

2020-2021

The Graduate
University
for Advanced
Studies, SOKENDAI

Cultural and Social Studies

Regional Studies Comparative Studies Japanese Studies Japanese History Japanese Literature

High Energy Accelerator Science

Accelerator Science Materials Structure Science Particle and Nuclear Physics

Life Science

Genetics Basic Biology Physiological Sciences

Physical Sciences

Structural Molecular Science Functional Molecular Science Astronomical Science Fusion Science Space and Astronautical Science

Multidisciplinary Sciences

Statistical Science Polar Science Informatics

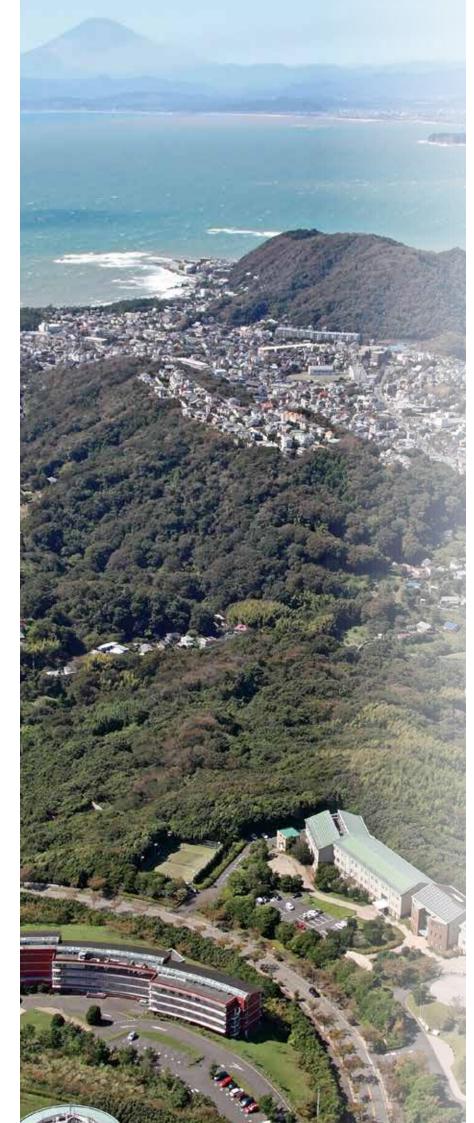
Advanced Sciences

Evolutionary Studies of Biosystems

S O K E N D A I

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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 specialities 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. Acquiring these abilities in the course of writing a doctoral dissertation can be hard. Still, I hope students will endeavor to gain this broader perspective at every opportunity by taking full advantage of SOKENDAI's unique characteristics, including its various departments that collectively encompass a broad range of intellectual fields, from energy, materials, space and life to information, history and culture.

Universities and basic research in Japan today face challenging circumstances. Likewise, there are issues regarding SOKENDAI's future growth as an institution of higher learning that need our serious attention. Yet, 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, 2020

M. Harry

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

Drofile

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.

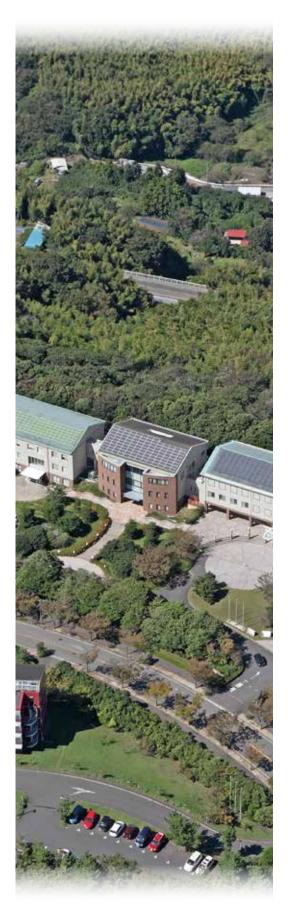
She earned her Ph.D. degree in Anthropology from Graduate School of Science, University of Tokyo.

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 2008, she became President of the Human Behavior and Evolution Society of Japan and received the Hidaka Award from the Japan Ethological Society in 2012.

Main features of The Graduate University for Advanced Studies, SOKENDAI



Unique doctoral programs

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

Fostering advanced specialties and expertise

- •Specialized education programs in diverse fields
- •Supervision by leading researchers from each field
- •Top-level collection of archives, equipment and facilities provided by Inter-University Research Institutes

Broadening perspective

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

Achieving international competitiveness

- •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

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

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.

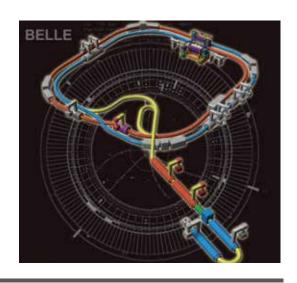
Have you ever heard, either on TV or in a newspaper, of the Subaru telescope, on the island of Hawaii, or of the observation vessel, SHIRASE, heading to the South Pole? Both of them are related to Inter-University Research Institutes, affiliated with SOKENDAI; the Subaru telescope was established by 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.

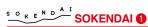


Advanced Specialist Education in Research Facilities and General Education Cultivating Broad Views

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**



The Center for Educational Development The Center for Academic Information Services University Library

Department of Evolutionary Studies of Biosystems

(School of Advanced Sciences)

[Hayama campus] Shonan Village, Hayama, Kanagawa, 240-0193

Japan

TEL: 81-46-858-1500 FAX: 81-46-858-1542

URL: https://www.soken.ac.ip/en/

[Tokyo branch]

Campus Innovation Center 4F, 3-3-6 Shibaura,

Minato-ku, Tokvo, 108-0023 TFI: 81-3-5440-9116



National Institutes for the Humanities National Museum of Ethnology 2

Department of Regional Studies Department of Comparative Studies (School of Cultural and Social Studies) 10-1 Senri Expo Park, Suita, Osaka, 565-8511

TEL: 81-6-6878-8236

URL: https://www.minpaku.ac.jp/



National Institutes for the Humanities International Research Center for Japanese Studies 3

Department of Japanese Studies (School of Cultural and Social Studies) 3-2 Oeyama-cho, Goryo, Nishikyo-ku, Kyoto, 610-1192

TEL: 81-75-335-2222

URL: http://www.nichibun.ac.jp/en/



National Institutes for the Humanities National Museum of Japanese History 4

Department of Japanese History (School of Cultural and Social Studies) 117 Jonai-cho, Sakura-shi, Chiba, 285-8502

TEL: 81-43-486-0123

URL: https://www.rekihaku.ac.jp/



National Institutes for the Humanities National Institute of Japanese Literature 6

Department of Japanese Literature (School of Cultural and Social Studies) 10-3, Midori-cho, Tachikawa, Tokyo, 190-0014 Japan

TEL: 81-50-5533-2900 URL: https://www.nijl.ac.jp/en/



National Institutes of Natural Sciences Institute for Molecular Science 6

Department of Structural Molecular Science

Department of Functional Molecular Science

(School of Physical Sciences)

URL: https://www.ims.ac.jp/en/

38 Nishigonaka, Myodaiji, Okazaki, 444-8585

TEL: 81-564-55-7000



National Institutes of Natural Sciences National Institute for Basic Biology 7

Department of Basic Biology (School of Life Science)

URL: https://www.nibb.ac.jp/en/

38 Nishigonaka, Myodaiji, Okazaki, 444-8585 Japan

TEL: 81-564-55-7000

National Institutes of Natural Sciences NIP/ National Institute for Physiological Sciences (3)

Department of Physiological Sciences (School of Life Science)

URL: https://www.nips.ac.jp/eng/ 38 Nishigonaka, Myodaiji, Okazaki, 444-8585

TEL: 81-564-55-7000



National Institutes of Natural Sciences
National Astronomical Observatory

9

Department of Astronomical Science

(School of Physical Sciences) 2-21-1 Osawa, Mitaka, Tokyo, 181-8588 Japan

TEL: 81-422-34-3600 URL: https://www.nao.ac.jp/

National Astronomical Observatory (Mizusawa) 10

2-12 Hoshigaoka, Mizusawa, Oshu, Iwate, 023-0861 Japan TEL: 81-197-22-7111

National Astronomical Observatory (Nobeyama) 1

462-2 Nobeyama, Minamimakimura, Minamisaku, Nagano, 384-1305 Japan TEL: 81-267-98-4300

National Astronomical Observatory (Hawai'i) (2)

650 North A'ohoku Place, Hilo, Hawaii 96720

TFI: 1-808-934-7788

National Astronomical Observatory (Chile) (B

Alonso de Cordova 3788, Office 61B Vitacura, Santiago, Chile

TEL: 56-2-2656-9253



National Institutes of Natural Sciences National Institute for Fusion Science (4)

Department of Fusion Science

(School of Physical Sciences) 322-6, 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 (5)

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: http://www.isas.jaxa.jp/en/



High Energy Accelerator Research (C) Organization Tsukuba Campus (6)

Accelerator Laboratory · Applied Research

Department of Accelerator Science (School of High Energy Accelerator Science) Institute of Materials Structure Science

Department of Materials Structure

(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: 81-29-864-1171 or 5128

URL: http://www.kek.ip/

Tokai Campus 🕡

203-1 Oaza-Shirakata, Tokai-Mura, Nakagun, Ibaraki, 319-1106 Japan



Research Organization of Information and Systems Statistical Mathematics (8)

Department of Statistical Science (School of Multidisciplinary Sciences) 10-3 Midori-cho, Tachikawa, Tokyo, 190-8562

Japan TEL: 81-50-5533-8500

URL: https://www.ism.ac.jp/index_e.html



of Polar Research (9) 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.nipr.ac.jp/

Syowa Station (Antarctica) @

Department of Polar Science (School of Multidisciplinary Sciences)



Research Organization of Information and Systems National Institute of Informatics 2

Department of Informatics

(School of Multidisciplinary Sciences) 2-1-2 Hitotsubashi, Chiyoda-ku, Tokyo, 101-8430 TEL: 81-3-4212-2110

