

Welcome  
to the Kashiwa Campus  
of The University of Tokyo



# Adventures in Knowledge

Kashiwa campus is the newest of the three main campuses of The University of Tokyo in addition to campuses at Hongo and Komaba, and was established with the vision of building a new community with a strong interdisciplinary and international character that can respond to the dynamic scientific and educational needs of the 21st Century.

Hongo campus, the nucleus of academic activities at The University of Tokyo since its founding in 1877, and Komaba campus, focusing on undergraduate studies and building interdisciplinary links between established fields of study for over 60 years, have longstanding academic traditions. The Kashiwa campus recently joined this family and brings with it a fundamental reorganization of the structure of traditional academic disciplines, rethinking the framework of how knowledge is created and organized. Under the slogan of “adventures in knowledge”, the Kashiwa campus has started a range of new initiatives.

The Graduate School of Frontier Sciences (GSFS) consists of three divisions each with relevant departments: Division of Transdisciplinary Sciences, Division of Biosciences, and Division of Environmental Studies, and one independent unit: Department of Computational Biology. GSFS aims to create new frontiers of academic fields. The Institute for Solid State Physics (ISSP) is exploring a wide variety of phenomena exhibited by various materials from the viewpoint of basic science using state-of-art experimental facilities and techniques. Materials under study include those forming the basis of today's high-tech society and its future development.

The Institute for Cosmic Ray Research (ICRR) is pursuing the origins of the universe and matter through research on cosmic rays. The Atmosphere and Ocean Research Institute (AORI) not only promotes basic research on the ocean and atmosphere, but also contributes to society through deepening ocean and climate science. The Todai Institutes for Advanced Study, Institute for the Physics and Mathematics of the Universe (IPMU) pursues the deep mysteries of the universe through the integration of Physics and Mathematics. Other departments include RACE (Research into Artifacts, Center for Engineering), the Center for Spatial Information Science, the Kashiwa Branch of the Environmental Science Center, the Information Technology Center, the Institute of Gerontology and the Kashiwa Library. As the names suggest, these facilities bring together people from a wide variety of research fields. As an important part of facilitating communication between research fields, the Kashiwa campus also has a strong international character, promoting international contacts and the exchange of ideas from around the world. Through the facilities that exist now or will be built in the near future, the Kashiwa campus has excellent coverage of many of the new fields of science that have growing importance in shaping our lives in the 21st Century. Abandoning the constraints of traditional ways of organizing science, Kashiwa campus has quickly responded to the continuously evolving frontiers of science in an increasingly global and dynamic society by building new interdisciplinary research facilities and seeding new academic fields. These achievements will make the “adventures in knowledge” in Kashiwa possible.

## Growth of the Kashiwa Campus

In 1998, The University of Tokyo established a new campus about 30 km northeast of Tokyo located in Chiba prefecture, in the northern part of Kashiwa city, adjoining Kashiwanoha Park, and the University has been consolidating certain academic and research units since then. At the beginning of 2011, the total number of faculty, graduate students, and researchers at the Kashiwa campus reached exceeded 3,000.

Relocated in 2000	● Institute for Cosmic Ray Research ● Institute for Solid State Physics	(from Tanashi campus) (from Roppongi campus)
2001	● Division of Integrated Biosciences, Graduate School of Frontier Sciences	(from Hongo campus)
2003	● Division of Transdisciplinary Sciences, Graduate School of Frontier Sciences	(from Hongo campus)
2005	● Research into Artifacts, Center for Engineering ● Center for Spatial Information Science ● High Temperature Plasma Center [incorporated into Graduate School of Frontier Sciences in 2008]	(from Komaba campus) (from Komaba campus) (from Hongo campus)
	● Center for Climate System Research [Consolidation of the Ocean Research Institute and Center for Climate System Research into the Atmosphere and Ocean Research Institute (AORI) in 2010]	(from Komaba campus)
2006	● Division of Environmental Studies, Graduate School of Frontier Sciences	(from Hongo campus)
2007	● Institute for the Physics and Mathematics of the Universe (IPMU) [established in 2007, reorganized into Todai Institutes for Advanced Study, IPMU in 2011, renamed Kavli Institute for the Physics and Mathematics of the Universe in 2012.]	
2010	● Atmosphere and Ocean Research Institute [Consolidation of the Ocean Research Institute and Center for Climate System Research into the Atmosphere and Ocean Research Institute in 2010]	(from Nakano campus)
2011	● Information Technology Center	(from Hongo campus)
<b>Support facilities in Kashiwa</b>		
	● Health Services Center Kashiwa Branch	2000
	● Environmental Science Center, Kashiwa Branch	2003
	● Kashiwa Library	2004

