in our research fields. We will offer education programs and experimental opportunities to our students who will aim for clarifying the Nano World.

Department of Particle and Nuclear Physics

Both particle physics and nuclear physics are among the most fundamental areas of basic science, and they are the sources of new frontiers in physical concepts and methods that are the basis of modern science; these subjects involve the pursuit of the most fundamental principles of nature and the exploration of the basic structure and building blocks of matter.

In this department, we conduct both theoretical and experimental researches in particle and nuclear physics. The theoretical investigations include not only those in particle and nuclear physics but also those in cosmology and astrophysics. The experimental investigations are conducted by means of colliding beam accelerators and various beams from high-intensity proton accelerators. In addition, related research in physics, including the R&D of new devices, methods and their applications, is pursued in a versatile manner.
School of Multidisciplinary Sciences

The School of Multidisciplinary Sciences conducts research and education on complicated natural and social phenomena, as systems that govern the occurrences, functions, and interactions of these phenomena, from the comprehensive and transdisciplinary viewpoint. Through such research and educational activities, the School aims to nurture researchers and highly specialized professionals in the area of information and systems who will take the lead in academic research and address various important issues relating to changes in human society in the 21st Century. The School, consisting of the Department of Statistical Science, the Department of Polar Science, and the Department of Informatics, has been involved in multidisciplinary research fields from the beginning. In addition, the School further strives to enhance its research and education by promoting close collaboration between the Departments by, for example, setting common subjects in curricula. The School covers diverse research subjects but studies the principles of multidisciplinary science, research approaches, and methodologies as an essential part of the School’s research and education activities. The Department of Statistical Science and the Department of Informatics seek to determine the common probability or complexity among various phenomena by statistical mathematics and data analysis. The Department of Polar Science studies the geophysical and the biological complex system in the polar regions of extremes on Earth and approaches its subject from the viewpoint of multidisciplinary science. By continuing to explore new research fields, including advanced and leading research fields, and systematizing them through such activities, the School strives for further development of the multidisciplinary sciences.

Departments under the School

- Department of Statistical Science
- Department of Polar Science
- Department of Informatics

Dean
KADOKURA Akira

Special field
Magnetospheric physics
Department of Statistical Science

The Department of Statistical Science is operated by the Institute of Statistical Mathematics, which has made great achievements in statistical science, including the Akaike information criterion, and has been contributing to the development of science as a central research institute of statistical science not only in Japan but also in the world.

The Department of Statistical Science aims to cultivate individuals who possess creative research skills to contribute to solving various important intricately-intertwined problems. To this end, the Department conducts education and research related to the basics, mathematics and applications of data collection designs, modeling, inference and prediction, and equip students with the ability to extract information and knowledge from the real world based on the effective use of data.

For inquiries or information:
E-mail: sokendai-toukei@t.rois.ac.jp

Department of Polar Science

Nature in polar regions is conditioned by the interactions between space, the upper atmosphere, the hydrosphere, the geosphere and the biosphere, with the whole Earth constituting a massive natural system. Polar science serves as a foundation for a broad range of fields connected with this natural system, with the purpose of elucidating various physical, chemical and biological processes of the system, as well as their mutual interactions, from a perspective that sees the Earth as a seamless system. The Department of Polar Science conducts education and research focused on natural phenomena occurring in the regions of the North and South Poles, embracing a view of the Earth as a global-scale environment. We strive to cultivate outstanding researchers equipped with advanced research and the ability to work as field scientists who are creative and flexible in studying the past, current and future figure of the Earth.

For inquiries or information:
E-mail: sokendai-kyokuiki@t.rois.ac.jp

Department of Informatics

Achieving Excellence in Informatics

Informatics is a scientific research field that extensively and synthetically deals with problems related with information from various aspects. It is a multidisciplinary science covering not only traditional information science and engineering but also modeling, artificial intelligence and data science, which are indispensable in the recent data-driven society, and even humanity informatics and social informatics. It includes visualization, acquisition/collection, circulation, management, processing, understanding, and usage of information as well as the information technology to support them. The department of Informatics aims to foster researchers and highly skilled professionals with ability in a broad range from foundations to practices and advanced specialty by utilizing cutting-edge research environments and cyber science infrastructure of the National Institute of Informatics where you can enjoy an international atmosphere with many active researchers and students from various countries.

For inquiries or information:
E-mail: daigakuin@nii.ac.jp
The School of Life Science aims to educate researchers who are internationally extraordinary and possess creativeness and broad perspectives to explore new fields of Life Science. Professors in this school cover wide fields of Life Science from the molecular to organismal and population levels.

The School of Life Science offers graduate programs that are aimed at nurturing independent and creative researchers that expand the frontiers of life science. Three departments that constitute the School of Life Science are based on three leading research institutions — National Institute of Genetics, National Institute for Basic Biology, and National Institute for Physiological Sciences. Research activities of these institutes cover variable fields of Life Science and the School of Life Science aims to provide research environments in which students can learn interdisciplinary concepts as well as their own specialty. Housing the largest number of life science faculty in Japan, the School of Life Science offers a mentoring system by multiple faculty, and provides a superb environment for independent research by each student. The graduate course provides not only lectures by outstanding internal professors but also seminars on the latest research progress conducted by external researchers, educational programs for cross-disciplinary approaches, and courses on scientific writing and presentation. The three departments hold a joint retreat every year for scientific interactions and share lectures over the internet for further enhanced interactions. We welcome students who love and enjoy Life Science, and dream to open new windows into the field.

