

Biotechnology

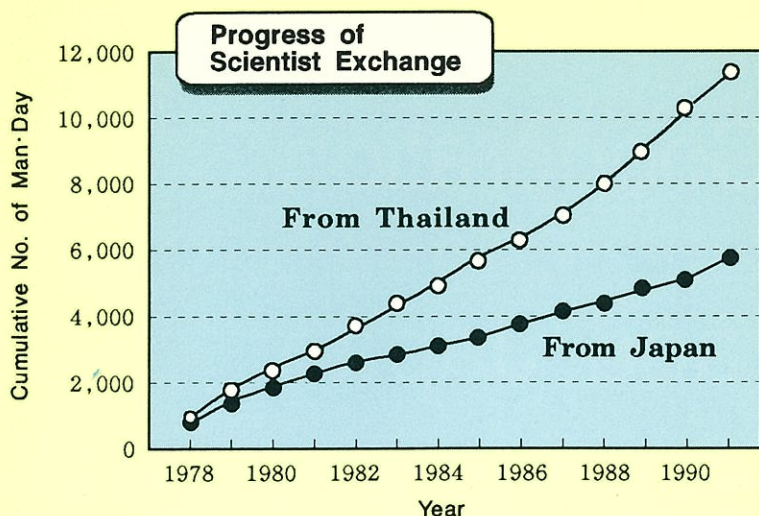
14 Years Cooperation between Thailand and Japan

Core University System
JSPS Program for Scientific Cooperation
with Southeast Asian Countries

1992

ICBiotech

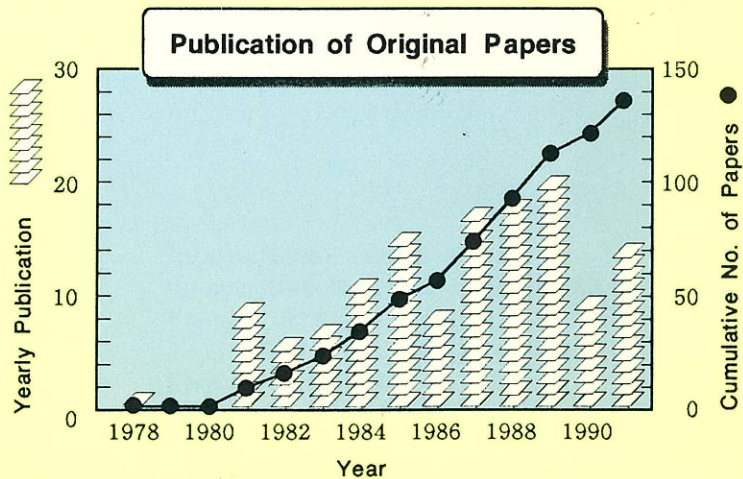
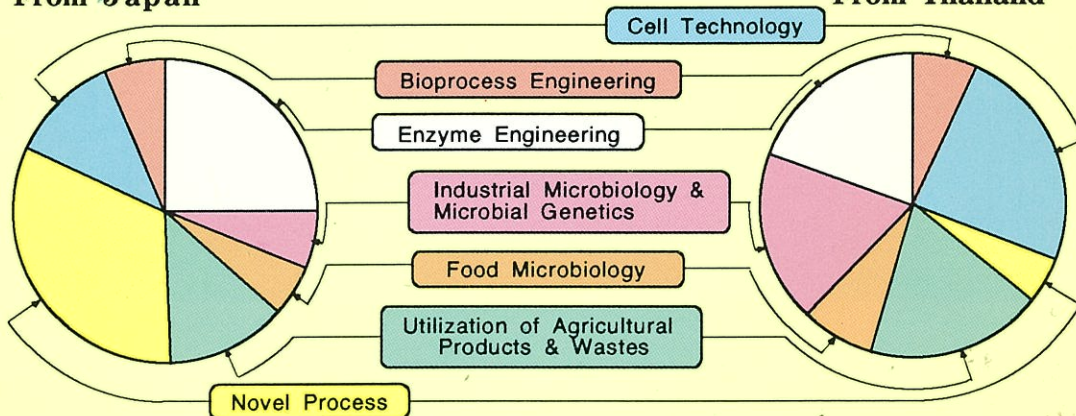
Cooperative Research



Research Field of Scientist Exchange (1990)

From Japan

From Thailand



History

- International Center of Cooperative Research and Development in Microbial Engineering (ICME) was founded in Osaka University.