### Outline of The University of Tokyo (Todai)

Established:	1877 (Departments of Law, Science, Literature, and Medicine)	
President:	Junichi Hamada	
Teaching/research organizations:	10 faculties, 15 graduate schools, 11 institutes, 15 shared facilities	
Campuses:	Hongo (Bunkyo-ku, Tokyo)	559,176m <sup>2</sup>
	Komaba (Meguro-ku, Tokyo)	352,180m <sup>2</sup>
	Kashiwa (Kashiwa, Chiba)	398,391m <sup>2</sup>

## ■ Kashiwa Campus Management

The Kashiwa Campus Joint Academic Management Council was established as an organization for discussing and deciding matters regarding academic management common to all Departments on the Kashiwa Campus.

### Its role is to deal with

- (1) Matters referred to the Council by departments belonging to the Kashiwa Campus
- (2) Other matters regarding academic management common to all Departments

## Kashiwa Campus Joint Academic Management Council

Kashiwa Campus Amenity Office

Kashiwa Campus Liaison Office

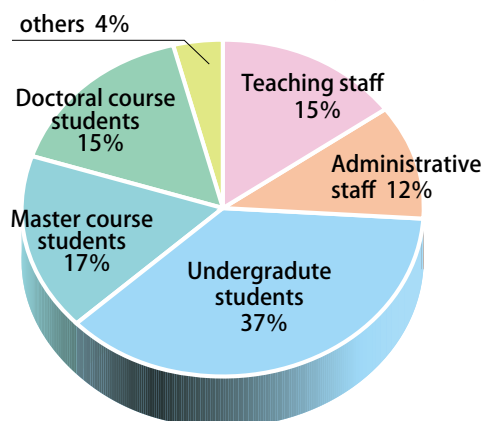
Kashiwa Campus Health and Safety Office

## ■ The people that make up the Kashiwa campus

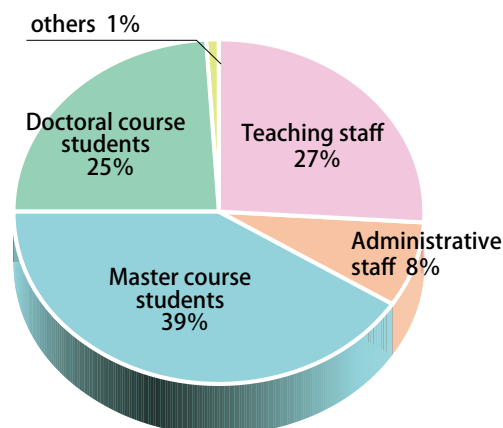
Classification	Number of faculty and staff													Number of graduate students and research students							
	Faculty / Researchers			Technical personnel			Administrative staff			Total				Master Course		Doctoral Course		Others		Total	
	Full-time	Fixed-term	Part-time	Full-time	Fixed-term	Part-time	Full-time	Fixed-term	Part-time	Full-time	Fixed-term	Part-time	Total	GSFS		GSFS		GSFS		GSFS	
Graduate School of Frontier Sciences	180	94	56	0	13	85	22	5	100	202	112	241	555	859		505		16		1,380	0
Institute for Cosmic Ray Research	37	26	0	7	1	22	8	3	14	52	30	36	118	30	0	17	0	0	0	47	0
Institute for Solid State Physics	81	52	5	30	2	25	12	1	40	123	55	70	248	43	33	37	18	0	0	80	51
Atmosphere and Ocean Research Institute	61	49	11	15	3	48	18	2	42	94	54	101	249	44	19	64	19	6	0	114	38
Research into Artifacts, Center for Engineering	7	2	2	0	1	2	0	0	7	7	3	11	21	14	0	10	0	2	0	26	0
Center for Spatial Information Science	13	8	7	0	0	5	0	0	3	13	8	15	36	15	24	4	16	1	1	20	41
Environmental Science Center, Kashiwa Branch	2	0	0	0	0	0	0	0	1	2	0	1	3								
Information Technology Center	2	2	0	2	0	0	0	1	1	4	3	1	8								
Kavli Institute for the Physics and Mathematics of the Universe, Todai Institutes for Advanced Study	3	79	1	0	4	2	9	9	9	12	92	12	116								
Institute of Gerontology	2	2	2	0	0	5	0	0	3	2	2	10	14								
Future Center Initiative	1	1	1	0	0	0	0	0	3	1	1	4	6								
Health Services Center, Kashiwa Branch	0	0	0	2	0	0	1	0	0	3	0	0	3								
International Center, Kashiwa Office	0	0	0	0	0	0	0	2	0	0	2	0	2								
Kashiwa Library	0	0	0	0	0	0	5	0	1	5	0	1	6								
Research Center Support Office / Kashiwa	0	0	0	0	0	0	4	0	4	4	0	4	8								
Kashiwa Administration Department Center	0	0	2	0	0	4	28	0	17	28	0	23	51								
<b>Total</b>	<b>389</b>	<b>315</b>	<b>87</b>	<b>56</b>	<b>24</b>	<b>198</b>	<b>107</b>	<b>23</b>	<b>245</b>	<b>552</b>	<b>362</b>	<b>530</b>	<b>1,444</b>	<b>1,005</b>		<b>637</b>		<b>25</b>		<b>1,667</b>	