## Departments under the School

- Department of Genetics
- Department of Basic Biology
- Department of Physiological Sciences

### Dean

IWASATO Takuji

**Special field**

- Neuroscience
- Molecular biology
- Mouse genetics
Department of Genetics

The Department of Genetics offers education and research opportunities in a variety of cutting-edge disciplines with the goal of investigating biological phenomena on the basis of genetic information. Study and research fields include molecular, cellular, developmental, behavioral, population, and evolutionary genetics, as well as genome biology and bioinformatics. Students can take advantage of a wide range of databases and genetic resources hosted by the National Institute of Genetics. To nurture independent researchers, the Department of Genetics adopts an educational philosophy that the academic guidance of each individual student is carried out by the entire faculty. For example, graduate students meet with their thesis committee twice a year to receive advice from faculty members outside their host labs. Other features of the Department include the Scientific Presentation/Writing Program and ample financial assistance opportunities such as our research assistant program.

Department of Basic Biology

The Department of Basic Biology trains researchers capable of developing innovative approaches and creative ideas to understand higher order phenomena in biological science. Students take advantage of the environment and facilities of the National Institute for Basic Biology. Students conduct a PhD research project with taking a variety of advanced classes and advices from several professors with different specialities. Research fields in this department cover cell biology, developmental biology, environmental biology, neurobiology, symbiotic biology and evolutionary biology with appropriate model organisms and top-end techniques including molecular biology, bioimaging, mathematical science and omics.

Department of Physiological Sciences

Physiology is to clarify the mechanisms of living bodies from both elements (cells and molecules) and systems, and therefore provides important basic knowledge necessary for understanding pathological conditions. Importance of physiology has been much increased upon clarification of genome structures. In this department, students can learn the function of intact organisms in an integrated way from molecular / cellular levels as basic units of living organisms to whole body levels, and are expected to be pioneering researchers in bioscience, neuroscience and medicine.
Based on SOKENDAI’s founding principles and purposes, the School aims to accomplish world-class academic research beyond the borders of conventional academic fields through interdisciplinary approaches. Additionally, we strive to develop transdisciplinary and advanced academic fields and to produce researchers who have broad perspectives and a high level of expertise that is globally competitive.

School of Advanced Sciences

The School of Advanced Sciences is a school with just one department: the Department of Evolutionary Studies of Biosystems. Our mission is to perform research and education in the fields of evolution and science and society. The evolution section focuses on the diversity and evolutionary history of organisms, and consists of four subsections: integrative anthropology, behavioral biology, evolutionary biology and theoretical biology. The science and society section studies the roles and responsibilities of scientists within society, from the viewpoint that science is a social activity of humans. Students carry out Ph.D. research in their own field, but are also required to write a subthesis in the other one: biology students write a subthesis on science and society, and vice versa. The barriers between laboratories have been removed as far as possible, which makes for an intense, intimate educational environment for all students and faculty. We thus hope that all of our students will become competent and well-balanced researchers / professionals.

We also actively promote international and domestic collaborations with other universities and research institutes, to plant the seeds for fruitful future research fields.

Departments under the School

- Department of Evolutionary Studies of Biosystems

Dean

KUTSUKE Nobuyuki

Special field

Animal Behavior
Department of Evolutionary Studies of Biosystems

Vision for future through novel perspectives on life

Studying biological organisms, humans and society from broad perspectives, our department is designed to develop deeper understanding on nature through evolutionary studies of biosystems and meta-consideration of science. Our education and research program focus on the biological phenomena with evolutionary perspectives and the relationship between science, technology, and the society. We thus aim to train independent researchers who can contribute for building sustainable society with their expertise and broad perspectives.

COURSES

■ Major in Biology
  Integrative Anthropology / Evolutionary Biology / Behavioral Biology / Theoretical Biology

■ Major in Science and Society
  Science and Society

For inquiries or information:
E-mail: hayamajimu@ml.soken.ac.jp

1 : Electron micrograph of the visual center of a butterfly, Papilio xuthus
2 : Wild Bornean orangutan in Danum Valley (Malaysia)
3 : Evolutionary simulation of adaptive radiation and extinction: Why do living fossils exist?
4 : Two species of Acropora corals grown from larvae at SOKENDAI
5 : The skull of a Japanese wolf whose genome has been sequenced (Photo: provided by Dr. Naotaka Ishiguro)
6 : Immunostaining of the octopaminergic neurons in the cricket brain
Educational Programs

SOKENDAI Freshman Course

The Freshman Course is an intensive course for newly-enrolled students of SOKENDAI. It is a unique program that intends to provide our new students with fundamental knowledge and skills for a researcher; and, is also an opportunity to learn about the breadth of academia through interactions with peer students and researchers coming from different fields. In the past, the Freshman Course was held for four days long at our Hayama campus; however, amid COVID-19, since 2020, the course is offered online. It consists of three sessions: “Exploring Diversity in Academia (EDA)”, “Researchers and Society” and “Communication Skills for Researchers”.

