

GIP-TRIAD

Newsletter

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Vol.

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1 / Introduction

In January, key members from the three partner universities for the Global Innovation Joint-Degree Program (GIP-TRIAD) assembled in Bordeaux, France to advance talks toward establishing the joint degree program. We hope you'll enjoy this issue of the GIP-TRIAD Newsletter, which includes details about this important meeting and other activities and events that took place between University of Tsukuba and its partners for GIP-TRIAD.

2 / Activities

At University of Bordeaux

... The 4th International Conference for Global Innovation Joint-Degree Program

On January 18 and 19, 2016, GIP-TRIAD held its fourth joint meeting at University of Bordeaux in France. At the meeting, related faculty and staff members from University of Tsukuba and its partner universities for GIP-TRIAD, University of Bordeaux and National Taiwan University, discussed and negotiated details in preparation for the three-way joint degree planned between the universities. Meeting attendees from University of Bordeaux included Vice President for International Affairs Prof. Vincent Dousset, Prof. Dominique Rolin, Prof. Catherine Bennetau, Prof. Philippe Gallusci, Prof. Thierry Noel, Asst. Prof. Gerard Barroso, Asst. Prof. Valerie Schurdi-Leavaud, Asst. Prof. Kentaro Mori, Asst. Prof. Frederic Delmas, Veronique Debord-Lazaro, Frederic Bertrand, Emilie Bourgois, and Emmanuel Frouté. The meeting was also attended by a delegation from National Taiwan University made up of Prof. Hsinyu Lee and Prof. Tsai-kun Li, and a delegation from University of Tsukuba made up of

GIP-TRIAD Coordinator Prof. Yoshito Kumagai, Prof. Masayuki Matsumoto, Prof. Yuichi Yamaoka, Prof. Chiaki Matsukura, Prof. Joji Kijima, Asst. Prof. Ryosuke Ohniwa, Asst. Prof. Junichi P. Abe, Asst. Prof. Nobuhiko Akazawa, Asst. Prof. Yoshihiro Okabe, and Kevin McManus. The two-day meeting began with a special address by Vice President Dousset and confirmation of the agenda by Prof. Rolin, followed by progress report on the state of preparation of GIP-TRIAD by Prof. Kumagai. The remaining sessions of the meeting included detailed discussions of various important considerations for the management of the program, possible issues that may arise, and the respective preparation schedules for different aspects of the program. The meeting was regarded as a success as it provided an excellent opportunity for key members from each university to hold detailed discussions face-to-face and make clear strides toward the planned launching GIP-TRIAD in 2017.

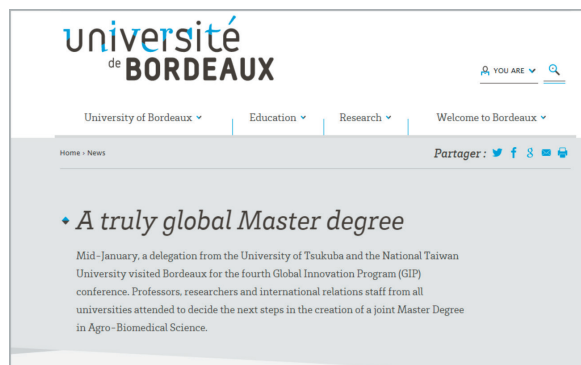


... Interview for University of Bordeaux's Homepage

While visiting Bordeaux for the 4th International Conference for GIP-TRIAD (Jan. 18-19), GIP-TRIAD Coordinator Prof. Yoshito Kumagai and Director of the Biotechnology Center at National Taiwan University, Prof. Hsinyu Lee, were interviewed by a representative of the University of Bordeaux's Marketing & PR Department. During the interview, Prof. Kumagai and Prof. Lee discussed and answered questions about the unique offerings of GIP-TRIAD, which combines agriculture and medical science into an interdisciplinary three-way joint degree. University of Bordeaux published an online article on its homepage following the interview, which can be accessed at the following URL: <http://www.u-bordeaux.com/News/A-truly-global-Master-degree>.



Prof. Kumagai and Prof. Lee are interviewed by a representative of University of Bordeaux's Marketing Department.



