



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

**2019**

**The fourth semester report**

**University of Tsukuba**



**國立臺灣大學**  
National Taiwan University

**université**  
de **BORDEAUX**



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# GIP Internship

## 1. Objective

Through participation in an internship, students will improve both their personal ability (such as coordination and implementation) and their awareness of the professional arena. Students will also give due consideration to the relationship between R&D and social needs with regard to issues in Food and Health.

## 2. Implementation overview

The student is assigned to a company or a private research institute outside the University in a cooperation-based internship either in Japan, Taiwan, France or in any other recognized country so he/she can learn about the host country corporate world and work culture, allowing the student to include this experience in writing as a special research subject and/or facilitating future employment. The student can choose from a list of partner bodies including companies, institutes, research organizations and universities or from a partner of his/her choice after validation by relevant committee members. Achievements from the internship are summarized in a report and presented in a report meeting.

### 2.1 Materials of TGSW2018 the 2nd GIP-TRIAD steering committee meeting (2018.9.21)



 筑波大学  
*University of Tsukuba*

## Internship

Career Development Committee  
Chiaki MATSUKURA

 臺灣大學  
*National Taiwan University*

 universit   
de BORDEAUX

# Internship

## 2<sup>nd</sup> Semester

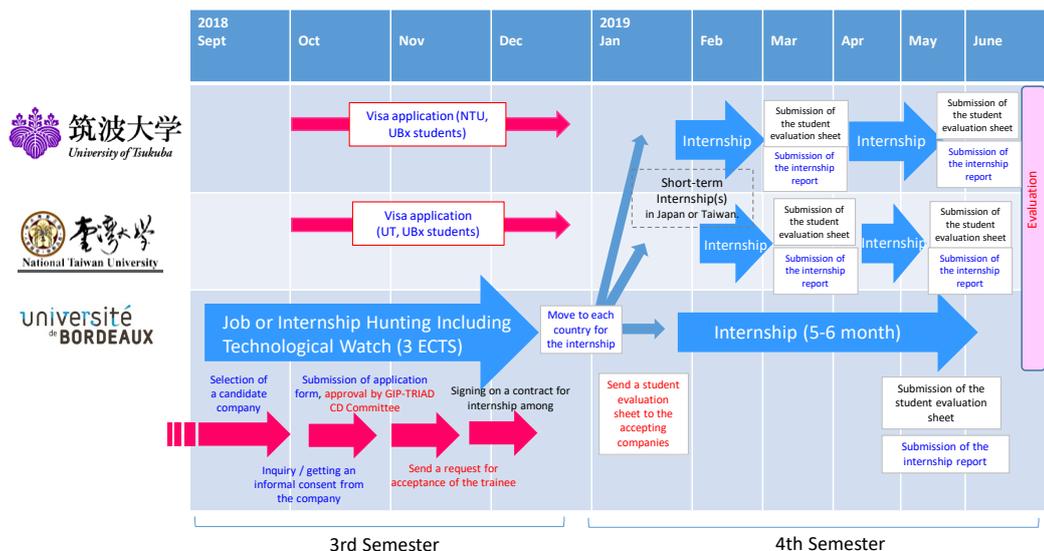
- Internship in Taiwan I (3 credits, 6 ECTS)

## 4th Semester

- Internship in Taiwan II (15 credits, 30 ECTS)
- Internship in Japan (3 credits, 6 ECTS)
- Internship in France (15 credits, 30 ECTS)

- Duration: 2 weeks-6 months
- Location of Internship:
  - (1) Partner companies
  - (2) Other options
    - Companies other than (1),
    - Public institutions,
    - Universities/Research institutes, etc.

## Schedule forward to Internship (Semester 3 – Semester 4)



## Points to be discussed (20<sup>th</sup> Sep.)

### 1. Internship in a country other than the three countries.

- Shall we allow a student to implement internship in a third country ?

UBx: OK

NTU: depending on a country

UT: depending on a company / an institute

### 2. Is it necessary to apply for visa again for a student who is going to implement internship in a country other than her/his home country ?

		France	Taiwan	Japan
 université BORDEAUX	UBx	OK	OK	*
	Visa		Required	Required
 臺灣大學 National Taiwan University	NTU	OK	OK	*
	Visa	**		Required
 筑波大学 University of Tsukuba	UT	OK	OK	OK
	Visa	**	Required	

\* Only long-term internship

\*\* Student visa for the 3<sup>rd</sup> semester will be effective.

### 3. Document format for internship

a. Internship agreement

b. Student evaluation sheet for a company/a research institute

c. Internship report

- Shall we use same format among three universities?

→ We can share a format for (b) and (c) but will use an individual format for (a).

### 4. Evaluation

- will be done by Internship report (by student) / evaluation sheet (by company or research institute)

- Shall we hold student presentation session together (ex. by polycom) ?

→ We will hold student presentation session in each, but should open it to the other universities.

## List of Partner Companies (Tentative)

### Japan

1. Tokyo Food (Food manufacture)
2. SATAKE CORPORATION (Agro-engineering)
3. Mikado Kyowa Seed Co., Ltd. (Seed company)
4. Takii Seed (Seed company)
5. Sakata Seed (Seed company) ※ at Sakata Vegetable Europe (France)
6. Pharma Foods International Co., Ltd. (Healthcare)
7. Saidania & Co. (Food manufacture & retail)
8. Kotobiken Medical Laboratories Inc (Medical examination & Food Safety and Inspection)
9. Siemens Japan K.K. (Healthcare)

### Taiwan

1. Sinphar Group
2. Bioguard Corporation
3. LIWANLI Innovation Co., Ltd. (Formerly named: Carry Technology Co., Ltd.)
4. Aplua Biotec Co., Ltd.
5. Phalanx Biotech Group
6. Winnoz Technology
7. Family Mart (in process)

### France

278 companies for French students  
(Health & Food 230, Agrochemicals 21, Seed 5, Phytochemicals 5, etc. 17)

※ Companies which can accept UT & NTU students

1. Naturex (Food ingredients)
2. BotaniCert (Phytochemicals)
3. MAÏSADOUR (Seed Company)
4. BioLaffort (Oenology)

### Procedure of Internship (Tentative Plan)

1. A student select a candidate company / a research institute accepting a trainee during Semester 3 consulting with the instructors of a host and home universities.
2. The student informs her/his choice to the regional coordinators of the both of the host and home universities.
3. The regional coordinator of the host university contacts to candidate company / research institute, then acquires an informal consent (if required, the regional coordinators set up a video interview for a student and the candidate company / the institute).
4. Students, the accepting company/institute and the host university sign on the internship contract.
5. Regional coordinator of the host university sends a student evaluation sheet to the accepting company/institute.
6. Internship
7. The student submits an internship report with a given format to the regional coordinator of the host universities.
8. The accepting company/institute submits the student evaluation sheet to the regional coordinator of the host universities.
9. The regional coordinators of both of the home and the host universities evaluate the student according to the internship report and the evaluation sheet.
10. The CD committee report the result to the curriculum committee.

## 2.2 Japanese partner company/institution

	List of Companies	Proposed activity/work department	Type of Industry
1	Yamazaki Baking Co.,Ltd	Food production or sales department	Food production
2	TOKYO FOOD CO.,LTD	Technology / Production Department: Simple lectures on chocolate manufacturing technology and compounding technology, chocolate prototyping in the laboratory, daily training at the manufacturing site	Food production
3	SATAKE Group	Technology Department: Testing assistance and analysis, machine assembly assistance Sales department: Facility tour, group work, etc.	Agricultural machines
4	MIKADO KYOWA SEED CO.,LTD ※ Group partner of Vilmorin	Cultivation management, seed selection, support operations in management department etc.	Seedling
5	Sakata Vegetables Europe	Training in the research and development department	Seedling
6	TAKII & CO.,LTD	Field work training	Seedling
7	EcoRice Niigata inc.	Production of Japanese sake, rice brewing (Kaganoi Sake Brewery: 2-3 days a week), production of rice cookie, alpha rice etc.	Food production
8	Showa Sangyo co., Ltd	Training in the research and development department	Food production
9	SIEMENS Japan co.,Ltd		
10	Kotobiken Medical Laboratories inc.		Biological analysis services
11	Pharma Foods International Co., Ltd		Food development
12	Saidania & Company co.,Ltd		Food development

## 2.3 Syllabus

### (1) Internship in Japan

Course	Internship in Japan
Course No.	01ER701
Credits	3 Credits
Grade	2 Year
Timetable	Spring AB by appointment
Instructor	Chiaki Matsukura, Kazuya Morikawa, Ryosuke Ohniwa
Course Overview	Students enrolled in this course participate in internships at corporate sites and/or private research establishments off-site from the university in Japan. Students will study the knowledge/skills toward writing comprehensive report and/or job-hunting as well as the culture of Japanese corporates/institutions. Internship sites are chosen from either selected companies holding written agreements with the university, or other sites selected by the student and approved by the relevant program committee. Following their internships, students compile a report about the experience and make a presentation on it to faculty and their peers.
Remarks	Conducted in English.
Course Type	Practical training and experiments
Link between Course Objectives and Activities	Through participation in internships, students will improve both their personal abilities (for coordination and implementation) and their awareness of the professional arena. Students will also give due consideration to the relationship between R&D and social needs with regard to issues in Food and Health.
Academic Goal	<ol style="list-style-type: none"> <li>1. Students will be able to survey companies and industries for internship, and to participate in corporate internships.</li> <li>2. Students will be able to make a presentation that summarizes their internship experience and what they have learned from it.</li> <li>3. Students will be able to give consideration to issues related to Food and Health and the relationship between R&amp;D and social demands related to those issues.</li> <li>4. Student will be able to utilize the experience of this internship activities for writing comprehensive report.</li> <li>5. Students will be able to find the corporation for job-hunting.</li> </ol>
Course Schedule	<p>Throughout the following process, advice and consultation will be given by the instructors depending on the fields of companies/industries: Chiaki Matsukura for food related, Kazuya Morikawa for health related, and Ryosuke Ohniwa for others. In this course, students can study, from the teachers (instructors, research supervisors and/or mentors), knowledge and techniques which are difficult to be obtained in the internship site. This learning hours from the teachers can be included in the-study hours of this course.</p> <ol style="list-style-type: none"> <li>1. Internship Information Session(s)</li> <li>2. Participation in Internship</li> <li>3. Report Submission and Report Presentation</li> </ol>
Course Prerequisites and Advisories	Together with the instructor, contact to companies/industries for internship.
Grading Philosophy (Percentage/ Criteria/ Methodology)	Students are evaluated by their report (50%) and the contents of their report presentation and Q&A (50%). A passing grade (“C” or greater) requires that students meet academic goal in this syllabus. Grading Criteria is A+ (Superior), A (Excellent), B (Good), C (Average) and D (Failure).