URL: https://www.nii.ac.jp/en/

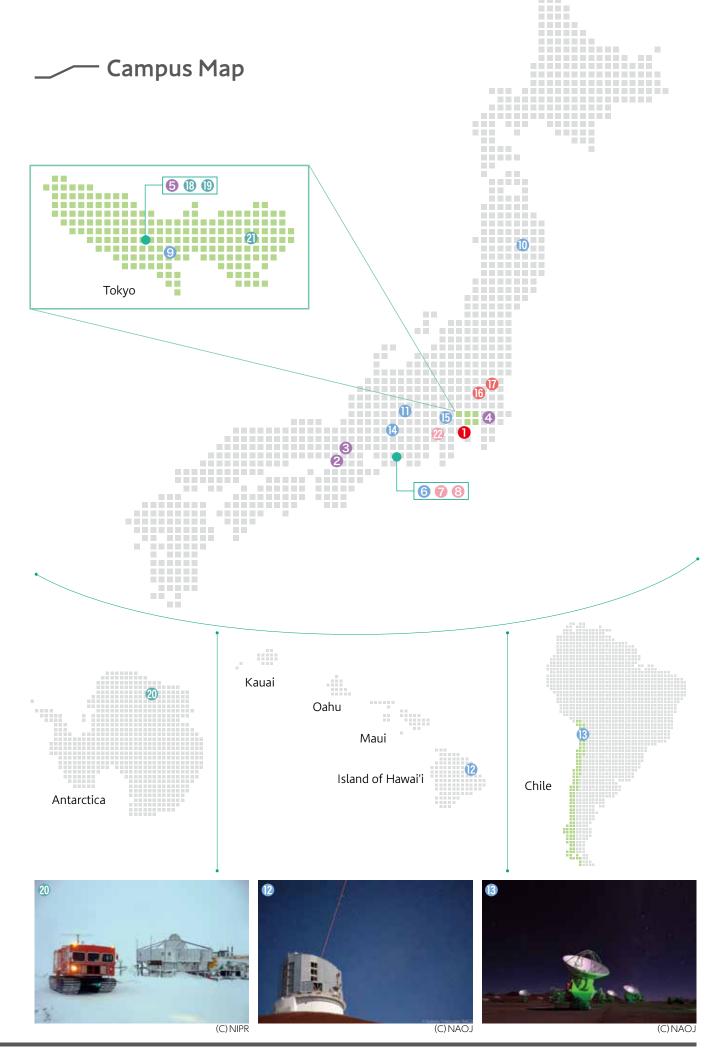


Research Organization of Information and Systems National Institute of Genetics 22

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/



History

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June 1982		
April 1986		ots of a ts of an lated to tigation nool for
March 1987		mary of
May 1987		
July 1987		on the
April 1988		
May 1988	The "Law to amend part of the National School Establishmen (Law No. 63, 1988), which stipulates the establishment of the G University for Advanced Studies, is announced and enacted.	
eptember 1988		oaration
October 1988		
	School of Mathematical and Physical Science Department of Statistical Science Department of Accelerator Science Department of Synchrotron Radiation Science Department of Structural Molecular Science Department of Functional Molecular Science (The university commences matriculation from April 1989.) Dr. Nagakura is appointed as the first President of the University.	ience
April 1989		Studies.
January 1990		ity.
April 1991		d.
April 1992	The Department of Japanese Studies (School of Cultural and Studies), and the Departments of Astronomical Science and Science (School of Mathematical and Physical Science) are estal matriculation begins.	Fusion
April 1993		Physical
February 1994	Land in Hayama, Kanagawa (27,000m2), is donated by Mitsui F Ltd. to allow the construction of the University's central admini office, as a result of the mediation services of the Kanagawa pre government.	stration
March 1994		s at the
June 1994		
February 1995		
April 1995		riwaki is
April 1997		
April 1998		ment of
	. I Construction of the Colored of Advanced Colored building for a	

April 1999	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 Science; matriculation begins in both new Departments. The School of Advanced Sciences commences matriculation.
June 1999	Construction completed on the research building for the School of Advanced Sciences.
April 2001	Dr.Keiichi 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.
April 2002	The Department of Informatics established in the School of Mathematical and Physical Science; matriculation begins.
April 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. Sc. Keiichi Kodaira is reappointed as the President of the University. The School of Mathematical and Physical Science 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.
April 2013	Information Services and Technology Center is established.
April 2014	Dr. Yasunobu Okada has been appointed as the fifth President.
July 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)

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

Organization



Administrative Board

As of April 1, 2020

President Hasegawa, Mariko **Executive Director** Watanabe, Yoshihito **Executive Director** Nagata, Takashi Ogawa, Yujiro **Executive Director** Auditor Okamura, Sadanori Auditor Nakamoto, Fuminori

Vice President Nagata, Takashi

School of Cultural and Social Studies

Dean Ikeya, Kazunobu Chair, Department of Regional Studies Kashinaga, Masao Chair, Department of Comparative Studies Suzuki, Motoi Chair, Department of Japanese Studies Inaga, Shigemi Chair, Department of Japanese History Higuchi, Takehiko Chair, Department of Japanese Literature Fujizane, Kumiko

School of Physical Sciences

Dean Namiki, Noriyuki Aono, Shigetoshi Deputy Dean Chair, Department of Structural Molecular Science Yokoyama, Toshihiko Chair, Department of Functional Molecular Science Kawai, Maki Chair, Department of Astronomical Science Tsuneta, Saku Chair, Department of Fusion Science Takeiri, Yasuhiko Chair, Department of Space and Astronautical Science Dotani, Tadayasu

School of High Energy Accelerator Science

Iso, Satoshi Dean Deputy Dean Honda, Tohru Chair, Department of Accelerator Science Kamitani, Takuya Chair, Department of Materials Structure Science Kumai, Reiji Chair, Department of Particle and Nuclear Physics Nishimura, Jun

School of Multidisciplinary Sciences

Dean Miyasato, Yoshihiko Deputy Dean Motoyama, Hideaki Chair, Department of Statistical Science Fujisawa, Hironori Chair, Department of Polar Science Kadokura, Akira Chair, Department of Informatics Sugimoto, Akihiro

School of Life Science

Dean Fujimori, Toshihiko Deputy Dean Niimi, Teruyuki Chair, Department of Genetics Hanaoka, Fumio Chair, Department of Basic Biology Agata, Kiyokazu Chair, Department of Physiological Sciences Nabekura, Junichi

School of Advanced Sciences

Sasaki, Akira Dean Deputy Dean Innan, Hideki Chair, Department of Evolutionary Studies of Biosystems Arikawa, Kentaro

University Library

Watanabe, Yoshihito **Acting Director Deputy Director** Yagyu, Shuji

■ The Center for Educational Development

Nagata, Takashi

■ The Center for Academic Information Services

Acting Director Innan, Hideki

Future Planning Division

Watanabe, Yoshihito Manager

Administration Bureau

Oba, Takeshi Secretary-General Manager, General Planning Division Yamashita, Katsuhiro Manager, General Affairs Division Harada, Atsuko Manager, Financial Affairs Division lizuka, Yasushi Manager, Academic and Students Affairs Division Fujiwara, Masatoshi

President

Executive Director

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 functions 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, 2020

Executive Director Dean, School of Cultural and Social Studies Dean, School of Physical Sciences Dean, School of High Energy Accelerator Science Dean, School of Multidisciplinary Sciences

Executive Director (Executive Vice President)

Dean, School of Life Science Dean. School of Advanced Sciences

Chair, Department of Comparative Studies Chair, Department of Japanese Studies Chair, Department of Japanese History Chair, Department of Japanese Literature Chair, Department of Functional Molecular Science Chair, Department of Astronomical Science Chair, Department of Fusion Science Chair, Department of Space and Astronautical Science Hasegawa, Mariko Watanabe, Yoshihito Nagata, Takashi Ogawa, Yujiro

Ikeya, Kazunobu Namiki, Noriyuki Iso, Satoshi Miyasato, Yoshihiko Fujimori, Toshihiko Sasaki, Akira

Suzuki, Motoi Inaga, Shigemi Higuchi, Takehiko Fujizane, Kumiko Kawai, Maki Tsuneta, Saku Takeiri, Yasuhiko Dotani, Tadayasu

Vice Chair, Department of Accelerator Science Chair, Department of Materials Structure Science Professor, Department of Particle and Nuclear Physics Chair, Department of Statistical Science Chair, Department of Polar Science Chair, Department of Informatics Chair, Department of Genetics Chair, Department of Basic Biology Chair, Department of Physiological Sciences Chair, Department of Evolutionary Studies of Biosystems

Professor, Department of Comparative Studies Professor, Department of Japanese History Professor, Department of Accelerator Science Professor, Department of Accelerator Science Professor, Department of Materials Structure Science Professor, Department of Polar Science Counselor Counselor Counselor

Michizono, Shinichiro Kumai. Reiii Tokushuku, Katsuo Fujisawa, Hironori Kadokura, Akira Sugimoto, Akihiro Hanaoka, Fumio Agata, Kiyokazu Nabekura, Junichi Arikawa, Kentaro

Yoshida, Kenji Nishitani, Masaru Yamaguchi, Seiya Sasaki, Shinichi Kosugi, Nobuhiro Nakamura, Takuji Inoue, Shoichi Robert Campbell Tsubaki, Hiroe

Administrative Council

- As of April 1, 2020

Internal representatives

President **Executive Director** Executive Director (Executive Vice President) **Executive Director**

Secretary-General

Hasegawa, Mariko Watanabe, Yoshihito Nagata, Takashi Ogawa, Yujiro

Oba, Takeshi

External academics and specialists

Project Professor, Institute for Future Initiatives, The University of Tokyo Arinobu, Mutsuhiro

Director, Nagoya University Asian Satellite Campuses Institute Isoda, Fumio

Inose, Kumie Professor, Faculty of Letter, Konan University Director General, National Institute of Informatics,

Kitsuregawa, Masaru

Senior Corporate Adviser, Mitsubishi Estate Co., Ltd.

Kimura, Keiji

Executive Director, Institute of Space and Astronautical Science, Kuninaka, Hitoshi Japan Aerospace Exploration Agency President, National Institutes of Natural Sciences

Komori, Akio

Fellow, Toyota Physical and Chemical Research Institute Nishikawa, Keiko

President, National Institutes for the Humanities

Hirakawa, Minami

President, Research Organization of Information and Systems Fujii, Ryoichi

Director General, High Energy Accelerator Research Organization Yamauchi, Masanori

Monte Cassim

President, Shizenkan University Graduate School of Leadership & Innovation

Research and Education System

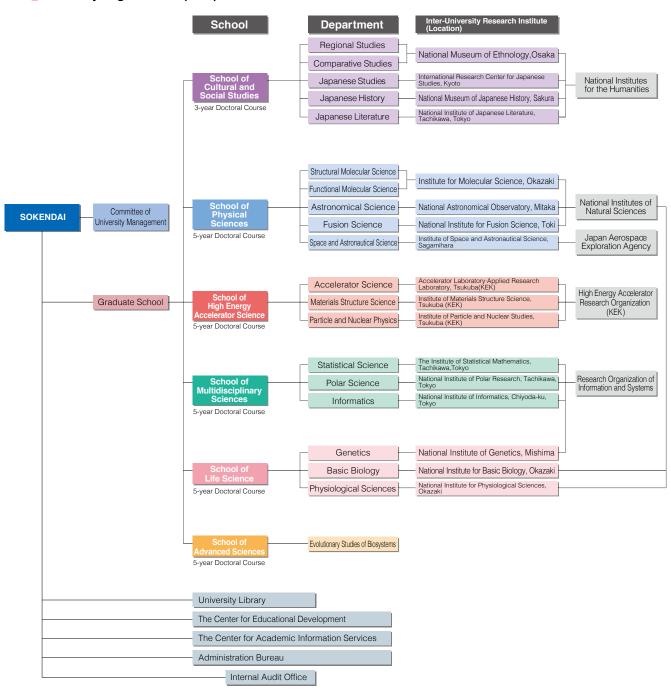
SOKENDAI has 6 schools and 20 departments. School of Cultural and Social Studies, School of Physical Sciences, School of High Energy Accelerator Sciences, School of Multidisciplinary Sciences and School of Life Science together hold charge of 19 departments, which are housed in 18 affiliated research institutes and operated by 4 Inter-University Research Institute Corporations and Japan Aerospace Exploration Agency.

