総合研究大学院大学 [要覧]

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SOKENDAI (The Graduate University for Advanced Studies) 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. The year 2018 will thus mark SOKENDAI’s 30th anniversary.

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 specialities 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, 2017

Profile
Graduation from School of Science, University of Tokyo.
Ph.D. degree in Anthropology from Graduate School of Science, University of Tokyo.
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 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, became a professor at the Graduate University for Advanced Studies in 2006, in 2007 dean of Department of Evolutionary Studies of Biosystems at the Graduate University for Advanced Studies, in 2011 then dean of School of Advanced Sciences, became Executive Director at the Graduate University for Advanced Studies in 2014. From April in 2017, became President of the Graduate University for Advanced Studies.
She specialized in Behavioral Ecology and Physical Anthropology, 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 SOKENDAI (The Graduate University for Advanced Studies)

Unique doctoral courses and education programs
- Three- or five-year term Ph. D. courses
- Education programs on research sites in individual “Inter-University Research Institutes”
- Tailor-made education programs
- Admission programs for foreigners and full-fledged members of society

Fostering advanced specialties and expertise
- Supervision of student researches by top-level researchers in individual fields
- Specialty-education programs in diverse research fields
- Nagakura Research Incentive Award/SOKENDAI Scientist Award/Future Scientist Award
- Practical use of collections of archives, unique equipments and facilities in “Inter-University Research Institutes”

Cultivating wide vision
- Offerings of the SOKENDAI Freshman Course
- Joint education and research activities among Departments or Schools
- Cross-disciplinary education through distance learning systems
- Utilization of internship systems in Japan and abroad

Achieving international competitiveness
- Education under international atmosphere by top-level researchers of science and technology
- Education programs of oral presentation skills
- Student programs for oversea research experiences
- Joint education with “the International Priority Graduate Programs (PGP) –Advanced Graduate Courses for International Students–”

Creating new inter-disciplinary and cutting-edge fields
- Offerings of the Interdepartmental Education Program for new fields
- Promotion of four key operations through the Center for the Promotion of Integrated Sciences
- Promotion of “Science and Society” program
- Construction of academic networks among SOKENDAI alumni (SOKENDAI-Anet)
Establishment Objectives / 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.

SOKENDAI (The Graduate University for Advanced Studies), 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 (referred to as “IURI” hereafter) 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 largest telescope in the world, the Subaru telescope, on the big island of Hawaii, or of the observation vessel, the Shirase, heading to the South Pole? Both of them are related to IURI, 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. IURIs 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 (IURI). 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 Graduate University for Advanced Studies)

1. The Graduate University for Advanced Studies [Hayama campus]
   The Center for the Promotion of Integrated Sciences
   The Center for Academic Information Services
   University Library
   Department of Evolutionary Studies of Biosystems (School of Advanced Sciences)
   Shonan Village, Hayama, Kanagawa 240-0190 Japan
   TEL: 81-46-859-1500
   FAX: 81-46-858-1542
   URL: https://www.soken.ac.jp

2. National Institutes for the Humanities
   National Museum of Ethnology
   Department of Regional Studies
   Department of Comparative Studies (School of Cultural and Social Studies)
   10-1 Senri Expo Park, Suita, Osaka, 565-8511 Japan
   TEL: 81-6-6678-8386
   URL: http://www.mirpaku.ac.jp

3. National Institutes for the Humanities
   International Research Center
   for Japanese Studies
   Department of Japanese Studies (School of Cultural and Social Studies)
   3-2 Oeyama-cho, Goryo, Nishikyo-ku, Kyoto, 610-1192 Japan
   TEL: 81-75-335-2222
   URL: http://www.nichibun.ac.jp/en/

4. National Institutes for the Humanities
   National Museum of Japanese History
   Department of Japanese History (School of Cultural and Social Studies)
   117 Jonaicho, Sakurashi, Chiba, 285-8502 Japan
   TEL: 81-43-486-0123
   URL: http://www.nihonkan.ac.jp

5. National Institutes for the Humanities
   National Institute of Japanese Literature
   Department of Japanese Literature (School of Cultural and Social Studies)
   10-3 Midori-cho, Tachikawa, Tokyo 190-0014 Japan
   URL: http://www.nijl.ac.jp

6. National Institutes for the Humanities
   National Institute of Natural Sciences
   Institute of Molecular Science
   Department of Structural Molecular Science
   Department of Functional Molecular Science (School of Physical Sciences)
   URL: https://www.isms.ac.jp/en/

7. National Institutes for the Humanities
   National Institute of Natural Sciences
   National Astronomical Observatory
   Department of Astronomical Science (School of Physical Sciences)
   2-21-1 Osawa, Mitaka, Tokyo, 181-8588 Japan
   TEL: 81-422-34-5600
   URL: http://www.nao.ac.jp

8. National Institutes for the Humanities
   National Astronomical Observatory (Mizusawa)
   2-12 Hoshigaoka, Mizusawa, Oshu, Iwate, 023-0861 Japan
   TEL: 81-197-22-7111

9. National Institutes for the Humanities
   National Astronomical Observatory (Nobeyama)
   462-2 Nobeyama, Minamimakimura, Minamisaku, Nagano, 384-1025 Japan
   TEL: 81-267-98-4300

10. National Institutes for the Humanities
    National Astronomical Observatory (Okayama)
    3037-5 Honju, Kamoigata, Asakuchi, Okayama, 719-0525 Japan
    TEL: 81-865-44-2155

11. National Institutes for the Humanities
    National Astronomical Observatory (Hawaii)
    650 North A'ohoku Place, Hilo, Hawaii 96720 U.S.A.
    TEL: 1-808-934-7788

12. National Institutes for the Humanities
    National Astronomical Observatory (Chile)
    Calle Joaquin Montero 3000, Oficina 702, Vitacura, Santiago, Chile
    TEL: 56-2-2656-9253

13. National Institutes for the Humanities
    National Institute of Natural Sciences
    Institute of Fusion Science
    Department of Fusion Science (School of Physical Sciences)
    322-6 Onoshi-cho, Toki, Gifu, 509-5292 Japan
    TEL: 81-572-58-2222
    URL: http://www.nifs.ac.jp

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

15. High Energy Accelerator Research Organization (Tsukuba Campus)
    Accelerator Laboratory-Applied Research Laboratory
    Department of Acceleration Science (School of High Energy Accelerator Science)
    Institute of Materials Structure Science
    Department of Materials Structure Science (School of High Energy Accelerator Science)
    Institute of Particle and Nuclear Studies
    Department of Particle and Nuclear Physics (School of High Energy Accelerator Science)
    1-1 Oho, Tsukuba, Ibaraki, 305-0801 Japan
    TEL: 81-57-864-1711 or 9128
    URL: http://www.kek.jp

16. High Energy Accelerator Research Organization (Tokai Campus)
    203-1 Ooza-Shinkata, Tokai-Mura, Naka-gun, Ibaraki, 319-1106 Japan

17. Research Organization of Information and Systems
    The Institute of Statistical Mathematics
    Department of Statistical Science (School of Multidisciplinary Sciences)
    10-3 Midori-cho, Tachikawa, Tokyo, 190-0562 Japan
    TEL: 81-50-5533-8500
    URL: http://www.ism.ac.jp/pindex_e.html

18. Research Organization of Information and Systems
    National Institute of Polar Research
    Department of Polar Science (School of Multidisciplinary Sciences)
    19-3 Midori-cho, Tachikawa, Tokyo, 190-0518 Japan
    TEL: 81-42-512-6008
    URL: http://www.nipr.ac.jp

19. National Institute of Polar Research
    SYOWA STATION
    Department of Polar Science (School of Multidisciplinary Sciences)

20. Research Organization of Information and Systems
    National Institute of Informatics
    Department of Informatics (School of Multidisciplinary Sciences)
    2-1-2 Hitosubashi, Chiyoda-ku, Tokyo, 101-8430 Japan
    TEL: 81-3-4212-2110
    URL: http://www.nii.ac.jp/en/

21. Research Organization of Information and Systems
    National Institute of Genetics
    Department of Genetics (School of Life Science)
    1111 Yata, Mishima, 411-8540 Japan
    TEL: 81-55-981-6720
    URL: https://www.ncia.ac.jp

The map shows the locations of the various institutes and research centers.
History

June 1962
An informal committee of the directors general of international university research institutes issues an appeal for the introduction of post-graduate courses in the institutes.

