



# GIP-TRIAD

International Joint Degree Master's Program  
in Agro-Biomedical Science in Food and Health



université  
de **BORDEAUX**

筑波大学  
University of Tsukuba

國立臺灣大學

## International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health

Students with the strong volition of **innovation** related to **food and health** are expected.

The first **European & Asian & Japanese** joint-degree program to establish the study of **food and health** all around the world.



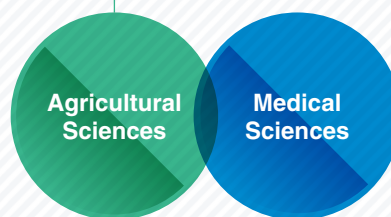
### International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health

In this department, the master course of Agro-biomedical science in **food and health** is created by combining the cooperation beyond boundaries, universities, and majors rarely in the world and academic disciplines (agriculture / medical science) related to food and health. The development of human resources that can solve the global issues related to food and health is aimed through practical education and research activities in various fields with the cooperation universities.

#### Awarding of Joint-Degree by the three universities

Those who pass a final examination jointly held by all three universities are awarded a Master's Degree in Agro-Biomedical Science in Food and Health and receive a graduation certificate signed by all three university presidents.

- Food processing
- Food science
- Plant molecular genetics
- Plant parasitic mycology
- Plant Physiology
- Plant breeding
- Food security
- Agricultural economy
- Metabolomics
- Nutrition
- Oenology
- Horticultural science



- Environmental medicine
- Global health
- Microbiology
- Neurophysiology
- Stem cell biology
- Molecular cell biology
- Stem cell and nanobiotechnology
- Signal transduction
- Virology
- Toxicology

## Practical fields of three universities



### UNIVERSITY OF BORDEAUX

- INRA-Bordeaux (Green Campus)
- Bordeaux Science Agro
- Agriculture-related companies etc.



### UNIVERSITY OF TSUKUBA

- Health and Medical Science innovation Laboratory
- Joint-Laboratory for International Joint-Programs
- Tsukuba-Plant Innovation Research Center
- Agriculture and food-related companies etc.



### NATIONAL TAIWAN UNIVERSITY

- Xitao Experimental Forest
- Nantou Experimental Forest
- Biotechnology-related companies etc.



## Overall picture of curriculum

Classes are divided into a Foundation Course which teaches the academic basics of food and health and the basics of management etc., a Specialized Course I which cultivates the ability to identify and solve problems and the disposition of a high-level specialist through practical study, and a Specialized Course II which develops expertise in health and food resources. We also place importance on practical learning such as field activities and internships with the aim of developing high-level international professionals who have the expertise and practical skills to be able to bridge the gap between the global community and R&D.

Enroll	1st semester University of Tsukuba	2nd semester National Taiwan University	3rd semester University of Bordeaux	4th semester Select from 3 universities	Graduate
Study goals	<ul style="list-style-type: none"> <li>Specialized basic skills related to health and food resources</li> <li>Expertise in evaluating physical benefits and safety of substances</li> <li>Entrepreneurial spirit, management skills</li> <li>Specialized English skills</li> </ul>	<ul style="list-style-type: none"> <li>Expertise related to health and food resources</li> <li>Ability to identify and resolve issues in Asia's social &amp; natural environments</li> <li>R&amp;D and management in Asian companies</li> </ul>	<ul style="list-style-type: none"> <li>Expertise related to links between health and food resources and to the evaluation and development of food resources</li> <li>Ability to identify and resolve issues in Europe's social &amp; natural environments</li> <li>European corporate circumstances, career development</li> </ul>	<ul style="list-style-type: none"> <li>Further expertise on research theme</li> <li>Practical skills depending on career aspirations after graduation</li> </ul>	
Subjects	<ul style="list-style-type: none"> <li>» <b>Foundation Subjects</b> <ul style="list-style-type: none"> <li>Introduction of Agro-Biomedical Science</li> <li>Environmental Health Perspective</li> <li>Entrepreneurship Training I, II</li> <li>English in Medical Science and Technology</li> </ul> </li> <li>» <b>Specialized Subjects I</b> <ul style="list-style-type: none"> <li>Agro-Biomedical Science Laboratory Seminar I</li> <li>Research and Development for Agro-Biomedical Science I</li> </ul> </li> <li>» <b>Specialized Subjects II</b> <ul style="list-style-type: none"> <li>Basic Toxicology</li> <li>Cancer Biology</li> <li>Critical Path Research Management, etc.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>» <b>Foundation Subjects</b> <ul style="list-style-type: none"> <li>Bio-Entrepreneurship Training</li> </ul> </li> <li>» <b>Specialized Subjects I</b> <ul style="list-style-type: none"> <li>Agro-Biomedical Science Laboratory Seminar II</li> <li>Research and Development for Agro-Biomedical Science II</li> <li>Bio-entrepreneurship Training</li> <li>Fusion of Field and Laboratory Studies</li> <li>Internship in Taiwan I</li> </ul> </li> <li>» <b>Specialized Subjects II</b> <ul style="list-style-type: none"> <li>Cellular Network of Biological Molecules</li> <li>Contemporary Issues in Global Health</li> <li>Agriculture in Taiwan, etc.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>» <b>Foundation Subjects</b> <ul style="list-style-type: none"> <li>Job or Internship Hunting Including Technological Watch</li> </ul> </li> <li>» <b>Specialized Subjects I</b> <ul style="list-style-type: none"> <li>International Scientific Seminars</li> <li>Integrative Unit with Omics &amp; Bioinformatic Tools</li> <li>Field to Laboratory Practices with Data Management &amp; Data Mining</li> </ul> </li> <li>» <b>Specialized Subjects II</b> <ul style="list-style-type: none"> <li>Water and Food-borne Microbiological Diseases and Dietary Habits in Human Population</li> <li>Nutrition, Physiological Regulation and Major Human Diseases</li> <li>Integrating &amp; Advanced Plant Breeding</li> <li>Nutrition &amp; Health Organization in Europe, etc.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>» <b>Specialized Subjects I</b> <ul style="list-style-type: none"> <li>Internship in Japan</li> <li>Internship in Taiwan II</li> <li>Internship in France</li> </ul> </li> <li>» <b>Specialized Subjects II</b> <ul style="list-style-type: none"> <li>Specialized subjects related to research theme (as necessary)</li> </ul> </li> </ul>	Degree conferment
Learning process	<p>[September]</p> <ul style="list-style-type: none"> <li>General &amp; first semester guidance</li> <li>Submit research plan</li> <li>Select academic advisors (1 main, 2 deputies)</li> <li>Personal academic guidance and consultation</li> </ul> <p>[September – January]</p> <ul style="list-style-type: none"> <li>Classes (15 credits or more)</li> <li>Research guidance</li> </ul> <p>[January]</p> <ul style="list-style-type: none"> <li>Submit special subject research theme proposal</li> </ul>	<p>[February]</p> <ul style="list-style-type: none"> <li>Second semester guidance</li> </ul> <p>[February – June]</p> <ul style="list-style-type: none"> <li>Classes (15 credits or more)</li> <li>Research guidance</li> </ul> <p>[June]</p> <ul style="list-style-type: none"> <li>Submit special subject research plan</li> </ul>	<p>[September]</p> <ul style="list-style-type: none"> <li>Third semester guidance</li> </ul> <p>[September – January]</p> <ul style="list-style-type: none"> <li>Classes (15 credits or more)</li> <li>Research guidance</li> </ul> <p>[January]</p> <ul style="list-style-type: none"> <li>Interim presentation on special subject research</li> </ul>	<p>[February]</p> <ul style="list-style-type: none"> <li>Fourth semester guidance</li> </ul> <p>[February – June]</p> <ul style="list-style-type: none"> <li>Internship</li> <li>Summarize special subject research [June – August]</li> <li>Submit special subject research report</li> <li>Selection of examination system</li> <li>Presentation of special subject research</li> <li>Examination of special subject research report, final examination, graduation judgment</li> </ul>	
Achievement level evaluation					

