Shonan Village, Hayama, Kanagawa 240-0193 Japan
Tel. 81-46-858-1500 / Fax. 81-46-858-1542

School of High Energy Accelerator Science
Department of Accelerator Science
Department of Materials Structure Science
Department of Particle and Nuclear Physics

School of Multidisciplinary Sciences
Department of Statistical Science
Department of Polar Science
Department of Informatics

School of Cultural and Social Studies
Department of Regional Studies
Department of Comparative Studies
Department of Japanese Studies
Department of Japanese History
Department of Cyber Society and Culture
Department of Japanese Literature

School of Life Science
Department of Genetics
Department of Basic Biology
Department of Physiological Sciences

School of Physical Sciences
Department of Structural Molecular Science
Department of Functional Molecular Science
Department of Astronomical Science
Department of Fusion Science
Department of Space and Astronautical Science

School of Advanced Sciences
Department of Evolutionary Studies of Biosystems

Access (Hayama Campus)
Shioiri

● Access by train or bus
- Zushi Station of JR Yokosuka Line (East Exit)
  ➤ Take Keikyu Bus No. 16 or 26 bound for
  on Track # 1 and get off at
  Approx. 25 min. Cost: 340 yen.
- Shin Zushi Station of Keikyu Zushi Line (South Exit)
  ➤ Take Keikyu Bus No. 16 or 26 bound for
  on Track # 1 and get off at
  Approx. 23 min. Cost: 340 yen.
- Shioiri Station of Keikyu Line
  ➤ Take Keikyu Bus No. 16 bound for
  on Track # 2 and get off at
  Approx. 30 min. Cost: 370 yen.
- YCAT
  ➤ Take a bus bound for
  (For Yokosuka West Side) on Track
  # 6 of Yokohama City Air Terminal and get off at
  Mae. Approx. 45 min. Cost: 900 yen.

Note) 3-minute walk from
or 10-minute walk from
to the University.

● Access by car
- Zushi Interchange of Yokohama-Yokosuka Road (toll way)
  After going out of the exit of Zuyo-Shindo Route (toll way), turn left at the first
  intersection. Through the Nango Tunnel, go straight on the street for about 5 minutes.
  Then, turn left at the
  intersection and keep driving for about 1 minute to the University.
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School of Cultural and Social Studies
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SOKENDAI (The Graduate University for Advanced Studies) was established in 1988 as Japan’s first independent graduate university without undergraduate courses. SOKENDAI is unique in the world in that it provides comprehensive doctoral programs in academic fields ranging from the arts and humanities to science and engineering in cooperation with parent institutes, such as Inter-University Research Institutes, the excellent research and learning environments of which are fully leveraged to nurture leading researchers with outstanding expertise and broad perspectives.

All students enrolled in SOKENDAI are from other national, public, and private universities (new students enrolled in academic year 2015 from 64 universities, including 23 overseas universities). One of the greatest disadvantages of higher education in Japan resides in its low fluidity, which results in unilinearity and sectionalism. However, students admitted to SOKENDAI are already free of the negative effects thereof. Therefore, the remarkable potential of SOKENDAI students is backed by their own experience of successfully leaping over numerous barriers; many of them are also endowed with the guts and ability to take on challenges across the boundaries of fields and academic disciplines. This is one of the characteristics of SOKENDAI that has most benefited the University and individual students. In fact, new encounters with people and contact with new academic cultures give us great power to develop new knowledge.

The second characteristic of SOKENDAI is that graduate education is conducted in an excellent environment, more specifically, at the front lines of study at the affiliated 19 Inter-University Research Institutes. These parent Institutes have top-ranking research personnel who diligently collaborate with researchers from Japan and overseas, as well as the world’s most sophisticated research equipment, facilities, materials, and databases. The Institutes promote highly specialized international research activities and interdisciplinary joint studies with researchers from universities/research institutes across Japan and other countries. Thus, SOKENDAI can aim at nurturing researchers with “high expertise”, “international competency”, and “cross-disciplinary cooperativeness”.

The third characteristic of SOKENDAI is its systematic and organizational approach to encouraging students to acquire “comprehensive ability” in addition to high expertise. Across the parent institutes and the departments of SOKENDAI, research activities are in progress in a wide variety of fields, including culture, history, information, life, human-physiology, energy, material, and space. Students here can make good use of this academic diversity to obtain the “broad perspective” necessary for situating their own expertise in the whole of knowledge, one aspect of the acquisition of comprehensive ability. New academic disciplines often straddle the boundaries between fields and develop with the input of researchers from different fields. Since the knowledge required for such new areas of study cannot be framed within the limits of individual departments or schools, it is necessary to provide interdisciplinary education across multiple departments or schools. In order to tackle this need, SOKENDAI has been promoting “interdepartmental programs”. SOKENDAI students can obtain “cross-disciplinary competence” through education across departments/schools and joint learning/research activities rooted in interdisciplinary cooperation. This is the second aspect of the acquisition of comprehensive ability. Nowadays, many of the fruits of science have already been materialized in society and are making an impact on people’s lives. Scientists are required to be accountable for the results of their research and even the outcomes arising from the application of these results. In other words, modern scientists need to master the comprehensive ability as individuals taking into account humankind and society. The third aspect of the acquisition of the comprehensive ability is that SOKENDAI strives to attain the ideal of “science linked with society”.

The objectives of SOKENDAI are: (i) to nurture international researchers with high expertise and broad perspectives as well as an understanding of cross-disciplinary cooperation and social relationships; (ii) to proceed with interdisciplinary, pioneering and expansive research on the basis of the linkage between the parent institutes and the Hayama Campus and through collaboration with Japanese and international researchers, and; (iii) to establish its position as a hub for graduate education in Asia for the creation of science linked with society.

It is my hope that SOKENDAI students gain a good understanding of these characteristics and objectives of the University and take on challenging research subjects while making full use of the resources provided. Although graduate students have a lot to do in their everyday learning and research activities, I also hope that they make efforts to develop relationships with those who specialize in different academic fields or come from different universities and countries. Human connections obtained through such efforts will surely yield great rewards in their future research lives. In addition, Japanese students are encouraged to master foreign languages, and international students the Japanese language. As in the case of interaction among multiple areas of expertise, so to be proficient in intercultural communication is a prerequisite for exercising one’s ability as a doctoral level researcher equipped with international competency. SOKENDAI also strives to promote multilingualism in the education of students.

We, the faculty and staff of SOKENDAI, will consistently work with our students to further evolve the University’s characteristics and to achieve our objectives. In this regard, we ask all concerned to understand and cooperate in the further development of SOKENDAI.