- 1st Seminar (Osaka) 1980. 3.24 - 28.

- 2nd Seminar (Songkla) 1981. 1. 5 - 8.

- 3rd Seminar (Osaka) 1983. 3.22 - 26.

- 4th Seminar (Khon Kaen) 1984.12.24 - 26.

- Program with Singapore started.

- ICME was closed.

- International Center of Cooperative Research in Biotechnology (ICBiotech) was founded.

- Program with Philippines started.

- 5th Seminar (Osaka) 1986.11.18 - 22.

- Foundation for the Promotion of Biotechnology (FPB) in Thailand was inaugurated.

- Monbusho Scholarship for the Core Univ. System started.

- 6th Seminar (Chiang Mai) 1988.12.22 - 24.

- Thai Society for Biotechnology was founded.

- Long Term Invitation Program started.

- 7th Seminar (Songkla) 1990.12.22 - 23.

- 1978 ○ Core University System with Thailand started.
Field: Agroindustry including Microbial Technology
Core University: Osaka University (Japan)
Kasetsart University (Thailand)

- 1979 ○ Two Research Topics were selected.
1) Development of Novel Fermentation
2) Improvement of Conventional Fermentation

- 1980 ○ Six Research Topics were selected.
1) Production of Bio-Fuels
2) Production and Application of Industrial Enzymes
3) Industrial Microbiology and Microbial Genetics
4) Improvement of Traditional Thai Food
5) Treatment and Utilization of Agricultural Products and Wastes
6) Development of Microbial Novel Products

- 1981 ○ Arrangement of Research Topics
1) Enzyme Technology
2) Industrial Microbiology & Genetics
3) Food Microbiology
4) Microbial Utilization of Agricultural Products and Wastes
5) Development of Novel Fermentation
6) Cell Technology

- 1985 ○ Field was expanded: Biotechnology
New Core University in Thailand: Mahidol Univ

- 1986 ○ A New Topic was added
7) Bio-Process Engineering

1988

1989

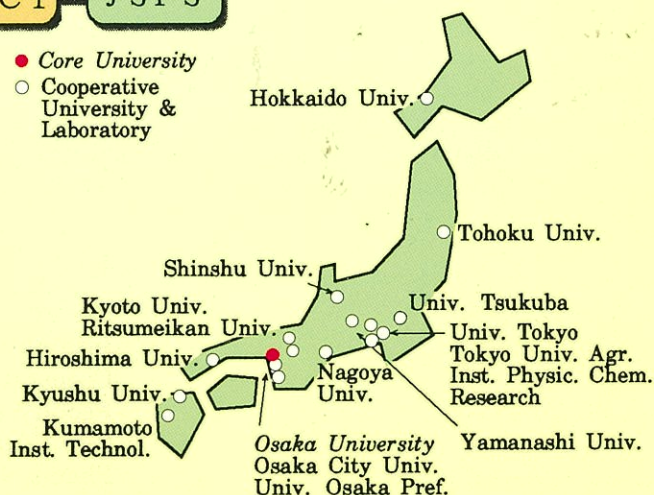
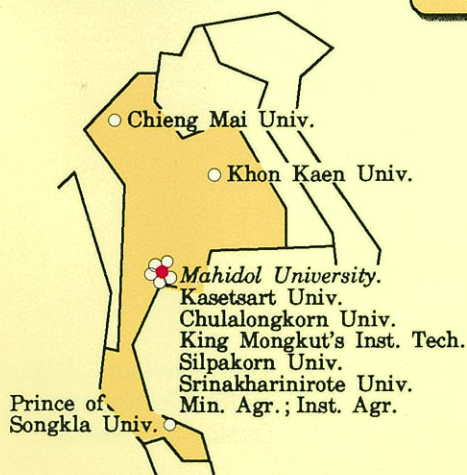
1990