Self-Directed Learning Other Than Coursework	Address G-career part in GLidD
Textbooks, References and Supplementary Materials	To be announced
Office Hours	Name: Chiaki Matsukura E-mail: matsukura.chiaki.fw@u.tsukuba.ac.jp Name: Kazuya Morikawa E-mail: morikawa.kazuya.ga@u.tsukuba.ac.jp Name: Ryosuke Ohniwa E-mail: ohniwa@md.tsukuba.ac.jp By appointment only
Other (i.e. Expectations on Classroom, Conduct and Decorum etc.)	
Related Courses	Internship in Taiwan I Internship in Taiwan II Job or Internship Hunting Including Technological Watch Internship in France
Keywords	Internship, Corporation

## (2) Internship in Taiwan I

Course	Internship in Taiwan I
Course No.	01ER405
Credits	3 Credits
Grade	1 Year
Timetable	Spring by appointment
Instructor	Hsinyu Lee
Course Overview	Students enrolled in this course participate in internships at corporate sites and/or private research establishments to study corporate culture in Taiwan. Internship sites are chosen from either selected companies holding written agreements with the university, or other sites selected by the student and approved by the relevant program committee. Following their internships, students compile a report about the experience and make a presentation on it to faculty and their peers.
Remarks	Conducted in English. For students of International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health
Course Type	Practical training and experiments
Link between Course Objectives and Activities	Through participation in internships, students will improve both their personal abilities (for coordination and implementation) and their awareness of the professional arena. Students will also give due consideration to the relationship between R & D and social needs with regard to issues in Food and Health.
Academic Goal	<ol style="list-style-type: none"> <li>1. Students will be able to survey companies and industries for internship, and to participate corporate internships.</li> <li>2. Students will be able to make a presentation that summarizes their internship experience and what they have learned from it.</li> <li>3. Students will be able to give consideration to issues related to Food and Health and the relationship between R &amp; D and social demands related to those issues.</li> <li>4. Students will be able to consider their own personality and preferences in relation to their internship experience, and connect it to their career pathway formation accordingly.</li> </ol>
Course Schedule	<ol style="list-style-type: none"> <li>1. Internship Information Session(s)</li> <li>2. Participation in Internship</li> <li>3. Report Submission and Report Presentation</li> </ol>
Course Prerequisites and Advisories	Together with the instructor, contact to companies/industries for internship.
Grading Philosophy (Percentage/ Criteria/ Methodology)	Students are evaluated by their report (50%) and the contents of their report presentation and Q&A (50%). Grading Criteria is A+, A, A-, B+, B, B-, and C+/C/C- (Failure).
Self-Directed Learning Other Than Coursework	Address G-career part in GLidD.
Textbooks, References and Supplementary Materials	To be announced
Office Hours	Name: Hsinyu Lee E-mail: hsinyu@ntu.edu.tw By appointment only

Other (i.e. Expectations on Classroom, Conduct and Decorum etc.)	
Related Courses	Job or Internship Hunting Including Technological Watch Internship in Japan Internship in Taiwan II Internship in France
Keywords	Internship, Corporation

### (3) Internship in TaiwanII

Course	Internship in TaiwanII
Course No.	01ER901
Credits	15 Credits
Grade	2 Year
Timetable	Spring by appointment
Instructor	Hsinyu Lee
Course Overview	Students enrolled in this course participate in internships at corporate sites and/or research institution off-site from the university in Taiwan. In this course, compared with Taiwan Internship III, students can study longer period in the corporate sties and/or research institution. Students will study the knowledge/skills toward writing comprehensive report and/or job-hunting as well as the culture of Taiwanese corporates/institutions. Students need to have daily discussion with the instructor, research supervisors, and/or mentors to accomplish comprehensive report writing and job-hunting. Following their internships, students compile a report about the experience and make a presentation on it to faculty and their peers.
Remarks	Conducted in English. For students of International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health
Course Type	Practical training and experiments
Link between Course Objectives and Activities	Through participation in internships, students will be able to write comprehensive report and/or job-hunting.
Academic Goal	<ol style="list-style-type: none"> <li>1. Students will be able to survey companies and industries for internship, and to participate corporate internships.</li> <li>2. Students will be able to make a presentation that summarizes their internship experience and what they have learned from it.</li> <li>3. Students will be able to give consideration to issues related to Food and Health in Europe and understand those relationship with overseas including Asian countries. Further the students will understand the relationship between R &amp; D and social demands related to those issues.</li> <li>4. Student will be able to utilize the experience of this internship activities for writing comprehensive report.</li> <li>5. Students will be able to find the corporation for job-hunting.</li> </ol>
Course Schedule	<p>Before starting this internship, students need to discuss with teachers (instructor, research supervisor, and/or mentors) about how to link this internship activity to comprehensive report and/or job-hunting. In this course, students can study, from the teachers, knowledge and techniques which are difficult to be obtained in the internship site. This learning hours from the teachers can be included in the 540-study hours of this course.</p> <ol style="list-style-type: none"> <li>1. Internship Information Session(s)</li> <li>2. Participation in Internship</li> <li>3. Report Submission and Report Presentation</li> </ol>
Course Prerequisites and Advisories	Together with the instructor, contact to companies/industries for internship.
Grading Philosophy (Percentage/ Criteria/ Methodology)	Students are evaluated by their report (50%) and the contents of their report presentation and Q&A (50%). Grading Criteria is A+, A, A-, B+, B, B-, and C+/C/C- (Failure).

Self-Directed Learning Other Than Coursework	Address G-career part in GLidD.
Textbooks, References and Supplementary Materials	To be announced
Office Hours	Name: Hsinyu Lee E-mail: hsinyu@ntu.edu.tw By appointment only
Other (i.e. Expectations on Classroom, Conduct and Decorum etc.)	
Related Courses	Internship in Taiwan I Job or Internship Hunting Including Technological Watch Internship in Japan Internship in France
Keywords	Internship, Corporation

#### (4) Internship in France

Course	Internship in France
Course No.	01ER801
Credits	15 credits
Grade	2 <sup>nd</sup> year
Timetable	Spring AB
Instructor	Prof. Dominique Rolin, Prof. Michel Hernould, Associate Prof. Claudine Trossat, Associate Prof. Valérie Schurdi-Levraud
Course Overview	Students take this course by participating in at least a 5-month (700 h) internship at a company, a public or a private institute in France or overseas. Students will study the knowledge/skills toward writing comprehensive report and/or job-hunting as well as the culture of French corporates/institutions. Internship locations are chosen from either selected company who exchanged written agreements with University of Bordeaux, or other locations selected by the student and approved by the relevant program committee. Following their internships, students compile a report about the experience and make a presentation on it to faculty and their peers.
Remarks	Conducted in English at University of Bordeaux. For students of International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health.
Course Type	Practical training and experiments
Link between Course Objectives and Activities	An internship allows students to apply their theoretical knowledge to practical work situations and trains them to develop their competencies in a professional environment. Internships allow students to network in the professional fields of their chosen careers, offer opportunities for personal and professional development, and give employers the opportunity to guide and evaluate talent.
Academic Goal	<ol style="list-style-type: none"> <li>1. Students will be able to survey companies and industries in France or overseas for internship, and to participate in corporate internships.</li> <li>2. Students will be able to make a presentation that summarizes their internship experience and what they have learned from it.</li> <li>3. Students will be able to give consideration to issues related to Food and Health in Europe and understand those relationship with overseas including Asian countries. Further the students will understand the relationship between R &amp; D and social demands related to those issues.</li> <li>4. Student will be able to utilize the experience of this internship activities for writing comprehensive report.</li> <li>5. Students will be able to find the corporation for job-hunting.</li> </ol>

Course Schedule	<p>Before starting this internship, students need to discuss with teachers (instructor, research supervisor, and/or mentors) about how to link this internship activity to comprehensive report and/or job-hunting. In this course, students can study, from teachers (instructors, research supervisors and/or mentors) knowledge and techniques which are difficult to be obtained in the internship site. This learning hours from the teachers can be included in the 700 study hours of this course.</p> <ol style="list-style-type: none"> <li>1. Internship Information Session(s)</li> <li>2. Participation in Internship</li> <li>3. Report Submission and Report Presentation</li> </ol>
Course Prerequisites and Advisories	<p>To register in this course, students have to take “Job or Internship Hunting Including Technological Watch” during the 3rd semester. Students should firstly consult with the instructors in charge of the internship before a contact to companies/industries for internship.</p>
Grading Philosophy (Percentage/ Criteria/ Methodology)	<p>Students are evaluated by their report (50%) and the contents of their report presentation and Q&amp;A (50%).</p>

## **2.4 Procedure of implementation of the internship in Japanese companies**

- (1) During the third semester (at Bordeaux University), each student decides on a host company/institute for an internship and obtain approval from the host body (as a part of activity of the career path seminar)
- (2) Each student informs both his/her affiliated university and the teacher in charge at the career support division of the University of Tsukuba about his/her acceptance and obtains approval from both parties (In the case of a student affiliated with the University of Tsukuba, only the approval from the International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health steering committee is necessary).
- (3) Before engaging in the internship, a memorandum (appendix 1) is exchanged between the host company/institution and the University of Tsukuba. In addition, the student submits a written pledge to the GIP office.
- (4) The internship is carried out at the host company/institution.
- (5) Shortly after completion of the internship, the student produces a report and submit it to the teacher in charge at the career support division who then sends the internship evaluation form (appendix 2) to the host company/institution and request an evaluation.
- (6) A report meeting is held during the fourth semester in which each student makes a presentation.
- (7) A comprehensive evaluation is produced based on the internship report, the evaluation from the host body and the content of the student's presentation.

## 2.5 Accepted Company and Organization of Japanese Internship

No.	List of Company and Organization	List of course name
1	NGO • PLAS / Positive Living through AIDS orphan Support	Internship in Japan
2	Pharma Foods International Co., Ltd.	Internship in Japan
3	Tsukuba City Hall, Division of Agricultural Policy	Internship in Japan
4	National Institute for Environmental Studies	Internship in Japan
5	French National Institute for Agricultural Research (INRA)	Internship in France
6	IOWA STATE UNIVERSITY	Internship in France
7	NESTLE RESEARCH & DEVELOPMENT CENTER	Internship in France
8	University of French Polynesia	Internship in France
9	InfiArk Technology	Internship in TaiwanII
10	Taiwan Women's Link	Internship in TaiwanII
11	YongLin Healthcare Foundation- X lab	Internship in TaiwanII
12	Our City Love	Internship in TaiwanII
13	Acepodia Taiwan	Internship in TaiwanII

### 3. Internship Report (Internship in Japan)

#### No. 1

International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health (GIP-TRAID), The Graduate School of Comprehensive Human Sciences, University of Tsukuba

#### Internship Report

No.	1	Name	
Company/Institution name	NGO・PLAS / Positive Living through AIDS orphan Support		
Practical training period	January 21, 2019 - April 26, 2019		

\*Each description frame can be changed as appropriate.