\*Number of faculty and students are the numbers as of May 1st, 2014.

### ■ People who make up The University of Tokyo(38,333)



### ■ People who make up Kashiwa Campus(2,581)



\*All numbers as of May 1, 2014.

\*Fixed and part-time staff not included.

\*Others are specialists and researchers.

# Facilities at the Kashiwa campus



## ■ Graduate School of Frontier Sciences (GSFS)

- Division of Transdisciplinary Sciences
  - Department of Advanced Materials Science
  - Department of Advanced Energy
  - Department of Complexity Science and Engineering
- Division of Biosciences
  - Department of Integrated Biosciences
  - Department of Medical Genome Sciences
- Division of Environmental Studies
  - Department of Natural Environmental Studies
  - Department of Ocean Technology, Policy, and Environment
  - Department of Environment Systems
  - Department of Human and Engineered Environmental Studies
  - Department of Socio-Cultural Environmental Studies
  - Department of International Studies
  - Graduate Program in Sustainability Science
- Department of Computational Biology
- Research Center for Total Life Health and Sports Sciences (Kashiwa II campus)
- Center for Omics and Bioinformatics
- Bioimaging Center
- Functional Proteomics Center

## ■ Institute for Cosmic Ray Research (ICRR)

### Research Divisions

Neutrino and Astroparticle Division  
 High Energy Cosmic Ray Division  
 Astrophysics and Gravity Division

### Research Facilities

- Kamioka Observatory (Kamioka-cho, Hida City, Gifu)
- Research Center for Cosmic Neutrinos
- Norikura Observatory (Takayama City, Gifu)
- Akeno Observatory (Hokuto City, Yamanashi)

## ■ Institute for Solid State Physics (ISSP)

### Research Divisions

Division of New Materials Science  
 Division of Condensed Matter Theory  
 Division of Nanoscale Science  
 Division of Physics in Extreme Conditions

### Research Facilities

- Materials Design and Characterization Laboratory
- Neutron Science Laboratory
- International MegaGauss Science Laboratory
- Center of Computational Materials Science
- Laser and Synchron Research Center

## ■ Atmosphere and Ocean Research Institute (AORI)

### Research Divisions

Division of Climate System Research
 

- Department of Climate System Modeling
- Department of Climate Variability Research

Division of Ocean-Earth System Science
 

- Department of Physical Oceanography
- Department of Chemical Oceanography
- Department of Ocean Floor Geoscience

Division of Marine Life Science
 

- Department of Marine Ecosystem Dynamics
- Department of Marine Bioscience
- Department of Living Marine Resources

Department of Collaborative Research

### Research Centers

- International Coastal Research Center
- Center for International Collaboration
- Center for Earth Surface System Dynamics
- Analytical Center for Environmental Study



Transdisciplinary Sciences, GSFS



Biosciences, GSFS



Environmental Studies, GSFS



Institute for Cosmic Ray Research (ICRR)