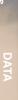
School of Advanced Sciences, which is attached directly to

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 Center for Educational Development and The Center for Academic Information Services have been established as university-wide facilities for all 6 schools.

University Organization (2020)









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



Ikeya, Kazunobu

➤ Special field

Anthropology, Geography,
Biosophia Studies

Department of Regional Studies

The Department, affiliated with the National Museum of Ethnology, Japan, offers opportunities to study individual societies and cultures in Asia, Europe, Africa, the Americas and Oceania. Students will develop high expertise based on intensive fieldwork. The structure, history and other characteristics of each society and culture are explored using ethnographic methodologies. Practical and theoretical problems in local areas are investigated. New approaches in anthropology and related disciplines are encouraged.



Festival for Mountain God in Amdo Tibetan area(Photo LAJIABEN)



Seminar utilizing museum collections Students have direct access to about 340 000 artifacts

FIELDS

- Asian Studies
- European Studies
- African Studies
- American Studies
- Oceanian Studies

For inquiries or information:

E-mail: souken@minpaku.ac.jp

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 methods and findings of related fields.



Exhibition hall at the museum. A favorable educational environment for developing new research directions.



A Kazakh community event in Mongolia (Photo YAGI Fuki) Our study abroad program provides access to diverse field places.

FIELDS

- Social/Cultural **Anthropology**
- Anthropology of Religion
- Anthropology of **Technology**
- Linguistics
- Anthropology of Art
- Cultural Resources

For inquiries or information:

E-mail: souken@minpaku.ac.jp

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, as well as natural sciences. A special feature of our graduate study program is that all the faculty participate in teaching and research guidance.

The department requires graduate students to take three courses—"Theory and Methodology in Japanese Studies", "Interdisciplinary Research" and "Dissertation Writing Guidance"—which set forth the theoretical and methodological basis for conducting Japanese studies in global

perspective. Through these courses and directed research, we hope to foster researchers with creative and highly specialized perspectives who are equipped to undertake comprehensive approaches of a broad interdisciplinary nature crossing the lines of multiple fields of study.

ibrary

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

COURSES

Japanese Studies

For inquiries or information:

E-mail: senkou@nichibun.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.



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

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

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.



About 200.000 microfilms, 20.000 Japanese rare books and other materials related to Japanese literature are stored in the institute's library.

COURSES

Japanese Literature

Shared Lecture / Resource of Literature / Formation of Literature / Environment of Literature

For inquiries or information:

E-mail: edu-ml1@nijl.ac.jp





School of **Physical Sciences**

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



Namiki, Noriyuki

► Special field Planetary 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



Electronic states studied by photoelectron spectroscopy

to a variety of traditional spectroscopic and theoretical techniques for structural

COURSES

- Electronic Structure
- Material Chemistry

For inquiries or information:

E-mail: r7139@orion.ac.jp

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



Purification of proteins by high-performance liquid chromatography

development of modern techniques for functional analysis and novel theoretical approaches.

COURSES

- Molecular Dynamics
- Excited State Dynamics

For inquiries or information: E-mail: r7139@orion.ac.jp

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,



Subaru Telescope is located on the summit of Mauna Kea, a dormant volcano on the Big

fabrication and testing of new observational instruments, development of new methods of data acquisition and analysis, and public

COURSES

- Optical and Near Infrared Astronomy Ground-based astronomy / Optical and infrared telescope system / Planets / Sun, stars and interstellar matter / Galaxies and cosmology
- Radio Astronomy Ground-based astronomy / Radio telescope system / Sun, stars and interstellar matter / Galaxies
- General Astronomy and Astrophysics High-precision astronomical measurement / Astronomy from space / Data analysis and numerical simulation / Earth and planets / Sun, stars and interstellar matter / Galaxies and cosmology

For inquiries or information:

E-mail: daigakuin@nao.ac.jp

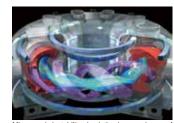
Department of Fusion Science

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.







Microscopic instability simulation in core plasma of Large Helical Device by gyrokinetic particle code

COURSES

Fusion System

Device system / Research operation / Plasma heating / Diagnostics

Fusion Simulation

Plasma simulation / Particle simulation / Magneto hydrodynamic simulation

For inquiries or information:

E-mail: daigakuin@nifs.ac.jp

Department of Space and Astronautical Science

The Department of Space and Astronautical Science provides an opportunity for high-level education and advanced research through the theoretical study, the analysis of acquired data, and the 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.

COURSES

Space Exploration Science and Engineering

Space System / Space Exploration / Space Environment Science

Space Observation Science

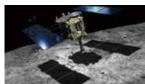
Space Astronomy / Solar System Exploration

Space Technology

Electronic Device and telecommunication / Space Transportation Technology

For inquiries or information:

E-mail: sokendai@ml.jaxa.jp



Asteroid explorer "Hayabusa2" The spacecraft is touching down to a newly created crater. @Akihiro Ikeshita



SOKENDAI

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 (and 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 Iso, Satoshi

Special fieldParticle Physics, Theoretical Physics

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



Accelerator Test Facility

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.

COURSES

Accelerator Science

Beam physics / Beam Development / Design of Accelerator Projects / Accelerator Technology / Science of Magnetics / Science of Radio-Frequency Acceleration / Vacuum Science and Technologies / Computer Science / Radiation Science / Mechanical Engineering for Accelerator Development

For inquiries or information:

E-mail: kyodo2@mail.kek.jp

Department of Materials Structure Science

In 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.

COURSES

Materials Structure **Science**

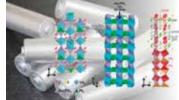
Synchrotron Radiation Science / Materials Structure Science based on Synchrotron Radiation / Neutron and Muon Science

For inquiries or information:

E-mail: kyodo2@mail.kek.jp



View of a protein crystallography end-station



The crystal structure of the world-best (2011) lithium-ion-conducting material Li10GeP2S12 was determined by neutron diffraction and synchrotron radiation. Since then, the development of the all solidstate batteries for automobiles has been activated

(Left to right) the crystal structure of Li10GeP2S12, its framework, the conduction paths of lithium ions are shown. Zigzag conduction pathways along the c axis are indicated

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.

Jpgrade of the SuperKEKB accelerator and Belle II detector.

COURSES

Theoretical Particle and Nuclear Physics Superstring Theory / Particle Physics Phenomenology / Lattice Gauge Theory / Hadron and Nuclear Theory / Theoretical Cosmophysics

Experimental Particle and Nuclear Physics B Factory / Hadron Collider Energy Frontier / Lepton Collider Energy Frontier / Neutrino Physics / Kaon Rare Decay / Muon Rare Process / Muon Precision Measurement / Nuclear Physics / Physics of Short-Lived Nuclei / Neutron Fundamental Physics / Experimental Cosmophysics / Beam Dynamics / Superconductivity and Cryogenic Engineering / Particle Detection Technology

For inquiries or information:

E-mail: kyodo2@mail.kek.jp



SOKENDAI

School of Multidisciplinary Sciences

The School of Multidisciplinary Sciences conducts research and education on important issues relating to changes of the Earth, environment and human society. The School strives to cultivate researchers and highly specialized professionals in the area of information and system sciences, who will play key roles in research and/or development skills that will contribute to solving these issues.

School of Multidisciplinary Sciences

The School of Multidisciplinary Science 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} Miyasato, Yoshihiko
- Special fieldControl Theory

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.



Supercomputer System for Statistical

Science (HPE SGI 8600)

This department conducts education and research on theory and applications to extract information and knowledge from the real world based on data, and aims to develop human resources with creative research capabilities solving various important issues that are complexly intertwined.

COURSES

Statistical Science

Statistical Modeling / Statistical Data Science / Statistical Inference and Mathematics

For inquiries or information:

E-mail: sokendai-toukei@t.rois.ac.jp

Department of Polar Science

The Earth is the only one aqua-planet in the Solar system.

Many kinds of organism including mankind have been living on it. When we long for sustainable development on this planet, we have to better understand evolution and change of its environments. Recently, we come to realize that environmental change of the Earth, in each aspect of ionosphere, atmosphere, hydrosphere, geosphere and biosphere, appears in advance from both polar regions. The objectives of



The aurora australis (Photo by Hidehiko Suzuki)

Department of Polar Science are to study characteristics of the changes and their relation in the framework of the seamless Earth system. Polar Science stands strongly on the fieldwork; therefore we attach importance to educate or study together practical methodology to carry out the research.

We train "Earth scientists" who are creative and flexible in studying the past, current and future figure of the Earth.

COURSES

Polar Science

Polar Space and Upper Atmospheric Sciences / Polar Meteorology and Glaciology / Polar Geoscience / Polar Bioscience

For inquiries or information:

E-mail: sokendai-kyokuiki@t.rois.ac.jp

Department of Informatics

Informatics is a new science field which extensively and synthetically deals with problems on information from various aspects. It is a multidisciplinary science covering not only traditional information science and engineering, but also artificial intelligence and data science indispensable in the recent data-driven society, and even humanity informatics and social informatics. It includes expression, 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 broad range from foundations to practices and advanced speciality by utilizing cutting-edge research environment and cyber science infrastructure of the National Institute of Informatics in an international

A machine learning experiment based on communication between human and robot, by using VR



Mixer events for students and researchers are held in the lounge area.

COURSES

Informatics

Foundations of Informatics / Information Infrastructure Science / Software Science / Multimedia Information Science / Intelligent Systems Science / Information **Environment Science**

For inquiries or information:

E-mail: daigakuin@nii.ac.jp



S O K E N D A I

School of Life Science

The School of Life Science aims to cultivate researchers who are internationally competitive and possess broad perspectives necessary for taking on leading roles in the life science research of the next generation. Students participate in research to clarify life phenomena at various levels from the molecular to the individual to the population.

School of Life Science

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 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

Departments under the School

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



Fujimori, Toshihiko

Special field

Developmental Biology

Department of Genetics

The Department of Genetics offers education and research opportunities in a variety of cuttingedge 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



The rich environment of the Department of Genetics allows students to fully devote themselves to their own research projects.



Lively discussions are often held in the laboratories

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.

vear to receive advice from faculty

COURSES

- Molecular and Cellular **Biology**
- Developmental Biology
- Evolutionary Biology
- Genome Biology

For inquiries or information:

E-mail: info-soken@nig.ac.jp

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 topend techniques including molecular biology, bioimaging, mathematical science and omics.