#### 1. Reasons for choosing the company as a place of internship

Since I would like to engage in international cooperation in the future, first of all, through the NGO internship program, I wanted to learn the internal operations of NGO such as specific business activities, publicity and events in Japan, and response to supporters.  
I believe that the support projects should be the sustainable service for assisting local people with independently performing daily activities.  
PLAS values "supports to be collaboratively created" and performs its activities, therefore I feel that its philosophy suits my philosophy.

#### 2. Implementation details of the internship program

Date	Practical training	Specifics of the implementation
- February 23	Preparation for events for supporters	Preparation of the materials that introduce the business activities in Africa and the voices of the beneficiaries for the events for the supporters of the organization In addition, preparation of required documents for the events, etc.
- March 13	Special classes for junior high school students	Creation and execution of a game of sugoroku that represents AIDS orphans' lives in order to provide junior high school students with the experience of the current situation of AIDS orphans in a way they can easily understand
- April 5	Totalization of questionnaires for special classes	Totalization of questionnaires concerning students' thoughts about the classes to find improvements for an upcoming lecture
- April 26	Preparation for charity marathon	Preparation of organization explanatory materials for marathon participants Planning for workshops for participants (kraft made of the materials from Africa)
April	Processing of the documents on the overseas projects	Organization of receipts Totalization of the on-site questionnaires

\*Specifically describe the content of the program by task (not necessary to include the items regarding intellectual property rights).

### 3. What you got from the internship program

I feel that my material preparation and presentation skills cultivated in the university and the graduate school have been further improved overall. Since the people with whom I communicated were from a variety of age groups of adults and children and interest levels of strong and small interests in PLAS, it was required to “choose the best materials from those with different key points depending on targets“ and to provide “appropriate display contents and layout.“ I think that I have become able to respond on a case-by-case basis.

Events for supporters: The events for supporters are for the people who are quite familiar with PLAS’s activities, therefore the details of the activities (information of local partners, the number of beneficiaries, etc.) were incorporated into the materials. As a result, I could learn about the activity status in Africa (financing, way to approach to problems and cooperation with local partners) in details.

Special classes: I devised the game rules so that junior high school students can experience the current situation of AIDS orphans and feel their mortification and frustration. I could have an experience of having given a presentation of my project in front of a large group of people and having conducted it. Needless to say, some parts didn’t go smoothly, therefore if I can have such opportunities in the future, I would like to make improvements and challenge.

Totalization of questionnaires: I could learn about a series of processes of receiving feedback from the targets after something is done and totalizing to find improvements for the future.

Charity events: Many people have no knowledge about PLAS, therefore I prepared such materials that even the people who have no interest in PLAS stop and view, and that PLAS’s philosophy and an overview of the activities can be conveyed with pictures and photographs in a visually understandable state. I learned a method that can convey in an easy-to-understand way for the general public by emphasizing the information I would like to tell the most, not clarifying all information for the people such as research presentation.

Processing of the documents on the overseas projects: I could learn how to evaluate overseas projects. I knew that they have been evaluated multilaterally. For example, not only results in improving incomes but also changes in family relationships, changes in the environment, confidence in oneself, and knowledge acquisition levels through the projects have been evaluated.

\*Describe for each item described in 2.

### 4. Comments (How did you feel after the internship program? Describe your impression, etc. freely.)

It was the work environment that I can aggressively challenge what I wanted to do and grow.  
It is good that I could make full use of my material preparation and presentation skills cultivated in the university.  
I am very pleased that the game of sugoroku that represents AIDS orphans’ lives got a good evaluation.

\*This report will be fed back to the company that accepted you as an intern.

\*Please submit this report immediately after completion of the internship program.

**No. 2**

International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health (GIP-TRAID), The Graduate School of Comprehensive Human Sciences, University of Tsukuba

**Internship Report**

No.	2	Name	
Company/Institution name	Pharma Foods International Co., Ltd.		
Practical training period	February 4, 2019 - March 1, 2019		

\*Each description frame can be changed as appropriate.

**1. Reasons for choosing the company as a place of internship**

I have an interest in a health-related theme, especially lifestyle-related disease and healthy life expectancy, and therefore functional foods that have major implications for health. I applied for the internship program at Pharma Foods International Co., Ltd. because I felt that a contribution to "health and longevity" through the blending of "Pharmaceuticals" and "Foods" that Pharma Foods has taken as its corporate philosophy and the development of safe and secure bio materials that can be obtained from ordinary foods to realize the biotechnology good for health is very close to my interest.

**2. Implementation details of the internship program**

Date	Practical training	Specifics of the implementation
February 4 - February 21	Animal study	Assessments of the serum folate levels when folic acid is taken from eggs in rats and when it is taken from the supplement were conducted to examine the benefits of taking folic acid from eggs.
February 4 - 28	Preparation of promotional materials	Promotional materials on folic acid and folic acid eggs for general consumers were prepared.

\*Specifically describe the content of the program by task (not necessary to include the items regarding intellectual property rights).

### 3. What you got from the internship program

#### 1. Animal study

The nutrition survey conducted in 2002 showed that when monoglutamic acid-type folic acid and 5-methyl tetrahydro folic acid are taken from the supplement, 5-methyl tetrahydro folic acid is more beneficial in absorption and metabolic utilization. The reason for this result may be that it is related to the form in which folic acid is absorbed. Folic acid is converted by an enzyme in the small intestinal cells after absorption from the jejunum and migrated in blood in the form of 5-methyl tetrahydro folic acid. Therefore, when 5-methyl tetrahydro folic acid is taken, it is not necessary to make the conversion because it has the same form as that of the folic acid in the body. Compared to the folic acid of monoglutamic acid-type in the supplement used in this study, the folic acid in a folic acid egg is 5-methyl tetrahydro folic acid-type. Even when 5-methyl tetrahydro folic acid is taken from egg-yolk, not from the supplement, this study was conducted to verify whether it is beneficial in absorption and metabolic utilization.

In the study, 12 male Slc:SD rats were used. 6-week old rats after 5 days of acclimatization and 1 day of starvation were used in the study. They were divided into 3 groups of 4 rats, treated with either a single dose of water, synthetic folic acid or folic acid-containing egg-yolk using oral Zonde needles. Blood collection was performed from the tail veins 0, 0.5, 1, 3, and 6 hour(s) after the dose to measure the serum folate levels by using an ELISA. In this study, no significant difference was seen. The reason for this result may be that the number of the rats used was small, and the dose of folic acid-containing egg-yolk was small.

An enzyme called MTHFR (methylene tetrahydrofolate reductase) is involved to make folic acid absorbable 5-methyl tetrahydro folic acid, however it has been reported that Japanese people have a high percentage of a mutation in the gene that determines the levels of this enzyme. The number of the rats used in the study was increased to review the dose of folic acid-containing egg-yolk and repeat the study. It is considered that if the same result as that in the previous study is obtained even when folic acid eggs are used, folic acid eggs may be a useful ingredient that even individuals with a mutation in the gene can readily take folic acid.

#### 2. Preparation of promotional materials

Promotional materials on folic acid and Pharma Foods' "folic acid eggs" for general consumers were prepared. Folic acid is an especially important nutrient for pregnant women, therefore deficiencies in folic acid may increase the risk of fetal spina bifida. In response to this, efforts to strengthen folic acid intake are widespread all over the world, however specific efforts have not been undertaken in Japan. In fact, incidence of spina bifida in Japan is increasing year by year. The need for folic acid in this period of pregnancy is 400 µg per day, however the pregnant women who take more than the need for are relatively small 29%.

For this reason, as an ingredient capable of readily taking folic acid in Japan, "folic acid eggs" may be proposed. Compared to the folic acid present in a general egg of 25 µg, the folic acid in a folic acid egg is 70 µg, approximately 3 times as much as that in a general egg. It is said that an amount of folic acid capable of taking from the normal diet is 270 µg, therefore the need for folic acid, 400 µg, can be taken only by taking 2 folic acid eggs in a daily life. There are 2 benefits of taking folic acid from folic acid eggs. The first is a structure of the folic acid in folic acid eggs. Folic acid exists in a variety of forms, however the folic acid in folic acid eggs has the same form as that of folic acid in the body, therefore absorption and utilization are possible without conversion. The second is the small loss caused by cooking. About 50% of the folic acid is lost when spinach, etc. are boiled, however about 80% of the folic acid in folic acid eggs is retained even after cooking with heat. Therefore, folic acid can be taken efficiently by different cooking methods.

The contents above were summarized in promotional materials. Through the preparation of the materials, it was very helpful that I could learn about folic acid as well as means of expression.

\*Describe for each item described in 2.

4. Comments (How did you feel after the internship program? Describe your impression, etc. freely.)

In the internship program at Pharma Foods, I had various valuable experiences such as participation of meetings, help of human studies as an assistant, and implementation of test of taste in addition to implementation of animal studies and preparation of promotional materials. Uncertainty existed at first since I took part in a corporate internship program for the first time, however thanks to careful guidance and support of many people including the personnel in the development department, I was able to spend a satisfying month. I could taste of the atmosphere of the company and image myself working in the company through the internship program, and learned a lot. I would like to fully utilize the experiences in this internship program for my paths for the future.

\*This report will be fed back to the company that accepted you as an intern.

\*Please submit this report immediately after completion of the internship program.

### No. 3

## International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health (GIP-TRAID), The Graduate School of Comprehensive Human Sciences, University of Tsukuba

### Internship Report

No.	3	Name	
Company/Institution name	Division of Agricultural Policy, Tsukuba City Hall		
Practical training period	February 1, 2019 - April 26, 2019		

\*Each description frame can be changed as appropriate.

#### 1. Reasons for choosing the company as a place of internship

There are two reasons. Firstly, I was interested in the promotion of wine industry that Agriculture and Policy Division, Tsukuba City Hall has been promoting, about which I heard when I had dinner with mayor and employees in Bordeaux. Since I had wanted to apply for more like a marketing position than a technical position such as research position in an internship program for a long time, and the business content of my choice overlapped with personal interests, I decided to apply for the internship program. Secondary, the internship implementation period and great care and attention that the company providing the internship program pays. I applied for the internship program since I wanted to take part in the long-term internship program for more than 2 months, and the company had consideration for a change in my schedule due to job hunting, etc.