SOKENDAI

Educational Programs

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SOKENDAI

“Science and Society” Program

School of Advanced Sciences has been leading a program to develop graduate education in “science and society”. Since the university’s primary mission is to train professionals who have leading expertise as well as broader perspectives, we hope our young scientists develop abilities to grasp science as part of social activities and to think critically about social dimensions of scientific practice including social implications and impacts of research activities and infrastructure supporting scientific research. Therefore the program designs and provides courses on “science and society”. As part of the activities, we offer a 1.5-day program, “Researchers and Society”, within the Freshman Course twice a year (in Japanese and English).
Joint School Seminars

SOKENDAI Cultural Forum / School of Cultural and Social Studies

December 4-5, 2021 Online

The forum is an event for academic exchanges organized by SOKENDAI’s only liberal arts department, School of Cultural and Social Studies. Centering “culture” as a common focus, it offers a forum for interdisciplinary exchanges among faculties and students of various departments from inside and outside of the university. As it provides a place to publish their research, the event functions as an educational opportunity for the students to present their research works and achievements and to learn presentation skills at the same time. Through these activities, the project also serves as a gateway for academic interactions between art and science students. Furthermore, by involving students in the planning and organization of the event, students can exercise their planning skills and receive advice and support from faculties on project management through the collaboration, which in turn would facilitate students’ ability as independent researchers.

Multidisciplinary Sciences Cross Talks / School of Multidisciplinary Sciences and School of Life Science (Department of Genetics)

December 20, 2021 and February 16, 2022 Online

At the “Young Researchers Cross Talks” hosted by Research Organization of Information and Systems and co-sponsored by School of Multidisciplinary Sciences, members of School of Multidisciplinary Sciences and Department of Genetics, as well as faculties and students from a variety of fields in SOKENDAI, join together to hold group discussions throughout this overnight event. Through group discussions and presentations on multidisciplinary topics with the presence of local and international faculties and students from various fields of study, students are expected to acquire higher expertise, wider perspectives, and international competency.

Life Science Retreat / School of Life Science & School of Advanced Sciences

December 22-23, 2021 Online

Life Science Retreat invites biology faculties and students for academic interactions, through which it aims to foster talents with a broader grasp of biological science and the capacity to contribute to the development of the field. English is used throughout the conference to improve the participants’ international caliber. Students plan and coordinate research presentations (oral and poster) and opinion exchanges. In the project, student organizers are expected to polish planning skills through the preparation and exercise presentation skills. The 2021 event was held online again, as in 2020, but with more participants than in previous years (140 students and faculty in total), the event also took advantage of the online benefits.
SOKENDAI Special Researcher Program

The SOKENDAI Special Researcher Program is designed to foster future talents in academic research by appointing SOKENDAI students as Special Researchers and providing financial support and support programs for their career paths in the following two categories.

- **Field-Specific Type**
  To support students conducting research in the field of information / AI and the field of “large-scale advanced science” using cutting-edge research facilities in the inter-university research institutes.

- **Pioneering Research Type**
  To support students who independently conduct original and challenging research that is not bound by the framework of existing research fields, departments, schools or other organizations.

The number of SOKENDAI Special Researchers (AY2021)

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>Field-Specific Type</td>
<td>9</td>
<td>(Information and Artificial Intelligence: 3, Large-Scale and Advanced Research: 6)</td>
</tr>
<tr>
<td>Pioneering Research Type</td>
<td>10</td>
<td></td>
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</tbody>
</table>

SOKENDAI Student Dispatch Program

This program encourages SOKENDAI students to seek a short-term research opportunity abroad and/or a long-term collaborative research project in and outside Japan that may lead to their career in the future. The program follows the educational goals of SOKENDAI, “advanced specialties and expertise”, “broad perspective”, and “international competitiveness”, and intends to financially support such research opportunities of SOKENDAI students.

- **2021**
  - **Category 2 (Long-term Abroad Program)**
    Number of students supported: 2
  - **Category 3 (Long-term Domestic Program)**
    Number of students supported: 3

SOKENDAI publication grant for research papers

The publishing cost support of the printing expenses is carried out for the academic paper which was a result of the research activities. This support is applicable only to the students who belong to SOKENDAI. Total 15 publications were supported in 2021.
Society and Community Outreach Activities

Community Programs

We communicate the outcomes of the University’s educational and research activities and give back to the community, with the aim to promote and spread the arts and sciences, as well as promote excellent research findings.

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>June 2021 -</td>
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<tr>
<td>February 2022</td>
<td>SOKENDAI Outreach Activities</td>
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<tr>
<td></td>
<td>Outreach activities centered on collaboration with institutes of</td>
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<td></td>
<td>technology</td>
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<td></td>
<td>Honda, Tohru (Professor, Department of Accelerator Science)</td>
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<tr>
<td>November</td>
<td>SOKENDAI Outreach Activities</td>
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<tr>
<td>7, 14, 21, 2021</td>
<td>Astronauts decoding mysteries of the universe — from the ground and</td>
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<td>the space online</td>
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<td>Ikuta, Chisato (Associate professor, Department of Space and</td>
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<td></td>
<td>Astronautical Science)</td>
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<tr>
<td>November</td>
<td>SOKENDAI Outreach Activities</td>
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<tr>
<td>14-16, 2021</td>
<td>Challenges in the Exploration of the Unknown: Cutting-edge Studies</td>
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<td>Young Researchers Discuss 2021</td>
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<tr>
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<td>Oishi, Masatoshi (Professor, Department of Astronomical Science)</td>
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<tr>
<td>January 19, 2022</td>
<td>SOKENDAI Outreach Activities</td>
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<tr>
<td></td>
<td>“Tan-Q” — Science education and outreach program using compact</td>
</tr>
<tr>
<td></td>
<td>cosmic-ray detector</td>
</tr>
<tr>
<td></td>
<td>Mihara, Satoshi (Assistant professor, Department of Accelerator</td>
</tr>
<tr>
<td></td>
<td>Science)</td>
</tr>
<tr>
<td>November</td>
<td>“Yokoko Academia” with Kanagawa Prefectural Yokosuka High School</td>
</tr>
<tr>
<td>7, 14, 21, 2021</td>
<td>We supported the academic program, “Yokoko Academia” organized by</td>
</tr>
<tr>
<td></td>
<td>Kanagawa Prefectural Yokosuka High School to contribute to</td>
</tr>
<tr>
<td></td>
<td>local educational institutes and foster future generations.</td>
</tr>
<tr>
<td></td>
<td>The school is designated as a Super Science High School by the</td>
</tr>
<tr>
<td></td>
<td>Ministry of Education, Culture, Sports, Science and Technology.</td>
</tr>
</tbody>
</table>

Academic Lectures hosted by the School of Advanced Sciences

From various on-going studies, the School selects themes relating to “life and evolution” and organizes academic lectures that deliver findings from cutting-edge research to the general public and help to create deeper communication with people in the local communities.