Organization

NRCT

JSPS

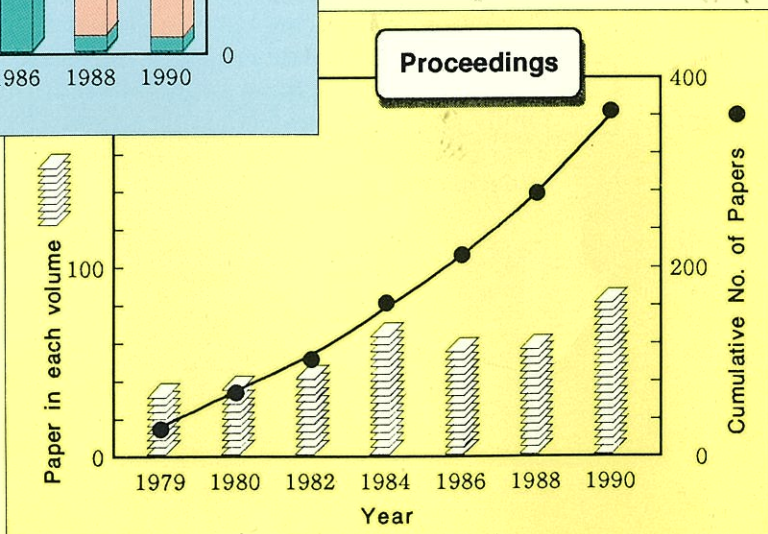
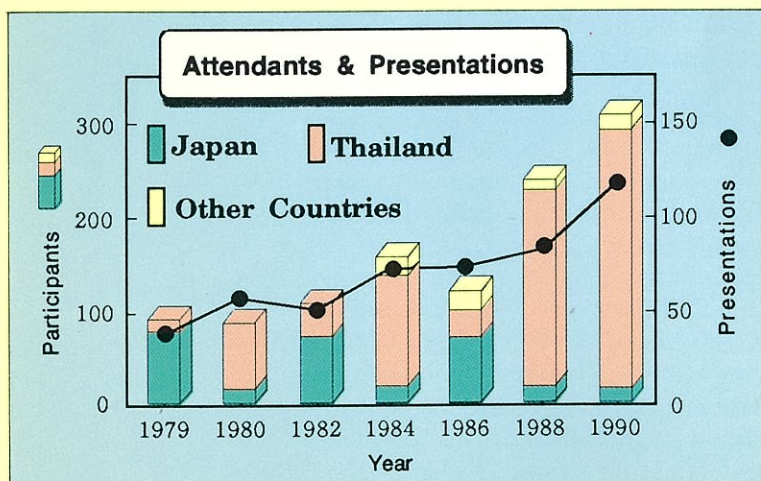
- Core University
- Cooperative University & Laboratory



Development of Academic Community

- ☆ Foundation and Innovation of Institute & Department
4 Departments, 1 Graduate Course, 4 Research Institutes
- ☆ Foundation of Thai Society for Biotechnology (TSB)
Founded in 1988, Members: 670, Annual Meetings.
- ☆ Grant Aid by National Research Council of Thailand (NRCT)
For the Promotion of the Research in the Core University Programs;
3 Projects in Biotechnology; 600,000 Bahts each.
- ☆ Foundation for the Promotion of Biotechnology (FPB) in Thailand
Fund: 1,000,000 Bahts.
Promotion of the Activities of the TSB
Taguchi Prize for Young Scientists in Biotechnology.

Joint Seminar



Summary

Since 1978 the Japan Society for the Promotion of Science (JSPS) has been carrying out special bilateral exchange programs with counterpart institutions in Southeast Asian countries. In the scheme of "the core university system", designated universities play leading roles in conducting cooperative activities in selected academic fields. The program with Thailand in the field of biotechnology is one of the first examples of these cooperative programs. Osaka University is serving as the core university to coordinate the activities of cooperating universities and researchers in Japan, and has implemented the program with the counterpart core Thai universities, Kasetsart University from 1978 to 1985 and Mahidol University from 1985 to present.

After 14 years of operation of the program, the cumulative number of travel days in the scientist exchange program has exceeded 16,700 days. The total number of papers published in international journals has added up to 135 and over 370 papers have been compiled in seven volumes of the proceedings of the JSPS-NRCT joint seminars. Related to the program, over 20 persons have received doctorates from Japanese universities through courses or by the dissertation system. The remarkable development and expansion of the academic community of biotechnology in Thailand has led to a steady increase in the numbers of the inauguration of the Thai Society for Biotechnology. The 'TAGUCHI FUND', a Foundation for the Promotion of Biotechnology in Thailand commemorating the contribution by the late Professor Taguchi to the education and promotion of biotechnology in Thailand, was founded by his family and colleagues both in Japan and Thailand. The FUND awards the TAGUCHI Prize to young scientists studying biotechnology.



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