URL: <http://www.u-bordeaux.com/News/A-truly-global-Master-degree>

... Site Visit to INRA-Bordeaux's Château Couhins

While in Bordeaux for the 4th International Conference for GIP-TRIAD, delegates took time to visit Château Couhins, owned by the INRA-Bordeaux National Institute for Agricultural Research. Château Couhins produces a special limited wine commemorating the cooperative link between University of Tsukuba and University of Bordeaux. During the visit, an INRA researcher introduced delegates to Château Couhins' unique approach to viticulture and soil management, and led a tour of the facilities. The INRA-Bordeaux Center serves as home to University of Bordeaux's "Green Campus," and is being explored as a possible location for Fusion of Field and Laboratory Studies coursework in GIP-TRIAD.



... Double Degree Program Global Food Security Course Arrival of Inaugural Class Member Mr. Masaki Asachi

On January 6, Mr. Masaki Asachi, inaugural class member of the Global Food Security Course for the double degree program that was launched in Spring, 2015 under the Graduate School of Life and Environmental Sciences Master's Program in Agro-bioresources Science and Technology, arrived at University of Bordeaux—partner for the double degree—to begin his studies for the second half of the course at INRA-Bordeaux Center ("Green Campus"). For the next year, Mr. Asachi will enroll in University of Bordeaux's Plant Biology and Biotechnology Master's Program, completing his master's thesis research under the guidance of Prof. Laure Beven (UB). GIP-TRIAD plans to support this DDP program in cooperation with the University of Tsukuba Bordeaux Office for the success of the program and students such as Mr. Asachi.



Mr. Asachi and his research advisor Prof. Beven

... Site Visit to the Japan-France Joint Laboratory by Prof. Yuichi Yamaoka, Faculty of Life and Environmental Sciences

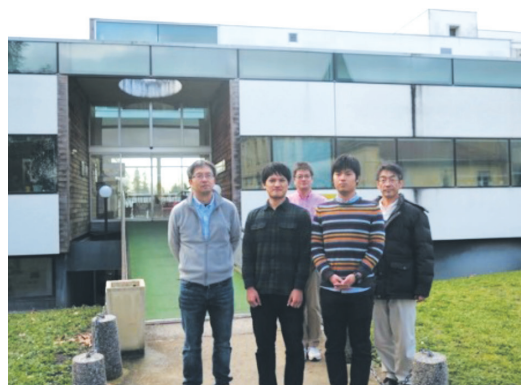
On January 20, Chair for the Master's Program in Agro-bioresources Science and Technology, Prof. Yuichi Yamaoka, together with Asst. Prof. Junichi P. Abe and Asst. Prof. Yoshihiro Okabe, visited University of Tsukuba's International Joint Laboratory located at INRA-Bordeaux Center (University of Bordeaux's "Green Campus"). During their visit, they met with head representative for University of Bordeaux for the Global Food Security Course (GFS) (Double Degree Program), Prof. Michel Hernould, and interviewed two University of Tsukuba Master's students, Mr. Masaki Asachi (inaugural class for GFC) and Mr. Masaru Takahara (conducting research in Bordeaux from January). The visit was supported by GIP-TRIAD in coordination with the University of Tsukuba Bordeaux Office.



Interview at the laboratory (from the left: Asst. Prof. Okabe, Prof. Yamaoka, Mr. Asachi)



Meeting between Prof. Hernould (right), Prof. Matsukura (center) and Prof. Yamaoka (left)



Prof. Matsukura, Mr. Asachi, Asst. Prof. Abe, Mr. Takahara, and Prof. Yamaoka pose in front of the International Joint Laboratory at INRA-Bordeaux Center.

At University of Tsukuba

... Visit to University of Tsukuba by the Embassy Attaché to the French Ministry of Science and Technology



Mr. Guillaume and Prof. Ezura talk in Prof. Ezura's office.

Mr. Cédric Guillaume, Embassy Attaché to the French Ministry of Science and Technology, visited University of Tsukuba to meet with Prof. Hiroshi Ezura, Chair of the Graduate School of Life and Environmental Sciences, to get information about current state of exchange between UT and France in relation to a new grant proposal for research exchange with France. During the meeting, Prof. Ezura explained the recent accomplishments, training, and research achieved at the joint laboratory between the University of Tsukuba Gene Research Center and INRA-Bordeaux Center.