April 1966
An informal committee of the directors general of international university research institutes produces a summary of the basic concepts of a postgraduate school for advanced studies based on the results of an investigation by a working group set up to investigate issues related to postgraduate schools. An Office and Committee for the Investigation of the Preparation of the Establishment of a Postgraduate School for Advanced Studies are established at Okayama National Research Institutes.

March 1967
The Committee for the Investigation of the Preparation of the Establishment of a Postgraduate School for Advanced Studies produces a summary of the basic concepts of a postgraduate school for advanced studies.

May 1967
An Office and Committee for Preparation of the Establishment of a Postgraduate School for Advanced Studies are established at Okayama National Research Institutes.

July 1967
The Committee for Preparation of the Establishment of a Postgraduate School for Advanced Studies produces an interim summary on the preparation of the establishment of a tentatively named the Graduate University for Advanced Studies. The University begins to accept students into the new department.

April 1968
An Office and Committee for Preparation of the Establishment of the Graduate University for Advanced Studies are established at Okayama National Research Institutes.

May 1968
The "Law to amend part of the National School Establishment Law" (Law No. 63, 1968), which stipulates the establishment of the Graduate University for Advanced Studies, is announced and enacted.

September 1968
The Committee for Preparation of the Establishment of the Graduate University for Advanced Studies is inaugurated. The central administration office is established at the Tokyo Institute of Technology (Nagatsuda Campus).

October 1968
The Graduate University for Advanced Studies is inaugurated. The School of Mathematical and Physical Science and the School of Life Science are established; matriculation begins.

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

School of Life Science
- Department of Genetics
- Department of Molecular Biomechanics
- Department of Physiological Science

(May 1969 the university commences matriculation from April 1969.)

Dr. Saburo Nagakura is appointed as the first President of the University.

April 1969
The School of Cultural and Social Studies is established with the Department of Regional Studies and Department of Comparative Social Studies. The University commences matriculation of students for three schools.

January 1970
Dr. Eizi Hirota is appointed as the first Vice President of the University.

April 1971
The Coordination Center for Research and Education is established.

April 1972
The Department of Japanese Studies (School of Cultural and Social Studies), and the Departments of Astronomical Science and Fusion Science (School of Mathematical and Physical Science) are established; matriculation begins.

April 1973
The Department of Polar Science (School of Mathematical and Physical Science) is established; matriculation begins.

February 1974
Land in Hayama, Kanagawa (27,000 m²), is donated by Mitsui Fudosan Ltd. to allow the construction of the University's central administration office, as a result of the mediation services of the Kanagawa prefectural government.

March 1974
Construction of the central administration office (4,205m²) begins at the Hayama Campus.

June 1974
The Information Center for Research and Education is established.

February 1975
Administrative functions are transferred from Nagatsuda Campus to Hayama; construction is completed on the central administration building.

April 1975
Dr. Eizi Hirota is appointed as the second President. Dr. Kazuo Moriwaki is appointed as the second Vice President.

April 1977
The Department of Advanced Sciences, with the Department of Biosystems Science, is established at the Hayama Campus (matriculation begins in April 1979).

April 1977
The Department of Photoscience (School of Advanced Sciences) is established (matriculation begins in April 1979). The Department of Synchrotron Radiation Science changes its name to "The Department of Materials Structure Science."

September 1978
Construction of the School of Advanced Sciences building for research (3,006m²) begins at the Hayama Campus.

April 1979
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 1979
Construction is 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 of the University Library (1,427m²) begins at the Hayama Campus.

February 2002
Construction of the University Library is completed.

April 2002
Department of Informatics established in the School of Mathematical and Physical Science; matriculation begins.

April 2003
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 implemented the five-year Ph.D. program system in addition to the three-year system. The School has begun to accept students.

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 Ph.D. program system in addition to the three-year system. The Schools have begun to accept students.

April 2007
The School of Advanced Sciences has reorganized the Department of Biosystems Science and the Department of Photo Science (both have provided only 3-year doctoral course) into the Department of Evolutionary Studies of Biosystems (which offers both 3-year and 5-year doctoral course) and started accepting students into the new department.

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 was 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. Marko Hasegawa has been appointed as the sixth President.
Education and Research Council  As of April 1, 2017

President  Hasegawa, Mariko
Executive Director  Nakamura, Yukio
Executive Director (Executive Vice President)  Nagata, Takashi
Dean of School of Cultural and Social Studies  Yamashita, Noriko
Dean of School of Physical Sciences  Ishikawa, Takehiko
Dean of School of High Energy Accelerator Science  Ogawa, Yujiro
Dean of School of Multidisciplinary Sciences  Imura, Satoshi
Dean of School of Life Science  Iwasato, Takaji
Dean of School of Advanced Sciences  Sasaki, Akira
Chair of the Department of Regional Studies  Saito, Akira
Chair of the Department of Japanese Studies  Ito, Takayuki
Chair of the Department of Japanese History  Sakamoto, Minoru
Chair of the Department of Japanese Literature  Hayashi, Masahiko
Chair of the Department of Functional Molecular Science  Takeiri, Yasuhiko
Chair of the Department of Basic Biology  Kawai, Maki
Chair of the Department of Physics  Hayashi, Masahiko
Chair of the Department of Astrophysical Sciences  Takeiri, Yasuhiko
Chair of the Department of Astronomical Science  Kawai, Maki
Chair of the Department of Fusion Science  Ochiai, Hiroshi
Chair of the Department of Nuclear Science  Matsuhara, Hideo
Chair of the Department of Accelerator Science  Honda, Tohru
Chair of the Department of Materials Structure Science  Kawata, Hiroshi
Chair of the Department of Solid State Science  Miyasato, Yoshikiko
Chair of the Department of Life Science  Motoyama, Hideaki
Chair of the Department of Fusion Science  HU, Zhenjiang
Chair of the Department of Inorganic Chemistry  Katsura, Isao
Chair of the Department of Evacuation Studies of Biostems  Yamamoto, Masayuki
Chair of the Department of Comparative Studies  Imoto, Keiji
Chair of the Department of Biological Sciences  Arikawa, Kentaro
Professor of the Department of Statistical Science  Yoshida, Kenji
Professor of the Department of Japanese Studies  Komatsu, Kazuhiko
Professor of the Department of Japanese History  Kurushima, Hiroshi
Professor of the Department of Statistical Science  Higuchi, Tomoyuki
Professor of the Department of Polar Science  Shiraiashi, Kazuyuki

Administrative Council  As of April 1, 2017

Internal representatives

President  Hasegawa, Mariko
Executive Director  Nakamura, Yukio
Executive Director (Executive Vice President)  Nagata, Takashi
Secretary-General  Higano, Takashi

External academics and specialists

Executive Director, Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency  Tsuneta, Saku
Chief Executive Director, National Museum of Emerging Science and Innovation  Mohri, Mamoru
President, National Institutes for the Humanities  Tachimoto, Narifumi
President, Research Organization of Information and Systems  Fujii, Ryoichi
Professor, Research Institute for Science and Technology, Tokyo University of Science  Kuroda, Reiko
Adviser, Shiseido Co., Ltd.  Genma, Akira
Trustee, Nagoya University  Go, Mitiko
Professor/Executive Officer, University of Tsukuba  Tokunaga, Tamotsu
President, National Institutes of Natural Sciences  Komori, Akio
Director General, High Energy Accelerator Research Organization  Yamauchi, Masanori
Director, Tamarokuto Science Center  Takayanagi, Yuichi
Director General, National Institute of Informatics, Research Organization of Information and Systems  Kitsuregawa, Masaru
Research and Education System

SOKENDAI is affiliated with parent institutes (“Kiban Kikan," in Japanese), consisting of 17 Inter-University Research Institutes operated by four Inter-University Research Institute Corporations and one research institute of the Japan Aerospace Exploration Agency. SOKENDAI offers both a “dispersed” and an “integrated” research and education system: “dispersed” in that research and education on discipline-specific, advanced are carried out at each parent institute; “integrated” in that interdisciplinary research and education, including those in disciplines in which the parent institutes specialize, are provided. SOKENDAI also offers interschool/departmental education programs that meet new academic wishes and development.