Institute for Solid State Physics (ISSP)



Atmosphere and Ocean Research Institute (AORI)

■ **Research into Artifacts, Center for Engineering**

Division of Human-Artifactology  
Division of Socio-Artifactology

■ **Center for Spatial Information Science**

Division of Spatial Information Analysis  
Division of Spatial Information Engineering  
Division of Spatial Socio-Economic Research  
Division of Joint Usage and Research

■ **Kashiwa Branch of the Environmental Science Center**

Kashiwa Branch of the Environmental Science Center performs both research and education on environmental conservation and safety management. It also supervises management, treatment, and disposal of hazardous wastes generated on Kashiwa Campus.

■ **Information Technology Center  
(Joint Usage/Research Center, MEXT)**

The Information Technology Center (ITC) is one of the largest supercomputer centers in Japan. ITC operates two supercomputers with more than 1,500 users, where 50% of them are outside of the university. ITC's main mission is providing services to support these users. Research and education related to large-scale scientific simulations, and system software on supercomputers are conducted.

■ **Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU), Todai Institutes for Advanced Study (TODIAS)**

Kavli IPMU, selected by MEXT for the World Premier International Research Center Initiative, is a multi-disciplinary research institute aiming at studying dark energy, dark matter, and unified theories (such as superstring theories and quantum gravity). The mission of Kavli IPMU is to understand the origin and evolution of the universe through synergetic efforts in mathematics, physics, and astronomy.

■ **Institute of Gerontology (IOG)**

The Institute of Gerontology is a multi-disciplinary research institute which aims to first collect and organize the various knowledge and technology regarding individual as well as aging population into the science of "Gerontology", and then further this science. The mission of IOG is to confront the various challenges facing an aging society from a multi-disciplinary perspective and offer new, viable solutions thereby effectively using what is learned, adding value, and returning it back into society.

■ **Future Center Initiative**

Future Center Initiative facilitates a commercialization of research products of UTokyo through social experiments in Kashiwa area. Kashiwanoha Campus Station Satellite is used as an interchanging facility of academic and private organizations.

■ **International Center Kashiwa Office,  
Division of International Affairs**

The International Center Kashiwa Office provides a variety of services to support internationalization of Kashiwa Campus such as providing information on visa procedures and life in Japan, and arranging language classes and cultural exchange events.

■ **Division for Health Service Promotion  
(Kashiwa Health Service Center)**

The Kashiwa Health Service Center provides health management services and medical care for the students, faculty, and researchers at the Kashiwa campus.

■ **Kashiwa Library**

Kashiwa Library is the central library on the Kashiwa Campus, one integral part of the tripolar structure of the University of Tokyo. It assists the realization of the "Multidisciplinary Integration", the fundamental principle of the Kashiwa Campus, providing access to and help in finding by academic information. And also, it aims to be a research center and a place to advance the multidisciplinary integration, the intellectual creation, and the communicating of creative information.



Kashiwa Research Complex



Kashiwa Research Complex2



Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU), Todai Institutes for Advanced Study (TODIAS)



University of Tokyo KashiwaII Campus



Kashiwanoha Campus Station Satellite



Kashiwa Library



## Community partnerships, industry-academia cooperation, and international activities at the Kashiwa campus

The spirit of transdisciplinarity is the driving force in new industry creation and urban revitalization based on the collaboration of Chiba Prefecture, Kashiwa City, Nagareyama City, and The University of Tokyo that has brought an academic center, Kashiwa campus, back to the regional community. The University actively promotes the transfer of technology to industry, and is making great strides in internationalizing the campus.

### ■ Open Campus

An open campus program is held on the last Friday and Saturday of October every year. Some 5,000 people participate in open campus events that include visiting research laboratories and touring large-scale experiment facilities.

### ■ Kashiwa Library Club

Kashiwa Library Club is an institution for assisting the Kashiwa Library, The University of Tokyo, and also for exchange between the members and additionally between the members and the staffs. Anyone who agrees with the purpose of the club, with the exception of high school students or younger children, can join the club. The club members may borrow open-stack books, and use the facilities on the 1st floor of the library, and will also receive announcements of screen plays or concerts by mail.