- The lectures were not implemented due to the COVID-19 in 2020-2021.

**November 3, 2019**

**Lecture**

Exploring the World of Butterflies: The Forefront of Research on Insects’ Visual Sense

Arikawa, Kentaro (Professor, Department of Evolutionary Studies of Biosystems)

**Lecture**

The Mystery of Dance of Cranes: An Ethological Experiment

Takeda, Kohei (Research fellow, Department of Evolutionary Studies of Biosystems)

For inquiries or information: Evolutionary Studies of Biosystems (ESB) Administrative Section

TEL: 81-46-858-1577, 1595  FAX: 81-46-858-1544  E-mail: office_sendou@ml.soken.ac.jp

JSPS Summer Program

This program, which is carried out in partnership with Japan Society for the Promotion of Science (JSPS), offers opportunities to practice research at inter-university research institutes (IURIs) or universities to young researchers who have undertaken or just completed doctoral programs for two months during the summer.

Orientation program in 2019
Press Release

Research findings in 2021 published on the following papers are press released and subsequently appeared in newspapers and various media:

- **TELESCOPES UNITE IN UNPRECEDENTED OBSERVATIONS OF FAMOUS BLACK HOLE**
- **Spiral morphology in an intensely star-forming disk galaxy more than 12 billion years ago**
- **Population dynamics in the Japanese Archipelago since the Pleistocene revealed by the complete mitochondrial genome sequences**
- **SOKENDAI Fund has been established to support SOKENDAI Students. For the details, please visit our website. https://www.soken.ac.jp/donation/**
- **SOKENDAI Newsletter covers ongoing activity information at the university such as various events in our campuses, research findings released to media, and awards. You can find it online on our university website. (Japanese text only)**

SOKENDAI Fund

SOKENDAI Fund

SOKENDAI Newsletter
The only research center in Japan with "evolution" at its core

Research Center for Integrative Evolutionary Science

The Research Center for Integrative Evolutionary Science aims to develop a new research field, “integrative evolutionary science,” to investigate both organismal evolution at multiple scales and scientific activities themselves and to apply the interdisciplinary expertise to help find solutions to various challenges in society. The Center fosters highly collaborative research among domestic and international communities.

Research Activities

- Development of the body of knowledge on the basis of organismal evolution
- Application of ideas gained from organismal evolution studies to other research fields
- Development of our understanding of science, including its nature and place in society
- Application of interdisciplinary expertise to seek solutions to various challenges in society

Other Activities

- Graduate education and researcher training
- Domestic and international collaborative research
- Outreach

In April 2022, the Research Center for Integrative Evolutionary Science was established on the Hayama Campus. As the only research center in Japan with "evolution" at its core, the center aims to create a new academic field of "Integrated Evolutionary Science" in collaboration with domestic and overseas research institutions.

The word "evolution" evokes the evolution of living organisms, but technology, culture and society also evolve.

We consider evolution in such a broad sense and try to address how the system of organisms was created and changed in the 3.8 billion years-long history of life, how human activities (society, psychology, language, culture, etc.) have changed, how global problems in the Anthropocene progress, and what possible solutions can be comprehensively examined from the perspective of evolution.

The Research Center for Integrative Evolutionary Science thus aims to reconsider the concept of "evolution" and create a new research field "Integrated Evolutionary Science", which not only advances the knowledge system of biology but also incorporates the findings of evolutionary science into human understanding and solutions to social issues.
The Center for Educational Development (CED)

“Advanced specialties and expertise,” “Broad perspective,” and “International competitiveness” are the educational goals of SOKENDAI, and they are the essential competencies for excellent researchers. In order to achieve these goals, we believe that the university-wide education that enhances the quality as an excellent researcher is necessary, in addition to specialized education carried out in each department. The missions of the CED are: to implement and support the university-wide education programs and projects; and, to assist in evaluation and analysis of the educational activities. We contribute to develop researchers rooted in our philosophy.

Implement and provide support for the university-wide education programs and projects

- Implement “Freshman Course”
- Provide support in implementing “SOKENDAI Dispatch Program”
- Provide support in developing the international joint/double degree programs
- CED seminars.

Meet our students’ needs and provide students with support for their learning and activities

- Provide students with support for their learning, research activities, job search and networking

Assist in evaluation and analysis of educational activities

- Conduct surveys and analyze the implementation status of the university-wide and specialized education in each department
- Conduct surveys and analyze students’ research performance and experience

The Center for Academic Information Services

This Center was established to aim at effective management of academic information in SOKENDAI. Based on secure and resilient information infrastructure, it provides various academic information services to researchers and researchers-in-future who are both users and creators of academic information, and supports education, research and administration in SOKENDAI.

Division of Information Services and Technology

Cooperating with the affiliated research institutes and museums, this division manages core information facilities and operates information systems located at the Hayama Campus and its branch.