#### 2. Implementation details of the internship program

Date	Practical training	Specifics of the implementation
First half of February	Planning and operation support of the Tsukuba wine workshop conducted in February 10	Planning and implementation of setting up the event location, etc. Arrangements on the panel discussion that other producers and invited lecturers provide.
First half of March	Preparation of Tsukuba wine PR materials	The Tsukuba wine PR materials (leaflets and 6 panels) that were published on March 16 and 17 were prepared in cooperation with the producers, the printing company, etc.
Later half of February - April	Drafting of the wine special district promotion project and preparation of other materials	A draft of the wine special district promotion project published in or after 2019 and other materials were created. Presentations of the project were given in the division and the department, and to the deputy mayor to receive feedback.
Later half of April	Creation of the city hall HP	Pages for promoting Tsukuba wines were created on the city hall HP.

\*Specifically describe the content of the program by task (not necessary to include the items regarding

intellectual property rights).

### 3. What you got from the internship program

#### **Tsukuba wine workshop**

In the workshop event for the Tsukuba wine and fruit wine special district approval ceremony conducted on February 10, I helped for planning and operation including setting up the event location and creating panel discussion themes.

In this event, the Chair of the Board of Directors of the National Research Institute of Brewing, Katsunuma Winery Manager of Mercian Corporation, and 3 experts invited from Bordeaux Sciences Agro in France gave presentations and spoke on the potential of the Japan wine industry and Tsukuba wines in the first section. In addition, in the second section, in addition to a panel discussion with the inclusion of Tsukuba wine producers, a question-and-answer session was offered an opportunity for attendees to exchange opinions on the future of Tsukuba wines.

In the social gathering after the event, they were presented with the wines with the grape grown in Tsukuba, Mr. Gilliam who came to Japan from Bordeaux commented on the product quality.

#### **Preparation of Tsukuba wine PR materials**

The materials for the Tsukuba wine PR event on March 16 and 17 were prepared for the purpose of making more Tsukuba citizens more familiar with the Tsukuba wine industry. The prepared materials include: (1) leaflets for the information of Tsukuba brewing grape producers and how to enjoy wines, (2) large panels (6 panels in total) with the information on Tsukuba wine special districts, a variety of grape grown in Tsukuba, etc.

In order to prepare them, I always kept in mind to (1) with the visitors in mind, examine the information they were looking for and describe the content for which there is a demand, (2) include many information on the producers so that the visitors can become acquainted with them, (3) make designs that they might want to pick up, and (4) sort out reliable information, in keeping with the very nature of publications by a government agency. Although I was the youngest of the persons concerned and an intern, discretionary powers were granted to me to a certain extent. I feel that I could develop (1) attitudes that try to integrate senders' request and recipients' demand in a balanced manner when a job for disseminating information is taken over and acquire (2) an ability for adjustment for consensus-building in the persons concerned with quite different points of view.

#### **Drafting of the wine special district promotion project**

Against a background of the approval of Tsukuba wine and fruit wine special districts and the increase in brewing grape producers in Tsukuba City, I formulated the Tsukuba wine special district promotion project, 10-year plan. On this basis, I created a draft containing measures to be implemented and organizational structure to be established in the future and made reports. I received feedback after each presentation given in the division and the department, and on April 25, gave a presentation to the deputy mayor.

#### **Creation of the city hall HP and preparation of other materials**

I created the pages for (1) Tsukuba wine and fruit wine special districts and (2) the producers who want to enter into the Tsukuba wine industry, on the Tsukuba City Hall HP. To clarify the consultation service for new farmers, especially new producers who want to enter into the industry, I created a "consultation sheet for new farmer" and summarized a list of contacts for issues concerning wine production. They will be published in the future. As a result, it will be said that the attitudes that the city is promoting the industry are further expressed.

\*Describe for each item described in 2.

4. Comments (How did you feel after the internship program? Describe your impression, etc. freely.)

I feel that it was a very valuable opportunity to learn. This medium- to long-term program for 3 months provided me time to build a relationship in the company that provided the internship program. As a result, such situations that disrupt the job flow due to hesitation became less. I feel that I could spend substantial time for my job and produce higher-quality results than those that will be achieved in a short-term program. In addition, since I could take part in the internship program at the organization, government agency with which I have little involvement in the course of day-to-day activities, I could have experience of determining the distinction between private and government organizations. I feel that it was a valuable experience that I could build a relationship with the people around me who were all older than I was, which was the aspect I cultivated other than the job. In addition, I felt that beneficial impacts through collaboration with University of Tsukuba collaborating with the city and Bordeaux collaborating with university are large for promoting the development of the Tsukuba wine industry. I hope that in the future, by establishing a stronger relationship, the city and the producers in the city can receive better techniques and advices, and Tsukuba wines become the representative regional industry.

\*This report will be fed back to the company that accepted you as an intern.

\*Please submit this report immediately after completion of the internship program.

**No. 4**

International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health (GIP-TRAID), The Graduate School of Comprehensive Human Sciences, University of Tsukuba

**Internship Report**

No.	4	Name	
Company/Institution name	National Institute of Environmental studys		
Period of Internship	2019/03/01-2019/03/31		

\*Each description frame can be changed as appropriate.

1. Reasons for choosing the company as a place of internship

<ul style="list-style-type: none"> <li>Research topic- Comparison of neonicotinoids in tea leaves from Taiwan and Japan</li> </ul> <p>To understand the LC/MS/MS techniques and sending the tea samples to Japan to analysis the data. The National Institute for Environmental Studies (NIES) provides the excellent scientific knowl environmental conservation through research and surveys on global environmental conservation, poll and nature protection, as well as other environmental issues, therefore NIES would be the best institut international research study.</p>
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2. Implementation details of the internship program

Date	Practical training	Specifics of the implementation
3/1-3/7	<ul style="list-style-type: none"> <li>Literature review</li> <li>LC-MS/MS demonstration</li> </ul>	<ul style="list-style-type: none"> <li>TW tea background information organized, photo file list</li> <li>reconfirm the tea sample and inf. of tea factory</li> <li>tea background data (for supplement index preparation)</li> <li>codex and EU regulation updated, and also France regulation</li> <li>reference writing and Nakayasu san demonstrate the LC-MS/MS machine</li> </ul>
3/11-3/14	<ul style="list-style-type: none"> <li>report draft writing</li> <li>Literature review</li> </ul>	<ul style="list-style-type: none"> <li>Revise the figures and tables, references organized</li> <li>regulations writing</li> <li>revise the introduction</li> <li>neonicotinoids journal in Taiwan</li> </ul>
3/18-3/20	<ul style="list-style-type: none"> <li>Background research</li> </ul>	<ul style="list-style-type: none"> <li>purchase method in Taiwan and Japan, the residue in black tea research</li> <li>farmers association in Japan and Taiwan</li> <li>the residue in Black tea</li> </ul>

3/22-3/27	<ul style="list-style-type: none"> <li>• lab work</li> <li>• observation</li> <li>• report writing</li> </ul>	<ul style="list-style-type: none"> <li>• IGG meeting minutes searching</li> <li>• shadowing transfer tech (2 days)</li> <li>• brew factor reading</li> <li>• internship report writing</li> </ul>
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\*Specifically describe the content of the program by task (not necessary to include the items regarding intellectual property rights)

### 3. What you got from the internship program

<p>➤ <b>Knowledge gaining:</b>  Liquid chromatography linked to tandem mass spectrometry (LC-MS/MS) has played an essential role in pharmacokinetics and metabolism studies at various drug development stages since its introduction to the pharmaceutical industry. Through this internship that I have an opportunity to observe the techniques to detect the neonicotinoids in tea leaves. A sophisticated technique of operating LC-MS/MS takes a long time to perform; although I am not able to operate alone, the concepts learning is essential of a comprehensive report. Neonicotinoids have been used since the 1980s, extensive studies of neurotoxicity and environment pollution have been discussed in these years, especially EU banned clothianidin, imidacloprid, and thiamethoxam since 27th of April 2018, which shows the pollution is thoughtfully considered and affect the regulation.</p> <p>Unfortunately, we have a little knowledge about the relationship between tea leaves and neonicotinoids, since Japan and Taiwan are also the tea producer countries and tea lovers. Tea is hard to separate in Asia life style. Luckily, we have a chance by using techniques of NIES, cooperation with technicians from Hokkaido University to compare the results among Japan, and Taiwan.</p> <p>➤ <b>Working environment:</b>  Group working is the fundamental skills of career; the twice a month group meeting helps employees to understand each other's work and supervisor everyone's progress. The working attitude is encouraging me to study and work hard. The cross-national working environment helps international student fit the research institute faster, which also create a pleasant working atmosphere.</p> <p>➤ <b>Friendship building:</b>  I have met the best researchers, and through this opportunity to build the friendship, this would help me to understand the importance of working relationships. I have more confidence to adopt a different environment.</p>
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\*Describe for each item described in 2.

4. Comments (How did you feel after the internship program? Describe your impression, etc. freely.)

This is a beautiful experience of internship in Japan, not only for the research studying, but also gain much cultural experience in the Japanese research center. It is my honor to work with all researchers from Japan, Taiwan, and other countries. The working attitude of NIES is impressive; I thank all the colleagues of their profession and commitment. The environment of NIES is comfortable, a reasonable distance from the University Tsukuba. Moreover, University Tsukuba builds excellent communication between the organization and internship project, as well as provide excellent accommodation to welcome students; this reduces the troubles of international students living in Japan.

I am appreciated GIP-TRIAD program, program managers, all professors, all workers, and colleagues in NIES to assist me to achieve this proposal.

\*This report will be fed back to the company that accepted you as an intern.

\*Please submit this report immediately after completion of the internship program.

## 4. Internship report Seminar (Internship in Japan)

Date : May 15<sup>th</sup> ,2019

Venue : 4E617,Medical Area, University of Tsukuba

### 4.1 Materials of Internship Presentation

#### No.1



## Contents

- My purpose of Internship
- Introduction of PLAS  
AIDS orphans, Projects in Africa...
- My work as intern  
Party for supporter, lecture at junior high school, charity event, overseas projects

## My purpose of internship

To learn project model of PLAS,  
promotion in Japan and how to raise a  
financial support for the projects



We support AIDS orphans and their  
families in Kenya and Uganda

## Who are AIDS orphans?

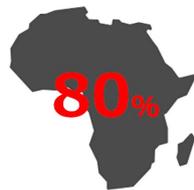
Children aged under 18 who have lost either one or both of their parents due to AIDS

\*They are not necessarily HIV positive.

In the world...