... Joint Symposium between University of Tsukuba and University of Bordeaux: "Toward the Synthetic Biology in Bordeaux and Tsukuba"

筑波大学生命環境系
地球・人類共生科学研究機構
ボルドー大学共同シンポジウム
Toward the synthetic Biology
in Bordeaux and Tsukuba
日時：平成28年1月22日(金)
10:00 ~ 12:00, 12:45 ~ 15:00
場所：筑波大学 総合A棟A111

プログラム
★10:00-開会挨拶 鈴木 石根
(環境バイオマス共生学専攻長)

★午前の部 10:00-12:00
○Jean-Jacques Toulmé 10:00-10:30 (University of Bordeaux)
Orthogonal biosystems and bionanoscience - A focus on riboswitches
○Yonathan Afri 10:30-11:00 (University of Bordeaux)
Genomes and Minimal cells - A new heart and a new spirit, transplanting Mycoplasma genomes
○Koji Nakamura 11:00-11:30 (University of Tsukuba)
Bacillus minimum genome factory: Enhanced extracellular production of heterologous proteins in Bacillus subtilis by deleting genome
○Naoki Takaya and Shunsuke Masuo 11:30-12:00 (University of Tsukuba)
Microbial platform for producing artificial aromatic amines

★午後の部 12:45-15:00
○Frédéric DOMERGUE 12:45-13:15 (University of Bordeaux)
Biodiversity and metabolic engineering - Producing valuable lipid derivatives
○Iwane Suzuki 13:15-13:45 (University of Tsukuba)
Functional analysis of sensory mechanisms in the cyanobacterium Synechocystis PCC6803
○Tohru Ariizumi 13:45-14:15 (University of Tsukuba)
Designing tomato genomes by the breeding techniques
○Tomoki Chiba 14:15-14:45 (University of Tsukuba)
The role of proteasome activators in oxidative stress response

★14:50-閉会挨拶 松本 宏 (生命環境系長)

お問い合わせ：
筑波大学
生命環境エリヤ室
TEL 029-855-3555



University of Tsukuba and University of Bordeaux recently held a joint symposium with the theme of Synthetic Biology for the primary purpose of expanding research activities between the partner universities in the new field. Two speakers from University of Bordeaux, Prof. Jean-Jacques Toulmé and Prof. Yonathan Afri, were invited to give talks about recent developments in Synthetic Biology at the event. Five speakers from University of Tsukuba Graduate School of Life and Environmental Sciences also participated (Prof. Koji Nakamura, Prof. Tomoki Chiba, Prof. Iwane Suzuki, Prof. Naoki Takaya, and Assoc. Prof. Tohru Ariizumi). It is expected that cooperative activities between UT and UB will expand as a result of this fruitful symposium.



At National Taiwan University

Study Abroad Information Fair for National Taiwan University

On November 8, the University of Tsukuba's Taiwan Office attended a study abroad information fair organized by National Taiwan University. The event included booths prepared by 48 universities from Japan, Asia, Europe, Oceania, and North America, including University of Tsukuba, whose booth was visited by about 100 interested students. Thanks to the hard work of UT Taiwan Office's staff member, Ms. Chia-Yao Lin, UT's booth came in second place in a vote for "best booth" by attendees. It is hoped that many Taiwanese students choose to study abroad at University of Tsukuba, including through GIP-TRIAD.



Ms. Lin introducing UT to interested students



Award for Second Place!

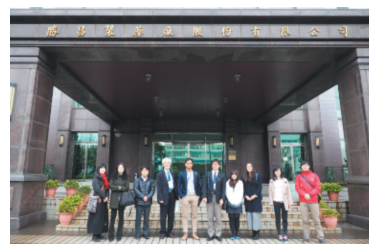
The 1st NTU-UT Joint Mini-symposium on Entrepreneurship Training

The 1st NTU-UT Joint Mini-symposium on Entrepreneurship Training was held at National Taiwan University from January 21 to 23 as an opportunity for faculty from both NTU and University of Tsukuba to share and discuss course offerings at both universities related to entrepreneurship training and education, which is planned as a core component of the GIP-TRIAD curriculum. The three-day symposium was lead by presentations by both Taiwanese and Japanese faculty about the current state of entrepreneurship and

entrepreneurship education in both countries, followed by a student presentation competition in which student groups showcased their business planning for a hypothetical business. On the final day, participants visited Sheng Chang Pharmaceutical Co., one of the top corporations for traditional Chinese medicine in Taiwan, and a start-up venture, MUCHO Biotech Co., to catch a first-hand glimpse at the current state of enterprise in Taiwan. Both companies are being considered as possible locations for internships in GIP-TRIAD.



Mini-symposium participants



Visit to Sheng Chang Pharm. Co.



Introduction of student groups



Visit to MUCHO Biotech Co.