April 1, 2016

Okada, Yasunobu
President
SOKENDAI (The Graduate University for Advanced Studies)

Profile
Graduated from Kyoto University, Faculty of Medicine, and obtained Ph.D degree in medicine from Kyoto University. Worked as a research associate and assistant professor at Kyoto University before becoming a professor in 1992 at the National Institute for Physiological Sciences (NIPS) and at SOKENDAI (The Graduate University for Advanced Studies) as well. Dr. Okada was appointed as the vice-director-general in 2004 and then the director-general of NIPS and the vice-president of National Institute of Natural Sciences (NINS) in 2007, and then, in addition, he also served as an executive director in NIMS from 2010. He assumed his present role as the president of SOKENDAI in 2014.
His specialty is molecular and cellular physiology, and his research has been mainly focused on the mechanisms of cell volume regulation and cell death induction and on the roles of anion channels. Dr. Okada is one of the ISI highly cited researchers in biology & biochemistry, and he received the Irisawa Memorial Award from the Physiological Society of Japan (PSJ) in 2000 and 2011. He served as the president of PSJ from 2006 for six years and the president of the Federation of the Asian and Oceanian Physiological Societies (FAOPS) from 2006 for five years.
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 man-to-man 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.

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.

The Graduate University for Advanced Studies 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 Observator, 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 the Graduate University for Advanced Studies 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 (Inter-University Research Institutes). 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
   Department of Information Sciences
   1-10-3, Midori-cho, Tachikawa, Tokyo 190-0014 Japan
   URL: http://www.sokendai.ac.jp

2. National Institutes for the Humanities
   National Museum of Ethnology
   Department of Regional Studies
   10-3, Midori-cho, Tachikawa, Tokyo 190-0014 Japan
   URL: http://www.nhmuseum.ac.jp

3. National Institutes for the Humanities
   International Research Center for Japanese Studies
   Department of Japanese Studies
   2-12, Oyama-cho, Goryo, Nishikyo-ku, Kyoto, 610-1192 Japan
   URL: http://www.nihonjin.ac.jp

4. The Open University of Japan
   Center for Open Distance Education
   Department of Cyber Society and Culture
   2-11, Wakaba, Mihama-ku, Chiba, 261-8566 Japan
   URL: http://www.open-u.ac.jp

5. National Institutes for the Humanities
   National Institute of Japanese Literature
   Department of Japanese Literature
   10-3, Midori-cho, Tachikawa, Tokyo 190-0014 Japan
   URL: http://www.njil.ac.jp

6. National Institutes of Natural Sciences
   National Astronomical Observatory
   Department of Astronomical Science
   2-1-1, Osawa, Mitaka, Tokyo, 181-8588 Japan
   URL: http://www.nao.ac.jp

7. National Institutes of Natural Sciences
   National Astronomical Observatory (Mizusawa)
   2-12, Hoshigaoka, Mizusawa, Oshu, Iwate, 023-0861 Japan
   URL: http://www.nao.ac.jp

8. National Institutes of Natural Sciences
   National Astronomical Observatory (Nobeyama)
   462-2, Nobeyama, Minamimakiko, Minamisaku, Nagano, 384-1025 Japan
   URL: http://www.nao.ac.jp

9. National Institutes of Natural Sciences
   National Astronomical Observatory (Okayama)
   3037-5, Honjou, Kangosato, Asakuchi, Okayama, 719-0523 Japan
   URL: http://www.nao.ac.jp

10. National Institutes of Natural Sciences
    National Astronomical Observatory (Hawaii)
    650 North A'ohoku Place, Hilo, Hawaii 96720 U.S.A.
    TEL: 1-800-934-7788

11. National Astronomical Observatory (Chile)
    Calle Joaquin Montero 3000, Oficina 702, Vitacura, Santiago, Chile
    TEL: 56-2-2656-9253

12. National Institutes of Natural Sciences
    National Institute for Fusion Science
    Department of Fusion Science
    322-6, Oosho-cho, Toki, Gifu, 509-5292 Japan
    TEL: 81-572-58-2222
    URL: http://www.nifs.ac.jp

13. Japan Aerospace Exploration Agency
    Institute of Space and Astronautical Science
    Department of Space and Astronautical Science
    2-1-11, Yoshinobu, Chuo-ku, Sagamihara, Kanagawa, 252-5210 Japan
    TEL: 81-42-759-8012
    URL: http://www.isas.jaxa.jp/sokendai/e/index.html

14. National Institutes of Natural Sciences
    National Institute of Polar Research
    3-1-2, Hidatsubashi, Chiyoda-ku, Tokyo, 101-8430 Japan
    TEL: 81-3-4212-2000
    URL: http://www.nipr.ac.jp

15. National Institutes of Natural Sciences
    National Institute of Polar Research
    SYOWA STATION
    Department of Polar Science
    10-3, Midori-cho, Tachikawa, Tokyo, 190-0011 Japan
    TEL: 81-4-52-02-0608
    URL: http://www.nipr.ac.jp

16. National Institutes of Natural Sciences
    National Institute of Genetics
    Department of Genetics
    1111 Yata, Mishima, 411-8540 Japan
    TEL: 81-55-981-6720
    URL: http://www.nig.ac.jp
History

June 1982

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 1986

An informal committee of the directors general of inter-national 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 Okazaki National Research Institutes.

March 1987

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 1987

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

July 1987

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

April 1988

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

May 1988

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

September 1988

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

October 1988

The Graduate University for Advanced Studies is inaugurated.

The central administration office is established at the Tokyo Institute of Technology (Nagatsuda Campus).

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

(The university commences matriculation from April 1989.)

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

April 1989

The School of Cultural and Social Studies is established with the Department of Regional Studies and Department of Comparative Studies.

The University commences matriculation of students for three schools.

January 1990

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

April 1991

The Coordination Center for Research and Education is established.

April 1992

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 1993

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

February 1994

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

March 1994

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

June 1994

The Information Center for Research and Education is established.

February 1995

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

April 1995

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

April 1997

The School of Advanced Sciences, with the Department of Biosystems Science, is established at the Hayama Campus (matriculation begins in April 1999).

April 1998

The Department of Photoscience (School of Advanced Sciences) is established (matriculation begins in April 1999).

The Department of Synchrotron Radiation Science changes its name to “The Department of Materials Structure Science.”

September 1998

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

April 1999

The School of Cultural Studies changes its name to “The School of Cultural and Social Studies.” The Department of Japanese History is established in the School of Cultural and Social Studies, and The Department of Particle and Nuclear Physics is established in the School of Mathematical and Physical Science; matriculation begins in both new Departments. The School of Advanced Sciences commences matriculation.

June 1999

Construction is completed on the research building for the School of Advanced Sciences.

April 2001

Dr. Keiichi Kodaira is appointed as the third President. Dr. Saburo Nagakura is appointed as Director of the Office of Cyber Society and Culture (School of Cultural and Social Studies) is established; matriculation begins.

