

UNESCO Biotechnology School in Asia

"UNESCO Biotechnology School in Asia", an international human resource development program, was launched in 2012 with support from UNESCO and the Ministry of Education, Culture, Sports, Science and Technology. This program provides advanced technological education in the field of biotechnology for postgraduate students in the ASEAN countries.

JST SAKURA Exchange Program in Science (Japan-Asia Youth Exchange Program in Science)

This program aims to enhance and promote exchanges in the field of science and technology between Asia and Japan, and is directed toward the youth who will play a crucial role in the future. The program is done under the close collaboration of industry-academia-government sectors. In the 2014 project, company tours and a training course of cutting-edge analytical techniques were included.

JASSO Student Exchange Support Program

This is a field study program jointly operated with GLOCOL (Global Collaboration Center), Osaka University and several universities in Thailand. In 2014, 16 first year master's degree students of Osaka University visited 4 universities in Thailand between August and September, and 17 postgraduate students from Thailand visited Osaka University between August and December, which enhanced mutual interactions.

Internship

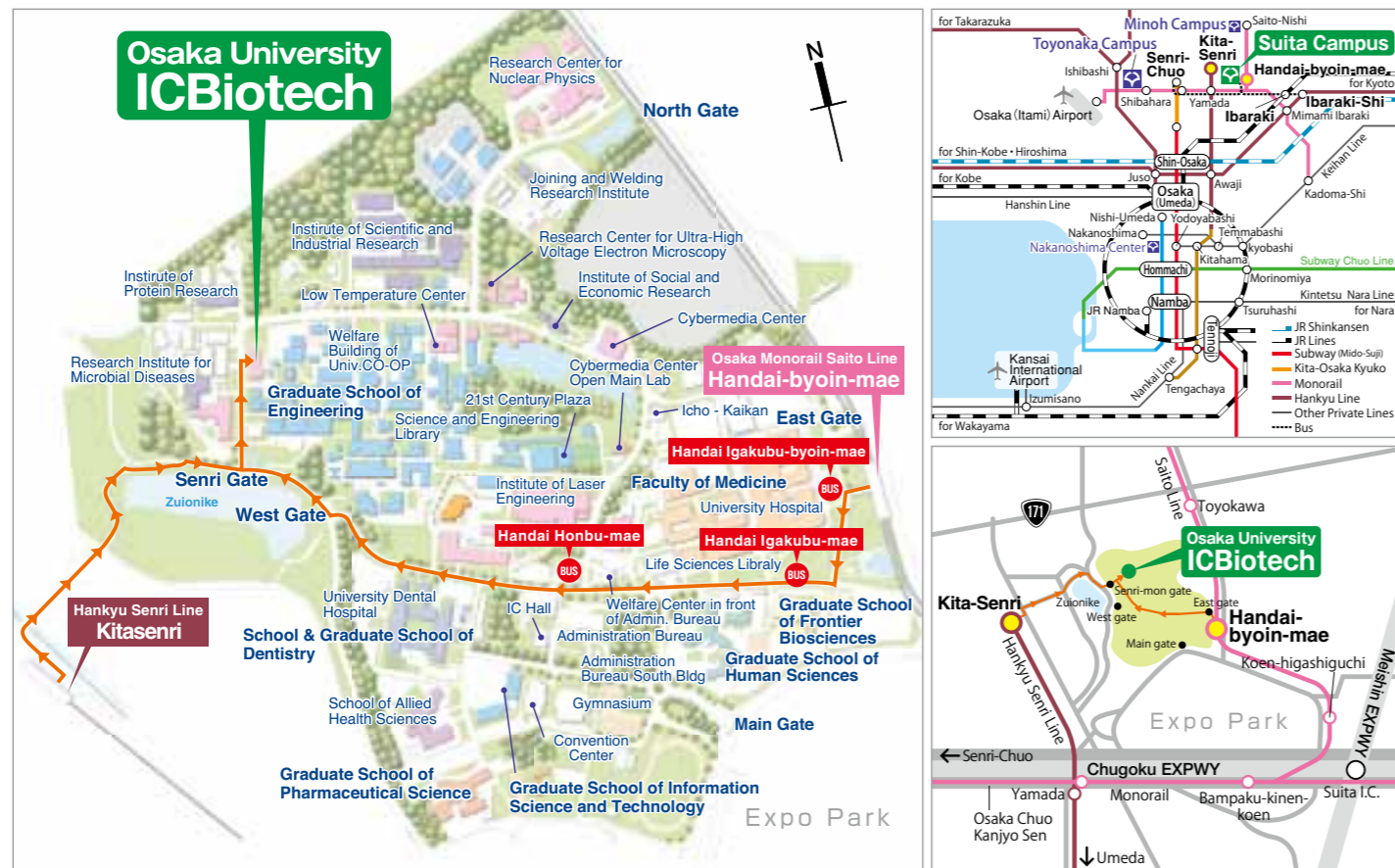
To enhance interest on Japanese companies and foster willingness to work in such companies, a month-long company-internship program was launched for postgraduate students from universities in Southeast Asia. With an officially assigned status as an Osaka University student, the participant engages in the internship without any salary from the company but with the benefit of experiencing the actual working aspects and the company culture.