Model organisms used at Department of Basic Biology

COURSES

- Cell Biology
- **Developmental Biology**
- Environmental Biology
- Neurobiology
- Evolution, Diversity and **Genomic Biology**
- Reproductive Biology

For inquiries or information:

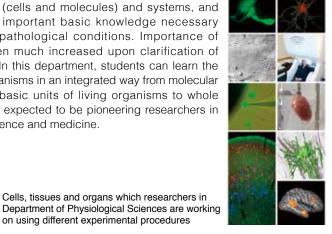
E-mail: r7139@orion.ac.jp

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.

Cells, tissues and organs which researchers in

on using different experimental procedures



COURSES

- Molecular and Cellular **Physiology**
- Homeostatic Regulation
- Fundamental Neuroscience
- System Neuroscience

For inquiries or information:

E-mail: r7139@orion.ac.jp



SOKENDAI

School of Advanced Sciences

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: 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,

We also actively promote international and domestic collaborations with

Departments under the School

· Department of Evolutionary Studies of Biosystems



Sasaki, Akira

Special field Mathematical Biology

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

Anthropology / Evolutionary Biology / Behavioral Biology / Advanced Theoretical Biology

Major in Science and Society

Social Studies of Science

For inquiries or information:

E-mail: office_sendou@ml.soken.ac.jp

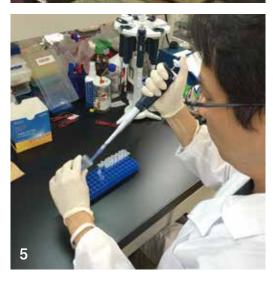






- 1 : Excavation of Hasankeyf Höyük (Turkey). Prepottery Neolithic period (c. 9500B.C.)
- 2 : Migratory butterfly, Chestnut tiger (Parantica sita)
 3 : The Grand Prix Horse Blast Onepiece





- 4 : Archives of Japanese scientists who worked in Taiwan during wartime
 5: Handling DNA solutions in the wet lab.

Educational Programs

SOKENDAI Freshman Course

The Freshman Course is an intensive course (4 days camp) for newly-enrolled students of SOKENDAI. This course has two objectives: (1) To acquire basic knowledge and skills required for all researchers; and (2) To understand the SOKENDAI's broad range of intellectual fields, and create a network beyond your research field. This course consists of three sections: "Exploring Diversity in Academia (EDA)", "Researchers and Society" and "Communication Skills for Researchers".



■ 2019 (First semester)

Date: April 9-12, 2019

Venues: SOKENDAI Hayama Campus

Participants: 74 students, 39 faculty members, Total 113

■ 2019 (Second semester)

Date: October 8-11, 2019

Venues: SOKENDAI Hayama Campus

Participants: 33 students, 23 faculty members, Total 56

Course Groups

A course group is a cluster of courses categorized across a wide spectrum of specific areas that are intimately related to each other. In some course groups, a coalition of schools/ departments bring along their own courses to build up the group; students can enjoy special subjects of an adjacent academic discipline to broaden their perspective, quickly grasp a general idea of each discipline and/or get an objective overview of various disciplines.

When a SOKENDAI student travels to the other campus, for the purpose of receiving a lecture, part of the expenses (ex. transportation expenses) may be reimbursed after course.

■ 2020 Course Groups

Integrative Brain Science Course

Brain science requires a wide range of knowledge and view not only on physiology, but also on biology, technology, pharmacology, information science and social science. This course will provide lectures and practices for the purpose of integrating multidisciplinary approaches and developing a new research field.

All the lectures will be broadcasted through our remote lecture delivery system except traning course.

Integrative Bioscience **Education Course**

To foster the development of young researchers who can contribute to the future of biology in connection with the recent developments of various technologies, we provide a new course that promotes interdisciplinary and integrative views of biological processes, covering not only biological but also physical, mathematical, and information sciences.

All the lectures will be provided through the remote lecture delivery system except traning course.

Courses common to the **School of Physical Sciences** and the School of High Energy **Accelerator Science**

Utilizing research topics and themes common to both schools and their departments, the schools provide the courses mainly to students with academic background or fundamentals in Physical Sciences. The courses aim to help students cultivate the basic skills, interdisciplinary and integrated perspectives on nature essential for researchers.

"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).

Historical and Cultural Resource Management **Education Program**

The historical and cultural resource management course is led by the School of Cultural and Social Studies and aims to develop researchers with a high capability in historical and cultural resource management through learning about advanced historical and cultural resource management such as methods for reading diverse historical and cultural resources, analysis using advanced scientific methods, recording and scientific preservation management of historical and cultural resource information, and research presentations using historical and cultural resources.

-Course-by-Course Education Program to **Cultivate Researchers in Physical Science**

The Program is provided jointly by the School of Physical Sciences and the School of High Energy Accelerator Science. It seeks to foster researchers in the field of physical sciences who are fully equipped with a high degree of professional qualities as well as broad perspective and international competence to meet the needs of society. In the 1st to 2nd years of the 5-year doctoral course, the Program focuses on building basic academic skills at the graduate

school level. In the 3rd to 5th years of the 5-year doctoral course students are placed according to their aptitude into one of the following four courses: Basic Course*, Advanced Research Course, Project Research Course (available only in the School of Physical Sciences), and Development Research Course (available only in the School of Physical Sciences). *For students matriculating in AY2018 or later, course completion in the "Basic Course" has been discontinued.

Joint School Seminars

SOKENDAI Cultural Forum / School of Cultural and Social Studies

November 30-December 1, 2019 at National Institute of Japanese Literature

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 majors 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 advices and supports from faculties on project management through the collaboration, which in turn would facilitate students' ability as independent researchers.



Physical Science Student Seminar / School of Physical Sciences and School of High Energy Accelerator Science

July 12-13, 2018 at Nobeyama Radio Observatory

School of Physical Sciences and School of High Energy Accelerator Sciences organize the multidisciplinary Physical Science Student Seminar as a part of their course curriculums.

Every two years, students and faculties from eight majors join in this overnight event to hold academic seminars.

The project authorizes students to take responsible roles in the planning and organization of the event in order to polish their planning and organizing skills and train them as highly competent researchers.



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

December 10-11, 2019 at Shizuoka Prefecture

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 15-16, 2019 at Yamanashi Prefecture

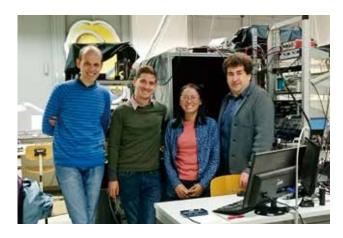
Life Science Retreat invites biology faculties and students for academic interactions, through which it aims to foster talents with a broader grasp of biological science and the capacity to contribute to the development of the field.

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 presentations skills.



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.



2019

Category 1 (Short-term Abroad Program)

Number of students supported: 31

Category 2 (Long-term Abroad Program)

Number of students supported: 19

Category 3 (Long-term Domestic Program)

Number of students supported: 2

Dispatched countries: USA, UK, Australia, China,

Germany, France, Italy, Czechia, etc.

SOKENDAI publication grant for research papers

The publishing cost support of the printing expenses is carried out for about the academic paper which was a result of the research activities. This support is applicable only for

the students who belong to SOKENDAI. Total 18 publications were supported in 2019.

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.

April 3, 2019	Shonan Village Seminar	Thinking of a Prosperous Life Hasegawa, Mariko (SOKENDAI President) Ogawa, Yujiro (SOKENDAI Executive Director)
May 3, 2019	Shonan Village Festival 2019	Human Evolution: Environment, Culture, and Genome Satta, Yoko (Professor, Department of Evolutionary Studies of Biosystems)
July 31, 2019	Science Seminar for Junior High and High School Students	From "Hayabusa" to "Hayabusa 2": The Mystery of the Solar System Explored from Fragments of Asteroids Komatsu, Mutsumi (Assistant Professor, The Center for Educational Development)
November 20-22, 2019	SOKENDAI Outreach Activities	Introduction to Project Management Sakakibara, Satoru (Professor, Department of Fusion Science)
December 23-25, 2019	SOKENDAI Outreach Activities	Challenges in the Exploration of the Unknown: Cutting-edge Studies Young Researchers Discuss Oishi, Masatoshi (Professor, Department of Astronomical Science)
February 24, 2020	SOKENDAI Seminar	(iii) Exploration "Q": The Mysteries of the Universe Explored Through Cosmic Rays Yoshioka, Mizuki (Associate Professor, Kyushu University Research Center for Advanced Particle Physics)
March 7, 2020	Café Integral	(※) Seven Types of Monkeys on One Island: Diversification of Sulawesi Macaque Monkeys Terai, Yohei (Assistant Professor, Department of Evolutionary Studies of Biosystems)
	"Yokoko Academia" with Kanagawa Prefectural Yokosuka High School	We supported the academic program, "Yokoko Academia" organized by Kanagawa Prefectural Yokosuka High School to contribute to local educational institutes and foster future generations. The school is designated as a Super Science High School by the Ministry of Education, Culture, Sports, Science and Technology.

*Postponed due to the spread of the COVID-19.











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.

■ November 3, 2019

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

Press Release -

Research findings in 2019 published on the following papers are press released and subsequently appeared in newspapers and various media:

- Astronomers Capture First Image of a Black Hole — Japanese researchers contribute to paradigm-shifting observations of the gargantuan black hole at the heart of distant galaxy Messier 87
- Developmental effects on behavioural response for social preferences in frog tadpoles, Rana ornativentris.
- •Genome-wide SNP analysis of Japanese Thoroughbred racehorses



The oldest record of an astronomical phenomenon in Japan was of a fan-shaped aurora described in the Nihon-shoki.



Inter-group aggressive interaction patterns indicate male mate defense and female cooperation across bonobo groups at Wamba, Democratic Republic of



 A multivariate phylogenetic comparative method incorporating a flexible function between discrete and continuous traits.



 Spectral organization of the compound eye of a migrating nymphalid, the Chestnut tiger butterfly Parantica sita



JSPS Summer Program

Date: June 12 - August 21, 2019

This program, which is carried in partnership with Japan Society for the Promotion of Science (JSPS), offers opportunities to practice research at inter-university research institutes (IURI) or universities to young researchers who have undertaken or just completed doctoral programs for two months during the summer. SOKENDAI provides an orientation session during the first week of the program in Hayama. It comprises Japanese language lessons, special lectures on Japanese culture and research, and a poster session in which SOKENDAI students will also participate.

The objective of this program is to inject an international element

into the education at the University and to promote academic exchange with other countries.





SOKENDAI Students' Seminar on Skills for Poster Presentation

Lectures for the purpose of obtaining practical abilities to internationally appeal attractiveness of research are held every two years targeting the students of this university in conjunction with the orientation of the JSPS Summer Program. Students participate in a poster session held in the orientation, and practice the introduction of their research in English, after receiving guidance from English teachers.

SOKENDAI Fund

SOKENDAI Fund has been established to support SOKENDAI Students. For the details, plasese visit our website.https://www.soken.ac.jp/ donation/

SOKENDAI Newsletter

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)



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 program and projects

- · Implement "Freshman Course"
- · Provide support in implement "SOKENDAI Dispatch Program"
- · Provide support in developing the international joint/double degree programs
- · Provide support in educational activities for students

Provide support for students' activities

· Provide support for students' 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

The Center for Academic Information Services

This Center was established to aims 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 (Attached Headquarters)

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 database are also available to general public. The venue effectively functions both as a place to collect research resources and a studying space.