July 2001

Construction of the University Library (1,427㎡) 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 Sciences) is established (matriculation begins in April 1999).

The Center for Academic Information Services was established by unification of the University Library and the Information Services and Technology Center.

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 (1,033㎡) 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.

Information Services and Technology Center is established.

April 2013

Dr. Yasunobu Okada has been appointed as the fifth President.

April 2014

The Center for Academic Information Services was established by unification of the University Library and the Information Services and Technology Center.
SOKENDAI is affiliated with parent institutes (“Kiban Kikan,” in Japanese, including The Open University of Japan, which has taken over the activities of the National Institute of Multimedia Education), 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 (2016)]
Organization

Administrative Board

As of April 1, 2016

President
Executive Director
Executive Director
Executive Director
Auditor
Auditor

Vice President
Presidential Aide
Presidential Aide

School of Cultural and Social Studies
Dean
Chair of the Department of Regional Studies
Chair of the Department of Comparative Studies
Chair of the Department of Japanese Studies
Chair of the Department of Cyber Society and Culture
Chair of the Department of Japanese Literature

School of Physical Sciences
Dean
Deputy Dean
Chair of the Department of Structural Molecular Science
Chair of the Department of Functional Molecular Science
Chair of the Department of Astronomical Science
Chair of the Department of Space and Astronautical Science

School of High Energy Accelerator Science
Dean
Deputy Dean
Chair of the Department of Accelerator Science
Chair of the Department of Materials Structure Science
Chair of the Department of Particle and Nuclear Physics

School of Multidisciplinary Sciences
Dean
Deputy Dean
Chair of the Department of Statistical Science
Chair of the Department of Polar Science
Chair of the Department of Informatics

School of Life Science
Dean
Deputy Dean
Chair of the Department of Genetics
Chair of the Department of Basic Biology
Chair of the Department of Physiological Sciences

School of Advanced Sciences
Dean
Deputy Dean
Chair of the Department of Evolutionary Studies of Biosystems

University Library
Acting Director
Deputy Director

The Center for the Promotion of Integrated Sciences
Director
Deputy Director

The Center for Academic Information Services
Director

Headquarters
Secretary-General
Director of General Affairs
Director of Financial Affairs
Director of Academic and Students Affairs
Director of International and Social Affairs

Okada, Yasunobu
Hasegawa, Mariko
Nagayama, Kuniaki
Tamura, Katsumi
Takeda, Hiroshi
Nakamoto, Fuminori
Hasegawa, Mariko
Husimi, Yuzuru
Kamada, Susumu
Kojima, Michihiro
Yokoyama, Hiroko
Hirai, Kyonosuke
Ito, Takayuki
Sakamoto, Minoru
Nishina, Emi
Yamashita, Noriko
Ishikawa, Takehiko
Uozumi, Yasuhiro
Aono, Shigetoshi
Kawai, Maki
Hayashi, Masahiko
Takeishi, Yasuiko
Inatomi, Yuko
Ogawa, Yuiro
Uno, Shoji
Kamiyama, Takashi
Honda, Tohru
Kawata, Hiroshi
Hashimoto, Shoji
Imura, Satoshi
Yoneda, Tomohiro
Miyasato, Yoshihiko
Motoyama, Hideaki
HU, Zhenjiang
Iwasato, Takuji
Araki, Hiroyuki
Katsura, Isao
Yamamoto, Masayuki
Imoto, Keiji
Arikawa, Kentaro
Satta, Yoko
Sasaki, Akira
Nagayama, Kuniaki
Yagyu, Shuji
Kamada, Susumu
Satta, Yoko
Husimi, Yuzuru
Sato, Tadashi
Kurebayashi, Takaaki
Kitagawa, Masataka
Itaba, Naoaki
Kamei, Takeshi
Education and Research Council  As of April 1, 2016
President
Executive Vice President (Executive Director)
Executive Director
Dean of School of Cultural and Social Studies
Dean of School of Physical Sciences
Dean of School of High Energy Accelerator Science
Dean of School of Multidisciplinary Sciences
Dean of School of Life Science
Dean of School of Advanced Sciences
Chair of the Department of Comparative Studies
Chair of the Department of Japanese Studies
Chair of the Department of Cyber Society and Culture
Chair of the Department of Japanese Literature
Chair of the Department of Functional Molecular Science
Chair of the Department of Astronomical Science
Professor of the Department of Space and Astronautical Science
Professor of the Department of Accelerator Science
Professor of the Department of Materials Structure Science
Professor of the Department of Particle and Nuclear Physics
Professor of the Department of Statistical Science
Chair of the Department of Polar Science
Chair of the Department of Informatics
Chair of the Department of Genetics
Chair of the Department of Basic Biology
Chair of the Department of Physiological Sciences
Chair of the Department of Evolutionary Studies of Biosystems
Professor of the Department of Regional Studies
Professor of the Department of Japanese Studies
Professor of the Department of Japanese History
Professor of the Department of Japanese Literature
Professor of the Department of Statistical Science

Administrative Council  As of April 1, 2016

Internal representatives
President
Executive Vice President (Executive Director)
Executive Director
Secretary-General

External academics and specialists
President, National Institutes for the Humanities
President, Research Organization for Information and Systems
Professor, Research Institute for Science and Technology, Tokyo University of Science
Professor/Executive Officer, University of Tsukuba
President, National Institutes of Natural Sciences
Director General, High Energy Accelerator Research Organization
Director General, National Institute of Informatics, Research Organization of Information and Systems
School of Cultural and Social Studies

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

School of Cultural and Social Studies

The School of Cultural and Social Studies is the only school in humanities at SOKENDAI. The School is affiliated with four Inter-University Research Institutes, (National Museum of Ethnology, International Research Center for Japanese Studies, National Museum of Japanese History, and National Institute of Japanese Literature) and the Open University of Japan (Center of ICT and Distance Education). The School is comprised of the following six departments. The Department of Regional Studies conducts research and education on ethnic societies and cultures around the world on a regional and individual basis. The Department of Comparative Studies conducts research and education on ethnic society, craftwork, religion, and art using cross-cultural approaches. The Department of Japanese Studies conducts research and education on Japanese society and culture by integrating international comparisons and interdisciplinary perspectives. The Department of Japanese History conducts research and education for the clarification of Japanese history through the collaboration of history, archaeology, folklore, and other related disciplines. The Department of Cyber Society and Culture provides interdisciplinary and comprehensive education on interactions among media, culture, society, and humans. The Department of Japanese Literature conducts research and education in the comprehensive study of the characteristics of literary resources, the formation and enjoyment of those works, and the processes and environments in which they were produced. Through the international and interdisciplinary research and education, the School of Cultural and Social Studies aims to nurture talented individuals with broad perspectives and international awareness.