### ■ Urban Design Center Kashiwa-no-ha (UDCK)

Urban Design Center Kashiwa-no-ha was established as a joint research center of The University of Tokyo and Chiba University, Kashiwa City, Mitsui Fudosan Co., Ltd. The Kashiwa Chamber of Commerce and Industry, and regional community (Tanaka regional Furusato committee), Metropolitan Intercity Railway Company. It is located in front of Kashiwanoha Campus Station, and operates pilot programs and the seminars based on research achievements and ideas from the universities.

### ■ Public Lectures

With the cooperation of Kashiwa City and the Kashiwa Chamber of Commerce and Industry, The University holds lectures open to the public, inviting Nobel Prize winners and other notable speakers.



Open Campus



Open Campus



Kashiwa Library



Urban Design Center Kashiwa-no-ha (UDCK)

### ■ Science Partnership Program (SPP)

The purpose of this program is to provide greater opportunities for improving the intellectual curiosity of high school students; and enhancing the level of interest in science, technology, physics, and mathematics through partnerships between universities and high schools. The Japan Science and Technology Agency selected The University of Tokyo to undertake the project. With the cooperation of the Chiba Prefecture Board of Education, the teaching faculty of the Kashiwa campus provide a two-day course of hands-on science learning during the summer holidays for high school students from Chiba Prefecture who wish to attend, with lectures on leading edge scientific research.

### ■ University Consortium Tokatsu

University Consortium Tokatsu was founded to promote further development of the Kashiwanoha area in collaboration with Kashiwa and four other nearby cities and some eleven other universities. It consists of three actively operating sections: "Internationalization", "Teganuma Lake", and "Learning and Practice". The University of Tokyo participates as member.

### ■ Cooperation with the Tokatsu Techno Plaza

Tokatsu Techno Plaza, established by Chiba prefecture, is an organization that provides support for corporate research and development in the prefecture. The University of Tokyo participates in the following projects:

#### • University Research Exchange Salon

At this workshop, researchers from the University among others provide lectures and consulting to people from the corporate and government sectors regarding new technology and new product development. The University of Tokyo sends a lecturer and consultant to this workshop.

#### • Summer Science Class

This class educates children on different views of science, and teaches the importance and joy of making things with their hands. The University of Tokyo provides the instructor for this class.

### ■ Cooperation with the Todai Kashiwa Venture Plaza

The Organization for Small and Medium Enterprises and Regional Innovation Japan established the Todai Kashiwa Venture Plaza to provide support to small and medium venture firms that aim to research and develop new products and new technology or to enter new technology fields based on university discoveries and inventions. The University of Tokyo cooperates with more than half of the businesses involved.

### ■ Sawayaka Chiba Kenmin Plaza

Sawayaka Chiba Kenmin Plaza is the prefectural complex facility with a lifelong learning center, and art and culture center functions. The University of Tokyo sends a lecturer for their Kashiwanoha Academia Lecture, and holds lectures and the tours about advanced technologies and environment concerns.

### ■ Cooperation with the Japan Atomic Energy Agency

A Researcher-in-Residence from The Center for Computational Science & e-Systems at the Japan Atomic Energy Agency is always on the Kashiwa Campus, and promotes joint research on high technology computational science toward complexity phenomena of materials, structures, and fluids. The University also cooperates in growing human resources in supercomputing and its application fields.

### ■ International Exchange Activities

The Kashiwa Campus is regarded as the international base of The University of Tokyo. The International Center Kashiwa Office provides assistance to students and researchers from abroad concerning visa procedures, housing information, and a variety of other high-quality services as well as acting as a contact window to regional corporation. Additionally, the International Lodge (Kashiwa Lodge) recently opened on Kashiwa Campus II in 2010. The University is planning the development of an "international village for all disciplines" where foreign students and researchers from all over the world can come together to exchange ideas and learn in an environment where learning and living in the same place complement each other.