... Visit to the the Japanese Chamber of Commerce and Industry, Taipei

The Japanese Chamber of Commerce and Industry, Taipei (JCCI) has a membership of over 500 Japanese-affiliated companies and organizations. On November 11, a representative of University of Tsukuba's Taiwan Office visited JCCI's administrative office to speak to the General Secretarial Manager and introduce University of Tsukuba's current activities in Taiwan. Following this visit, on February 5 at a monthly meeting for JCCI, University of Tsukuba introduced its international

activities, including its plans for GIP-TRIAD, in a presentation titled "International Expansion at the University of Tsukuba: New Graduate Programs for Cultivating Innovative Human Resources," and took the opportunity to administer a questionnaire about GIP-TRIAD to attendees. It is planned that the feedback from these and other questionnaires will be put to use in the planning for GIP-TRIAD and arrangement of corporate internships for GIP-TRIAD students.



Visit to JCCI's administrative office



Presentation at JCCI's monthly meeting

... Inauguration Ceremony for the University of Tsukuba Taiwan Alumni Association

The University of Tsukuba Taiwan Alumni Association held its inauguration ceremony on February 20 in Taipei, Taiwan. The ceremony was attended by about 70 alumni currently residing in the area and 21 guests from the University of Tsukuba, including President Kyosuke Nagata and Vice President (Global Affairs) Caroline Benton. At the meeting, Hua-Wei Lin, President of National Taiwan University of Sport and graduate of the University of Tsukuba Master's Program in Health and Sport Sciences (1989), was inaugurated as the first president of the Alumni Association, and the association bylaws were formally established. Representatives of University of Tsukuba's partners in Taiwan including National Taiwan University attended the event and offered congratulations on starting the new endeavor. The event was also attended by UT alumni currently working in industry in Taiwan, who are anticipated to play a supportive and collaborative role in GIP-TRIAD.

A dinner organized by the East Asia Relations Commission was held on the evening prior to the meeting (Feb. 19). It was attended by UT President

Nagata and President Jia-Jing Li of East Asia Relations Commission, who took the opportunity to reconfirm their interest to continue to work toward interchange between University of Tsukuba and Taiwan.

During his visit (Feb. 20), UT President Nagata took time to visit the UT Taiwan Office and attend a luncheon meeting hosted by National Taiwan University President Pan-Chyr Yang, where they discussed future research and education collaborations between the two institutions.



Commemorative Photo at the University of Tsukuba Taiwan Alumni Association Meeting



Dinner Organized by the East Asia Relations Commission



President Nagata's visit to the UT Taiwan Office



Luncheon Meeting with NTU President Yang

... Information from Monsanto Japan

Monsanto Japan Ltd. recently published information on its website about its support of the University of Tsukuba Graduate School of Life and Environmental Sciences Double Degree Program Global Food Security Course. It is planned that in the future Monsanto Japan will publish the GIP-TRIAD Newsletter on its website, and GIP-TRIAD will link to Monsanto Japan's homepage on its own website, in addition to information sharing between the two with regard to the cultivation of talented human resources at both the university and corporate level.



Establishment of the "Monsanto Japan Scholarship System for the Cultivation of Professionals Aspiring for Sustainable Agriculture" in support of the University of Tsukuba Double Degree Program Global Food Security Course

February 2016

In November 2015, The University of Tsukuba and Monsanto Japan Ltd. established the "Monsanto Japan Scholarship System for the Cultivation of Professionals Aspiring for Sustainable Agriculture" in support of the Global Food Security Course of the Double Degree Programs between University of Tsukuba Graduate School of Life and Environmental Science and the University of Bordeaux and National Taiwan University, respectively.

Global agriculture now faces myriad challenges including the increase in food demand due to population growth and the decrease in arable land and water shortages resulting from global warming. There is a demand for technological developments that can lead to food production through sustainable agriculture in response to these limited resources. Monsanto Company strives to contribute to the pursuit of such sustainable agriculture through the application of various techniques and technologies such as plant breeding, plant biotechnology (gene combination), chemical and organic pesticides, and precision farming through use of data science.

Correspondingly, there is a demand for young researchers and leaders with a global perspective that are capable of realizing a system of sustainable agriculture.

The University of Tsukuba looks to cultivate just such globally capable researchers and leaders in agriculture through its collaborative programs with partners such as the University of Bordeaux and National Taiwan University. In order to do this, University of Tsukuba aims to educate practical and able human resources through first-hand experience such as with circular agriculture in France, a major agricultural country, and intensive farming in Taiwan, yielding techniques and ideas that until now have not existed in Japan.