Departments under the School

- Department of Regional Studies
- Department of Comparative Studies
- Department of Japanese Studies
- Department of Japanese History
- Department of Cyber Society and Culture (Termination of student recruitment)
- Department of Japanese Literature

Kojima, Michihiro
Dean
School of Cultural and Social Studies
Special field: Medieval and Early Modern History of Japan

Department of Regional Studies

This Department studies the individual cultures of ethnic groups in Asia, Europe, Africa, America, and Oceania. It considers the characteristics and history of each culture and focuses on describing a culture and understanding its structure using ethnographic methodology. The Department fosters researchers who have high expertise and actively promote the descriptive study of individual cultures based on fieldwork.

Sea turtle fishing in Nicaragua
Developing research skills based on fieldwork.

COURSES

Asian Studies
European Studies
African Studies
American Studies
Oceanian Studies

Field research areas visited by students of the Department of Regional Studies and Comparative Studies.
The Department of Comparative Studies nurtures students interested in the comparative and cross-cultural study of social systems, religion, technology, languages, arts, and cultural resources. Through comparative study students are expected to identify the cross-cultural commonalities and to develop theoretical interpretations of the comparative data. To foster researchers with high expertise, we encourage new research methods integrating relevant information technology and interdisciplinary approaches besides the methods applied traditionally in anthropological studies.

Exhibition Hall at the Museum
Students have direct access to the museum collections of artifacts, audio-visual materials, books and periodicals.

Excavation and research in Peru
Supported by our study abroad grant program.

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

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.

Japanese Studies

COURSES
The degree in our department will focus on clarifying the interactive relationships between media / communication technologies, and the socio-cultural aspects of human life. Students will investigate a complex set of interrelationships, which include the various influences that the development of media technologies has had on human communication, thought and action; the sociocultural changes. Students will employ research approaches which synthesize methodology and results from various related scientific fields and will have use of cutting edge technology. The program aims to bring up researchers who can open up comprehensive new spheres of inquiry in the field of media technology in its broader sense.

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

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

Department of Cyber Society and Culture
(Termination of student recruitment)

The degree in our department will focus on clarifying the interactive relationships between media / communication technologies, and the socio-cultural aspects of human life. Students will investigate a complex set of interrelationships, which include the various influences that the development of media technologies has had on human communication, thought and action; the sociocultural changes. Students will employ research approaches which synthesize methodology and results from various related scientific fields and will have use of cutting edge technology. The program aims to bring up researchers who can open up comprehensive new spheres of inquiry in the field of media technology in its broader sense.

Cyber Society and Culture
Cyber Culture / Cyber Society / Cyber Cognitive Behavior

Lecture utilizing museum collection
About 230,000 of historical, folkloric and archaeological artifacts as well as advanced research facilities can be made of.

Augmenting a learning environment
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.

Department of Japanese Literature

General subjects / Literary resource research / Research on the formation of literature / Research on literary environments

Collaborative projects within the School of Cultural and Social Studies

The six Departments within the School of Cultural and Social Studies hold specialized researchers among diverse field not limited in the area of liberal arts. Furthermore, each Parents Institutes are owning abundant and various academic resources. By making the use of its distinctive features, the School of Cultural and Social Studies aims to foster researchers with wide perspectives and offer chance of interactions beyond different fields through Interdepartmental Program “Academic Resource Management Course”, Forums held in Parents Institutes and issue of Academic journal “SOKENDAI review of Cultural and Social Studies” supported by research guidance of specialized fields.
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

COURSES
Department of Functional Molecular Science

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

Department of Astronomical Science

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

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

Molecular Dynamics
Excited State Dynamics

Synthesis of novel organic compounds
Chemistry of buckyball molecules sumanene

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

School of Physical Sciences
In this course, SOKENDAI 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.

To develop fusion power for a future energy source, it is necessary to research plasma physics through a complementary approach of both experimental and theoretical studies. In this department, students learn the experimental methodology as well as engineering requirements for investigating high temperature plasma, and also learn computer simulation techniques for revealing the nature of complicated fusion plasmas.

Large Helical Device (LHD)

**COURSES**

**Fusion System**
Device system / Research operation / Plasma heating / Diagnostics

**Fusion Simulation**
Plasma simulation / Particle simulation / Magneto hydrodynamic simulation

Asteroid explorer “Hayabusa2”
The spacecraft is touching down to a newly created crater. ©Akihiro Ikeshita

**Department of Space and Astronautical Science**

In this course, SOKENDAI 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.

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**COURSES**

**Space Exploration Science and Engineering**
Space System / Space Exploration / Space Environment Science

**Space Observation Science**
Space Astronomy / Solar System Exploration

**Space Technology**
Electronic Device and telecommunication / Space Transportation Technology
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.

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

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

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

School of Multidisciplinary Sciences

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

Departments under the School

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

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 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.

Visualization System

Statistical Science

Statistical Modeling / Data Science / Mathematical Analysis and Statistical Inference
**Department of Polar Science**

The Earth is an 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

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**Department of Informatics**

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

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A spoken dialogue system with the NII character “BIT” based on machine learning frameworks of speech synthesis, speech recognition and dialogue management. (Assoc.Prof. YAMAGISHI Junichi)
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.

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.

Centrioles in a human mitotic cell. (left) Fluorescence micrograph. Centrioles (in red) are stained with antibodies against centrin and α-tubulin, respectively. (right) A schematic showing chromosomes (DNA), microtubules and centrioles during mitosis.

The School of Life Science aims to educate researchers who are internationally extraordinary and possess creativeness and broad perspectives to explore new fields of Life Science. Professors in this school cover wide fields of Life Science from the molecular to organisational and population levels.

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

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.

Iwasato, Takuji  
Dean  
School of Life Science  
Special field: Neuroscience, Molecular biology

Molecular and Cellular Biology  
Developmental Biology  
Evolutionary Biology  
Genome 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.

Physiology is to clarify the mechanisms of living bodies from both elements (cells and molecules) and systems, and therefore provides important basic knowledge necessary for understanding pathological conditions. Importance of physiology has been much increased upon clarification of genome structures. In this department, students can learn the function of intact organisms in an integrated way from molecular / cellular levels as basic units of living organisms to whole body levels, and are expected to be pioneering researchers in bioscience, neuroscience and medicine.
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.

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.

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 model
E. Field exercise at Morito River
F. Meerkats form a family group and demonstrate various cooperative behaviors among related individuals.

Major in Biology
Evolutionary biology / Theoretical biology / Behavioral biology / Integrative anthropology

Major in Science and Society
Science, technology and society
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.