SPP "Microcomputer Control of Mechanical System"

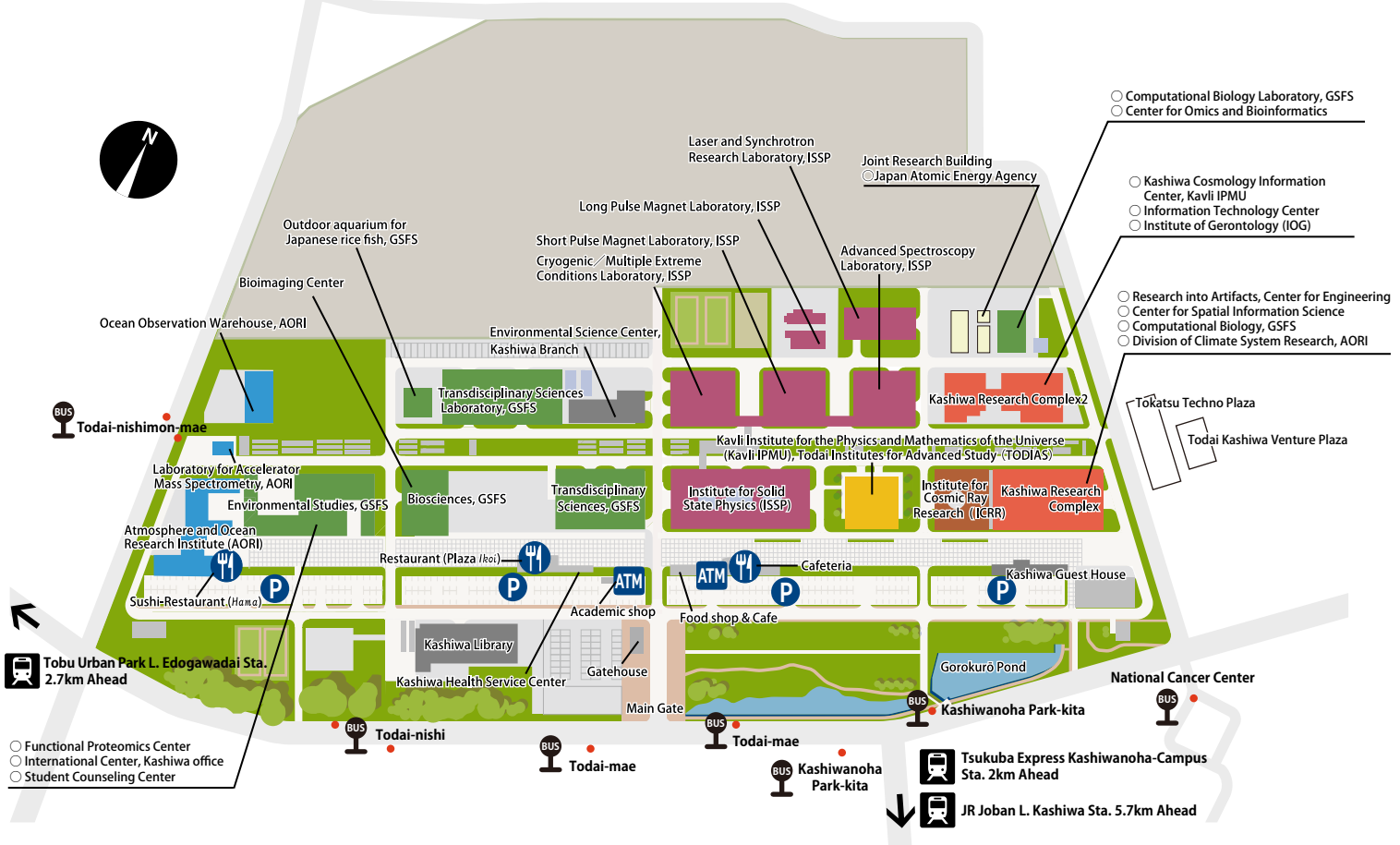


Joint Research on High Technology Computational Science with the Japan Atomic Energy Agency



Kabuki Event for International Students and Researchers (National Theater)