SOKENDAI Video Conferencing System

The system connects the affiliated Inter-University Research Institutes and JAXA with the university headquarters. It facilitates teleconferencing and supports university activities.

SOKENDAI Cloud Computing System

This private cloud computing system is a basic facility lately developed to promote intra-university education, academic exchange and public relations.

For inquiries or information: Academic Information Service Office

TEL: 81-46-858-1587 FAX: 81-46-858-1633 E-mail: istc.jimu@ml.soken.ac.jp
Hayama Library

Hayama Library gathers, organizes and releases various academic materials to provide high-level research and education and to pioneer advanced academic fields. Hayama Library is open around-the-clock to the faculty and students at the Hayama Campus for reading and borrowing. It collects and makes available standard references and books that can be used in all Departments and Schools, as well as specialized books and journals related to studies in cutting-edge and/or interdisciplinary research fields. Image and video documentation materials are available through in-house facilities. In addition, Hayama Library offers SOKENDAI Institutional Repository, which allows free online access to doctoral dissertations and book/journal publications at the University, as well as academic papers published by the faculty and students at the Hayama Campus. The Library also provides database services, including OPAC (Online Public Access Catalog) for books and journals held by the Library. These books and databases are also available to the general public. The venue effectively functions both as a place to collect research resources and a studying space.

SOKENDAI staff and neighborhood residents can borrow books belonging to Kanagawa Prefectural Library (KL-NET Service). Furthermore, since 2015, it has been serving as a service counter of the National Diet Library to enable users to browse digital materials belonging to the National Diet Library.

Number of academic materials available at the Library

<table>
<thead>
<tr>
<th>Type</th>
<th>Japanese</th>
<th>Non-Japanese</th>
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</thead>
<tbody>
<tr>
<td>Book</td>
<td>appx. 23,300</td>
<td>appx. 24,800</td>
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<tr>
<td>Journal</td>
<td>appx. 140</td>
<td>appx. 330</td>
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<tr>
<td>E-book</td>
<td>appx. 145,300</td>
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<tr>
<td>E-journal</td>
<td>appx. 5,460</td>
<td></td>
</tr>
<tr>
<td>Institutional Repository</td>
<td>appx. 5,140</td>
<td></td>
</tr>
</tbody>
</table>

As of April 1, 2022

University Library

The University Library consists of the Hayama Library and IURI libraries. The University Library gathers, organizes, and accumulates electronic materials. Under close cooperation with the Hayama Library and IURI libraries, the University Library aims to promote the education/research activities by performing required activities for the facilitation of the use of academic information. It offers a large number of e-journals and e-books so that faculty and students of IURIs dotted around the country can use these materials in common. In addition, the university introduces and offers the world's largest bibliographic/citation database “Scopus”.

For inquiries or information: University Library
TEL: 81-46-858-1528  FAX: 81-46-858-1607  E-mail: lib@ml.soken.ac.jp

Electronic Journals


※ In addition to the above, electronic journals for internal use at the Hayama Campus are available.
http://www.lib.soken.ac.jp
DATA BOOK

Nobel Prize Laureates from SOKENDAI

Professor Emeritus, School of High Energy Accelerator Science

The 2008 Nobel Prize in Physics for the discovery of the origin of the broken symmetry which predicts the existence of at least three families of quarks in nature

1999.4-2004.3 Professor, School of Mathematical and Physical Science
2004.4-2006.3 Professor, School of High Energy Accelerator Science
2003.4-2004.4 Chair, Department of Particle and Nuclear Physics
2008 Order of Culture

Kobayashi, Makoto
Professor Emeritus, SOKENDAI / Honorary Professor Emeritus, High Energy Accelerator Research Organization (KEK)

Professor Emeritus, School of Life Science

The 2016 Nobel Prize in Physiology or Medicine for his discoveries of mechanisms for autophagy

1996.10-2009.3 Professor, School of Life Science
2008.4-2009.3 Dean, School of Life Science
2006 Japan Academy Prize
2016 Order of Culture

Ohsumi, Yoshinori
Professor Emeritus, SOKENDAI / National Institute for Basic Biology

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2006 Japan Academy Prize
2016 Order of Culture

Ohsumi, Yoshinori
Professor Emeritus, SOKENDAI / National Institute for Basic Biology
## Recipients of Award

### Orders and Medals of Honor (after 2015)

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Prize</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arikawa, Kentaro(Professor)</td>
<td>Research Center for Integrative Evolutionary Science</td>
<td>Medal with Purple Ribbon (2022)</td>
</tr>
<tr>
<td>Hasebe, Mitsuyasu(Professor)</td>
<td>Dept. of Basic Biology</td>
<td>Medal with Purple Ribbon (2022)</td>
</tr>
<tr>
<td>Ohmori, Kenji(Professor)</td>
<td>Dept. of Functional Molecular Science</td>
<td>Medal with Purple Ribbon (2021)</td>
</tr>
<tr>
<td>Komatsu, Kazuhiko(Professors Emeritus)</td>
<td>Dept. of Japanese Studies</td>
<td>The Order of the Sacred Treasure, Gold and Silver Star (2020)</td>
</tr>
<tr>
<td>Nagamine, Kanetada(Professors Emeritus)</td>
<td>Dept. of Particle and Nuclear Physics</td>
<td>The Order of the Sacred Treasure, Gold Rays with Neck Ribbon (2020)</td>
</tr>
<tr>
<td>Kodaira, Keiichi (Professors Emeritus, Former President)</td>
<td>Dept. of Astronomical Science</td>
<td>The Order of the Sacred Treasure, Gold and Silver Star (2017)</td>
</tr>
<tr>
<td>Kawai, Maki (Professor)</td>
<td>Dept. of Functional Molecular Science</td>
<td>Medal with Purple Ribbon (2017)</td>
</tr>
<tr>
<td>Ohsumi, Yoshinori (Professors Emeritus)</td>
<td>Dept. of Basic Biology</td>
<td>Order of Culture (2016)</td>
</tr>
<tr>
<td>Ohta, Tomoko (Professors Emeritus)</td>
<td>Dept. of Genetics</td>
<td>Order of Culture (2016)</td>
</tr>
<tr>
<td>Suematsu, Yasuharu (Professors Emeritus)</td>
<td>Dept. of Informatics</td>
<td>Order of Culture (2015)</td>
</tr>
</tbody>
</table>