- **2015 fiscal year (First semester) Date:** April 6-10, 2015
- **2015 fiscal year (Second semester) Date:** October 5-8, 2015

Science and Society

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 center promotes the education program designing and providing a “science and society” course as well as workshops to discuss various issues pertinent to a specialized field of science.

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 Course-by-Course Education 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, so as to meet the needs of society.
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 project can be found on our website: http://cpis.soken.ac.jp/

1. The Programs for Multidisciplinary Coordination in Education

The programs promote educational activities which draw on both science and the humanities and which equip young researchers with the comprehensive visions for science and society.

(1) Planning and conducting cross-field lecture series
(2) Other education-related activities

2. The Programs for Multidisciplinary Coordination in Research

The programs set the cross-disciplinary collaboration across various departments for university-wide research activities, and also design and support various joint-research projects.

(1) Management of cross-disciplinary joint-research projects
(2) Design and promotion for interdisciplinary coordination in research
(3) Financial support for academic publication
(4) Other research-related activities

3. The Programs for Infrastructural Development

The programs provide and improve the infrastructure for interdepartmental activities and other research and educational collaborations across the university.

(1) Promotion of Interdisciplinary Communication
(2) Provision of distance learning support
(3) Other activities concerning infrastructural development

For inquiries or information:
The Center for the Promotion of Integrated Sciences
TEL: 81-46-858-1629, 1657
FAX: 81-46-858-1632
E-mail: cpis-office@ml.soken.ac.jp
### Interdisciplinary Lectures for the 2015 fiscal year

<table>
<thead>
<tr>
<th>Theme</th>
<th>In charge</th>
<th>Date</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science Communications</td>
<td>Kurata, Tomoko (Department of Basic Biology, School of Life Science)</td>
<td>August 10 - 12, 2015</td>
<td>NOBEYAMA</td>
</tr>
<tr>
<td>Theories of Academic Films and Practice of Film-making in Natural and Human Sciences, 2015</td>
<td>Kishigami, Nobuhiro (Department of comparative Studies, School of Cultural and Social Studies)</td>
<td>August 26 - 30, 2015</td>
<td>Togakushi Museum of Natural History</td>
</tr>
<tr>
<td>Ethics of Science and Technology, and Intellectual Property I</td>
<td>Kodama, Haruo (Department of Cyber Society and Culture, School of Cultural and Social Studies)</td>
<td>August 31 - September 2, 2015</td>
<td>The Open University of Japan</td>
</tr>
<tr>
<td>Research and Society</td>
<td>Ito, Kenji (Department of Evolutionary Studies of Biosystems, School of Advanced Sciences)</td>
<td>September 1 - 2, 2015</td>
<td>Institute of Space and Astronautical Science, JAXA</td>
</tr>
<tr>
<td>Science and Dialogue</td>
<td>Bono, Mayumi (Department of Informatics, School of Multidisciplinary Sciences)</td>
<td>October 13, 2015 - February 16, 2016 (Total 15 times)</td>
<td>National Institute of Informatics, Miraikan</td>
</tr>
<tr>
<td>Ethics of Science and Technology, and Intellectual Property II</td>
<td>Kodama, Haruo (Department of Cyber Society and Culture, School of Cultural and Social Studies)</td>
<td>December 14 - 16, 2015</td>
<td>The Open University of Japan</td>
</tr>
</tbody>
</table>

The Programs for Multidisciplinary Coordination in Education
The Programs for Multidisciplinary Coordination in Research

Under the Programs for Multidisciplinary Coordination in Research, CPIS has launched several kinds of new initiatives and schemes to encourage creative and multidisciplinary research activities, which greatly benefit from the institutional architecture of SOKENDAI, i.e. the close affiliation with the leading national research institutions across Japan. The current initiatives and schemes take the form of a joint-research grant, a proposal for cross-disciplinary research coordination, and a publication support fund. As the joint-research grants, CPIS supported the total of 17 research projects in 2015. The principle investigators of these projects presented their progress at the Annual Symposium for Integrated Research, which is designed to promote the integration of the research community within SOKENDAI as much as in wider academic communities in Japan.

The Initiative for Strategic Research Projects

The Initiative for Strategic Research Projects aims to collect new ideas for cutting-edge research across SOKENDAI and to promote them as the themes for a grand research project representing the entire research community at the university. Such themes are expected to form the core of both research and educational activities at SOKENDAI, and they necessarily share the vision of integrating science, social science, and humanities all together.

The Scheme for Interdisciplinary Research for Young Researchers

The Scheme for Interdisciplinary Research for Young Researchers aims to promote interdisciplinary collaboration across various departments at SOKENDAI and to provide the research environment in which young scholars can utilize their creative talent and carry out ambitious research. This scheme is also intended for the researchers who could not help interrupting their research due to such as childbirth, upbringing, disease, or injury. With the support of this scheme, young scholars may conduct a new research project or prepare for a future application for a cooperative research grant. In 2014, this scheme is to be replaced with a new program.

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 the Graduate University for the Advanced Studies’ 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 (such as inter-university research institutes, corporations, etc., including the Japan Aerospace Exploration Agency and the Open University of Japan) and creating new academic disciplines, the proposal of different field cooperating type of collaborative research, and the research subject for which the outcome with social significance is expected.
The Proposal for Interdisciplinary Research Coordination

In order to design and propose an interdisciplinary research coordination as representative research projects at SOKENDAI, the planning meeting for the interdisciplinary research coordination was held by many participants from various departments. In the fiscal year 2015, the meeting was held three times and while having an intensive discussion on various research seeds, it aims at making an interdisciplinary research theme develop into a workshop or joint research.

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. 5 workshops were supported in the fiscal year 2015.

The Paper Publishing Cost Assistance

The publishing cost support of the printing expenses up to 200,000 yen per affair 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 16 affairs were supported in the fiscal year 2015.