University Organization (2017)

SOKENDAI is affiliated with parent institutes (“Kiban Kikan," in Japanese), consisting of 17 Inter-University Research Institutes operated by four Inter-University Research Institute Corporations and one research institute of the Japan Aerospace Exploration Agency. SOKENDAI offers both a “dispersed” and an “integrated” research and education system: “dispersed” in that research and education on discipline-specific, advanced are carried out at each parent institute; “integrated” in that interdisciplinary research and education, including those in disciplines in which the parent institutes specialize, are provided. SOKENDAI also offers interschool/departmental education programs that meet new academic wishes and development.
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.

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 Ethnology 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 accepting students for the first term of a doctoral course (Master).

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 Ethnology 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 accepting students for the first term of a doctoral course (Master).

Developing research skills through fieldwork with the Hmong people in Sa Pa, Vietnam (Photo IMAI Akitoshi)

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

| Yamashita, Noriko |
| Dean |
| School of Cultural and Social Studies |
| Special field: Japanese early-modern literature, preforming arts, ukiyo-e |

Asian Studies
European Studies
African Studies
American Studies
Oceanian Studies

For inquiries or information:
E-mail: souken@dc.minpaku.ac.jp
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.

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<td>Social/Cultural Anthropology</td>
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<td>Anthropology of Religion</td>
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<td>Anthropology of Technology</td>
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<td>Anthropology of Art</td>
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<td>Cultural Resources</td>
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For inquiries or information:
E-mail: souken@idc.minpaku.ac.jp

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.

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

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For inquiries or information:
E-mail: senkou@nichibun.ac.jp
Department of Japanese Literature

The Department of Japanese Literature is affiliated with the National Institute of Japanese Literature (NIJL) as the parent institute. The NIJL, one of the Inter-University Research Institutes, is an advanced research institute for Japanese literature and collects and studies an enormous volume of academic information based on research of original literary materials. The Department guides students to become independent researchers through dissertation/thesis guidance and, in the use of the collection of original texts and literary resources at the NIJL, provides students with an education focusing on mastering of specialized research and investigation techniques and the acquisition of comprehensive analytic ability.

The Department aims to nurture researchers who are international-minded with broad perspectives and contribute to societies by providing students with education through systematic curriculums under a system which provides guidance to students from a group of faculty members, as well as from individual faculty members.

Website:
http://www.rekihaku.ac.jp/english/education_research/education/graduate_school/index.html

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.

Website:
http://www.rekihaku.ac.jp/english/education_research/education/graduate_school/index.html

Lecture utilizing museum collection
About 230,000 of historical, folkloric and archaeological artifacts as well as advanced research 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
- Basic Seminar I ・ II / Intensive Lectures A ・ B ・ C

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

Library
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 the Institute for 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.

Department of Structural Molecular Science

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

Material properties studied by x-ray photoelectron spectroscopy Analysis of electronic Structures and properties of air-sensitive matters using x-ray photoelectron spectrometer

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

Ishikawa, Takehiko
Dean
School of Physical Sciences
Special field: Physical Science using microgravity

Electronic Structure
Material Chemistry

For inquiries or information:
E-mail: r7139@orion.ac.jp
Education and research are primarily directed towards, firstly, unveiling the underlying mechanisms of various functions of materials at the atomic or molecular level, and secondly, the design and generation of new functional properties of molecules and molecular assemblies. Advanced training and research are conducted in the field of functional molecular science with an emphasis on the development of modern techniques for functional analysis and novel theoretical approaches.

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

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
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.

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**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.

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**Department of Fusion Science**

- **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

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**Department of Space and Astronautical Science**

- **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

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Large Helical Device (LHD)

Asteroid explorer “Hayabusa2”
The spacecraft is touching down to a newly created crater.
©Akihiro Ikeshita
High-energy particle accelerators are extremely powerful tools for exploring a wide range of building blocks and structures found in nature, from elementary particles and atomic nuclei to atoms, molecules, and even complex living organisms. In addition, beyond the field of natural science, applications of particle accelerators are being actively pursued in the fields of industry and medical science.

In the Department of Accelerator Science, students can conduct both theoretical and experimental research on the principles of accelerators and their related leading edge technologies, and thereby endeavor to further advance natural science through the development of particle accelerators. Closely related subjects, such as radiation science, computer science, superconductivity engineering, and mechanical engineering can also be studied.
At the Institute of Materials Structure Science, we pursue leading edge researches on structures, functions and characteristics of hard to soft materials. 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. We are also developing novel technologies for beam production and its utilization to make major contributions to materials science.

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.

The crystal structure of the world-best lithium-ion-conducting material Li_{10}GeP_{2}S_{12} was determined by neutron diffraction and synchrotron radiation. (Left to right) the crystal structure of Li_{10}GeP_{2}S_{12}, its framework, the conduction paths of lithium ions are shown. Zigzag conduction pathways along the c axis are indicated.

For inquiries or information:
E-mail: kyodo2@mail.kek.jp
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 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

Imura, Satoshi
Dean
School of Multidisciplinary Sciences
Special field: Ecology

Department of Statistical Science

Statistical science researches statistical models and methods for rational inference, effective prediction and discovery of new knowledge based on the effective use of data in the face of complex and uncertain phenomenon and information explosion. The Department of Statistical Science, which is based on the Institute of Statistical Mathematics (ISM) serving as its underlying platform, intends to cultivate individuals who possess creative research and educational skills and contribute to solving various important intricately-intertwined issues through extraction of information and knowledge from the real world taking advantage of their skills in modeling, prediction, inference, and collection of data, while conducting research and education on their foundations, i.e., mathematics, computation, and applications.

Imura, Satoshi
Dean
School of Multidisciplinary Sciences
Special field: Ecology

For inquiries or information:
E-mail: kenkyo@ism.ac.jp
Informatics is a new science field which deals with many problems on information extensively and synthetically. It is a multidisciplinary science which covers traditional information science and engineering, as well as humanity informatics and social informatics. It includes expression, collection, circulation, management, processing and usage of information as well as the information technology (IT) for supporting 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 atmosphere with many researchers and students from various countries.

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

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 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.

Polar Science

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

For inquiries or information:
E-mail: kyokuiki@nipr.ac.jp

Department of Polar Science

Department of Informatics
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.

Departments under the School

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

Department of Genetics

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

Lively discussions are often held in the laboratories.

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 top-end techniques including molecular biology, bioimaging, mathematical science and omics.