## Faculty Member List

### University of Bordeaux (UB)

- » Dominique Rolin Professor
- » Thierry Noel Professor
- » Catherine Bennetau Professor
- » Philippe Gallusci Professor
- » Eric Gomes Professor
- » Michael Kann Professor
- » Michel Hernould Professor
- » Gerard Barroso Associate professor
- » Frederic Delmas Associate professor
- » Stephanie Krisa Associate professor
- » Kentaro Mori Associate professor
- » Valerie Schurdi-Levraud Associate professor

- Metabolomics
- Microbiology
- Nutrition
- Plant Molecular Genetics
- Ecophysiology
- Virology
- Plant Physiology
- Mycology
- Plant Physiology
- Oenology
- Plant Physiology
- Plant Breeding

### University of Tsukuba (UT)

- » Yoshito Kumagai Professor
- » Masao Ichikawa Professor
- » Osamu Ohneda Professor
- » Masayuki Matsumoto Professor
- » Kazuya Morikawa Professor
- » Ryosuke Ohniwa Associate Professor
- » Masahiro Akiyama Assitant Professor
- » Yuichi Yamaoka Professor
- » Hiroshi Ezura Professor
- » Yutaka Kitamura Professor
- » Chiaki Matsukura Professor
- » Junichi P. Abe Assistant Professor
- » Yoshihiro Okabe Assistant Professor

- Environmental medical science
- Global health
- Stem cell biology
- Neurophysiology
- Bacterial genetics
- Molecular microbiology / Incubation Studies
- Environmental medical science
- Plant parasitic mycology
- Plant breeding and genetics
- Agro-food processing
- Plant physiology
- Plant parasitic mycology
- Plant molecular breeding

### National Taiwan University (NTU)

- » Tsai-kun LI Professor
- » Hsinyu LEE Professor
- » Chang-Chuan CHAN Professor

- Drug and health food product development
- Signal transduction
- Environmental Epidemiology and Global health

- » Han-Yi CHOU Associate Professor
- » Ming-Ju CHEN Professor

- Stem cell and nanobiotechnology
- Animal-based foodstuff

## » Contact

Office of International Joint-Degree Master's Program in Agro-Biomedical Science in Food and Health

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E-mail: gip\_info@un.tsukuba.ac.jp TEL +81-29-853-3228

Open: Monday~Friday. 8:30~17:15 (Lunch Time: 12:15~13:15)



## About GIP-TRIAD logo mark

We have set the slogan of Global Innovation Joint-Degree Program as a common indicator of three universities in order to establish this department at the same time. GIP-TRIAD indicates the meaning of slogan and the collaboration of Leap to the Future of three universities. Also, the current logo mark was created in accordance with it.