<table>
<thead>
<tr>
<th>Department</th>
<th>Authors</th>
<th>Title</th>
<th>Publication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Astronomical Science</td>
<td>Ishida, Tetsuo/ Ogawa, Yasunobu/ Kadokura, Akira</td>
<td>Direct observations of blob deformation during a substorm</td>
<td>Annales Geophysicae</td>
</tr>
<tr>
<td>Department of Basic Biology</td>
<td>Nishimura, Toshiya/ Tanaka, Minoru</td>
<td>fox3 is a germ cell-intrinsic factor involved in sperm-egg fate decision in medaka</td>
<td>Science</td>
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<tr>
<td>Department of Evolutionary Studies of Biosystems</td>
<td>Yoshida, Mina/ Kinoshita, Michiyo/ Arikawa, Kentaro</td>
<td>Plant scents modify innate colour preference in foraging swallowtail butterflies</td>
<td>Biology Letters</td>
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<tr>
<td>Department of Astronomical Science</td>
<td>Ishikawa, Shogo/ Onoue, Masafusa/ Kashikawa, Nobunari</td>
<td>The very wide-field g2K galaxy survey -- I. Details of the clustering properties of star-forming galaxies at z~2</td>
<td>Monthly Notices of the Royal Astronomical Society</td>
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<tr>
<td>Department of Physiological Sciences</td>
<td>Nishimoto, Rei/ Kashio, Makiko/ Tominaga, Makoto</td>
<td>Propofol-induced pain sensation involves multiple mechanisms in sensory neurons</td>
<td>Pflügers Archiv - European Journal of Physiology</td>
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<td>Department of Informatics</td>
<td>Noji, Hiroshi/ Miyao, Yusuke</td>
<td>Left-corner Parsing for Dependency Grammar</td>
<td>Journal of Natural Language Processing</td>
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<td>Department of Basic Biology</td>
<td>Ohashi, Rie/ Shina, Mobuyuki/ Takao, Keizo</td>
<td>Comprehensive behavioral analysis of RNG105(Caprini)1 heterozygous mice: Reduced social interaction and attenuated response to novelty</td>
<td>Scientific Reports</td>
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<td>Department of Evolutionary Studies of Biosystems</td>
<td>Pei-Ju Chen/ Matsushita, Atsuko/ Arikawa, Kentaro</td>
<td>Extreme spectral richness in the eye of the Common Bluebottle butterfly, Graphium sarpedon</td>
<td>Frontiers in Ecology and Evolution</td>
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<td>Department of Astronomical Science</td>
<td>Saito, Yuriko/ Imanishi, Masatoshi</td>
<td>Near-Infrared Spectroscopy of Quasars at z~3 and Estimates of Their Supermassive Black Hole Masses</td>
<td>Publications of the Astronomical Society of Japan</td>
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<tr>
<td>Department of Statistical Science</td>
<td>Hayamizu, Mommko</td>
<td>On the existence of infinitely many universal tree-based networks</td>
<td>Journal of Theoretical Biology</td>
</tr>
</tbody>
</table>
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 CPIS projects
Our website covers activity reports about interdisciplinary lectures, planning meetings of SOKENDAI research projects, student-initiated interdisciplinary educational programs, and other CPIS projects along with images.

2) Public relations for faculties and students using video contents
To inform faculty members and students about CPIS 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) Message from new Ph.D. holders
To promote the formation of student and intergenerational network, photos of new Ph.D. holders along with write-ups about their vision or advice for younger students are posted on the CPIS website.

5) CPIS blog
The CPIS 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.

CPIS aids the faculty of SOKENDAI in transmitting educational content for distance learning. In 2015, we researched the current state and the future agenda for utilization of TELAS, a real-time interactive class system developed by SOKENDAI, through supporting for the interdisciplinary lecture “Science and Dialogue” and some other remote lectures. In 2016, we will continuously provide effective support for interdepartmental education through ICT including synchronous / asynchronous distance learning.
The Center for Academic Information Services

This Center was established by unification of the University Library and the Information Services and Technology Center, which aims at effective management of academic information in SOKENDAI. Based on secure and resilient information infrastructure, it provides various academic information services to researchers and researchers-in-future who are both users and creators of academic information, and supports education, research, and administration in SOKENDAI. This Center consists of the Division of Information Services and Technology and the University Library.

University Library

The University Library is available to the faculty and students at the Hayama Campus. Affiliated with libraries at the Inter-University Research Institutes, the Library accumulates, organizes, and offers numerous and various academic data to enable SOKENDAI to provide high-level research and education and to pioneer advanced academic fields.

The 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.

It also offers e-journals and e-books for use by the faculty and students at the Inter-University Research Institutes distributed throughout Japan.

Image and video documentation materials are available through in-house facilities.

In addition, the Library offers the Graduate University for Advanced Studies 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 world’s largest bibliographic database called the “Scopus”, 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 materials and data are offered not only to the faculty and students of SOKENDAI, but also to the public, including people in the Hayama community.

Number of academic materials available at the Library

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<th>Type</th>
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<tr>
<td>Book (Japanese)</td>
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<tr>
<td>Book (Non-Japanese)</td>
<td>approx. 24,780 titles</td>
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<tr>
<td>Journal (Japanese)</td>
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<td>Journal (Non-Japanese)</td>
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<td>Institutional Repository</td>
<td>approx. 4,600 titles</td>
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</table>

As of April 1, 2016

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.

For inquiries or information:

University Library

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

Electronic Journals

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
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@ml.soken.ac.jp
**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.

FY2015
Number of students supported by this program: 16
Countries and regions of visiting institutes:
USA, UK, France, Thailand, Taiwan, China, Nicaragua, Germany, Belgium

**2015 UST-SOKENDAI Joint Seminar**

This joint seminar alternates each year between this university and University of Science and Technology (UST) in South Korea, and mutual exchange of research is active by participation of the students of this university and UST in South Korea in this seminar.

Theme: Workshop on Big Data and Computational Sciences
Date: November 26 - 28, 2015
Venue: SOKENDAI Hayama Campus
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.

**JSPS Summer Program**

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 10-16, 2015

Venues: Shonan Village Center

**Research Report Presentation and Farewell Party**

Date: August 18, 2015

Venues: Hotel Grand Palace (Tokyo)

**Research Experience at Host Institutions**

Date: June 17-August 17, 2015

Venues: IURIs, Universities

<table>
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<tr>
<th>Invited researchers for the 2010 fiscal year</th>
<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>
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<td>Total</td>
<td>99</td>
<td>Total</td>
<td>109</td>
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</table>

International Communication Course

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 communities, media relations, online information disclosure, organization of lectures and Science Cafes, setup of SOKENDAI’s booth at symposia organized by the Inter-University Research Institutes, and planning, editing, and publication of SOKENDAI New Letters.

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. Follow-up of network membership also leads to our graduates activity survey which is vital for self-evaluation and endeavor for quality assurance of our superb post-graduate education. Moreover, the network facilitates support information exchanges through mutually beneficial cooperation between SOKENDAI and alumni and linkage of human network with broader sense of identity. As an ICT infrastructure to this network, we have a web site “SOKENDAI Anet” to develop a unified SOKENDAI community and to enhance the SOKENDAI community’s relationship to society through our creative partnership.
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)"** (March, 2009 / November, 2015)

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

### Community Programs

With the aims of making broadly available to general society the accumulated research findings of the University, opening up the University to the public and deepening interchanges 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.