SOKENDAI staffs 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 National Diet Library to enable users to browse digital materials belonging to the National Diet Library.

■ Number of academic materials available at the Library

approx. 23,000 titles Book · (Japanese) (Non-Japanese) approx. 24,900 titles 200 titles Journal: (Japanese) approx. (Non-Japanese) approx. 340 titles E-book: approx. 128,600 titles

E-journal: approx. 5,300 titles Institutional Repository: approx. 4,900 titles

As of April 1, 2020

For inquiries or information: **University Library**

TEL: 81-46-858-1528 FAX: 81-46-858-1607 E-mail: lib@ml.soken.ac.jp

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 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".

Electronic Journals

BioOne / JSTOR / Science Direct /

Springer-LINK / Wiley-Blackwell / GeoScienceWorld Scopus (Document/reference database search service)

* 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 SOKENDAL

Professor Emeritus, School of High Energy Accelerator Science



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

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 Order of Culture 2008

Professor Emeritus, School of Life Science



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

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

Recipients of Award

■ Orders and Medals of Honor (after 2012)

Name	Department	Prize		
Kodaira, Keiichi (Professor Emeritus, Former President)	Dept. of Astronomical Science	The Order of the Sacred Treasure, Gold and Silver Star (2017)		
Kawai, Maki (Professor)	Dept. of Functional Molecular Science	Medal with Purple Ribbon (2017)		
Ohsumi, Yoshinori (Professor Emeritus)	Dept. of Basic Biology	Order of Culture (2016)		
Ohta, Tomoko (Professor Emeritus)	Dept. of Genetics	Order of Culture (2016)		
Suematsu, Yasuharu (Professor Emeritus)	Dept. of Informatics	Order of Culture (2015)		
Nakanishi, Susumu (Professor Emeritus)	Dept. of Japanese Studies	Order of Culture (2013)		

■ Person of Cultural Merit (after 2012)

Name	Department	Research Theme
Inoki,Takenori (Professor Emeritus)	Dept. of Japanese Studies	Economy (2019)
Komatsu, Kazuhiko (Professor)	Dept. of Japanese Studies	Ethnology (2016)
Ohsumi, Yoshinori (Professor Emeritus)	Dept. of Basic Biology	Cell Biology (2015)
Morokuma, Keiji (Professor Emeritus)	Dept. of Structural Molecular Science	Theoretical Chemistry, Computational Chemistry (2012)

■ Japan Academy Prize (after 2012)

Name	Department Y		Subject
Kawai, Maki (Professor)	Dept. of Functional Molecular Science	2020	Single Molecule Spectroscopy Elucidating Chemical Reactions at Solid Surfaces
Kitsuregawa, Masaru (Professor)	Dept. of Informatics	2020	Pioneering Research in the Theory and Application of Large-Scale High-performance Database Systems
Tsuneta, Saku (Professor)	Dept. of Astronomical Science	2019	Studies of Solar Magnetohydrodynamic Phenomena through Satellite Observations
Nagamine, Kanetada (Professor Emeritus)	Dept. of Materials Structure Science	2019	Exploration of Muon Radiography and its Application to Non-destructive Studies of Large-scale Matters
Takasaki, Fumihiko (Professor Emeritus)	Dept. of Particle and Nuclear Physics	2017	Studies of CP Violation in the B-Meson System
lye, Masanori (Professor Emeritus)	Dept. of Astronomical Science	2013	Observational Studies of the Early Universe

■ Japan Academy Medal Prize (after 2012)

Name Department		Year	Subject
			Theoretical Development of Quantum Dissipative Dynamics and Its Application to Primary Processes of Photosynthesis
Innan, Hideki (Associate Professor)	Dept. of Evolutionary Studies of Biosystems	2014	Theoretical Elucidation of the Mechanisms of Evolution with Genomic Sequence Data
Kawarabayashi, Kenichi (Professor)	Dept. of Informatics	2013	Application of Advanced Graph Theory to Discrete Mathematics and Theoretical Computer Science

■ JSPS Ikushi Prize (after 2012)

Name	Department	Year	Research Theme
Kariyazono, Shiho	Dept. of Evolutionary Studies of Biosystems	2017	The genetic basis and the biological role of fluorescent proteins in Acropora species
Kitamura, Daichi	Dept. of Informatics		Multichannel blind music source separation based on nonnegative matrix factor source model
Mochizuki, Kenji	Dept. of Functional Molecular Science	2013	heoretical Study on the Molecular Mechanism of Ice Melting and the Local Structure of Aqueous Solution
Nakahata, Yoshihisa	Dept. of Physiological Sciences	2013	Activation-Dependent Spatial Dynamics of Postsynaptic Glycine Receptors

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 3rd SOKENDAI Award (September 27, 2019)

Name	Department	Doctoral thesis
Kenich, Shunto	Dept. of Japanese Studies	Humane Treatment of Animals in Postwar Japan : Social Movement of Humane Treatment (dog / cat) and Administration of Animal Protection and Management : 1947-2000
Song, Qintao	Dept. of Particle and Nuclear Physics	Structure Functions of Pion and Deuteron
Bui, Van Thach	Dept. of Informatics	Non-adaptive group testing: theory and design

■ The recipients of the 4th SOKENDAI Award (March 25, 2020)

Name	Department	Doctoral thesis
Mmatsuno, Tadafumi	Dent of Astronomical Science	High-Precision Abundance Study for the Milky Way Halo Stars with Kinematics and Asteroseismology
Kojima, Ryota	Dept. of Particle and Nuclear Physics	Triangulation of the Amplituhedron from Sign Flips

-Academic Staff

(As of May 1, 2020)

Categ	ory	Member of the Board	Professor	Associate Professor	Lecturer	Assistant Professor	Secretariat	Total
President		1						1
Executive Director		3						3
Audit	or	2						2
Vice Pres	sident	(1)						(1)
	Regional Studies		11	13				24
	Comparative Studies		13	10				23
School of Cultural and	Japanese Studies		17	3				20
Social Studies	Japanese History		16	13				29
	Japanese Literature		10	11				21
	Subtotal	0	67	50	0	0	0	117
	Structural Molecular Science		7	6		12		25
	Functional Molecular Science		8	6		20		34
School of Physical	Astronomical Science		26	38		47		111
Sciences	Fusion Science		21	20		21		62
	Space and Astronautical Science		21	36		16		73
	Subtotal	0	83	106	0	116	0	305
	Accelerator Science		49	53	17	48		167
School of High Energy	Materials Structure Science		21	22	5	18		66
Accelerator Science	Particle and Nuclear Physics		32	31	30	15		108
	Subtotal	0	102	106	52	81	0	341
	Statistical Science		18	20		3		41
School of	Polar Science		14	20		16		50
Multidisciplinary Sciences	Informatics		30	26		13		69
Sciences	Subtotal	0	62	66	0	32	0	160
	Genetics		23	8		27		58
	Basic Biology		16	15		35		66
	Physiological Sciences		13	16		32		61
	Subtotal	0	52	39	0	94	0	185
School of Advanced	Evolutionary Studies of Biosystems		5(1)	7	2	4		18(1)
	Subtotal	0	5(1)	7	2	4	0	18(1)
The Center for Educat	The Center for Educational Development			1	2	3		6(1)
	The Center for Academic Information Services		(1)				(1)	(2)
Future Plannir	ng Division	(1)	· · ·				(1)	(2)
Secretari		, ,					42	42
Tota		6(3)	371(2)	375	56	330	42(2)	1180(7)
Total		- \-/	- \ /				/	\ /

 $[\]label{thm:concurrently} % The number of staff in parentheses indicates those who concurrently work in other section [not included in the total].$

Students

(As of May 1, 2020)

		Qu	ota	1	st yea	ır	2	nd yea	ar	3	rd yea	ır	4	th yea	r	5	th yea	r		Total	
School	Department	Doctoral 5-year	Course 3-year		Female	Int'l Students		Female	Int'l Students		Female	Int'l Students		Female	Int'I Students		Female	Int'l Students		Female	Int'l Students
	Regional Studies		3				$\overline{}$	$\overline{}$		3	2	0	2	2	1	12	6	6	17	10	7
	Comparative Studies		3							2	0	1	3	2	1	10	3	3	15	5	5
School of Cultural and	Japanese Studies		3							3	2	0	4	1	2	14	11	5	21	14	7
Social Studies	Japanese History		3							1	1	0	2	1	0	7	2	0	10	4	0
	Japanese Literature		3					$\overline{}$		2	1	0	2	1	0	5	3	0	9	5	0
	Subtotal		15							11	6	1	13	7	4	48	25	14	72	38	19
	Structural Molecular Science	2	3	2	0	0	0	0	0	7	2	0	4	0	0	5	0	1	18	2	1
	Functional Molecular Science	2	3	4	1	2	3	1	0	4	0	0	6	2	5	6	0	2	23	4	9
	Astronomical Science	2	3	5	1	0	5	2	0	3	0	1	5	0	0	10	4	3	28	7	4
	Fusion Science	2	3	5	0	4	1	0	0	4	1	2	4	0	1	3	0	0	17	1	7
	Space and Astronautical Science	2	3	4	2	0	2	1	0	6	2	2	9	1	4	8	0	2	29	6	8
	Subtotal	10	15	20	4	6	11	4	0	24	5	5	28	3	10	32	4	8	115	20	29
School of High	Accelerator Science	2	% 2	1	0	0	2	0	0	4	0	3	5	3	5	5	0	3	17	3	11
	Materials Structure Science	3	% 2	1	0	0	0	0	0	4	1	1	2	1	1	4	1	1	11	3	3
	Particle and Nuclear Physics	4	% 2	6	2	1	5	0	2	6	0	1	4	0	0	13	4	1	34	6	5
Science	Subtotal	9	_	8	2	1	7	0	2	14	1	5	11	4	6	22	5	5	62	12	19
	Statistical Science	2	3	0	0	0	2	0	0	10	1	1	14	1	1	10	3	0	36	5	2
School of Multidisciplinary	Polar Science	2	1	1	0	0	4	1	0	3	2	1	6	2	0	6	1	0	20	6	1
	Informatics	4	6	11	4	5	8	3	5	29	5	14	17	3	9	34	5	15	99	20	48
	Subtotal	8	10	12	4	5	14	4	5	42	8	16	37	6	10	50	9	15	155	31	51
	Genetics	3	6	7	3	4	7	2	3	8	3	5	9	5	4	6	3	3	37	16	19
	Basic Biology	3	6	7	4	3	8	5	1	9	3	1	7	2	2	16	2	2	47	16	9
	Physiological Sciences	3	6	2	1	0	5	2	2	13	5	4	7	3	2	8	2	2	35	13	10
	Subtotal	9	18	16	8	7	20	9	6	30	11	10	23	10	8	30	7	7	119	45	38
	Evolutionary Studies of Biosystems	5	1	2	1	0	3	1	0	3	2	0	1	1	0	11	5	0	20	10	0
Sciences	Subtotal	5	1	2	1	0	3	1	0	3	2	0	1	1	0	11	5	0	20	10	0
	Total	41	59	58	19	19	55	18	13	124	33	37	113	31	38	193	55	49	543	156	156

[%] ¹ The number of female students and international students is included in the total. % ² The School of High Energy Accelerator Science does not have a specific quota of admission but gives examinations.