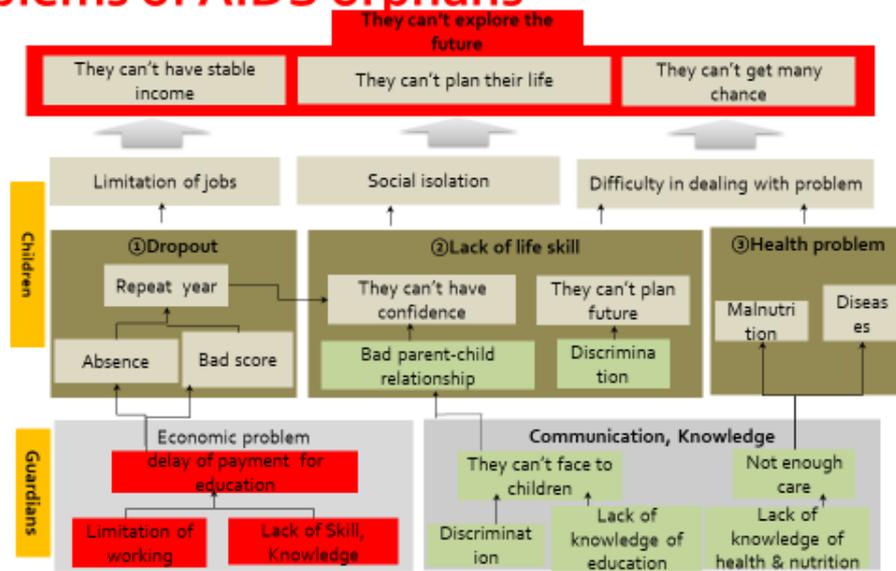
In sub-Saharan Africa...



UNAIDS(2017)



## Problems of AIDS orphans



## PLAS supports

Not giving but creating  
⇒ Sustainable support



**AIDS orphans can explore their future**

Livelihood improvement support

Life planning support

Example of support for livelihood improvement

## Café project

- ★ Start group business with PLAS
- ★ Aim to generate income by themselves



Partner organization  
in Uganda

- Initial investment



- Training of management,  
cooking and hygiene



Single mothers

- ★ Children can go to school.
- ★ Mothers can have confidence through their job.

## Life planning support through counseling



Children

Set a future goal and plan how to achieve it with a counselor



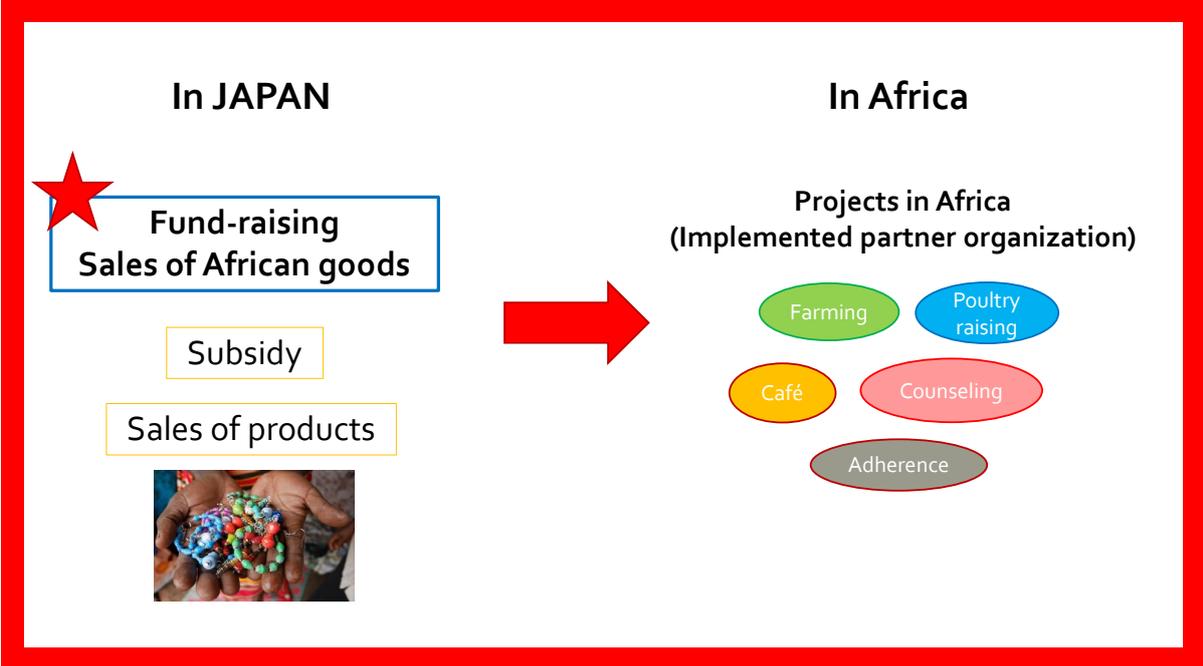
Guardians

Acquire children's development and benefit of saving money in training



★Facilitate children and strengthen the skill to explore their future by themselves

My work



# 1. Party for supporters

We hold thanks party for our supporters once a year.

My duties

- ① Products selling (charity shop)
- ② Exhibition



- ◆ Aim
  - ① to use its sales for projects in Africa
  - ② to explain the summary of each project, detail of partner organization
- ◆ Achievement
  - ① ¥13,500 sales on the day
  - ② Supporters visually understood what kind of activities PLAS implements

## 2. Lecture at junior high school

We had an extracurricular class for junior high school students.  
I created board game about AIDS orphans.

- ◆ Aim  
to make students to consider AIDS orphan's feeling of mortification and impatience
- ◆ Achievement  
Students enjoyed this activity and learned how the AIDS orphans lives are seriously tough.



## 3. Charity event -PARACUP

### PARACUP

- Charity marathon
- Participation fee will be donated to NGOs



#### My duties

##### ★Exhibition

Aim to disseminate PLAS's activity and vision to participants who haven't known PLAS using pictures and figures

##### ★Workshop

## 4. Projects in Africa

- Filing related to projects in Africa
- Questionnaire totalization for project evaluation

### ◆ Achievement

Methodology for evaluating the project outcomes  
(improvement of income, family relationship, confidence, knowledge etc...)

## Summary

### ◆ My duties

Promotion, Assistant of projects in Africa, events to spread PLAS's activity

### ◆ Achievement

I learned how to gain supports and donation and manage projects.

In future...

### ◆ I'd like to improve board game.

◆ I'd like to know how to create projects and how to cooperate with government or JICA.

# INTERNSHIP



- Official name: Pharma Foods International Co., Ltd.
- Address: 1-49 Goryo-Ohara, Nishikyo-ku, Kyoto 615-8245
- Establishment: 12<sup>th</sup> September 1997
- Business: Functional Ingredients, B to C, Pharmaceuticals



## Overview of Internship

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- 2019/2/4~2019/3/1
- Research & Development department
- Mission
  - ①Evaluation of serum folic acid concentration in rat
  - ②Making promotional material about folic acid-containing egg

## ①Evaluation of serum folic acid concentration in rat

# 1. Background

2. Purpose

3. Method

4. Result

5. Discussion

5

## 2. Background Folic acid-containing egg

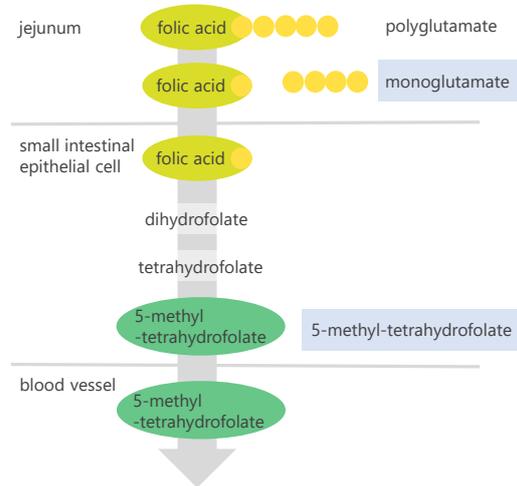
- contains 3 times higher amount of folic acid than normal egg
- contains 75 µg of folic acid per one egg
- keep over 80% of folic acid after heating



6

## 2. Background 5-methyl-tetrahydrofolate

- Folic acid contained in folic acid supplement is monoglutamate
- Folic acid contained in folic acid-containing egg is 5-methyl-tetrahydrofolate



7

1. Background

2. Purpose

3. Method

4. Result

5. Discussion

8

## 2.Purpose Purpose of this experiment

---

- Compare serum folic acid concentration from egg and serum folic acid concentration from folic acid supplement in rat
- Find an advantage of taking folic acid from folic acid-containing egg

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1. Background

2. Purpose

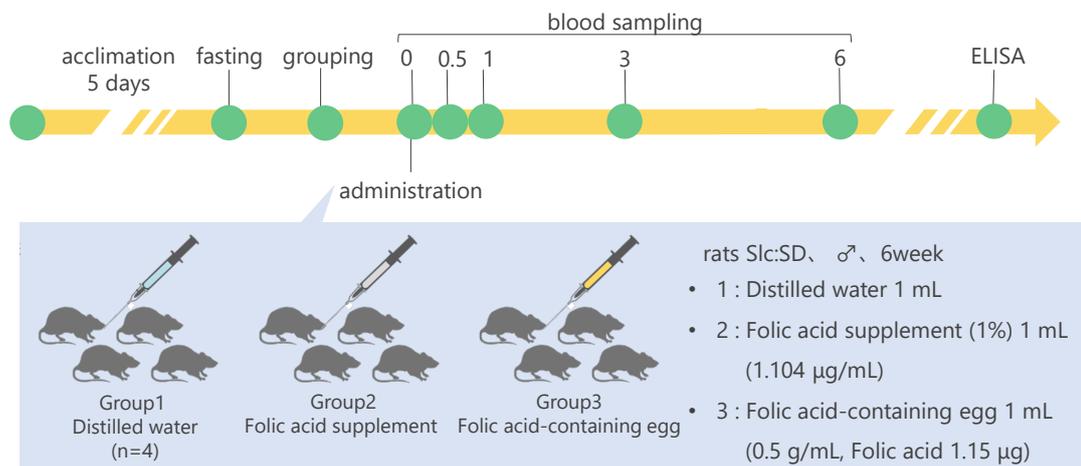
3. Method

4. Result

5. Discussion

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### 3.Method Materials and Methods