# Map of Kashiwa Campus, The University of Tokyo



## Getting to the Kashiwa Campus

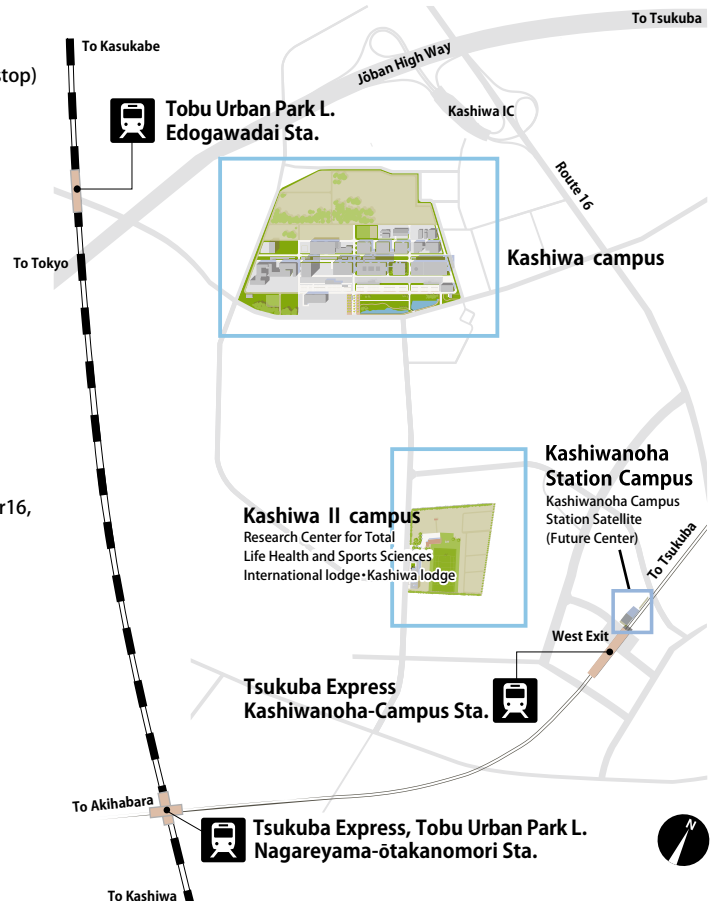
- Kashiwanoha-Campus Station West Exit (Tsukuba Express Line)  
<Tobu Bus>  
西柏03 for Nagareyama-ōtakanomori Station East Exit (Some buses stop at Todai-nishi stop)  
→ get off at Todai-mae, Todai-nishi stop.  
西柏04 for Edogawadai Station East Exit (via National Cancer Center)  
→ get off at Todai-mae, Todai-nishi stop.  
西柏10 for Edogawadai Station East Exit (via Midoridai-chuo)  
→ get off at Todai-mae, Todai-nishi, Todai-nishimon-mae stop.  
<on foot> about 25-minute walk
- Kashiwa Station West Exit (JR Joban Line)  
<Tobu Bus>  
西柏01 for National Cancer Center (via Kashiwanoha Park)  
→ get off at Todai-nishi, Todai-mae stop.  
柏44 for National Cancer Center (via Customs Training Institute)  
→ get off at National Cancer Center stop.
- Edogawadai Station East Exit (Tobu Urban Park Line)  
<Tobu Bus>  
西柏04 for Kashiwanoha-Campus Station West Exit (via National Cancer Center)  
→ get off at Todai-nishi, Todai-mae stop.  
西柏10 for Kashiwanoha-Campus Station West Exit (via Midoridai-chuo)  
→ get off at Todai-nishimon-mae, Todai-nishi, Todai-mae stop.
- Joban Highway Kashiwa interchange take Chiba direction exit to National Road number 16, after 500m turn right at the "Toyofuta Industrial Estate Entrance" crossroads.

## Getting to the Kashiwa Campus II

- Kashiwanoha-Campus Station West Exit (Tsukuba Express Line)  
<Tobu Bus>  
西柏02 for Kashiwa Station West Exit or 西柏05 for Takada-shako  
→ get off at kashiwanoha Park-chuo, Kashiwanoha high school-mae stop.  
<on foot> about 15-minute walk
- Kashiwa Station West Exit (JR Joban Line)  
<Tobu Bus>  
西柏01 for National Cancer Center (via Kashiwanoha Park)  
→ get off at Kashiwanoha high school-mae stop.  
西柏02 for Kashiwanoha-Campus Station West Exit or 柏44 for National Cancer Center (via Customs Training Institute)  
→ get off at Kashiwanoha high school-mae, Kashiwanoha Park-chuo stop

## Getting to the Kashiwanoha Station Campus

- Kashiwanoha-Campus Station West Exit (Tsukuba Express Line) 1 minutes' walk



As of August 2014.

Issued by The Kashiwa Campus Liaison Office, the Kashiwa campus Joint Academic Management council, The University of Tokyo

Contact : General Affairs/Public Relation Section, Kashiwa Administration Department Center