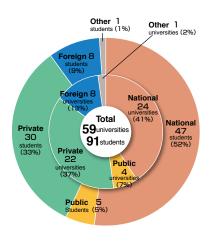
Applicants and Enrollments

(As of April 1, 2020)

					Admitted		Backo	ground	
School	Department	Quota	Applicant	Passer	Students	Ger	nder	International	Jobholder
					Students	Male	Female	Students	Jobi loidei
	Regional Studies	- (3)	(6)	(3)	(3)	(1)	(2)		
	Comparative Studies	- (3)	(5)	(2)	(2)	(2)		(1)	
School of Cultural and	Japanese Studies	- (3)	(9)	(5)	(3)	(1)	(2)	(1)	(1)
Social Studies	Japanese History	- (3)	(6)	(1)	(1)		(1)		(1)
	Japanese Literature	- (3)	(2)	(2)	(2)	(1)	(1)		
	Subtotal	- (15)	(28)	(13)	(11)	(5)	(6)	(2)	(2)
	Structural Molecular Science	2(3)	4(5)	3(5)	2(3)	2(3)			
	Functional Molecular Science	2(3)	6(1)	4(1)	3(1)	3(1)		2	
	Astronomical Science	2(3)	26(2)	8(1)	5(1)	4(1)	1		
	Fusion Science	2(3)	11(1)	6(1)	4(1)	4(1)		3	(1)
	Space and Astronautical Science	2(3)	9(2)	5(2)	4(2)	2(1)	2(1)		
	Subtotal	10(15)	56(11)	25(10)	18(8)	15(7)	3(1)	5	(1)
School of	Accelerator Science	2(*)	6	1	1	1			
	Materials Structure Science	3(※)	1(2)	1(2)	1(2)	1(2)			
	Particle and Nuclear Physics	4(*)	21(1)	9(1)	4(1)	3(1)	1		
Science	Subtotal	9	28(3)	11(3)	6(3)	5(3)	1		
	Statistical Science	2(3)	7(8)	(3)	(3)	(3)			(1)
School of Multidisciplinary	Polar Science	2(1)	4(1)	1(1)	1(1)	1(1)		(1)	
Sciences	Informatics	4(6)	13(10)	7(7)	7(7)	5(6)	2(1)	2(2)	2(3)
	Subtotal	8(10)	24(19)	8(11)	8(11)	6(10)	2(1)	2(3)	2(4)
	Genetics	3(6)	5(5)	4(2)	3(2)	1(2)	2		
	Basic Biology	3(6)	11(5)	7(4)	4(4)	2(3)	2(1)		
	Physiological Sciences	3(6)	3(8)	2(8)	2(8)	1(6)	1(2)		
	Subtotal	9(18)	19(18)	13(14)	9(14)	4(11)	5(3)		
School of Advanced	Evolutionary Studies of Biosystems	5(1)	5(1)	2(1)	2(1)	1	1(1)		
Sciences	Subtotal	5(1)	5(1)	2(1)	2(1)	1	1(1)		
	Total	41(59)	132(80)	59(52)	43(48)	31(36)	12(12)	7(5)	2(7)

() 3-year Doctoral Course (not included in the total) . $\mbox{\@iffelded{A}}$ A few people.

Admission of the 2020



Hokkaido University	2
Asahikawa Medical University	1
Iwate University	1
Tohoku University	4
University of Tsukuba	2
The University of Tokyo	8
Tokyo University of Agriculture and Technology	3
Tokyo University of the Arts	1
Tokyo Institute of Technology	2
Shinshu University	2
The Graduate University for Advanced Studies,	SOK-
ENDAI	1
University of Toyama	1
Nagoya University	3
Kyoto University	4
Osaka University	1
Osaka Kyoiku University	1
Kobe University	2
Nara University of Education	1
Nara Institute of Science and Technology	1
Hiroshima University	2
Kochi University	1
Kyushu University	1
Kumamoto University	1
Kagoshima University	1

Tokyo Metropolitan University
Kanazawa College of Art
Nagoya City University
Osaka Prefecture University

National Institute of Technology, Asahikawa College 1

Japanese Private Universities	
Aichi Institute of Technology	1
Aoyama Gakuin University	1
Okayama University of Science	1
Gakushuin University	1
Kanazawa Institute of Technology	1
Kyoto Sangyo University	1
Kindai University	1
Kumamoto Health Science University	1
Keio University	1
Kogakuin University	1
Chuo University	1
Teikyo University	1
Tokai University	1
Tokyo Denki University	2
Tokyo University of Science	4
Toho University	1
Tohoku University of Art and Design	1
Toyo University	1
Doshisha University	1
Nihon University	3
Fukuoka University	2
The Open University of Japan	2

Foreign Universities

1 Oreign Oniversities	
Chiang Mai University	1
Illinois Institute of Technology	1
University of Vinna	1
Xiamen University	1
Central China Normal University	1
Tsinghua University	1
Changchun University of Science and Technology	1
National Tsing Hua University	1

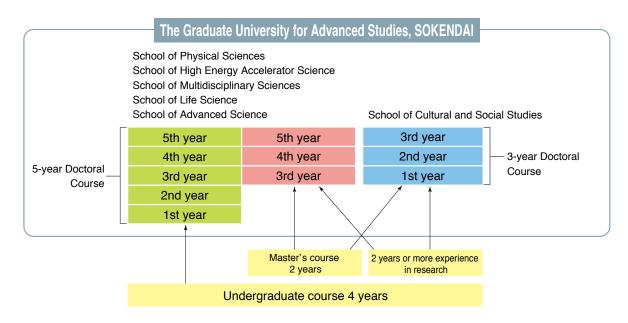
Degrees Awarded

School	Quota	Field	For t	he perio	od of 14		2015			2016			2017			2018			2019			Total	
School of Cultural and	(15)	Literature	101	[25]	(43)	5	[4]	(1)	5	[1]	(3)	4		(1)			(2)	5		(1)	120	[30]	(51)
Social Studies	(13)	Philosophy	68	[12]	(31)	4			3	[2]		4	[1]	(3)	4		(1)	2		(1)	85	[15]	(36)
School of		Philosophy	58	[0]	(11)	1			2	[1]		1									62	[1]	(11)
Physical	10(15)	Science	366	[13]	(35)	10	[3]		22	[1]		15	[1]		11		(1)	10			434	[18]	(36)
Sciences		Engineering	72	[4]	(16)	3			3		(1)	4			4			5	[1]		91	[5]	(17)
School of		Philosophy	23	[1]	(9)				2			1			1			2			29	[1]	(9)
High Energy Accelerator	9(*)	Science	152	[3]	(13)	9			2			4		(1)	8			12		(1)	187	[3]	(15)
Science		Engineering	47	[0]	(21)	1		(2)	2	1		1			2			3			56	[1]	(23)
		Statistical Science	27	[2]	(3)	4			5			4	[1]		5	[1]		5	[1]		50	[5]	(3)
School of	0(10)	Philosophy	80	[4]	(10)	1			2	[1]		1	[1]								84	[6]	(10)
Multidisciplinary Sciences	8(10)	Science	54	[0]	(6)	2			3			2			3						64	[0]	(6)
		Informatics	105	[7]	(0)	14	[2]		22	[4]		7			11	[2]		14	[3]		173	[18]	(0)
		Philosophy	35	[1]	(2)	1															36	[1]	(2)
School of Life Science	9(18)	Science	512	[27]	(37)	18	[1]	(1)	20	[2]	(1)	20	[3]		18	[3]	(1)	12	[3]		600	[39]	(40)
		Medical Science	9	[0]	(0)	1						1			3	[2]		1			15	[2]	(0)
School of		Philosophy	15	[5]	(1)																15	[5]	(1)
Advanced	5(1)	Science	48	[7]	(2)	4						5	[1]		5			1			63	[8]	(2)
Sciences		Engineering	5	[1]	(0)																5	[1]	(0)
Total	41(59)		1777	[112]	(240)	78	[10]	(4)	93	[13]	(5)	74	[8]	(5)	75	[8]	(5)	72	[8]	(3)	2169	[159]	(262)

The quota of admission is the one in 2020. (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

Requirements for completion of the Ph.D. course

Students are required to be enrolled in SOKENDAI for more than 3 years (five-year course 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.



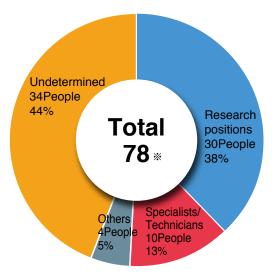
In equota of admission is the one in 2020. (The number in parentneses is the quota of 3-year doctoral course. The School of High Energy Accelerator Science does not have a specific quota of admission but accepts only a few students.)

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

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

The School of Physical Sciences, the School of High Energy Accelerator Science, and the School of Multidisciplinary Sciences were formed from the former School of Mathematical and Physical Science on March 31, 2004.

Career Tracking / Data of the 2019



Type of Occupation

Universities/Research institutes,etc ······

BATAN (National Nuclear Energy Agencyof Indonesia)

Zhengzhou University

National Institute for Physiological Sciences

National Institutes of Health

University of Padova

NEC

The Institute of Statistical Mathematics

National Institute of Informatics

Institute for Plasma Research

Institute for Molecular Science

University of London

National Institute of Genetics

The University of Tokyo

Peking University

High Energy Accelerator Research Organization (KEK)

National Taiwan University

National Institutes for Quantum and Radiological Science and Technology

NEC Laboratories Europe

NIPPON TELEGRAPH AND TELEPHONE CORPORATION

Kyoto University

National Institute of Advanced Industrial Science and Technology

University of Tsukuba

University of Groningen

Tokyo Metropolitan Police Department

Independent Administrative Institution National Institutes for Cultural

Heritage Tokyo National Research Institute for Cultural Properties

Breakdown of the total

The number of those who completed a course and obtained a degree: 64

The number of those who left the university after obtaining the credits required for completion of a course in the relevant academic year: 14

Private companies/Public service corporation

Micron Memory Japan, G.K.

SYSTEM IN FRONTIER INC.

Cluster Computing Inc.

Janssen Pharmaceutical K.K.

RevComm Inc.

Koden Electronics Co., Ltd.

Nippon Advanced Technology Co., Ltd.

SoftBank Corp.

Tecnos Data Science Engineering, Inc.

JAPAN PROCESS DEVELOPMENT CO., LTD.

Mayo clinic

Urban Mobility Tech Co. Itd

Huawei Technologies Co., Ltd.

Shin-Etsu Chemical Co., Ltd.