#### 2015 fiscal year

**Shonan Village Festival**
- Lecture: Explore the evolution of the solar system - From Hayabusa to Hayabusa 2 -
  Komatsu, Mutsumi (Assistant Professor at the Center for the Promotion of Integrated Science)
- Science Cafe: "Communicating Science"
- Stargazing Session: "Enjoying the Spring Night Sky"
  Date: May 3, 2015

**Science Seminar for Junior High and High School Students**
- "The latest science of penguin, tuna and whale"
  Watanabe, Yuuki (Assistant Professor at the Department of Polar Science)
  Date: July 28, 2015

For inquiries or information: General Affairs Division, Public Relations Office
TEL: 81-46-858-1500, 1590 FAX: 81-46-858-1542, 1632

#### Science Café
- "Connect the brain and the computer"
  Nishimura, Yukio (Associate Professor at the Department of Physiological Sciences)
  Date: January 31, 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

### 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 18th Academic lecture for FY 2015**
  Mizushima, Nozomi (Assistant Professor at the Department of Evolutionary Studies of Biosystems)
  Fujito, Naoko (Research Fellow of School of Advanced Sciences)
  Date: November 3, 2015

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
### Academic Staff
(As of May 1, 2016)

<table>
<thead>
<tr>
<th>Category</th>
<th>Members of the Board</th>
<th>Professor</th>
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<th>Assistant Professor</th>
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</table>

#### School of Cultural and Social Studies

| Regional Studies     | 11                    | 11        |                     |         |                     |        |             | 22    |
| Comparative Studies  | 11                    | 11        |                     |         |                     |        |             | 22    |
| Japanese Studies     | 17                    | 5         |                     |         |                     |        |             | 22    |
| Japanese History     | 19                    | 15        |                     |         |                     |        |             | 34    |
| Cyber Society and Culture | 10                   | 3       |                     |         |                     |        |             | 13    |
| Japanese Literature  | 13                    | 10        |                     |         |                     |        |             | 24    |

#### School of Physical Sciences

| Structural Molecular Science | 7                     | 7         |                     |         |                     |        |             | 19    |
| Functional Molecular Science | 10                    | 7         |                     |         |                     |        |             | 40    |
| Astronomical Science       | 24                    | 35        | (1)                 |         |                     | 49     |             | 108   |
| Fusion Science             | 27                    | 20        |                     |         |                     | 20     |             | 67    |
| Space and Astronomical Science | 14                    | 39        |                     |         |                     | 24     |             | 77    |

#### School of High Energy Accelerator Science

| Accelerator Science | 56                    | 56        |                     |         |                     | 13     |             | 85    |
| Materials Structure Science | 21                | 22        |                     |         |                     | 7      |             | 61    |
| Particle and Nuclear Physics | 31                | 32        |                     |         |                     | 30     |             | 114   |

#### School of Multidisciplinary Sciences

| Statistical Science    | 22                    | 18        |                     |         |                     |        |             | 40    |
| Polar Science          | 12                    | 23        |                     |         |                     | 18     |             | 73    |
| Informatics            | 26                    | 31        |                     |         |                     | 12     |             | 79    |

#### School of Life Science

| Statistical Science    | 29                    | 36        |                     |         |                     | 56     |             | 111   |
| Basic Biology          | 13                    | 17        |                     |         |                     | 30     |             | 60    |
| Physiological Sciences | 16                    | 17        |                     |         |                     | 31     |             | 78    |

#### School of Advanced Sciences

| Evolutionary Studies of Biosystems | 5                     | 6         |                     |         |                     | 4       |             | 15    |
| Statistical Science            | 22                    | 18        |                     |         |                     | 56     |             | 94    |
| Basic Biology                  | 13                    | 17        |                     |         |                     | 30     |             | 60    |
| Physiological Sciences         | 16                    | 17        |                     |         |                     | 31     |             | 78    |

#### The Center for the Promotion of Integrated Sciences

| 2 (1)                  |                     |           |                     |         |                     |        |             | 2 (2) |
| 1 (1)                  |                     |           |                     |         |                     |        |             | 1 (1) |
| 1                      |                     |           |                     |         |                     |        |             | 4     |

**Total**: 6 (1) 393 (4) 395 (3) 56 (3) 366 12 43 1271 (11)

※The number of staff in parentheses indicates those who concurrently work in other sections [not included in the total].

### Students
(As of May 1, 2016)

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※The number of female students and international students is included in the total.

※The School of High Energy Accelerator Science does not have a specific quota of admission but gives examinations.
Matriculation Admission of the 2016 fiscal year
(As of April 1, 2016)

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Admission of the 2016 fiscal year

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Foreign Universities

Belarusian State University 1
Chulalongkom University 1
The University of Passau 1
University Malaysia Sabah 1
University of Oslo 1
University of Colorado 1
East China Normal University 1
The Chinese University of Hong Kong 1
Inner Mongolia University 1

Others

National Institute of Technology, Ube College 1
National Institute of Technology, Kitakyushu College 1
National Institute of Technology Okinawa College 1
**Degrees Awarded**

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1. The quota of admission is the one in FY 2015. (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.

---

**The Graduate University for Advanced Studies**

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

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

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

Master's course  
2 years or more experience in research  

Undergraduate course  
4 years
### Postgraduate Career Tracking / Profile

#### Positions held by Graduates (10 years)

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<td>Found employment in companies / Corporations</td>
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<tr>
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**Found Employment in Research Institutes**

- The National Museum of Ethnology: 2
- International Research Center for Japanese Studies: 1
- National Institute of Japanese Literature: 1
- Institute for Molecular Science: 1
- National Institute for Fusion Science: 3
- Japan Aerospace Exploration Agency: 1
- Institute of Space and Astronautical Science: 1
- High Energy Accelerator Research Organization, Institute of Particle and Nuclear Studies: 1
- Institute of Statistical Mathematics: 1
- National Institute of Polar Research: 1
- National Institute of Informatics: 3
- National Institute of Genetics: 2
- National Institute for Basic Biology: 1
- National Institute for Physiological Sciences: 5
- Kyoto University: 1
- Kyoto University Research Reactor Institute: 1
- Kanagawa University: 1
- Chubu University: 1
- The University of Tokyo: 1
- Fujita Health University: 1
- Nara Institute of Science and Technology: 1
- Iida Women’s Junior College: 1
- Nagoya University: 2
- The National Research Institute of Far Seas Fisheries: 1
- Academia Sinica: 1
- Bangkok University: 1
- Ecole Centrale de Nantes: 1
- IBM Research - Tokyo: 1
- Seoul National University: 1
- Korea Advanced Institute of Science and Technology: 1
- Shaanxi University of Technology: 1
- Universiti Sultan Zainal Abidin: 1
- University of Würzburg: 1
- The University of Vienna: 1
- National Meteorological Satellite Center: 1
- Japan Society for the Promotion of Science: 1
- Unknown (Foreign University): 48