Model organisms used at Department of Basic Biology

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 form 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 Department of Physiological Sciences are working on using different experimental procedures

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

COURSES

Molecular and Cellular Physiology
Homeostatic Regulation
Fundamental Neuroscience
System Neuroscience

For inquiries or information:
E-mail: r7139@orion.ac.jp
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: the Department of Evolutionary Studies of Biosystems. Our mission is to perform research and education in the fields of evolution and science and society. The evolution section focuses on the diversity and evolutionary history of organisms, and consists of four subsections: integrative anthropology, behavioral biology, evolutionary biology and theoretical biology. The science and society section studies the roles and responsibilities of scientists within society, from the viewpoint that science is a social activity of humans. Students carry out Ph.D. research in their own field, but are also required to write a subthesis in the other one: biology students write a subthesis on science and society, and vice versa. The barriers between laboratories have been removed as far as possible, which makes for an intense, intimate educational environment for all students and faculty. We thus hope that all of our students will become competent and well-balanced researchers / professionals.

In addition, our school – together with the Center for Promotion of Integrated Sciences at Hayama – contributes to organizing courses for all of SOKENDAI. We also actively promote international and domestic collaborations with other universities and research institutes, to plant the seeds for fruitful future research fields.

Departments under the School

- Department of Evolutionary Studies of Biosystems

Sasaki, Akira
Dean
School of Advanced Sciences
Special field: Mathematical Biology

Department of Evolutionary Studies of Biosystems

Since the origin of life 3.8 billion years ago, an extremely diverse collection of living organisms has populated the Earth. The concept of evolution is key to understanding the history and diversity of life, and also provides a theoretical framework linking the various levels of biology. Even human society can be viewed through the lens of evolution. Students will be trained to be world-class scientists in their own research field. At the same time, we offer courses covering not only a wide range of biological topics but also the relationship between science and society. This comprehensive training program aims to broaden our students’ perspectives, in order that they will become professionals able to contribute to developing a sustainable global society in the future.

COURSES

A. A swallowtail butterfly feeding on nectar on the Mondrian pattern
B. Chromosome images with the multicolor fluorescence in situ hybridization (FISH) method (crab-eating monkey; 2n = 42)
C. Bones of horses excavated in Mongolian remains
D. Forecasting evolution of influenza virus by using a mathematical mode
E. Field exercise at Morito River
F. Meerkats form a family group and demonstrate various cooperative behaviors among related individuals.

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
Interdepartmental Program

It is our general education policy that the SOKENDAI fosters young researchers who have a broad perspective, high-level expertise, logicality and technique. At the same time, the university offers interschool/departmental education programs that meet new academic wishes and development.

Comprehensive Subjects Program

SOKENDAI Freshman Course

This program is an intensive retreat course offering an invaluable opportunity to interact with students and professors from different departments, with whom you have few chance to meet. It also aims at guiding students to a fulfilling experience, by delivering SOKENDAI’s goals that indicates what all the students must acquire as a researcher.

- 2016 fiscal year (First semester) Date: April 4-7, 2016
- 2016 fiscal year (Second semester) Date: October 3-6, 2016

“Science and Society” Program

SOKENDAI 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 “science and society” course as well as workshops to discuss various issues pertinent to a specialized field of science. 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).

SOKENDAI Brain Science Joint Program

Brain Science Joint Program was set up as a model case of the interdisciplinary education system initiated by Dept. Physiological Sciences and created a new curriculum for SOKENDAI students to learn extensive fields in Brain Science with the cooperation of other related Departments (Basic Biology, Genetics, Informatics, Statistical Science, Evolutionary Studies of Biosystems).

All lectures are being delivered by remote lecture system, which enables students to attend from the distant departments. We cordially expect your active participation from various backgrounds.

Integrative Bioscience Education Program

To foster the development of young researchers who can contribute to the future of biology, we need a new graduate program that promotes interdisciplinary and integrative views of biological processes, covering not only biological but also physical, mathematical, and information sciences. A new curriculum of Integrative Bioscience will thus be developed and implemented in this program, utilizing notable features of SOKENDAI: graduate school education at cutting-edge national research institutes in diverse fields.

Academic Resource Management Program

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

Course-by-Course Education Program to Cultivate Researchers in Physical Science with Broad Perspectives

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).
Joint School Seminars

◇ SOKENDAI Cultural Forum / School of Cultural and Social Studies
December 10-11, 2016 at International Research Center for Japanese Studies
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
January 12-13, 2017 at High Energy Accelerator Research Organization
School of Physical Sciences and School of High Energy Accelerator Science organize the multidisciplinary Physical Science Student Seminar as a part of their course curriculums. Every one-and-a-half 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.
The project is also expected to offer a gateway for multidisciplinary collaborations.

◇ Multidisciplinary Sciences Cross Talks / School of Multidisciplinary Sciences and School of Life Science (Department of Genetics)
September 29-30, 2017 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
October 24-25, 2017 at Shizuoka 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.

Internship Program

This program is designed to financially support students who wish to participate in international collaborative and field research activities in universities, institutes, or companies in Japan or abroad for their future career development. The underlying objective of the program is to foster researchers with high expertise and broad perspectives, and promote an understanding of cross-disciplinary cooperation and social relationships.

FY 2016
Number of students supported by this program: 9
Countries and regions of visiting institutes: USA, UK, Italy, Switzerland, Germany, China, France, Kobe (Japan)
The Center for the Promotion of Integrated Sciences

CPIS is a research and education facility at the heart of this multidisciplinary university, and its central aims are to promote free and open academic interactions across various academic disciplines and to pioneer interdisciplinary and cutting-edge fields of academic research.

The center’s current programs focus on the following three aspects of research and education activities. The details of each projects can be found on our web-site: http://cpis.soken.ac.jp/

The Programs for Multidisciplinary Coordination in Education

Interdisciplinary Lectures for the 2016 fiscal year

The program aims to offer intensive courses in order to provide “education unique to SOKENDAI”, including interdisciplinary themes leading to development of new academic areas and solutions of important relevant issues faced by modern society, and themes for lectures preferable to be attended by students across specialty areas, as well as to provide support for education programs to improve the learning of integrated science for students of SOKENDAI with wide-ranging vision across specialty areas.

Subject: Introduction to the ethics of animal
In charge: Tsukahara, Naoki (The Center for the Promotion of Integrated Science)
Date: July 23 - July 24, 2016
Venue: SOKENDAI Hayama Campus

Subject: Grand United Natural History I (Space and Earth)
In charge: Kamada, Susumu (The Center for the Promotion of Integrated Sciences)
Date: July 25, 2016 (Remote Lecture), September 7 - September 9, 2016
Venue: KEK Tsukuba campus, JAXA Tsukuba campus, Geological museum AIST

Subject: Science Communications
In charge: Kurata, Tomoko (Department of Basic Biology, School of Life Science)
Date: August 8 - August 10, 2016
Venue: Nobeyama Radio Observatory, NAOJ

Subject: Advanced measurements and control systems for science
In charge: Matsuo, Hiroshi (Department of Astronomical Science, School of Physical Sciences)
Date: October 4 - October 7, 2016
Venue: Nobeyama Radio Observatory, NAOJ

Subject: Basic digital circuit design for measurement and control system development
In charge: Nakanishi, Hideya (Department of Fusion Science, School of Physical Sciences)
Date: October 26 - October 28, 2016
Venue: NIFS, Toki campus

Subject: Training course on symmetry and group theory - basic course
In charge: Kamiyama, Takashi (Department of Materials Structure Science, School of High Energy Accelerator Science)
Date: March 6 - March 10, 2017
Venue: KEK, Tsukuba campus

Grand United Natural History

In the fiscal year 2015, the study group was organized for the course development of “Grand United Natural History” and several workshops were held to discuss the basic concept of the course. In the fiscal year 2016, the intensive course “Grand United Natural History I (Space and Earth)” was opened as the experimental implementation of the course. The study group evaluated the results of the trial and now is working on preparation of the subsequent trial course “Grand United Natural History II (Life and Humanity)” for the next fiscal year 2017 as well as exploring the concept of “Life and Humanity”.