Nagano Prefectural Board of Education

International Exchange

Number of International Students by Department

(As of May 1, 2020)

			ıota		st ye	ar	21	nd ye	ar	3rd ye	ear (1st y	ear**)	4th ye	ar (2nd y	year**)	5th ye	ear (3rd y	/ear**)	S	ubtot	al	Rese	arch St	udent
School	Department		Doctoral Course 3-year		*1	*2		*1	*2		*1	*2		*1	*2		*1	*2		*1	*2		*1	*2
	Regional Studies		3										1	1		6	3	1	7	4	1	1	1	
	Comparative Studies		3							1		1	1	1		3	1		5	2	1			
School of Cultural	Japanese Studies		3										2	1	1	5	5	1	7	6	2	1		
and Social Studies	Japanese History		3																0	0	0			
	Japanese Literature		3																0	0	0			
	Subtotal		15							1	0	1	4	3	1	14	9	2	19	12	4	2	1	0
	Structural Molecular Science	2	3													1			1	0	0			
	Functional Molecular Science	2	3	2	1								5	1	2	2		1	9	2	3			
School of Physical	Astronomical Science	2	3							1		1				3	2	2	4	2	3			
Sciences	Fusion Science	2	3	4		1				2	1	2	1		1				7	1	4			
	Space and Astronautical Science	2	3							2		2	4		3	2		2	8	0	7			
	Subtotal	10	15	6	1	1	0	0	0	5	1	5	10	1	6	8	2	5	29	5	17	0	0	0
0 1 1 (11)	Accelerator Science	2	a few							3		1	5	3	1	3		3	11	3	5			
School of High	Materials Structure Science	3	a few							1		1	1	1	1	1			3	1	2			
Energy Accelerator Science	Particle and Nuclear Physics	4	a few	1	1	1	2		1	1		1				1	1		5	2	3			
Ocience	Subtotal	9	-	1	1	1	2	0	1	5	0	3	6	4	2	5	1	3	19	6	10	0	0	0
	Statistical Science	2	3							1			1						2	0	0			
School of	Polar Science	2	1							1									1	0	0			
Multidisciplinary Sciences	Informatics	4	6	5	2	2	5	3	2	14	4	3	9	3	3	15	2	5	48	14	15			
001011003	Subtotal	8	10	5	2	2	5	3	2	16	4	3	10	3	3	15	2	5	51	14	15	0	0	0
	Genetics	3	6	4	1	1	3	1	2	5	3	4	4	3	3	3	2		19	10	10			
School of Life	Basic Biology	3	6	3	2	3	1	1	1	1	1	1	2		1	2		1	9	4	7			
Science	Physiological Sciences	3	6				2	2	1	4	3	1	2	2	1	2	1		10	8	3			
	Subtotal	9	18	7	3	4	6	4	4	10	7	6	8	5	5	7	3	1	38	22	20	0	0	0
School of Advanced	Evolutionary Studies of Biosystems	5	1																0	0	0	1	1	1
Sciences	Subtotal	5	1																0	0	0	1	1	1
	Total	41	59	19	7	8	13	7	7	37	12	18	38	16	17	49	17	16	156	59	66	3	2	1

Number of International Students

(As of May 1, 2020)

Country or Region		1st yea	ır	2	nd yea		3rd ye	ar (1st y	/ear**)	4th ye	ar (2nd y	year**)	5th ye	ar (3rd y	/ear**)	5	Subtota	al	Rese	arch Stu	udent
Country or negion		*1	*2		*1	*2		*1	*2		*1	*2		*1	*2		*1	*2		*1	*2
Asia	15	5	6	11	7	6	29	11	11	34	16	15	44	15	13	133	54	51	3	2	1
India	3	2	1	2		1	3	2	3	2		2	3		1	13	4	8			
Indonesia				2	1	1				1	1	1				3	2	2			
Thailand	1		1				3	2	1	4	2	2	3		1	11	4	5			
Pakistan										4	3	4	2		1	6	3	5			
Bangladesh				1	1	1				1	1		1		1	3	2	2			
Philippines				1	1	1										1	1	1			
Viet Nam	2	1	2	2	1	2	7	4	4	5	2	3	6	3	2	22	11	13			
Malaysia	1	1	1							1			2	1	1	4	2	2			
Korea	1						3	1	1	1			2	1		7	2	1			
China	7	1	1	3	3		11	2	2	14	7	3	21	9	6	56	22	12	3	2	1
Taiwan							2			1			4	1		7	1				
Africa	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	2	0	1	0		0
Ghana				1												1					
South Africa										1		1				1		1			
Europe	3	2	2	1	0	1	7	1	6	3	0	1	3	1	2	17	4	12	0	0	0
Italia							1		1							1		1			
Austria							1		1							1		1			
Kazakhstan	2	1	1				1	1	1							3	2	2			
Spain							1		1	1		1				2		2			
Serbia	1	1	1													1	1	1			
Czech							1		1							1		1			
Hungary													1		1	1		1			
Finland							1									1					
France							1		1	2			2	1	1	5	1	2			
Poland				1		1										1		1			
Middle East	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0		0
Turkey													1		1	1		1			
North America	1	0	0	0	0	0	1	0	1	0	0	0	1	1	0	3	1	1	0	0	0
USA													1	1		1	1				
Mexico	1						1		1							2		1			
Total	19	7	8	13	7	7	37	12	18	38	16	17	49	17	16	156	59	66	3	2	1

Academic Exchange and Collaboration Agreements

SOKENDAI is promoting academic exchange and collaboration with other domestic and foreign universities through mutual agreements.

Academic Agreement with Foreign Univeristies

Country of Region	University/Institute	Corresponding Department	Date of Agreement
China	Lanzhou University	All Schools	November 12, 2019
Republic of Korea	The University of Science and Technology	All Schools	May 25, 2005
France	École Centrale de Nantes	All Schools	November 8, 2019
France	Université Paris-Saclay	All Schools	February 28, 2020
Russia	Novosibirsk State University	All Schools	March 12, 2020
Norway	UiT The Arctic University of Norway	All Schools	November 7, 2019
Taiwan	National Taiwan University College of Bioresources and Agriculture	Advanced Sciences	December 28, 2017
Republic of Korea	Korea University College of Medicine	Life Science	November 18, 2019
Thailand	Chulalongkorn University Faculty of Science	Physical Sciences	April 1, 2010
Thailand	Kasetsart University Faculty of Science	Physical Sciences	March 29, 2011
Thailand	Vidyasirimedhi Institute of Science and Technology	Physical Sciences	September 5, 2018
Malaysia	University of Malaya Faculty of Science	Physical Sciences	March 24, 2019
Indonesia	Universitas Gadjah Mada Fakulta Ilmu Budaya	Cultural and Social Studies	December 27, 2019
Viet Nam	Vietnam National University of Science Faculty of Biology	Advanced Sciences	February 8, 2017
Viet Nam	Vietnam National University of Agriculture Faculty of Animal Science	Advanced Sciences	February 15, 2017
Viet Nam	Vietnam Academy of Social Sciences Institute of Archaeology	Advanced Sciences	February 20, 2017
Bangladesh	Jahangirnagar University Faculty of Biological Sciences	Advanced Sciences	October 9, 2018
India	Indian Institute of Science Education and Research Pune	Life Science	April 18, 2011
India	Indian Institute of Science Education and Research Thiruvananthapuram	Advanced Sciences	March 27, 2020
USA	University of Hawaii at Manoa	Cultural and Social Studies	February 28, 2018
Russia	Peter the Great St. Petersburg Polytechnic University	Physical Sciences	January 23, 2019
Georgia	Georgian Technical University	High Energy Accelerator Science	February 13, 2018
Slovenia	University of Ljubljana Biotechnical Faculty	Advanced Sciences	August 28, 2018

Academic Agreement with Domestic Universities

University / Institute	Corresponding Department	Date of Agreement
Tokyo Institute of Technology All Schools	All Schools	April 3, 1995
Ochanomizu University All Schools	All Schools	April 3, 1995
Nagoya University Graduate School of Medicine	Department of Physiological Sciences of School of Life Science	April 3, 1995
Nagoya University Graduate School of Engineering	School of Physical Sciences	April 1, 2010
Jniversity of Tokyo Graduate School of Science	School of Physical Sciences / High Energy Accelerator Sciences / Multidisciplinary Sciences	March 27, 1998
Jniversity of Tokyo Graduate School of Information Science and Technology	School of Physical Sciences / High Energy Accelerator Sciences / Multidisciplinary Sciences / Life Science / Advanced Sciences	March 27, 1998
nternational Christian University Graduate School of Arts and Science	All Schools	March 24, 2000
Syoto University Graduate School of Asian and African Area Studies	Department of Regional Studies / Comparative Studies of School of Cultural and Social Studies	April 1, 2005
Osaka University Graduate School of Human Sciences	Department of Regional Studies / Comparative Studies of School of Cultural and Social Studies	April 1, 2005
Kobe University Graduate School of Intercultural Studies / Human Development and Environment	Department of Regional Studies / Comparative Studies of School of Cultural and Social Studies	April 1, 2005
Chiba University Graduate School of Humanities and Studies of Public Affairs	School of Cultural and Social Studies	April 1, 2005
lapan Advanced Institute of Science and Technology Graduate School of Advanced Science and Technology	Department of Informatics of School of Multidisciplinary Sciences	April 1, 2009
Chiba University Graduate School of Science and Engineering	School of Physical Sciences	April 1, 2010
Suda College Graduate Program in Mathematics and Computer Science	School of Multidisciplinary Science	April 1, 2015
Vaseda University School of Fundamental Science and Engineering	School of Multidisciplinary Science	April 1, 2015
Kyushu University Graduate School of Pharmaceutical Sciences	School of Life Science	April 1, 2017
Hosei University Graduate School of Sciences and Engineering	School of Physical Sciences	April 1, 2018
Nagoya University and and a School of Science/ Graduate School of Bioagiricultural Sciences/ Graduate and Parmaceutical Sciences	School of Life Science	October 1, 2019
Osaka University Graduate School of Engineering	School of Physical Sciences	June 1, 2019
Doshisha University Graduate School of Science and Engineering	School of Physical Sciences	November 1, 2019
umamoto University Graduate School of Medical Sciences	School of Advanced Sciences	November 29, 2019
he University of Shiga Prefecture Graduate School of Human Cultures	School of Cultural and Social Studies	April 1, 2020

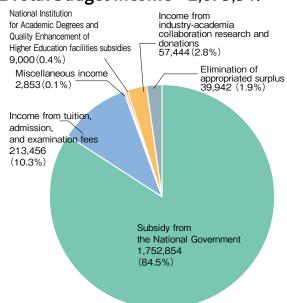
Academic Agreement with Universities in Kanagawa