### Person of Cultural Merit (after 2015)

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Research Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kawai, Maki (Director General)</td>
<td>Dept. of Institute for Molecular Science</td>
<td>surface science (2021)</td>
</tr>
<tr>
<td>Suzuki Atsuo(Professors Emeritus)</td>
<td>Dept. of Particle and Nuclear Physics</td>
<td>Particle physics (2021)</td>
</tr>
<tr>
<td>Hotta, Yoshiki(Professors Emeritus)</td>
<td>Dept. of Genetics</td>
<td>Genetics(2020)</td>
</tr>
<tr>
<td>Komatsu, Kazuhiko (Professor)</td>
<td>Dept. of Japanese Studies</td>
<td>Ethnology (2016)</td>
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</tbody>
</table>

### Japan Academy Prize (after 2015)

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Year</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kawai, Maki (Professor)</td>
<td>Dept. of Functional Molecular Science</td>
<td>2020</td>
<td>Single Molecule Spectroscopy Elucidating Chemical Reactions at Solid Surfaces</td>
</tr>
<tr>
<td>Kitsuregawa, Masaru (Professor)</td>
<td>Dept. of Informatics</td>
<td>2020</td>
<td>Pioneering Research in the Theory and Application of Large-Scale High-performance Database Systems</td>
</tr>
<tr>
<td>Tsuneta, Saku (Professor)</td>
<td>Dept. of Astronomical Science</td>
<td>2019</td>
<td>Studies of Solar Magnetohydrodynamic Phenomena through Satellite Observations</td>
</tr>
<tr>
<td>Nagamine, Kanetada (Professors Emeritus)</td>
<td>Dept. of Materials Structure Science</td>
<td>2019</td>
<td>Exploration of Muon Radiography and its Application to Non-destructive Studies of Large-scale Matters</td>
</tr>
<tr>
<td>Takasaki, Fumihiko (Professors Emeritus)</td>
<td>Dept. of Particle and Nuclear Physics</td>
<td>2017</td>
<td>Studies of CP Violation in the B-Meson System</td>
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### Japan Academy Medal Prize (after 2015)

<table>
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<tr>
<th>Name</th>
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<th>Year</th>
<th>Subject</th>
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<tbody>
<tr>
<td>Koibuchi, Michihiro (Associate Professor)</td>
<td>Dept. of Informatics</td>
<td>2020</td>
<td>Pioneering Research on Introducing Randomness for Interconnection Networks on Parallel Computer Systems</td>
</tr>
<tr>
<td>Ishizaki, Akihito(Professor)</td>
<td>Dept. of Structural Molecular Science</td>
<td>2019</td>
<td>Theoretical Development of Quantum Dissipative Dynamics and its Application to Primary Processes of Photosynthesis</td>
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</table>

### JSPS Ikushi Prize (after 2015)

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Year</th>
<th>Research Theme</th>
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<tbody>
<tr>
<td>Kariyazono, Shiho</td>
<td>Dept. of Evolutionary Studies of Biosystems</td>
<td>2017</td>
<td>The genetic basis and the biological role of fluorescent proteins in Acropora species</td>
</tr>
<tr>
<td>Kitamura, Daichi</td>
<td>Dept. of Informatics</td>
<td>2016</td>
<td>Multichannel blind music source separation based on nonnegative matrix factor source model</td>
</tr>
</tbody>
</table>

### SOKENDAI Award

SOKENDAI Award is founded in 2018 to commend the students who have accomplished their outstanding research and have been conferred their degrees with the excellent doctoral thesis.

#### The recipients of the 7th SOKENDAI Award (September 28, 2021)

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Doctoral thesis</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHAN HEJUN</td>
<td>Dept. of Japanese Studies</td>
<td>Transformation of Urban Space in Modern Qingdao: Continuity and Discontinuity of Japanese Elements</td>
</tr>
<tr>
<td>LEE JHYUN</td>
<td>Dept. of Functional Molecular Science</td>
<td>Study of Charge Recombination in Organic Solar Cells</td>
</tr>
<tr>
<td>RAINARDING WANISON</td>
<td>Dept. of Accelerator Science</td>
<td>The Cryogenic Parallel Heat Pipe System for Application to Conduction Cooled Superconducting Magnet</td>
</tr>
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#### The recipients of the 8th SOKENDAI Award (March 24, 2022)

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Doctoral thesis</th>
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</thead>
<tbody>
<tr>
<td>KOJIMA Keisuke</td>
<td>Dept. of Japanese Literature</td>
<td>Academic historical study of &quot;Gukansho&quot;</td>
</tr>
<tr>
<td>ITO Kei</td>
<td>Dept. of Astronomical Science</td>
<td>Star Formation Activity of Galaxies and its Relationship to Environment in Distant Universe</td>
</tr>
<tr>
<td>SUZUKI Yuta</td>
<td>Dept. of Materials Structure Science</td>
<td>Crystal Structure Analysis and Visualization of Materials Space Using Machine Learning</td>
</tr>
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</table>
### Academic Staff (As of May 1, 2022)