CPIS Student-Initiated Programs

The Center for the Promotion of Integrated Sciences (CPIS), under the SOKENDAI’s education and research philosophy, invites proposals for the student-initiated programs that include interdisciplinary exchanges (of multiple schools/departments to plan and implement a program), research seminars, study workshops, and others. Through the student-initiated programs, we aim at training our students to gain a broad vision and to acquire practical problem-solving skills.

Theme: For The Acquisition of Research Funds
In charge: Seiko, Takashi (Department of Evolutionary Studies of Biosystems, School of Advanced Sciences)
Date: September 19, 2016
Venue: TKP conference center
The Programs for Multidisciplinary Coordination in Research

The Center for the Promotion of Integrated Sciences engages in various research support activities under its Programs for Multidisciplinary Coordination in Research in order to promote joint research projects that utilize SOKENDAI's unique characteristics, as well as creative research that falls outside conventional academic disciplines. There are currently three categories of support provided: 1) Promotion of cross-disciplinary joint research programs based on internal application, 2) Proposals for interdisciplinary research coordination (Promising Research Group support, etc.), and 3) Publication support for students. In concrete terms, the category of cross-disciplinary joint research programs provides three or two years of support, respectively, for research expenses related to “Global Collaborative Research Projects” and “Interdisciplinary Research Projects” with the goal of promoting creative, international scientific research that transcends conventional academic disciplines and of developing advanced academic fields that contribute to society in keeping with SOKENDAI's four guiding keywords: “cross-disciplinary cooperation,” “societal collaboration,” “institute collaboration” and “international collaboration.” Research outcomes for topics selected for this program are presented at a public research presentation held annually on SOKENDAI's Hayama campus.

The Global Collaborative Research Project

In this program, fostering comprehensive researchers who have a high level of expertise, wide perspective, and who are internationally viable, deepening the bond with graduates, and leading to strengthen the formation of SOKENDAI’s academic exchange by having our university students and graduates participate in the cross-cutting research subjects in this program and collaborative researches opened at home and abroad are also the goals of this project. Contributing to the opportunity for diligent research in the international collaborative researches and research exchange for the students and young faculties of our university by having the researchers from overseas research institutes participate in the collaborative researches will be evaluated.

The Interdisciplinary Research Project

We actively provide support for the proposal of the collaborative research aimed at promoting/strengthening the inter-infrastructural majors having different graduate courses and institutions. In this project, creating new academic disciplines, cooperating different field of collaborative research, and the research subject for which the outcome with social significance are expected.

The Exploratory Research Workshop Support

In order to promote the early-stage research conducted by multiple researchers from various departments, CPIS supports the cost for holding exploratory research workshops. 4 workshops were supported in the fiscal year 2016.

The Publication Support for Students

The publishing cost support of the printing expenses up to 200,000 yen per publication was 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 19 publications were supported in the fiscal year 2016.
The Programs for Infrastructural Development

Promotion of Interdisciplinary Communication

To support inter-department research, education programs, and communication at SOKENDAI, we visit all the departments and prepare a report on each activity. In order to develop our university network, we use our official website, YouTube, and Facebook to share information about our interdisciplinary activities.

We provide the following information on our website:

1) Activity report about CPIIS projects
Our website covers activity reports about interdisciplinary lectures, planning meetings of SOKENDAI research projects, student-initiated interdisciplinary educational programs, and other CPIIS projects along with images.

2) Public relations for faculties and students using video contents
To inform faculty members and students about CPIIS projects, we provide video content on interdisciplinary lectures, SOKENDAI research projects, student-initiated interdisciplinary educational programs, and other projects through YouTube.

3) Interactive bulletin board for researchers
This webpage is for researchers who have some idea about interdisciplinary research. Researchers can use the webpage to seek research partners.

4) CPIIS blog
The CPIIS blog promotes the interdisciplinary activities of faculties and students, interdisciplinary lectures, planning meetings of SOKENDAI research projects, student-initiated interdisciplinary educational programs, and other projects.

Distance Learning Support

The Center for the Promotion of Integrated Sciences engages in activities to support distance learning for the entire university, including interdepartmental education programs.

In AY2016, CPIIS engaged in activities to support education at SOKENDAI, such as providing support for the creation and distribution of synchronous and asynchronous course content.

In AY2017, CPIIS will again engage in such educational support activities.

Symbol of SOKENDAI
The eight circles represent Chinese character “eight” that spreads out like an open fan, symbolizing SOKENDAI’s continuous efforts to further the principles of its foundation. The connection of the circles indicates close connection and cooperation between SOKENDAI and its parent institutes (Inter-University Research Institutes). The circles also mean harmony. The inner halves of the peripheral circles facing the center circle represent the unity of the University; they convey that SOKENDAI provides advanced research and education in an integrated manner through the tradition and uniqueness of the parent institutes as well as the openness of the University in Japan and overseas.

The outer halves of the peripheral circles spreading outward represent the hope of creating and developing advanced scientific fields and nurturing creative researchers with broad perspectives. The SOKENDAI logo is a registered trademark.
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, the HRMS (High-Resolution Molecular Spectroscopy Database), a database of SOKENDAI faculty's education and research outcomes, the Sakyo Komatsu Corpus, the Jomon Shellmound Database, and the Fowl Collection.

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.

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### Number of academic materials available at the Library

<table>
<thead>
<tr>
<th>Type</th>
<th>Japanese</th>
<th>Non-Japanese</th>
</tr>
</thead>
<tbody>
<tr>
<td>Book</td>
<td>approx. 22,700 titles</td>
<td>approx. 24,900 titles</td>
</tr>
<tr>
<td>Journal</td>
<td>approx. 140 titles</td>
<td>approx. 320 titles</td>
</tr>
<tr>
<td>E-book</td>
<td>approx. 56,000 titles</td>
<td>approx. 5,800 titles</td>
</tr>
<tr>
<td>E-journal</td>
<td>approx. 4,800 titles</td>
<td></td>
</tr>
<tr>
<td>Institutional Repository</td>
<td>approx. 4,800 titles</td>
<td></td>
</tr>
</tbody>
</table>

As of April 1, 2017

### 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](http://www.lib.soken.ac.jp)

### Database for Sakyo Komatsu Corpus

Database for the bibliography of Sakyo Komatsu's works.

### Database for the Jomon Shellmound

Database for the sites from which the faunal sediments are excavated.

### Database for the Fowl Collection

Database for the folk crafts etc of which the motif are the Fowls.

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For inquiries or information:

**University Library**

TEL: 81-46-858-1528
FAX: 81-46-858-1607
E-mail: lib@ml.soken.ac.jp
Cooperating with the affiliated research institutes and museums, this division manages core information facilities and operates information systems located at the Yokohama Data Center and the Hayama Campus.

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.

Tele-learning Assistant System at SOKENDAI
The system promotes inter-departmental activities and supports education and research with broad and deep perspectives.

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@m1.soken.ac.jp

Monument “COSMOS”
A work by Kyu SUZUKI
With its important theme of “Life”, the monument is a sculpture reminiscent of the natural world including sprouts of plant and ear of rabbit making your imagination expand infinitely when you touch it, and the title “COSMOS” has both meanings of space and name of a flower.
Short-Stay Study Abroad Program

This program is supported by a grant from the University that enables students to take part in international joint research projects. It provides students opportunities to study at cutting-edge research institutes abroad and to pursue in-depth study with a number of prominent researchers. It aims at fostering highly specialized world-class researchers who have global perspectives. Students are able to gauge the positioning of their own research and forge friendships and make exchanges with new colleagues.