	Universities/Institutes	Corresponding Department	Date of Agreement
A 1 11 2 5	Graduate School of Veterinary Science		
Azabu University	Graduate School of Environmental Health		
	Gradate School of Law Gradate School of Economics		
	Gradate School of Business Administration		
	Gradate School of Foreign Languages		
Vanantini			
Kanagawa University	Gradate School of Science		
	Gradate School of Engineering		
	Gradate School of History and Folklore Studies		
	Gradate School of Human Science		
Kanagawa Institute of	Graduate School of Engineering		
Technology	7 7		
	Graduate School of Humanities		
Kanto Gakuin University	Graduate School of Economics		
Name Gardin University	Graduate School of Law		
	Graduate School of Engineering		
	Graduate School of Science		
	Graduate School of Medical Sciences		
	Graduate School of Nursing		
Kitasato University	Graduate School of Pharmacy		
Titladato Offiverdity	Graduate School of Veterinary Medicine		
	-		
	Graduate School of Marine Biosciences		
	Graduate School of Infection Control Sciences		
Shonan Institute of	Graduate School of Engineering		
Technology	* *		
	Graduate School of Economics		
Senshu University	Graduate School of Law]Graduate School of Humanities		l==
Octiona Onliversity	Graduate School of Business Administration		January 10, 2001
	Graduate School of Commerce		
Tsurumi University	Graduate School of Leterature		
Toin University of	Graduate School of Law Graduate School of		
Yokohama	Engineering		
	Graduate School of Letters		
	Graduate School of Political Science Graduate		
	School of Economics		
	Graduate School of Law Graduate School of Arts		
	Graduate School of Physical Education		
Tokai University	Graduate School of Science		
	Graduate School of Engineering		
	Graduate School of Marine Science and Technology		
	Graduate School of Health Science		
T	Graduate School of Human Environmental Studies		
Tokyo Polytechnic University	Graduate School of Engineering		
University	Graduate School of Bioresource Sciences		
Nihon University	Graduate School of Bloresource Sciences Graduate School of Veterinary Medicine	All Schools	
	Graduate School of Human Science and Design		
	Graduate School of Humanities		
Japan Women's	Graduate School of Human Life Science		
University			
	Graduate School of Intergrated Arts and Social Science		
	Graduate School of Science		
Yokohama City	Graduate School of Medicine		
University	Graduate School of Urban Social and Cultural Studies		
O'IITOTOK)	Graduate School of Nanobioscience		
	Graduate School of Engineering		
	Graduate School of Environment and Information Sciences		
Yokohama National	Graduate School of Education		
University	Graduate School of International Social Sciences		March 20, 2020
	Graduate School of Urban Innovation		
Tolero Instituto of			
Technology	Graduate School of Bioscience and Biotechnology		
Meiji University	Graduate School of Agriculture		
	Devision of Humanities		
Ferris University			April 1, 2004
. Sittle Other Clotty	Devision of Global and Inter-cultural Studies		
	Devision of Global and Inter-cultural Studies		
INICTITLITE of	Devision of Global and Inter-cultural Studies Devision of Music		
INSTITUTE of INFORMATION	Devision of Music		April 1 2005
INSTITUTE of INFORMATION SECURITY			April 1, 2005
INFORMATION	Devision of Music Graduate School of Information Security Graduate School of Environmental and		April 1, 2005 April 1, 2007
INFORMATION SECURITY Tokyo City University Sagami Women's	Devision of Music Graduate School of Information Security		
INFORMATION SECURITY Tokyo City University Sagami Women's University	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies Graduate School of Nutritional Sciences		April 1, 2007 April 1, 2009
INFORMATION SECURITY Tokyo City University Sagami Women's University Shoin University	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies		April 1, 2007
INFORMATION SECURITY Tokyo City University Sagami Women's University Shoin University Aoyama Gakuin	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies Graduate School of Nutritional Sciences		April 1, 2007 April 1, 2009
INFORMATION SECURITY Tokyo City University Sagami Women's University Shoin University	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies Graduate School of Nutritional Sciences Graduate School of Business Administration Graduate School of Science and Engineering		April 1, 2007 April 1, 2009 April 1, 2009
INFORMATION SECURITY Tokyo City University Sagami Women's University Shoin University Aoyama Gakuin	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies Graduate School of Nutritional Sciences Graduate School of Business Administration Graduate School of Science and Engineering Graduate School of Information and Communications		April 1, 2007 April 1, 2009 April 1, 2009
INFORMATION SECURITY Tokyo City University Sagami Women's University Shoin University Shoin University University University University University University	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies Graduate School of Nutritional Sciences Graduate School of Business Administration Graduate School of Science and Engineering Graduate School of Information and		April 1, 2007 April 1, 2009 April 1, 2009 April 1, 2010
INFORMATION SECURITY Tokyo City University Sagami Women's University Shoin University Aoyama Gakuin University Bunkyo University Kanagawa Dental University	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies Graduate School of Nutritional Sciences Graduate School of Business Administration Graduate School of Science and Engineering Graduate School of Information and Communications		April 1, 2007 April 1, 2009 April 1, 2009 April 1, 2010
INFORMATION SECURITY Tokyo City University Sagami Women's University Shoin University Aoyama Gakuin University Bunkyo University Kanagawa Dental	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies Graduate School of Nutritional Sciences Graduate School of Business Administration Graduate School of Science and Engineering Graduate School of Information and Communications Graduate School of International Cooperation		April 1, 2007 April 1, 2009 April 1, 2009 April 1, 2010 April 1, 2013 April 1, 2014
INFORMATION SECURITY Tokyo City University Sagami Women's University Shoin University Aoyama Gakuin University Bunkyo University Kanagawa Dental University Kamakura Women'S University University University University	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies Graduate School of Nutritional Sciences Graduate School of Business Administration Graduate School of Science and Engineering Graduate School of Information and Communications Graduate School of International Cooperation Graduate School of Dental Sociology		April 1, 2007 April 1, 2009 April 1, 2009 April 1, 2010 April 1, 2013
INFORMATION SECURITY Tokyo City University Sagami Women's University Shoin University Aoyama Gakuin University Bunkyo University Kanagawa Dental University Kamakura Women's University Samakura Women's University School Of Medicine	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies Graduate School of Nutritional Sciences Graduate School of Business Administration Graduate School of Science and Engineering Graduate School of Information and Communications Graduate School of International Cooperation Graduate School of Dental Sociology Graduate School of Child Studies Graduate School of Medichine		April 1, 2007 April 1, 2009 April 1, 2009 April 1, 2010 April 1, 2013 April 1, 2014
INFORMATION SECURITY Tokyo City University Sagami Women's University Shoin University Aoyama Gakuin University Bunkyo University Kanagawa Dental University Kanagawa Dental University St. Marianna University St. Marianna University St. Marianna University School Of Medicine Showa University	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies Graduate School of Nutritional Sciences Graduate School of Business Administration Graduate School of Science and Engineering Graduate School of Information and Communications Graduate School of International Cooperation Graduate School of Dental Sociology Graduate School of Child Studies		April 1, 2007 April 1, 2009 April 1, 2009 April 1, 2010 April 1, 2013 April 1, 2014 April 1, 2015
INFORMATION SECURITY Tokyo City University Sagami Women's University Shoin University Aoyama Gakuin University Bunkyo University Kanagawa Dental University Kamakura Women's University St. Marianna University School Of Medicine Showa University Joshibi University	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies Graduate School of Nutritional Sciences Graduate School of Business Administration Graduate School of Science and Engineering Graduate School of Information and Communications Graduate School of International Cooperation Graduate School of Dental Sociology Graduate School of Child Studies Graduate School of Medichine		April 1, 2007 April 1, 2009 April 1, 2009 April 1, 2010 April 1, 2013 April 1, 2014
INFORMATION SECURITY Tokyo City University Segami Women's University Shoin University Aoyama Gakuin University Bunkyo University Kanagawa Dental University Kanagawa Dental University Kamakura Women's University School Of Medicine Showa University School Of Medicine Showa University Osohibi University Of Art And Design	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies Graduate School of Nutritional Sciences Graduate School of Business Administration Graduate School of Science and Engineering Graduate School of Information and Communications Graduate School of International Cooperation Graduate School of Dental Sociology Graduate School of Child Studies Graduate School of Health Sciences Graduate School of Health Sciences Graduate School of Art and Design		April 1, 2007 April 1, 2009 April 1, 2009 April 1, 2010 April 1, 2013 April 1, 2014 April 1, 2015
INFORMATION SECURITY Tokyo City University Sagami Women's University Shoin University Aoyama Gakuin University Bunkyo University Kanagawa Dental University Kamakura Women's University St. Marianna University School Of Medicine Showa University Joshibi University	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies Graduate School of Nutritional Sciences Graduate School of Business Administration Graduate School of Science and Engineering Graduate School of Information and Communications Graduate School of International Cooperation Graduate School of Dental Sociology Graduate School of Child Studies Graduate School of Medichine Graduate School of Health Sciences		April 1, 2007 April 1, 2009 April 1, 2009 April 1, 2010 April 1, 2013 April 1, 2014 April 1, 2015
INFORMATION SECURITY Tokyo City University Sagami Women's University Shoin University Aoyama Gakuin University Bunkyo University Kanagawa Dental University Kanagawa Dental University St. Marianna University St. Marianna University St. Morianna University Joshibi University Joshibi University Joshibi University Joshibi University Of Art And Design Den-En Chofu	Devision of Music Graduate School of Information Security Graduate School of Environmental and Information Studies Graduate School of Nutritional Sciences Graduate School of Business Administration Graduate School of Science and Engineering Graduate School of Information and Communications Graduate School of International Cooperation Graduate School of Dental Sociology Graduate School of Child Studies Graduate School of Health Sciences Graduate School of Health Sciences Graduate School of Art and Design		April 1, 2007 April 1, 2009 April 1, 2009 April 1, 2010 April 1, 2011 April 1, 2014 April 1, 2015

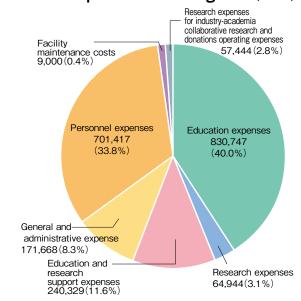
FY2020 Income and Expenditures Budget

(Yen, Thousand)

■Total budget income 2,075,549



■Total Expenditures Budget 2,075,549



Access



[Hayama campus]

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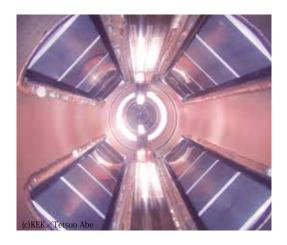
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SOKENDAI renewed our logo as we celebrate the 30th anniversary of the university's foundation in 2018. SOKENDAI represents a unique educational structure that provides intellectual knowledge at the highest standards. The ethos of the brand is mirrored 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.



For the purpose of low-emittance positron-beam injection to the main ring of the SuperKEKB accelerator, the positron damping ring started its operation in February 2018. Positron beams travel through the center of this photograph of the inside of the beam pipe attached to the RF accelerating cavity used for the positron damping ring. The tile-shaped objects seen in this photograph are microwave absorbers to remove harmful microwave

generated by positron beams passing through the inside of the accelerator, achieving stable accelerator operation.

Cover image: Beam pipe with microwave absorbers