<table>
<thead>
<tr>
<th>Category</th>
<th>Member of the Board</th>
<th>Professor</th>
<th>Associate Professor</th>
<th>Lecturer</th>
<th>Assistant Professor</th>
<th>Others</th>
<th>Secretariat</th>
<th>Total</th>
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<tbody>
<tr>
<td>President</td>
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<tr>
<td>Executive Director</td>
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<tr>
<td>Auditor</td>
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<tr>
<td>Vice President</td>
<td>(1)</td>
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</tr>
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### School of Cultural and Social Studies

#### Regional Studies
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Comparative Studies
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Japanese Studies
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Japanese History
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Japanese Literature
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Subtotal
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

### School of Physical Sciences

#### Structural Molecular Science
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Functional Molecular Science
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Astronomical Science
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Fusion Science
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Space and Astronautical Science
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Subtotal
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

### School of High Energy Accelerator Science

#### Accelerator Science
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Materials Structure Science
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Particle and Nuclear Physics
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Subtotal
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

### School of Multidisciplinary Sciences

#### Statistical Science
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Polar Science
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Informatics
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Subtotal
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

### School of Life Science

#### Genetics
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Basic Biology
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Physiological Sciences
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Subtotal
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

### School of Advanced Sciences

#### Evolutionary Studies of Biosystems
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Subtotal
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Research Center for Integrative Evolutionary Science
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### The Center for Educational Development
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### The Center for Academic Information Services
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Future Planning Division
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Secretariat etc.
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

#### Total
- Doctoral Program
  - 3-year
  - 2-year
  - 1-year

### Students (As of May 1, 2022)

<table>
<thead>
<tr>
<th>School Department</th>
<th>1st year</th>
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<th>3rd year</th>
<th>4th year</th>
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<th>Total</th>
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<tbody>
<tr>
<td>School of Cultural and Social Studies</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Regional Studies</td>
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<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
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<tr>
<td>Comparative Studies</td>
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<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>15</td>
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<tr>
<td>Japanese Studies</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
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Notes:
- The number of female students and international students is included in the total.
- The School of High Energy Accelerator Science does not have a specific quota of admission but gives examinations.

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The Graduate University for Advanced Studies, SOKENDAI

38 The Graduate University for Advanced Studies, SOKENDAI
### Applicants and Enrollments

**Admission of the 2022**

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* a few people

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- Muroran Institute of Technology
- Kitami Institute of Technology
- Tohoku University
- Yamagata University
- University of Tsukuba
- Chiba University
- The University of Tokyo
- Tokyo Gakugei University
- Tokyo University of Arts
- Tokyo Institute of Technology
- Odanomizu University
- The University of Electro-Communications
- University of Yamanashi
- Shinshu University
- Gifu University
- Shizuoka University
- Nagoya University
- Kyoto University
- Osaka University
- Hiroshima University
- Kochi University
- Kyushu University
- Nagasaki University
- University of Miyazaki
- Yokohama City University
- Osaka Prefecture University
- The University of Shimane

**Japanese Private Universities**
- Kindai University
- Keio University
- Shibaura Institute of Technology
- Tokyo University of Science
- Doshisha University
- Nihon University
- Hosei University
- Meio University
- Meiji University
- Meijo University
- Rikkyo University
- Ritsumeikan University
- Waseda University

**Foreign Universities**
- Abdul Wali Khan University Mardan Pakistan
- Mansoura University
- The Pennsylvania State University
- University of Campinas
- University of Ulster
- University of Western Ontario
- East China Normal University
- Inner Mongolia University
- Nanjing Agricultural University
- University of Chinese Academy of Sciences

**Japanese Public Universities**
- National Institute of Technology, Akita College
Degrees Awarded

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※1 The quota of admission is the one in 2022. (The number in parentheses is the quota of 3-year doctoral course. The School of High Energy Accelerator Science does not have a specific quota of admission but accepts only a few students.)

※2 [ ] : The number of those who were granted the Ph.D. by way of Dissertation (not included in the total).

※3 [ ] : The number of those who were granted the Ph.D. within a specified time after leaving the university.

※4 The School of Physical Sciences.

Requirements for completion of the Ph.D. Program

Students are required to be enrolled in SOKENDAI for more than 3 years (five-year Program students are required to be enrolled for more than 5 years), earn necessary credits prescribed at each department, take necessary research guidance for a doctoral thesis, and pass an examination for a doctoral thesis. Students who are recognized to have achieved great performance, can graduate in shorter term.