Access

Osaka University International Center for Biotechnology

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- **Train** From Kita-Senri on Hankyu Senri Line 15 min. east on foot.
- **Monorail** From Handai-byoin-mae on Osaka Monorail 15 min. north-west on foot.
- **Bus** From Senri-chuo on the Subway Midosuji Line take the Hankyu Bus bound for Handai-honbu-mae or Ibaraki Mihogaoka to Handai-honbu-mae, walk 10 min. to north-west.
From Ibaraki-shi on the Hankyu Kyoto Line or Ibaraki on JR Kyoto Line take the Kintetsu Bus bound for Handai-honbu-mae to Handai-honbu-mae, walk 10 min. to north-west.



Osaka University International Center for Biotechnology

International Research Complex for Biotechnology



About International Center for Biotechnology

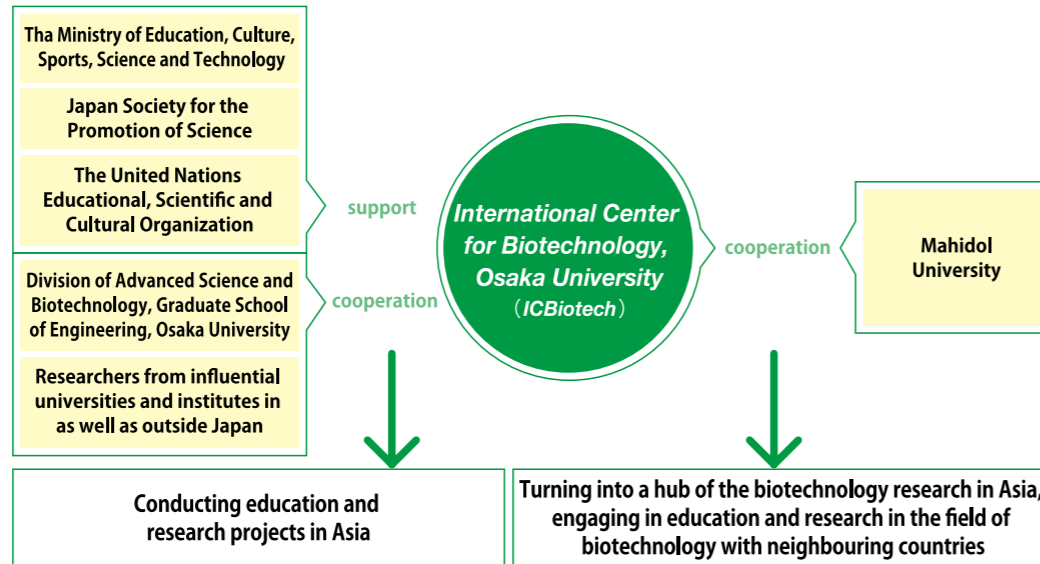
International Center for Biotechnology (ICBiotech), Osaka University, aims for turning into a hub of the biotechnology research in Asia, engaging in education and research in the field of biotechnology from an international view, together with an overseas laboratory, Cooperative Research Station for Southeast Asia (CRS, about 500m²) in Mahidol University, Thailand.

After 35 years since the establishment in 1978, it turned to α & β buildings of International Research Complex for Biotechnology (4000 m²) in May 2013.