**Found Employment in Companies / Corporations**

- DOT International: 1
- CPC: 1
- Takara Bio Inc.: 1
- CRD Association: 1
- TechnoPro, Inc. TechnoPro R&D Company: 1
- TOME R&D Inc.: 1
- UCHIDA YOKO CO., LTD.: 1
- FUJITSU LABORATORIES LTD.: 1
- Maruzen Publishing Co., Ltd.: 1
- Nishogakusha Kashiwa Senior High School: 1
- IBM Japan, Ltd.: 1
- Okayama University Hospital: 1
- Chiba Prefectural Museum: 1
- Startup Company: 1
- Others: 16

**Seeking further education / Others**

- Okayama University Hospital: 1
- Chiba Prefectural Museum: 1
- Startup Company: 1
- Others: 16

**Total: 78**

**Other:** 24%

**Companies:** 14%

**University / Research Institutes:** 62%

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**Postgraduate Career Tracking / Profile of the 2015 fiscal year**

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**Type of employment Fiscal year**

- '06
- '07
- '08
- '09
- '10
- '11
- '12
- '13
- '14
- '15
### Number of International Students by Department

(As of May 1, 2016)

<table>
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<tr>
<th>School</th>
<th>Department</th>
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<th>Research Student</th>
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<td>2nd year</td>
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<td>5th year (3rd year**)</td>
<td>Subtotal</td>
<td>Research Student</td>
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#### School of Cultural and Social Studies

- **Regional Studies**
  - Quota: 3
  - 1st year: 1
  - 2nd year: 3
  - 3rd year: 1
  - 4th year: 2
  - 5th year: 1
  - Subtotal: 7

- **Comparative Studies**
  - Quota: 3
  - 1st year: 2
  - 2nd year: 1
  - 3rd year: 1
  - 4th year: 2
  - 5th year: 1
  - Subtotal: 8

- **Japanese Studies**
  - Quota: 3
  - 1st year: 3
  - 2nd year: 1
  - 3rd year: 1
  - 4th year: 2
  - 5th year: 1
  - Subtotal: 8

- **Japanese History**
  - Quota: 3
  - 1st year: 1
  - 2nd year: 1
  - 3rd year: 1
  - 4th year: 1
  - 5th year: 1
  - Subtotal: 6

- **Japanese Literature**
  - Quota: 3
  - 1st year: 2
  - 2nd year: 1
  - 3rd year: 1
  - 4th year: 1
  - 5th year: 1
  - Subtotal: 7

#### School of Physical Sciences

- **School of Cultural and Social Studies**
  - Quota: 3
  - 1st year: 1
  - 2nd year: 3
  - 3rd year: 1
  - 4th year: 2
  - 5th year: 1
  - Subtotal: 8

- **School of Physical Sciences**
  - Quota: 2
  - 1st year: 3
  - 2nd year: 2
  - 3rd year: 1
  - 4th year: 2
  - 5th year: 1
  - Subtotal: 8

- **School of High Energy Accelerator Science**
  - Quota: 2
  - 1st year: 1
  - 2nd year: 3
  - 3rd year: 1
  - 4th year: 2
  - 5th year: 1
  - Subtotal: 8

#### School of Life Science

- **School of Life Science**
  - Quota: 2
  - 1st year: 1
  - 2nd year: 3
  - 3rd year: 1
  - 4th year: 2
  - 5th year: 1
  - Subtotal: 8

#### School of Multidisciplinary Sciences

- **Statistical Science**
  - Quota: 2
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  - 2nd year: 2
  - 3rd year: 1
  - 4th year: 2
  - 5th year: 1
  - Subtotal: 8

- **Polar Science**
  - Quota: 2
  - 1st year: 3
  - 2nd year: 2
  - 3rd year: 1
  - 4th year: 2
  - 5th year: 1
  - Subtotal: 8

- **Informatics**
  - Quota: 4
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  - 2nd year: 3
  - 3rd year: 1
  - 4th year: 2
  - 5th year: 1
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- **Basic Biology**
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  - 2nd year: 3
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  - 4th year: 2
  - 5th year: 1
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- **Physiological Sciences**
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  - 2nd year: 3
  - 3rd year: 1
  - 4th year: 2
  - 5th year: 1
  - Subtotal: 8

- **Statistical Science of Resilience**
  - Quota: 2
  - 1st year: 3
  - 2nd year: 2
  - 3rd year: 1
  - 4th year: 2
  - 5th year: 1
  - Subtotal: 8

#### School of Advanced Sciences

- **Evolutionary Studies of Biosystems**
  - Quota: 5
  - 1st year: 3
  - 2nd year: 2
  - 3rd year: 1
  - 4th year: 2
  - 5th year: 1
  - Subtotal: 8

### Number of International Students

(As of May 1, 2016)

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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

<table>
<thead>
<tr>
<th>University [Country]</th>
<th>Department</th>
<th>Corresponding Department</th>
<th>Contents</th>
<th>Date of Agreement</th>
<th>Validity</th>
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<tbody>
<tr>
<td>University of Science and Technology [Korea]</td>
<td>All Schools</td>
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<td>May 25, 2005</td>
<td>May 24, 2020</td>
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<td>University of Bayreuth [Germany]</td>
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<td>Chulalongkorn University [Thailand] Faculty of Science</td>
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*Memorandum of Agreement concerning the dual doctoral degree program between School of Engineering and Technology, AIT and Department of Informatics, the School of Multidisciplinary Sciences, SOKENDAI

### Academic Agreement with Domestic Institutions

<table>
<thead>
<tr>
<th>University / Institute</th>
<th>The Graduate University for Advanced Studies</th>
<th>Contents</th>
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<td>University of Tokyo Graduate School of Science</td>
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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". Approx. 25 min. Cost: 340 yen.
  » Take Keikyu Bus bound for "Shonan Zaima Naoko No Oka" on Track #2 and get off at "Shonan Kokusaimura Makado-sawa Chuo Dori". Approx. 20 min. Cost: 320 yen.
- Shin 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". Approx. 23 min. Cost: 340 yen.
  » Take Keikyu Bus bound for "Shonan Zaima Naoko No Oka" on Track #1 and get off at "Shonan Kokusaimura Makado-sawa Chuo Dori". 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". Approx. 30 min. Cost: 370 yen.
- YCAT
  » Take a bus bound for "(For Yokosuka West Side) on Track #6 of Yokohama City Air Terminal and get off at "Shonan Kokusaimura Center". Approx. 45 min. Cost: 900 yen.
  » Note: 3-minute walk from "Shonan Kokusaimura Makado-sawa Chuo Dori" to the University.

Access by car
- Zushi Interchange of Yokohama-Yokosuka Road (toll way)
  After going out of the exit of Zuyo-Shindo Route (toll way), 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 Chuo Dori" intersection and keep driving for about 1 minute to the University.