The Graduate University for Advanced Studies, SOKENDAI

School of Physical Sciences
School of High Energy Accelerator Science
School of Multidisciplinary Sciences
School of Life Science
School of Advanced Science
School of Cultural and Social Studies

5-year Doctoral Program
1st year
2nd year
3rd year
4th year
5th year

3-year Doctoral Program
1st year
2nd year
3rd year

Master’s Program
2 years
2 years or more experience in research

Undergraduate Program
4 years
Career Tracking / Data of the 2021

Universities/Research institutes, etc
- Nagoya University
- High Energy Accelerator Research Organization (KEK)
- Okayama University
- Meiji University
- Korean Advanced Institute of Science and Technology (KAIST)
- Hoshi University
- Ulsan National Institute of Science and Technology
- Texas A&M University
- Tsung-Dao Lee Institute
- Australian National University
- Ministry of Education, Culture, Sports, Science and Technology (MEXT)
- National Institute for Fusion Science
- The University of Tokyo
- RIKEN
- National Institute of Genetics
- Kyushu University
- Hefei University of Technology
- National Institute of Health (NIH)
- Kyoto University
- Hyogo University of Teacher Education
- University of Oxford
- Okinawa Institute of Science and Technology Graduate University
- National Institute of Informatics
- Tokyo University of Technology
- National Institute for Physiological Sciences
- Gunma Prefecture

Private companies/Public service corporation
- MOTIV RESEARCH CO.
- Hitachi, Ltd.
- CIVIC POWER Inc.
- CHUGAI PHARMACEUTICAL CO., LTD.
- SoftBank Corp.
- Sony Interactive Entertainment LLC
- DENSO Corporation
- KINTO Technologies Corporation
- HUAWEI
- TOYOTA MOTOR CORPORATION
- Otsuka Pharmaceutical Co., Ltd.
- Kyowa Kirin Co., Ltd.
- Fast Accounting Inc.
- Toshiba Infrastructure Systems & Solutions Corporation
- Nakajima Software Engineering Co., Ltd.
- Space company in Tokyo
- TOME R&D Inc.
- JAPAN PROCESS DEVELOPMENT CO., LTD.
- Marine Works Japan Ltd.

※ Breakdown of the total
The number of those who completed a program and obtained a degree: 78
The number of those who left the university after obtaining the credits required for completion of a program in the relevant academic year: 21
## International Exchange

### Number of International Students by Department

(As of May 1, 2022)

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<th>School</th>
<th>Department</th>
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<th>2nd year</th>
<th>3rd year (1st year**)</th>
<th>4th year (2nd year**)</th>
<th>5th year (3rd year**)</th>
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*1 Female Students in Total  *2 MEXT Scholarship Students in Total  ** The year of a 3-year doctoral Program.
SOKENDAI is promoting academic exchange and collaboration with other domestic and foreign universities through mutual agreements.

### Academic Agreement with Foreign Universities

<table>
<thead>
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<th>Country of Region</th>
<th>University/Institute</th>
<th>Corresponding Department</th>
<th>Date of Agreement</th>
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<tr>
<td>Republic of Korea</td>
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<tr>
<td>France</td>
<td>Université Paris-Est</td>
<td>All Schools</td>
<td>February 28, 2020</td>
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<td>Peter the Great St. Petersburg Polytechnic University</td>
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<td>Korea University College of Medicine</td>
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### Academic Agreement with Domestic Universities

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<td>Department of Physiological Sciences of School of Life Science</td>
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Academic Agreement with Universities in Kanagawa

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<td>Seike University</td>
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<td>April 1, 2010</td>
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<tr>
<td>Shonan Institute of Technology</td>
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<td>April 1, 2015</td>
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<tr>
<td>Tokyo Institute of Medicine</td>
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<td>April 1, 2016</td>
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<td>Waseda University</td>
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<tr>
<td>Dokkyo University</td>
<td></td>
<td>April 1, 2018</td>
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<tr>
<td>Yokohama Sai University</td>
<td></td>
<td>April 1, 2019</td>
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</table>

FY2022 Income and Expenditures Budget (Yen, Thousand)

- **Total Budget Income**: 2,311,377

- **Total Expenditures Budget**: 2,311,377

- **Subsidy for Support for Pioneering Research Initiative by the Next Generation**: 43,500 (1.9%)

- **Subsidy for University Fellowship Creation Project for Innovation in Science and Technology**: 45,933 (2.0%)

- **National Institution for Academic Degrees and Qualifications**: 7,000,000 (0.3%)

- **Miscellaneous income**: 1,162 (0.1%)

- **Facilities subsidy for the national university corporations**: 14,337 (0.6%)

- **Income from tuition, admission, and examination fees**: 201,569 (8.7%)

- **Elimination of appropriated surplus**: 128,456 (5.6%)

**Research expenses for industry-academia collaborative research and donations operating expenses**: 46,828 (2.0%)

**Facility maintenance costs**: 7,000 (0.3%)

**General and administrative expense**: 321,916 (13.9%)

**Education and research support expenses**: 157,123 (6.8%)

**Research expenses**: 54,440 (2.4%)

[Hayama campus] Shonan Village, Hayama, Kanagawa, 240-0190 Japan

TEL.: 81-46-658-1500
SOKENDAI renewed our logo as we celebrate the 30th anniversary of the university’s foundation in 2018. SOKENDAI represents a unique educational structure that provides intellectual knowledge at the highest standards. The ethos of the brand is mirrored through the visualization of a line ‘Intelligence Connector’ which symbolizes a platform for the multiple numbers of research centers across the world that form the diverse educational platform of SOKENDAI.

Cover image: Electron micrograph of the Papilio lamina. A butterfly, Papilio xuthus, has the best color discrimination ability in the entire animal kingdom: they can tell apart light wavelengths as fine as 1 nm in a wide range spanning from ultraviolet to red. Their eyes bear six spectral receptor classes, which mutually inhibit in the first optic ganglion, the lamina, thus providing the basis of color vision. The background image is an electron micrograph of the lamina’s cross-section, showing synaptic connections among receptors and secondary neurons. The overlayed pattern illustrates the receptor’s “rhabdom” that captures light energy. Such high-magnification microscopy invites us to a visual experience that is entirely different from what we usually see with our naked eyes.