FY2016
Number of students supported by this program: 10
Countries and regions of visiting institutes: USA, China, Germany, Switzerland, Ireland

Program to Coordinate Education and Research

This program is part of SOKENDAI's efforts to promote internationalization. It seeks to strengthen organizational coordination with foreign research institutions and universities and help build SOKENDAI's international network by supporting SOKENDAI faculty engaged in field studies and joint research activities that strengthen coordination in education with foreign universities, research institutions, and the like.

FY 2016
Number of faculty sent: 6
Faculty destinations: USA, India, South Korea, Switzerland, Canada, Singapore

Program to Invite Foreign Students and Researchers/Scholars

This program supports activities that heighten the international competency of SOKENDAI’s educational and research environment and help to strengthen the international network for graduates who will work overseas by inviting foreign students and researchers/scholars to Japan to participate in joint research and joint seminars.

FY 2016
Number of activities: 12

Support Program for International Research Conferences

This program is part of SOKENDAI's efforts to promote internationalization. It seeks to encourage international academic exchange and help strengthen awareness of SOKENDAI as a strong promoter of international collaboration by partially subsidizing domestic and foreign international research conferences (international symposiums, international forums, international seminars, etc.) that meet certain criteria.

FY 2016
Number of events: 11

UST-SOKENDAI Joint Seminar

This joint seminar organized by SOKENDAI and University of Science and Technology(UST) promotes an interaction of research by participation of both University students. UST in Korea and SOKENDAI has a similar research and education system affiliated with national research institutes. Based on evaluation of seminars held twice in the past, we discussed how to achieve broader educational interaction in the last fiscal year.
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 provides an orientation session during the first week of the program at the Hayama campus. It comprises Japanese language lessons, special lectures on Japanese culture and research, and a poster session in which SOKENDAI students will also participate to exchange ideas and opinions with JSPS Summer Program fellows from all over the world. Under the program young pre- and post-doctoral researchers from academically-advanced countries are invited to the University with the collaboration of inter-university research institutes and other universities. This program, which is supported by JSPS, provides guest researchers with an opportunity to experience Japanese research and education.

Opening Ceremony and Orientation
Date: June 15-21, 2016
Venues: SOKENDAI Hayama Campus, Shonan Village Center

Research Report Presentation and Farewell Party
Date: August 23, 2016
Venues: Hotel Grand Palace (Tokyo)

Research Experience at Host Institutions
Date: June 22-August 22, 2016
Venues: IURIs, Universities

<table>
<thead>
<tr>
<th>Invited researchers for the 2011 fiscal year</th>
<th>Invited researchers for the 2012 fiscal year</th>
<th>Invited researchers for the 2013 fiscal year</th>
<th>Invited researchers for the 2014 fiscal year</th>
<th>Invited researchers for the 2015 fiscal year</th>
<th>Invited researchers for the 2016 fiscal year</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA 64</td>
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<td>USA 66</td>
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<td>UK 9</td>
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<td>France 11</td>
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<td>Canada 10</td>
<td>Canada 10</td>
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<tr>
<td>Total 99</td>
<td>Total 109</td>
<td>Total 113</td>
<td>Total 115</td>
<td>Total 115</td>
<td>Total 115</td>
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</tbody>
</table>

English Presentation Skills

Lectures for the purpose of obtaining practical abilities to internationally appeal attractiveness of research are held targeting the students of this university in conjunction with the orientation of the JSPS Summer Program. Students participate in a group discussion and a poster session held in the orientation, and practice the introduction of their research in English, after receiving guidance from English teachers.
The Public Relations Office serves as a liaison that handles public relations for SOKENDAI. To promote and develop science and to disseminate excellent research results to the public, the Office communicates to the public the outcomes of education and research activities at SOKENDAI. Its public relations activities include press releases on education and research outcomes and activities toward local communities, media relations, online information disclosure, organization of Science Cafes and public lectures and publication of SOKENDAI New Letters.

Press Release

Research findings in FY 2016 published on the following six papers are press released and subsequently appeared in newspapers and various media:

◇ Molecular logic behind the three-way stochastic choices that expand butterfly colour vision
◇ A partial nuclear genome of the Jomons who lived 3,000 years ago in Fukushima

A group led by professor Naruya Saitou of Department of Genetics and Dr. Hideaki Kanzawa (now researcher at National Museum of Nature and Science), who was supervised by him and awarded Ph.D. from SOKENDAI in 2014, have extracted DNA from dental pulp of Jomon people excavated from Sanganji shell mound located at north part of Fukushima Prefecture, and succeeded in decoding a part of the nuclear genome. This time, 115 million base pairs of DNA sequences of the genome have been determined which contain thousands times more information of mitochondria DNA. It has been proved that Jomon people were most closely related to Ainu, followed by Okinawan and the mainland Japanese. In addition, it has been also shown that Jomon people branched off earlier than any other people when ancestors of the modern people migrated from Africa to East Eurasia and that percentage of Jomon people genome succeeded to modern mainland Japanese was estimated to be less than 20%.

A press release was held to disclose the research outcomes and they were taken up by various media.

◇ Acropora digitifera encodes the largest known family of fluorescent proteins that has persisted during the evolution of Acropora species
◇ A Lin28 homolog reprograms differentiated cells to stem cells in the moss Physcomitrella patens
◇ The pitcher plant Cephalotus genome reveals genetic changes associated with carnivory
◇ Historical space weather monitoring of prolonged aurora activities in Japan and in China

Community Programs

With the aims of making the accumulated research findings of the University broadly available to the public, opening up the University to the public, and deepening exchanges with the local community, we proudly participate in the “Shonan Village Festival” in Shonan Village, which is home to the Hayama Campus. In addition, we also sponsor Science Cafes in Zushi city.

◇ Shonan Village Festival
    Kataoka, Ryuho (Associate Professor at the Department of Polar Science)
  -Science Cafe: “Communicating Science”
  -Stargazing Session: “Enjoying the Spring Night Sky”
  Date: May 3, 2016

◇ Science Seminar for Junior High and High School Students
  -Second Opportunities for Primary School Students in Bangladesh
    Uchikawa, Sayaka (Assistant Professor at the Center for the Promotion of Integrated Sciences)
  Date: July 27, 2016

◇ Science Café
  -“Investigating Arctic Weather and Sea Ice”
    Inoue, Jun (Associate Professor at the Department of Polar Science)
  Date: February 12, 2017

◇ “Yokoko Academia” organized by 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. Last year, we sent our seven lecturers to the “Academia”at seven seminars. The school was designated as a Super Science High School by the Ministry of Education, Culture, Sports, Science and Technology last year.

For inquiries or information: Public Relations Office
TEL : 81-46-858-1590  FAX : 81-46-858-1632
E-mail : kouhou1@ml.soken.ac.jp
Society and Community Outreach Activities

Academic Lectures hosted by the School of Advanced Sciences

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

■ The 19th Academic lecture for FY 2016
  Lectures: Can psychopathy be branded as “evil”? - Seeking adaptive functions of psychopathy from the Evolutionary psychology perspective
  Yokota, Kunihiro (Research Fellowship in School of Advanced Sciences)

  Lectures: Did Jomon people cultivate beans? - Pottery impressions revealed new insights of Jomon plant use
  Nasu, Hiroo (Assistant Professor at the Department of Evolutionary Studies of Biosystems)

  Date: November 3, 2016
  For inquiries or information : Hayama Office
  TEL : 81-46-858-1577, 1595
  FAX : 81-46-858-1544
  E-mail : office_sendou@ml.soken.ac.jp

SOKENDAI Alumni Network

We have organized “SOKENDAI Alumni Network” in which our alumni enjoy academic exchange with SOKENDAI faculty and students towards closer inter-disciplinary and international cooperation among SOKENDAI community and all the members jointly contribute to further development of SOKENDAI education and research activities through their enthusiastic collaborations.