11

1. Background

2. Purpose

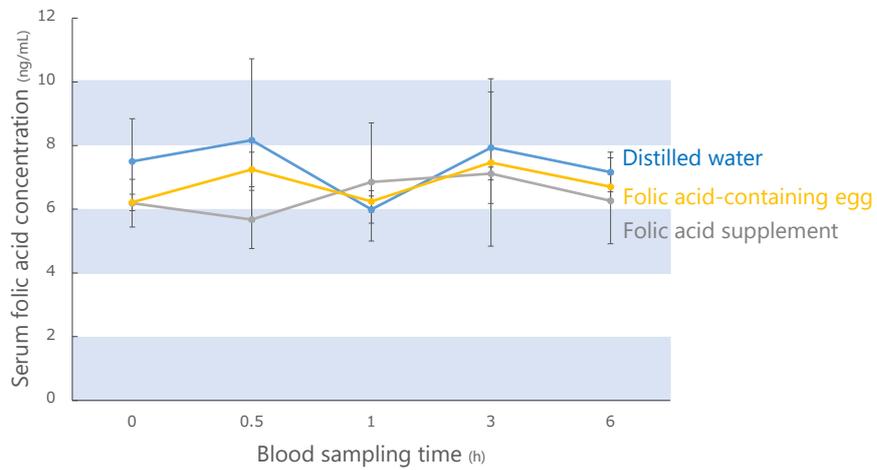
3. Method

4. Result

5. Discussion

12

## 4.Result Comparison of serum folic acid concentration



13

1. Background

2. Purpose

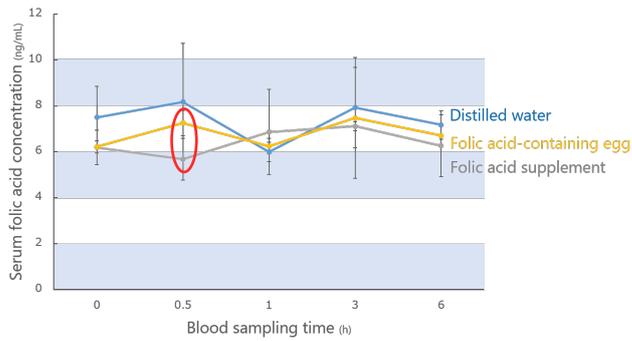
3. Method

4. Result

5. Discussion

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## 5.Discussion



- It takes time to transform from monoglutamate to 5-methyl-tetrahydrofolate
- Folic acid contained in egg is absorbed directly
- number of rats should be increased

15

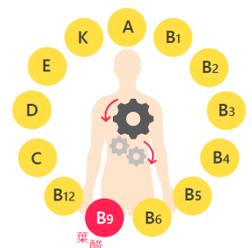
② Making promotional material about folic acid-containing egg

16

## ②葉酸の教材作成 一般の消費者向けの販促資料

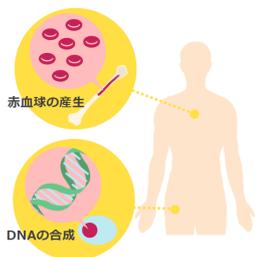
### 葉酸とは

ビタミンの一種。  
ビタミンには体内でエネルギーを作り出すのを助ける働きがあり、いわば機械の潤滑油のような存在である。

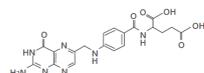


### 葉酸の働き

葉酸は体内でアミノ酸の代謝、DNAの合成、たんぱく質の合成などに関与している。  
DNAの合成は正常な赤血球の産生にも不可欠であり、葉酸が不足すると巨赤芽球性貧血が引き起こされる。



### 葉酸を含む食材



葉酸を含む食材は多くあるが、特にレバーのほか、ほうれん草、ブロッコリー、アスパラガスなどの緑黄色野菜に多く含まれる。

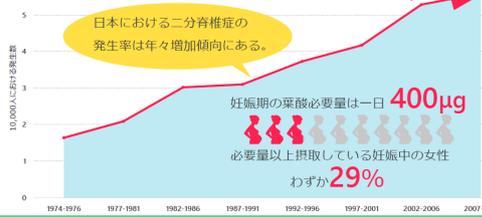


### 葉酸と妊婦 -葉酸不足によるリスク-

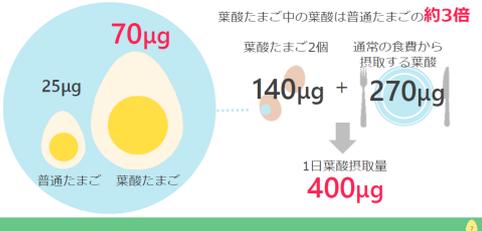
葉酸は妊婦にとって特に大切な栄養素。葉酸の不足は胎児の二分脊椎症のリスクを増加させる。



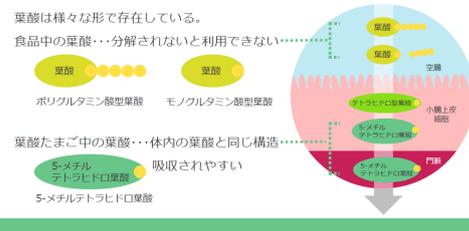
### 葉酸と妊婦 -日本の現状-



### 葉酸たまご



### 葉酸たまごのメリット -葉酸の構造-



### 葉酸たまごのメリットー加熱調理による変化ー

葉酸たまごは他の葉酸を含む食材に比べ調理後の損失が少ない。  
加熱調理後も葉酸たまご中の葉酸は約80%以上が保持される。

ゆでほうれん草  
49%

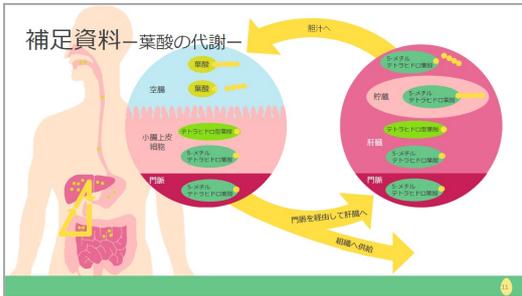
ゆで卵  
80%

炒り卵  
85%

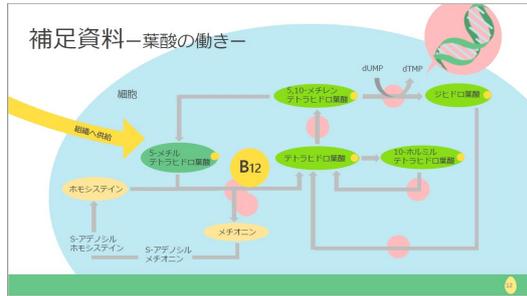
### 葉酸たまごで効率よく葉酸を摂取



### 補足資料ー葉酸の代謝ー



### 補足資料ー葉酸の働きー



Thank you for your listening

# Tsukuba City Hall Internship

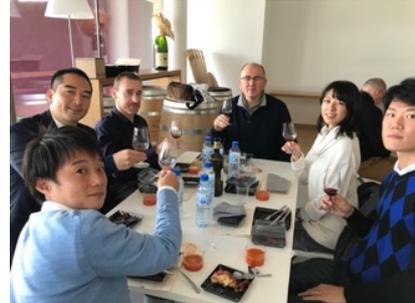
5/15

## Outline

1. Organization
2. Contents
3. Activity① : Workshop of Tsukuba Wine
4. Activity② : Publication Promotion materials
5. Activity③ : Writing Planning document of Tsukuba wine
6. Activity④ : Establishment of homepage for Tsukuba Wine
7. Activity⑤ : Others

2

## Organization



Tsukuba City Hall  
Agricultural policy section  
Tsukuba Wine project

## Background

### **Special zone for Tsukuba wine**

- Certificated by Japanese government in 2017
- It became Easier to make wine in Tsukuba
- Needs to establish Plan to promote wine industry in Tsukuba

# Contents

Activity① : Workshop of Tsukuba Wine

Activity② : Publication Promotion materials

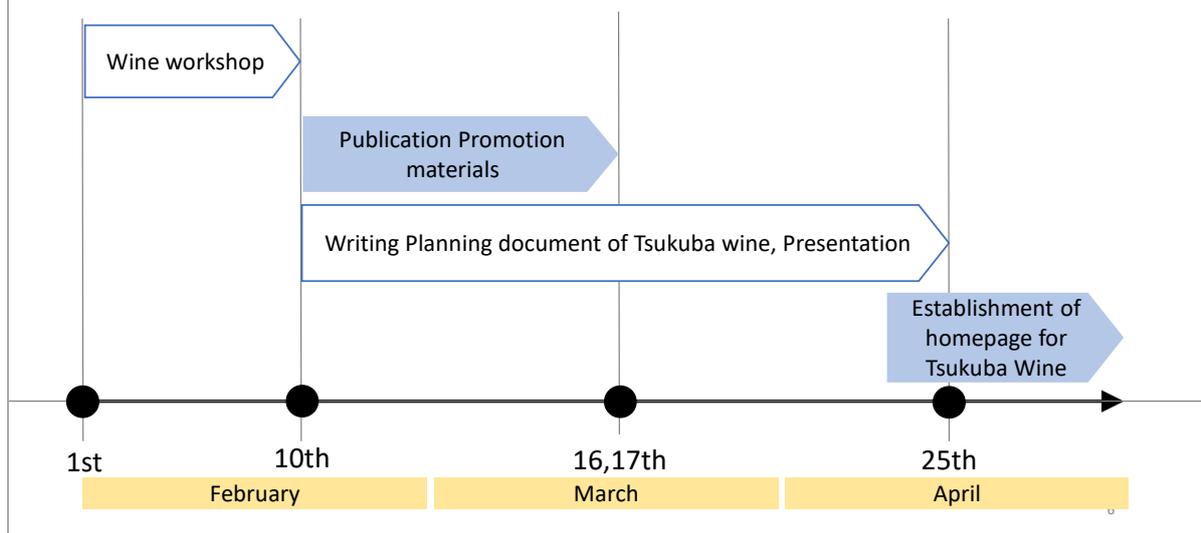
Activity③ : Writing Planning document of Tsukuba wine

Activity④ : Establishment of homepage for Tsukuba Wine

Activity⑤ : Others

5

# Schedule



## Activity① : Workshop of Tsukuba Wine



- Lecture by director of National research institute of brewing, wine maker in Yamanashi and wine consultant from Bordeaux

- Panel discussion

Activity :

- Managing the event

7

## Activity② : Publication Promotion materials



8

## つくばワイン・フルーツ酒特区!

### お酒クイズ(知ってますか?お酒の事)

#### Q1. そもそもお酒って何だろう?

日本では **酒税** 法で定められており、「酒類とは、アルコール分 1 度以上の飲料」とされています。

#### Q2. お酒の種類って?

酒類の製法や性状によって、発泡性酒類、醸造酒類、蒸留酒類及び混成酒類に分類されます。ちなみにワインは **醸造** 酒類にあたります。

#### Q3. お酒を造るには?

お酒を造るには **税務署** から酒類の **製造免許** を受けなくてはなりません。資格がない人がお酒を造るのは違法になります!