Monsanto Japan also aims to cultivate such young researchers globally active in agriculture, and as such endorses these collaborative degree programs at University of Tsukuba. As a corporation with the same fundamental interests, Monsanto offers its support in the form of a scholarship system for these programs. Through this scholarship, Monsanto proposes a new model for the promotion of Japanese agriculture from a global perspective, anticipating that it will result lead to the cultivation of talented individuals who can put such model it into action.

About Monsanto Company:

We here at Monsanto Company are dedicated to offering and lending support to a range of effective solutions to the challenge of providing enough food resources to accommodate the continually increasing world population. Our company produces various seeds to meet the production needs of agricultural producers of healthy foods, from fruits and vegetables to major crops such as corn, soy, and cotton. At Monsanto, we work so that agricultural producers may conserve natural resources, and utilizing data for the betterment of agriculture, efficiently make use of water and other important resources, offering sustainable agricultural solutions for protection from harmful insects and disease. Through our programs and partnerships, we work together with agricultural producers, researchers, NPOs, universities, and any other men and women who strive to combat the challenges facing the world. To learn more about Monsanto Company, our company's work, and the twenty thousand women and men we employ devoted to finding solutions to the world's challenges, please visit discover.monsanto.com and monsanto.com. Follow us on Twitter at [www.twitter.com/MonsantoCo](https://twitter.com/MonsantoCo) or on our blog, "Beyond the Rows," at www.monsantoblog.com, where you can subscribe to our RSS News Feed.

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【Twitter】 <https://twitter.com/monsantojapan>

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E-mail: bio.info@monsanto.com

3 / *Relevant Information about Studying Abroad*

"Innovation Internship 100"

Below is the latest information about "Innovation Internship 100" program, which was featured in the previous GIP-TRIAD Newsletter.

FRANCE JAPAN
INNOVATION

FRANCE JAPAN
INNOVATION YEAR



"Innovation Internship 100" Starts!

French Japanese Innovation Year, an initiative of French Prime Minister Manuel Valls, was commenced on Oct. 5, 2015. The initiative promotes long-term internships overseas, a practice that is relatively uncommon in Japan. "Innovation Internship 100," created as a part of this initiative, offers students and graduates up to 30-years old and with Japanese nationality the opportunity to intern at top corporations in France for a period of 3-12 months, serving as a strong source of support for those looking to gain employment overseas.

1.Target Candidates

Students with Japanese nationality and aged 30 or under at the expected time of graduation. Candidates are to be selected by participating corporations based on their abilities and statement of purpose.

2.Participating Corporations

Currently, participating corporations include:

THALES, MICHELIN, Air Liquide R&D, Sanofi, AXA Group, ORANGE S.A., VALEO LIGHTING SYSTEM, Valeo Systèmes Thermiques, PSA Peugeot Citroën, Fives Intralogistics SA

3.Outline of "Innovation Internship 100"

Selected interns engage in a project related to one aspect of innovation (including scientific technique, industry, financing, cooking, fine arts, marketing, and management, among others). Interns will receive supervision and coaching at their assigned corporate site and be given responsibilities fitting to their abilities. Other details such as language use, remuneration, location, accommodation, etc. are different depending on the accepting corporation.

4.Visa

Selected interns can participate with a Working Holiday Visa, which can be obtained free of charge. (No other visa-related formalities are necessary; However, selected interns who remained enrolled in their home country university for the period of their internship may need authorization from their university to participate. Please consult with the appropriate university official as necessary.)

It is possible for selected interns who have already previously been issued a Working Holiday Visa or interns who have a signed three-way agreement with the appropriate labor department (*Direction régionale des entreprises, de la concurrence, de la consommation, du travail et de l'emploi*) to participate under a different visa category.

5. Remuneration

Remuneration differs by internship.

※ Note: It is possible to include an internship in France as a part of the Study Abroad Plan in the application for the "Tobitate! (Leap for Tomorrow) Study Abroad Initiative," managed by the Japan Student Services Organization (JASSO) under the support of private companies. However, successful or failed Innovation Internship 100 applications do not necessarily qualify/disqualify applicants this program. Furthermore, if an intern is currently enrolled in a Japanese university and the internship activities are considered part of his/her educational training, the remuneration for the internship may not exceed the monthly allowance determined by the program in certain situations. Applicants should refer to the available relevant details when applying.