For inquiries or information: Anet Office
  E-mail: soken-anet@ml.soken.ac.jp

University Evaluation

With the aim of improving education and research, SOKENDAI has implemented a self-inspection and evaluation system for its educational and research activities. In addition, third parties assess the results of the self-inspection and evaluation to identify problems to be solved or improved.

■ "External evaluation of the School of Advanced Sciences" (November, 2004 / January, 2013)
■ "Third-party evaluation on the Office for Inter-departmental Activities" (March, 2007)
■ "Certified Evaluation and Accreditation" (March, 2008 / March, 2014)SOKENDAI was evaluated by the National institution for Academic Degrees and University Evaluation, NIAD-UE, according to its University Evaluation Standards. SOKENDAI was accredited with the rating that it fulfills the University Evaluation Standards set by NIAD-UE.
■ "National University Corporation Evaluation (Annual plan and mid-term plan)"

For inquiries or information: Planning Section
  TEL: 81-46-858-1584
  FAX: 81-46-858-1542
  E-mail: irdiv@ml.soken.ac.jp

SOKENDAI Newsletter

Our monthly 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 Only)

https://www.soken.ac.jp/disclosure/pr/publicity/newsletter/
SOKENDAI People

Our Nobel Prize Laureates

Professor Emeritus, School of Life Science

Yoshinori Ohsumi
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

Professor Emeritus, School of High Energy Accelerator Science

Makoto Kobayashi
Professor Emeritus, 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
2008 Order of Culture

The list of professors who received famous prizes or held an honorable positions in international academic society

<table>
<thead>
<tr>
<th>Name</th>
<th>Prize/Achievement</th>
<th>Research Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohta, Tomoko</td>
<td>Order of Culture (2016)</td>
<td>Nearly Neutral Theory</td>
</tr>
<tr>
<td></td>
<td>The Crafoord Prize (2015)</td>
<td></td>
</tr>
<tr>
<td>Suematsu, Yasuharu</td>
<td>Order of Culture (2015)</td>
<td>Optical Communication Engineering</td>
</tr>
<tr>
<td>Inoue, Hayato</td>
<td>Japan Academy Medal (2014)</td>
<td>Theoretical Elucidation of the Mechanisms of Evolution with Genomic Sequence Data</td>
</tr>
<tr>
<td>Nakanishi, Susumu</td>
<td>Order of Culture (2013)</td>
<td>Japanese Literature</td>
</tr>
<tr>
<td>Iye, Masanori</td>
<td>Japan Academy Prize (2013)</td>
<td>Observational Studies of the Early Universe</td>
</tr>
<tr>
<td>Yamanaka, Yujiro</td>
<td>Japan Academy Medal (2011)</td>
<td>A Comparative Study of Alexander the Great’s Images in the Medieval Middle East</td>
</tr>
<tr>
<td>Hayami, Akira</td>
<td>Order of Culture (2009)</td>
<td>Socio-Economic History, Historical Demography</td>
</tr>
<tr>
<td>Morokuma, Keiji</td>
<td>Imperial Prize and Japan Academy Prize (2008)</td>
<td>Theoretical Studies of Design of Structure, Function and Reactivity of Molecules</td>
</tr>
<tr>
<td>Motojima, Osamu</td>
<td>Emeritus Director-General of ITER International Fusion Energy Organization (2010)</td>
<td></td>
</tr>
</tbody>
</table>

The list of alumni who received JSPS Ikushi Prize

<table>
<thead>
<tr>
<th>Name</th>
<th>Prize</th>
<th>Research Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kitamura, Daichi</td>
<td>JSPS Ikushi Prize (2016)</td>
<td>Multichannel blind music source separation based on nonnegative matrix factor source model</td>
</tr>
<tr>
<td>Mochizuki, Kenji</td>
<td>JSPS Ikushi Prize (2013)</td>
<td>Theoretical Study on the Molecular Mechanism of Ice Melting and the Local Structure of Aqueous Solution</td>
</tr>
<tr>
<td>Nakahata, Yoshikatsu</td>
<td>JSPS Ikushi Prize (2013)</td>
<td>Activation-Dependent Spatial Dynamics of Postsynaptic Glycine Receptors</td>
</tr>
</tbody>
</table>

SOKENDAI Scientist Award

The purpose of SOKENDAI Scientist Award is to commend the research achievements obtained by the scientists who obtained Doctor’s degree from SOKENDAI.

The 3rd (FY2016) Award Ceremony: April 11, 2017
Dr. Araki, Mitsunori
Graduated at Department of Structural Molecular Science, School of Mathematical and Physical Science in 1999
Project Research Fellow / Assistant Professor, Tokyo University of Science
Special field: Space Radio Spectroscopy, Identification of Interstellar Molecules

Dr. Shimamura, Ippei
Graduated at Department of Regional Studies, School of Cultural and Social Studies in 2004
Associate Professor, The University of Shiga Prefecture
Special field: Cultural Anthropology, Sherman in Mongolia

The 1st (FY2014) Award Ceremony: April 6, 2015
Dr. Nakamura, Shin
Graduated at Department of Accelerator Science, School of Mathematical and Physical Science in 2001
Professor, Chuo University (Faculty of Science and Engineering)
Special field: Theoretical Physics, Superstring Theory
Nagakura Research Incentive Award

Funded by SOKENDAI’s first President, Dr. Nagakura Saburo, the SOKENDAI Nagakura Research Incentive Award started in 1995 to encourage SOKENDAI’s outstanding students to pursue further research and to develop new research fields.


<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Research Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Huang, Yu</td>
<td>Japanese Literature</td>
<td>Chinese classics acceptance and the translation, succession of Tsurezuregusa</td>
</tr>
<tr>
<td>Takeda, Kohei</td>
<td>Evolutionary Studies of Biosystems</td>
<td>Ritualized signals in the red-crowned crane: how and why do they perform various displays?</td>
</tr>
</tbody>
</table>

The 20th (FY2014) Award Ceremony: March 24, 2015

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Research Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kataoka, Akimasa</td>
<td>Astronomical Science</td>
<td>Planetary Formation via Fluffy Dust Aggregates</td>
</tr>
<tr>
<td>Tabuchi, Sawako</td>
<td>Physiological Sciences</td>
<td>A new mouse model for the study of narcolepsy</td>
</tr>
</tbody>
</table>

The 19th (FY2013) Award Ceremony: March 20, 2014

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Research Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mochizuki, Kenji</td>
<td>Functional Molecular Science</td>
<td>A Theoretical Study on the Dynamical Mechanism of Ice Melting</td>
</tr>
<tr>
<td>Ohkawa, Toshika</td>
<td>Physiological Sciences</td>
<td>Global profiling of synaptic autoantibodies reveals a mode of action of anti-LGI1 autoantibodies in limbic encephalitis</td>
</tr>
</tbody>
</table>

The 18th (FY2012) Award Ceremony: March 22, 2013

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Research Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morikuni, Keiichi</td>
<td>Informatics</td>
<td>Inner-iteration preconditioning for large-scale ill-conditioned least squares problems</td>
</tr>
<tr>
<td>Honda, Masazumi</td>
<td>Particle and Nuclear Physics</td>
<td>Numerical “experiment” of Superstring/M-theory</td>
</tr>
</tbody>
</table>

The 17th (FY2011) Award Ceremony: March 23, 2012

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Research Theme</th>
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<tbody>
<tr>
<td>Oba, Chikage</td>
<td>Regional Studies</td>
<td>“How people without a writing tradition preserve and construct their history? An analysis of the oral chronicle among the Boorana in Southern Ethiopia.”</td>
</tr>
</tbody>
</table>

SOKENDAI Future Scientist Award

The purpose of SOKENDAI Future Scientist Award is to encourage originate research proposed or planned on his/her own initiative by SOKENDAI students who aspire to be researchers.