#### Q4. お酒を造る資格を得る条件は?

①お酒の **最低製造数量** が定められています。  
②その他、人的、場所的、経営基礎、需要調整、**技術・設備** の5つの大きな拒否要件に該当しないことが求められます。このうち **経営基礎** と **技術・設備要件** が小規模で新たに始めるための大きなハードルとなります。

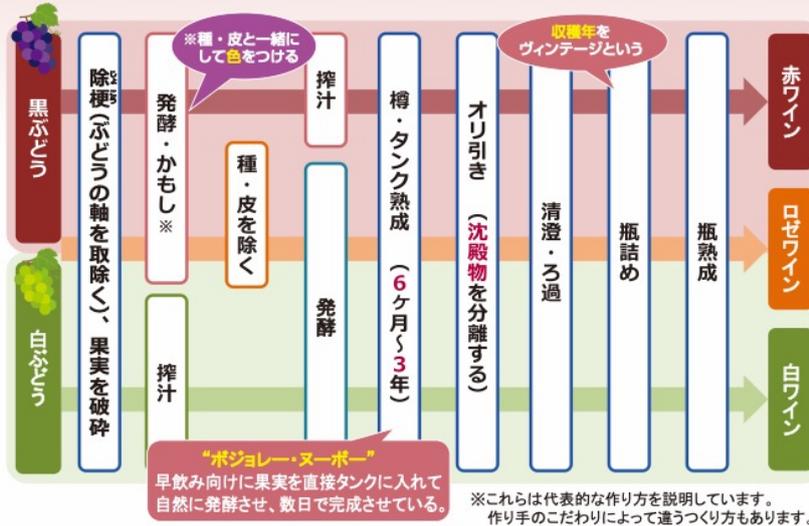
### 特区に認定されてどう変わった?

醸造免許を取得するために最低限造らなければいけないお酒の量が減りました



9

## ワインってどうやってできるの?



10

## Q. 「日本ワイン」ってなに？

### A. 国産ぶどうのみを原料とした「国内製造ワイン」

#### ワインのラベル表示のルール (果実酒等の製法品質表示基準)

国内に流通するワインは「国内製造ワイン」と「輸入ワイン」に区分されます。さらに国内製造ワインの中でも**国産ぶどうのみを原料としたワインが「日本ワイン」と表示されるようになりました。**

#### 輸入ワイン

フランスワイン  
ドイツワイン  
チリワインなど

海外原料  
輸入濃縮果汁  
バルクワイン  
(原料ワイン)

#### 国内製造ワイン

#### 日本ワイン

国産ぶどうのみを原料とした  
国内製造ワイン

地名や品種名を表示できる

#### 海外原料使用ワイン

・濃縮果汁使用  
・輸入ワイン使用  
などの表示を義務付け

地名や品種名を表示できない

出展：国税庁HP

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## ワインで「つくば(地名)」を名乗るには？

「日本ワイン」のラベルで「地名」を表記する方法は3種類

- 1 ぶどうの収穫地 (地名が示す範囲内にぶどうの収穫地(85%以上使用)がある)
- 2 ワインの醸造地 (地名が示す範囲内に醸造地がある)
- 3 ワインの産地 (1+2を同時に満たす場合)  
ぶどうの収穫地 + ワインの醸造地



ラベルに「つくば」を表示する例



出展：国税庁HP

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## つくばでつくられる黒ぶどう (主に赤ワイン用のぶどう)

### メルロー



ボルドー地方(仏南西部)原産。産地を選ばないため世界中で栽培され、日本にも多くみられる。酸味や渋みが少なくまろやかな味わい。ブルーンなどの黒い果実の香りが魅力。

### 富士の夢 (山ぶどう×メルロー)



日本原産。日本固有の山ぶどうである行者の水とメルローを交配した希少なぶどう。耐病性を高め、日本の風土と気候に適した品種となっている。

### シラー



ローヌ地方(仏南東部)原産。色素が濃く酸は強めで、黒コショウを思わせるスパイシーな香り。ジビエなど癖の強い食材にも負けない味わいをもつ。

### カベルネ・ソーヴィニヨン



ボルドー地方(仏南東部)原産で、最もよく知られる赤ワイン用品種のひとつ。色が濃くタンニンを多く含み、渋みや苦味をもつ深い味わいで、香りはカシスなどの濃い果実香となる。

13

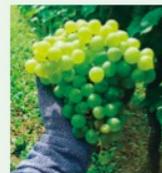
## つくばでつくられる白ぶどう (主に白ワイン用のぶどう)

### シャルドネ



ブルゴーニュ地方(仏東部)原産。「白ワインの女王」と称される代表的な品種。土地や作り手の個性が色濃く現れ、暖かい地域ではコクがあり、涼しい地域ではキレのある味わいとなる。

### 北天の雫 (山ぶどう×リースリング)



日本原産。日本固有の山ぶどうである行者の水とドイツ産品種のリースリングを交配することで、耐病性を高め、日本の風土と気候に適した品種となっている。

### プティ・マンサン



ボー地方(仏南西部)原産。甘口の白ワインに用いられ、モモや柑橘類の香りが際立つ。雨に強いいため、収穫期に台風が多くなる日本の気候に合うと期待されている。

### セミヨン



ボルドー地方(仏南西部)原産。糖度が高く酸味は穏やかな味わいで洋ナシやハチミツなどの芳香がある口当たりの良いワインになる。デザートワインに用いられる品種としても有名。

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## Activity③ :

### Writing Planning document of Tsukuba wine

- Starts from 2019 for 10 years
- Presented to Tsukuba vice mayor

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#### つくば市が抱える課題

農地・資金  
の確保

苗木の  
供給不足

ノウハウを  
学ぶ場の不足

醸造所建設の  
認知度の低さ  
他産業界連携

#### 推進計画

つくばに溶け込み、生活にいろどりを加えるワイン産業

つくばワインを愛する地域市民に育てられ、高品質で持続可能な産業を形成する。また、ワインが周辺の食産業やイベント等のサービスと結びつき、ワインを楽しむ文化が市民に根付くことで、それを魅力に感じる市内外の多くの人がつくばを訪れるようになる。

- 2019～2029年の10 カ年計画
- 生産者・消費者の両者から指示される地域づくりを目指す

**農業振興      産業振興      観光振興**

#### 数値目標

	現状	5年後目標	10年後目標
醸造用ぶどう 生産量・栽培面積	計 10 t 計 7 ha	計 35 t 計 15 ha	計 75 t 計 22 ha
ぶどう生産者	4 件	7 件	10 件
醸造所件数	0 件	3 件	7 件
ワインの年間売上	数百万円程度	8000 万円	1.7 億円
市内での知名度	—	50 %	80 %

#### 2019年度開始予定事業

農業振興	産業振興
<ol style="list-style-type: none"> <li>つくば地域の産地ブランド化</li> <li>産官学協働コミュニティの設立</li> <li>専用人材の育成・登用</li> <li>ぶどう栽培マニュアルの作成</li> <li>ワインの成分分析</li> <li>栽培可能地の情報集積</li> <li>苗木業者との連携強化</li> <li>規制緩和の推進</li> <li>技術向上セミナーの実施</li> <li>共同醸造所の建設検討</li> </ol>	<ol style="list-style-type: none"> <li>認知度調査の実施</li> <li>つくばワイン取扱店の増加</li> <li>ワインの飲食店持込推進</li> <li>地酒が飲める店PR</li> </ol>
<b>観光振興</b>	
<ol style="list-style-type: none"> <li>国際行事への提供</li> </ol>	

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## Activity④ :

### Establishment of homepage for Tsukuba Wine

- To promote wine industry in Tsukuba (Coming soon)
- Arrangement documents and reception for start-up farmer to make wine in Tsukuba

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## Activity⑤:Others

- Visiting strawberry farm
- Visiting feeding center
- Discussion with managerial dietician
- Attending seminars



Thank you for your attention

No.4



# Internship report

National Taiwan University

## The research topic

- Comparisons of neonicotinoids residue in tea leaves from Taiwan and Japan
- Internship location: Exposure Dynamics Research Section building (NIES)



2

## The purpose of internship

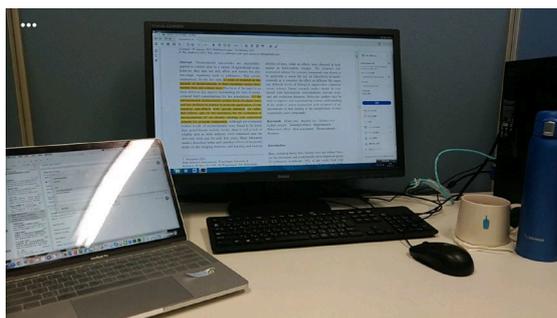
- Tea is the second most consumed beverage in the world
- The similarities of drinking tea culture in Taiwan and Japan
- The pesticides in tea farming- Neonicotinoids
- Neonicotinoids pesticide is one of the majority insecticides, and some studies indicate the risk of pesticide residue in the food. Neonicotinoids residue in tea leaves has not been highly discussed in Taiwan.



3

## Activity of internship

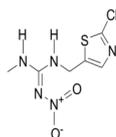
- Literature review
- LC-MS/MS demonstration
- report writing
- lab work observation



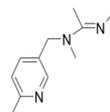
4

## The impacts of Neonicotinoids

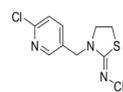
- Neonicotinoids pesticide is one of the majority insecticides, and some studies indicate the risk of pesticide residue in the food. We have a little knowledge about neonicotinoids residue from tea leaves in Taiwan.