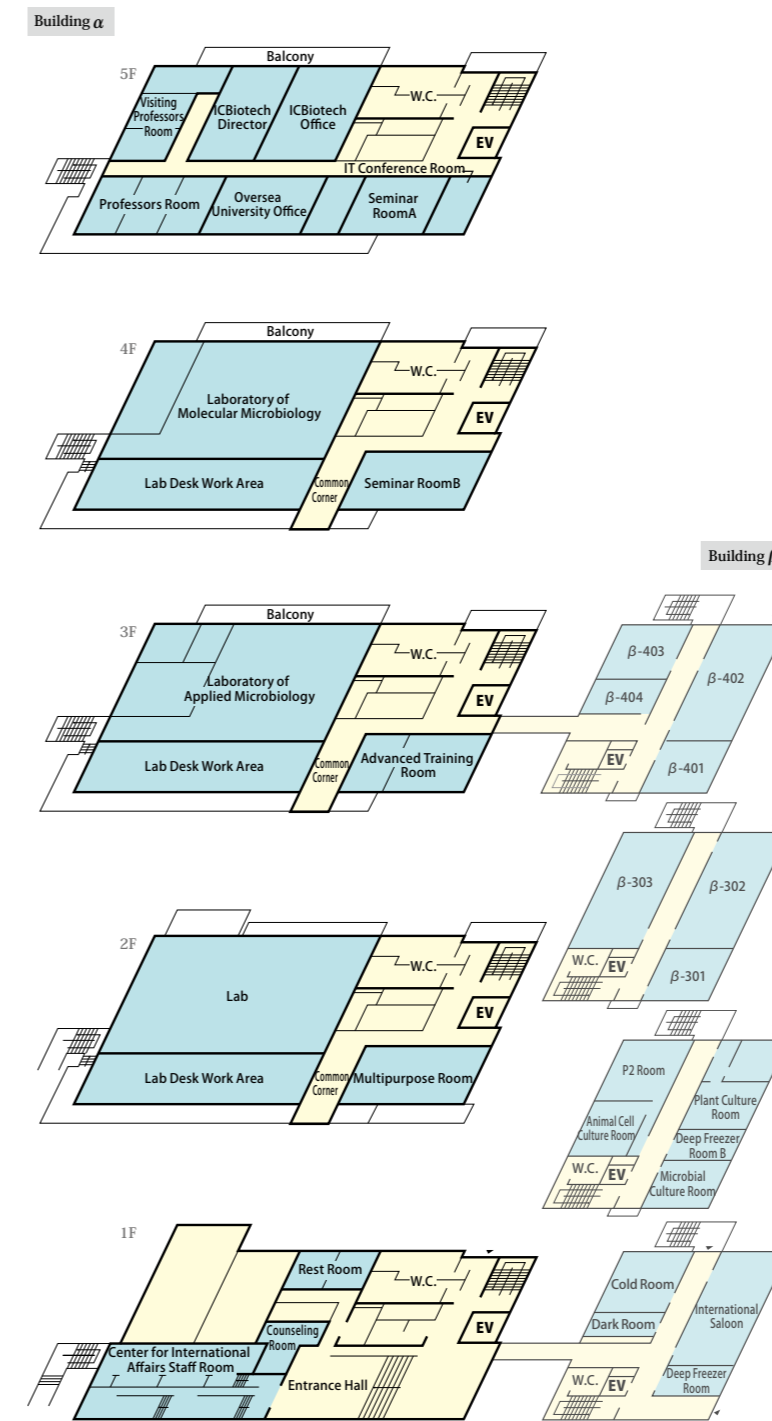
Now, the Complex is a major base for 2 existing laboratories, collaborative laboratories, Research Alliance Laboratories, and Center for International Affairs in Graduate School of Engineering, so that the stage is set for planning and operating wider international exchange programs. ICBiotech's main research field is industrial biotechnology based on microbiology and plant engineering, especially utilizing agricultural and forestry resources from Southeast Asian countries on a sustained and equitable basis.

Regarding international exchange, we are conducting education and research projects in Asia cooperating with Division of Advanced Science and Biotechnology, Graduate School of Engineering, Osaka University, and researchers from influential universities and institutes in as well as outside Japan with support of Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan Society for the Promotion of Science (JSPS), and United Nations Educational, Scientific and Cultural Organization (UNESCO).

Linking the World through Biotechnology



Floor Map



The 3rd and the 4th floors of the β -building contain the open laboratories for the Graduate School of Engineering, Osaka University.

5F The 5th floor of the Complex is the cornerstone of ICBiotech. Located on this floor are the ICBiotech Director's room, the ICBiotech Office, Seminar Room A, the IT Conference Room, professors' rooms, visiting professors' rooms and the Overseas University Offices. The 60 square meters Overseas University Offices is strategically located on this floor to promote closer interaction with foreign universities, which enables planning and implementation of successful international programs.

4F The 4th floor of the Complex contains the Laboratory of Molecular Microbiology (Prof. T Nihira) and Seminar Room B which can accommodate 56 seats. The Laboratory of Molecular Microbiology engages in bioactive compounds from microorganisms, particularly actinomycetes and filamentous fungi, employing molecular and genetic techniques, with focus on finding novel compounds, and regulatory/biosynthetic pathways.

3F The 3rd floor of the Complex contains the Laboratory of Applied Microbiology (Prof. K Fujiyama) and the Advanced Training Room (70m²) which is equipped with sophisticated analytical instruments such as HPLCs and a LC-MS to enable highly advanced research. By combining biotechnology with sophisticated analytical technology, researches on how to develop production systems of useful materials using microbes, insects, plants, and mammalian cells are being conducted in this laboratory.

2F The 2nd floor of the Complex contains research area for a collaborative laboratory in the Graduate School of Engineering (Laboratory of Bio-environmental Systems Engineering: Prof. H Watanabe), and a multipurpose room (70m²) being used as a joint laboratory of a company aiming to do a research on regeneration medicine. Along with joint laboratories in the β -building, foreign researchers and international students who are visiting and/or staying at ICBiotech experience the university-industry interactions as well as several research trainings conducted by companies.

1F The 1st floor of the Complex contains the Center for International Affairs (Graduate School of Engineering, established in April, 2013, former Advisory Division for International Students since August, 1984). This Center plays essential roles in the internationalization of Osaka University via its contribution in international education programs, research projects and academic exchange programs.