The 3rd (FY2016) Award Ceremony: April 11, 2017

<table>
<thead>
<tr>
<th>Name</th>
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<th>Research Theme</th>
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<tr>
<td>Kawashima, Takayuki</td>
<td>Statistical Science</td>
<td>Robust and sparse regression modeling with application to big data</td>
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<td>Iizuka, Tomoyo</td>
<td>Genetics</td>
<td>Genome-wide survey of orthologous genes in Agaricomycetes indicates possible involvement of spc33 in the parallel evolution of the septal pore cap</td>
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<td>Kato, Takahiro</td>
<td>Evolutionary Studies of Biosystems</td>
<td>“Biased secondary sex ratio in tree sparrows Passer montanus: Causes and consequences of sex-specific embryo mortality”</td>
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<thead>
<tr>
<th>Name</th>
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<tr>
<td>Onishi, Kyoko</td>
<td>Astronomical Science</td>
<td>“Observational study towards black-hole mass: resolving the coevolution process of black hole and galaxy”</td>
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The 1st (FY2014) Award Ceremony: April 6, 2015

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<sup>※</sup> The number of staff in parentheses indicates those who concurrently work in other sections (not included in the total).
### Matriculation

**Admission of the 2017 fiscal year**

(As of April 1, 2017)

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| School of Advanced Sciences | Total | 41 (59) | 120 (48) | 65 (31) | 42 (28) | 31 (21) | 11 (7) | (8) | (1) |

### Admission of the 2017 fiscal year

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<tr>
<td>University of Tsukuba</td>
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<td>Tokyo Gakugei University</td>
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<td>Tokyo University of Agriculture and Technology</td>
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<td>Niigata University</td>
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<tr>
<td>The University of Electro-Communications</td>
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Degrees Awarded

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※1 The quota of admission is the one in FY 2016. (The figures in parentheses is the quota of 3-year doctoral course. The School of High Energy Accelerator Science does not have a specific quota of admission but accepts only a few students.)
※2 Figures of those who were granted the Ph.D. by way of Dissertation (not included in the total).
※3 Figures of those who were granted the Ph.D. within a specified time after leaving the university.
※4 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.

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.
Postgraduate Career Tracking / Profile of the 2016 fiscal year

Universities/Research institutes, etc
- The National Museum of Ethnology
- Institute for Molecular Science
- National Institute for Fusion Science
- National Astronomical Observatory of Japan
- Institute of Space and Astronautical Science
- High Energy Accelerator Research Organization, Institute of Materials Structure Science
- Institute of Statistical Mathematics
- National Institute of Informatics
- National Institute of Genetics
- National Institute for Basic Biology
- National Institute for Physiological Sciences
- National Institutes of Natural Sciences, Okazaki Institute for Integrative Bioscience
- The University of Aizu
- Aomori Chuo Gakuin University
- Ehime University
- Osaka Ohmari University
- Kwansei Gakuin University
- Keio University
- The University of Tokyo
- Japan Advanced Institute of Science and Technology
- Ritsumeikan University
- Waseda University
- The University of Tokyo, Atmosphere and Ocean Research Institute
- University of Toyama, Center for Far Eastern Studies
- Begum Rokeya University, Rangpur
- Columbia University
- Hue University of Sciences
- National University of Singapore
- University of California, Santa Cruz
- University of Science, Vietnam National University of Ho Chi Minh City
- Vidyasirimedhi Institute of Science and Technology
- Hubei University of Chinese Medicine
- Institute of Organic Chemistry and Biochemistry of the Czech Academy of Science
- Institute of Plasma Physics, Chinese Academy of Sciences
- Southwestern Institute of Physics

Private companies/Public service corporation
- Asahi Kasei Analysis & Simulation Center
- TOYAMA Co., Ltd.
- NARD Institute, ltd.
- FAST Co., Ltd
- FiNC inc.
- Honda Motor Co., Ltd
- CANON ELECTRONICS INC.
- CMIC Co., Ltd.
- Shin-Nakamura Chemical Co., Ltd
- Ernst & Young ShinNihon LLC
- Sony Corporation
- TAKARA BIO INC.
- TechFirm Inc.
- Tokyo Electric Power Company Holdings, Inc.
- Nikken Total Sourcing Inc.
- NISSIN ELECTRONICS CO., LTD.
- NIFTY Corporation
- Virtualex Consulting, inc BEANCUBE, INC.
- Global Energy Interconnection Development and Cooperation Organization
- SAP Japan Co., Ltd.
- Ibaraki college National Institute of Technology
- KAICHI GAKUEN
- TOCHIGI PREFECTURE
- Japan Health a Medical Technical College
- Ministry of Defense
### Number of International Students by Department

(As of May 1, 2017)

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*1 Female Students in Total  *2 Monbukagakusho Scholarship Students in Total  ** The year of a 3-year doctoral course.

### Number of International Students

(As of May 1, 2017)

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*1 Female Students in Total  *2 Monbukagakusho Scholarship Students in Total  ** The year of a 3-year doctoral course.
International Exchange Agreements

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

### Academic Agreement with Foreign Institutions

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<th>University / Department (Country)</th>
<th>Corresponding Department</th>
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### Academic Agreement with Domestic Institutions

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<td>Japan Advanced Institute of Science and Technology Graduate School of Advanced Science and Technology</td>
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<td>Waseda University School of Fundamental Science and Engineering</td>
<td>School of Multidisciplinary Science</td>
<td>Exchange of students</td>
<td>April 1, 2015</td>
</tr>
<tr>
<td>Kyushu University Graduate School of Pharmaceutical Sciences</td>
<td>School of Life Science</td>
<td>Exchange of students</td>
<td>April 1, 2017</td>
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</tbody>
</table>
Access
(Hayama Campus)

- Access by train or bus
  - Zushi Station of JR Yokosuka Line (East Exit)
    ▶ Take Keikyu Bus No. 16 or 26 bound for "Shonan Kokusaimura" on Track # 1 and get off at "Shonan Kokusaimura Center Ma." Approx. 25 min. Cost: 340 yen.
    ▶ Take Keikyu Bus bound for "Shonan Saiga Station No. 8" on Track # 2 and get off at "Shonan Kokusaimura Makado-sawa Chosai". Approx. 20 min. Cost: 320 yen.
  - Shon Zushi Station of Keikyu Zushi Line (South Exit)
    ▶ Take Keikyu Bus No. 16 or 26 bound for "Shonan Kokusaimura" on Track # 1 and get off at "Shonan Kokusaimura Center Ma." Approx. 23 min. Cost: 340 yen.
  - Take Keikyu Bus bound for "Shonan Saiga Station No. 8" on Track # 1 and get off at "Shonan Kokusaimura Makado-sawa Chosai." Approx. 18 min. Cost: 320 yen.
  - Shin Zushi Station of Keikyu Line
    ▶ Take Keikyu Bus No. 16 bound for "Shonan Kokusaimura" on Track # 2 and get off at "Shonan Kokusaimura Center Ma." Approx. 30 min. Cost: 370 yen.
  - YCAT (Expressway Bus)
    ▶ Take a bus bound for "Denryoku Chuo Kenkou" (For Yokosuka West Side) on Track # 6 of Yokohama City Air Terminal and get off at "Shonan Kokusaimura Center Ma." Approx. 45 min. Cost: 900 yen.
  - Note: 3-minute walk from "Shonan Kokusaimura Center Ma." or 10-minute walk from "Shonan Kokusaimura Makado-sawa Chosai" to the University.

- Access by car
  - Zushi Interchange of Yokohama-Yokosuka Highway (bypass)
    After going out of the exit of Zuyo-Shindo Route (bypass), turn left at the first intersection. Through the Nango Tunnel, go straight on the street for about 5 minutes. Then, turn left at the "Shonan Kokusaimura Center Ma." intersection and keep driving for about 1 minute to the University.