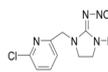
Clothianidin



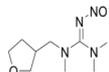
Acetamiprid



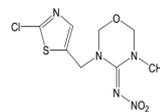
Thiacloprid



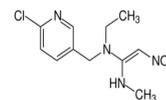
Imidacloprid



Dinotefuran



Thiamethoxam



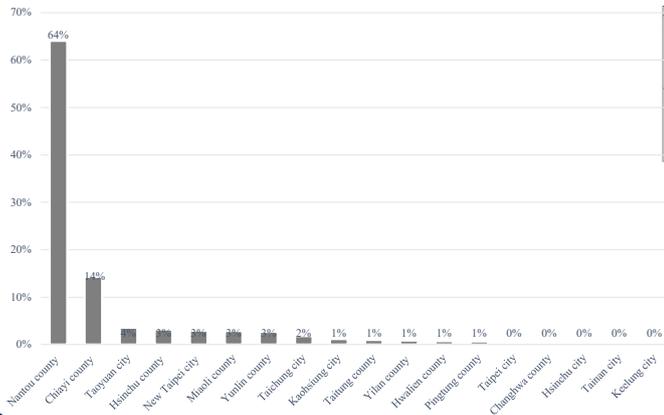
Nitenpyram



5

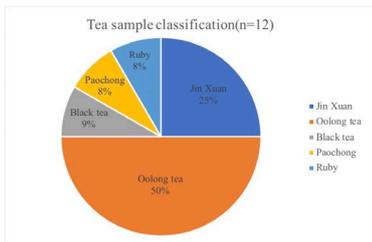
# Tea samples from Taiwan

Mainly tea production area in Taiwan



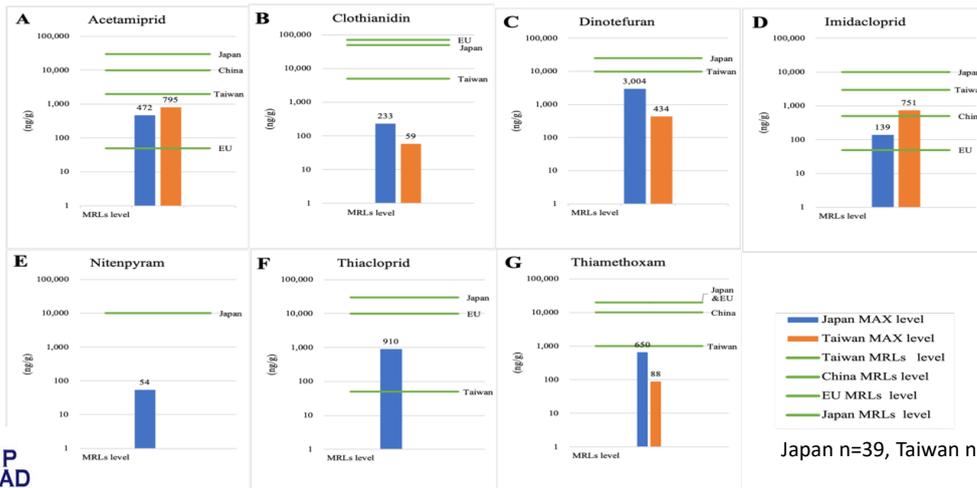
Tea samples list with picture (Taiwan)

Number	Name	Site (ID)	Picture	Picture	Picture	Picture
1	正統鹿耳門香	18.P215.P218				
2	竹山山園西園種	18.P215.P219				



6

# The results of internship



7

## Equipment



Figure A. Milli Q machine

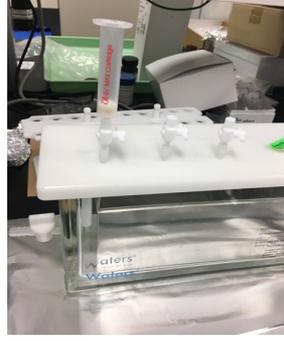


Figure B. sample collection



C. LC/MS machine



8

## The influence working spirits

- The working attitude is encouraging me to study and work hard. The cross-national working environment helps international student fit the research institute faster, which also create a pleasant working atmosphere.



9

# NIES



The welcoming and farewell party



Isobe sensei and Nakayama sensei

10

# Thank you for your listening



université  
BORDEAUX

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## 5. Appendix

### 5.1 Internship memorandum/pledge form templates

#### Memorandum on the Internship Program Provided by ●● Company and University of Tsukuba

●● Company (hereinafter referred to as “Party A”) and University of Tsukuba (hereinafter referred to as “Party B”) sign a memorandum on the internship program (hereinafter referred to as “practical training”) conducted for the students (hereinafter referred to as “interns”) from Party B by Party A as follows:

#### Memorandum

##### No. 1 Purpose

The purpose of this practical training is to provide the interns actual experiences of working and appropriate attitudes and basic abilities demanded by society through working experiences in Party A as part of the regular curriculum of Party B, and deepen the thoughts on the formation of one's own career.

##### No. 2 Basic roles of the provision of practical training, etc.

- (1) Party A shall accept the interns and provide necessary guidance and advice in the practical training for the interns.
- (2) Party B shall ensure full compliance of the matters prescribed in this memorandum by the interns, and in order to provide efficient practical training, provide necessary guidance and conduct supervision.

##### No. 3 Practical training hours, payment of remuneration, etc. and response to accidents, etc.

- (1) The practical training hours shall be from ●●:●● a.m. to ●●:●● p.m. However, employees who provide guidance and advice for the interns (hereinafter referred to as “practical training instructors”) may conduct practical training other than in the above time zone upon obtaining the consent of the interns in advance when they deem necessary.
- (2) Party A shall not pay expenses required during the practical training period (expenses for transportation, stay and meals) for the interns in principle. Provided that this shall not apply when said expenses are paid according to the regulations, etc. of Party A.
- (3) Party B must impose upon the intern’s obligation to obtain insurances such as “Personal Accident Insurance for Students Pursuing Education and Research” and “Liability Insurance for Internship, etc.” in preparation for cases where the interns are injured in accidents, etc. during the practical training period or where the interns cause damage to Party A.

No. 4 Matters to be observed during the practical training, etc.

- (1) The interns shall follow the instructions on the practical training of the practical training instructors and concentrate on the practical training during the practical training period, and shall not commit any act which will injure the credibility of Party A or which will disgrace.
- (2) Absence of the practical training shall not be allowed without any justifiable reason. If it becomes unavoidable to be absent from the practical training, the interns shall notify the practical training instructors thereof in advance and follow their instructions.
- (3) Party B shall provide the interns guidance not to release or leak the information obtained during the practical training in Party A (excluding released information) to third parties other than Party A during the practical training period and after completion of the practical training period and ensure full compliance of it.
- (4) When publishing scientific papers, etc. on the result of the practical training outside, the interns shall notify Party A of the outline of the details of the presentation, the locations of the presentation, etc. in advance and obtain the approval.
- (5) Party A may end the practical training when the interns do not comply with this memorandum or when any other event arises that makes it difficult to continue the practical training. Party A shall promptly notify Party B thereof when ending the practical training.

No. 5 Presentation of written pledge

The interns shall present Party A written pledges before taking the practical training.

No. 6 Prohibition of personal information for other purpose

Party A shall take all possible measures to ensure the management of the interns' personal information and shall not provide the interns' personal information to third parties without obtaining the consent of the person. In addition, Party A shall not use the interns' personal information for a purpose other than practical training management.

No. 7 Validity period of the memorandum

Validity period of this memorandum shall be from MM DD, 2019 to MM DD, 2019. However, when Party A or Party B notifies no later than 2 weeks prior to the date of expiry of the validity period, it shall be extended to up to August 31, 2019 from the next day of the date of expiry of said period.

No. 8 Consultation

Party A and Party B shall determine the matters not prescribed in this memorandum or the matters of which any doubt arises in this memorandum after due consultation.

In witness whereof, Party A and Party B shall execute this memorandum in duplicate by placing their signatures and seals hereon, and each party shall keep one of the originals.

MM DD, 2019

(甲) ●●●●, ●●, Ibaraki

●● Company

General Manager (Manager) of ●● ●●●●

(乙) 1-1-1 Tennodai, Tsukuba, Ibaraki

University of Tsukuba

Dean of the Graduate School of Comprehensive Human Sciences Haruki Uchiyama

## Written Pledge

●● Company  
General Manager (Manager) of ●●

For taking the practical intern training in your company, I promise to abide as follows as an intern:

### Memorandum

1. Devote to the designated practical training during the practical training period to work to achieve the practical training-oriented goals.
2. During the practical training period, comply with the rules and regulations of your company and follow the guidance, supervision, etc. on activities as an intern of the practical training instructors.
3. Do not release or leak the information obtained during the practical training in Party A (excluding released information) to third parties other than your company during the practical training period and after completion of the practical training period and ensure full compliance of it.
4. When publishing scientific papers, etc. on the result of the practical training outside, notify your company of the outline of the details of the presentation, the locations of the presentation, etc. in advance and obtain the approval.
5. When you cannot take planned practical training due to illness, etc., notify the practical training instructors thereof in advance. If it becomes unavoidable to be absent from the practical training, promptly notify the practical training instructors thereof after the fact.
6. When you cause damage to your company or third parties due to your intent or negligence during the practical training period, you are liable to pay compensation for the damage.

MM DD, 2019

Name of university  
Department

Name of student

Seal

## 5.2 Internship report form

International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health (GIP-TRAID), The Graduate School of Comprehensive Human Sciences, University of Tsukuba

### Internship Report

Student ID No.		Supervisor name	
Company/Institution name			
Evaluation period			

\*Each description frame can be changed as appropriate.

#### 1. Reasons for choosing the company as a place of internship

--

#### 2. Implementation details of the internship program

Date	Activity	Details

\*Specifically describe the content of the program by task (not necessary to include the items regarding intellectual property rights).

#### 3. What you got from the internship program

--

\*Describe for each item described in 2.

#### 4. Please write freely any other feedback, comments, requests etc. that you may have.

--

\*This report will be fed back to the company that accepted you as an intern.

\*Please submit this report immediately after completion of the internship program.

### 5.3 Evaluation Form

International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health (GIP-TRAID), The Graduate School of Comprehensive Human Sciences, University of Tsukuba

#### Evaluation Form

Date

##### 1. Internship Information

Company/Institution name			
Supervisor name		Student Name	
Evaluation period			

##### 2. Implementation details of the internship program

Date	Activity	Details

\*Each description frame can be changed as appropriate.

##### 3. Evaluation of the Intern

--

4. Please write freely any other feedback, comments, requests etc. that you may have.

--

\* This evaluation form will not be disclosed to the intern.

# Contacts

GIP-TRIAD Academic Service Office

## 1. University of Tsukuba

E-mail: [gip\\_info@un.tsukuba.ac.jp](mailto:gip_info@un.tsukuba.ac.jp)

Address 1-1-1 Tennodai, Tsukuba, Ibaraki 305-8575,

JAPAN University of Tsukuba, Medical Area 4E610

## 2. National Taiwan University

Email : [ntugiptriad@gmail.com](mailto:ntugiptriad@gmail.com)

Address : Rm 222, 2nd F., No. 1, Sec. 1, Jen-Ai Rd., Taipei 10051, Taiwan

## 3. University of Bordeaux

E-mail : [dominique.rolin@inra.fr](mailto:dominique.rolin@inra.fr)

Address : UMR 1332 Biologie du Fruit et Pathologie INRA Bordeaux-Aquitaine  
71 Avenue Edouard Bourlaux CS 20032 33882 Villenave d'Ornon Cedex France

