



MASTER

# Agro-Biomedical Science

## Program factsheet

### ACADEMIC COOPERATION

**Consortium of three partner universities:**

- › University of Bordeaux (France)
- › National Taiwan University (Taiwan)
- › University of Tsukuba (Japan)

### ADMISSION REQUIREMENTS

**Candidates must fulfill the following requirements:**

- › Hold a Bachelor's degree with honors, or 4-year / 240 ECTS equivalent in any field,
- › 1 or 2 years of professional experience in the field of international health.

### LEVEL

Joint Master degree.

### PROGRAM DURATION

2 years (120 ECTS).

### LANGUAGE REQUIREMENTS

- › English: certifiable equivalent of TOEFL score of 501/173/61, TOEIC score of 600, or IELTS score of 5.0.

### TUITION FEES

- › Master tuition fees applicable for the University of Bordeaux.

## Program outline

This program trains students to become international professionals with the skills to carry out research and development in order to meet societal needs. Topics covered include the global-scale problems prevalent today in health maintenance and food security. The program tackles this challenge from a perspective that "food is medicine," or in other words, that both medicine and food originate from the same source and both preserve health. Course content also links issues for sustainable agricultural production in a changing environment, the quality of agricultural production, food safety and human health.

Students benefit from the collaboration between three universities and spend at least one semester in each university. The program starts at the University of Tsukuba for the first semester, the National Taiwan University for the second, followed by the University of Bordeaux for the third. For the final semester, students may choose one of the three universities.

In addition to the coursework delivered by each university, students also partake in field studies, corporate internships, laboratory practice and entrepreneurship training, provided by each establishment.

Classes and all other educational activities are taught in English.

## Program structure

Three universities jointly organize the curriculum so that students acquire advanced knowledge and methodologies related to medical and agricultural sciences. They are also equipped with a global outlook that comes from practical training extending across Asia and Europe. The curriculum consists of the following subjects:

- › Foundation subjects,
- › Specialized subjects I,
- › Specialized subjects II.

At the University of Bordeaux, the Agro BioMedical Science International Master provides students with cutting-edge, research-based training in plant science,

biotechnology, health, nutrition, and food production. Teaching covers the latest developments in toxicology, cancer, drug discovery, global health, applied translational microbiology, global food security, animal based food stuff, nutrition, agriculture, crop production, green biotechnology, omics and bioinformatics tools.

Upon completion of the program, students are asked to present a comprehensive report on integrated themes including research results or plans for community / social action related to health and food. This report should be based on the overall learning from the two-year educational program. The presentation and oral examination are conducted in English.

## Strengths

### During their studies, students:

- › Acquire fundamental knowledge and skills regarding food security and health maintenance on a global scale.
- › Acquire knowledge on processes, from identifying problems to implementing solutions, in order to develop effective and innovative measures that overcome current problems regarding food security and health maintenance.
- › Develop skills in order to present and perform as leaders in international activities.
- › Develop their capacity to create and innovate thanks to a mix of interdisciplinary knowledge and advanced practical research.
- › Develop competencies to work for human and social welfare with an international perspective and cross cultural adaptability.

## → And after?

- › Graduates may go on to complete a PhD program, in the fields of plant science, plant biotechnology, global health, applied translational microbiology, global food security, animal based food stuff, nutrition, agriculture, etc.  
Graduates may carry out their PhD in one of the three universities involved in the academic cooperation, or in various Higher Education Institutes around the world.
- › Graduates may apply for positions in companies that specialize in private breeding, as well as those specialized in food and nutrition, the extraction and valorization of plants and natural products, global health, applied translational microbiology, the development of sustainable agriculture practices, quality and safety of food production, etc.

## Contacts

PROGRAM COORDINATORS:

**Dominique Rolin**

dominique.rolin@u-bordeaux.fr

**Kentaro Mori**

kentaro.mori@u-bordeaux.fr

**Valerie Schurdi-Levraud**

valerie.schurdi-levraud@u-bordeaux.fr

[www.master-bio-agro-bordeaux.com](http://www.master-bio-agro-bordeaux.com)

[www.gip.tsukuba.ac.jp/english](http://www.gip.tsukuba.ac.jp/english)

## How to apply?

- › Due to visa processing times, applications for this Master program must be submitted no later than January 8th, 2021. In order to apply, candidates must send a CV and cover letter to the program coordinators.
- › Applicants are assessed based on their application paperwork, a written assignment, group discussion, and interview in accordance with the admission policy.
- › Each university performs an initial selection, which is then reviewed jointly by all three universities.
- › Five candidates per university are admitted.



[www.u-bordeaux.com](http://www.u-bordeaux.com)

 @univbordeaux  univbordeaux  universitedebordeaux

**TOMORROW'S** SUCCESS  
STARTS **TODAY**